

PUB. 112

LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

2004

WESTERN PACIFIC AND
INDIAN OCEANS INCLUDING THE
PERSIAN GULF AND RED SEA

IMPORTANT
**THIS PUBLICATION SHOULD BE CORRECTED
EACH WEEK FROM THE NOTICE TO MARINERS**



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NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
Bethesda, MD

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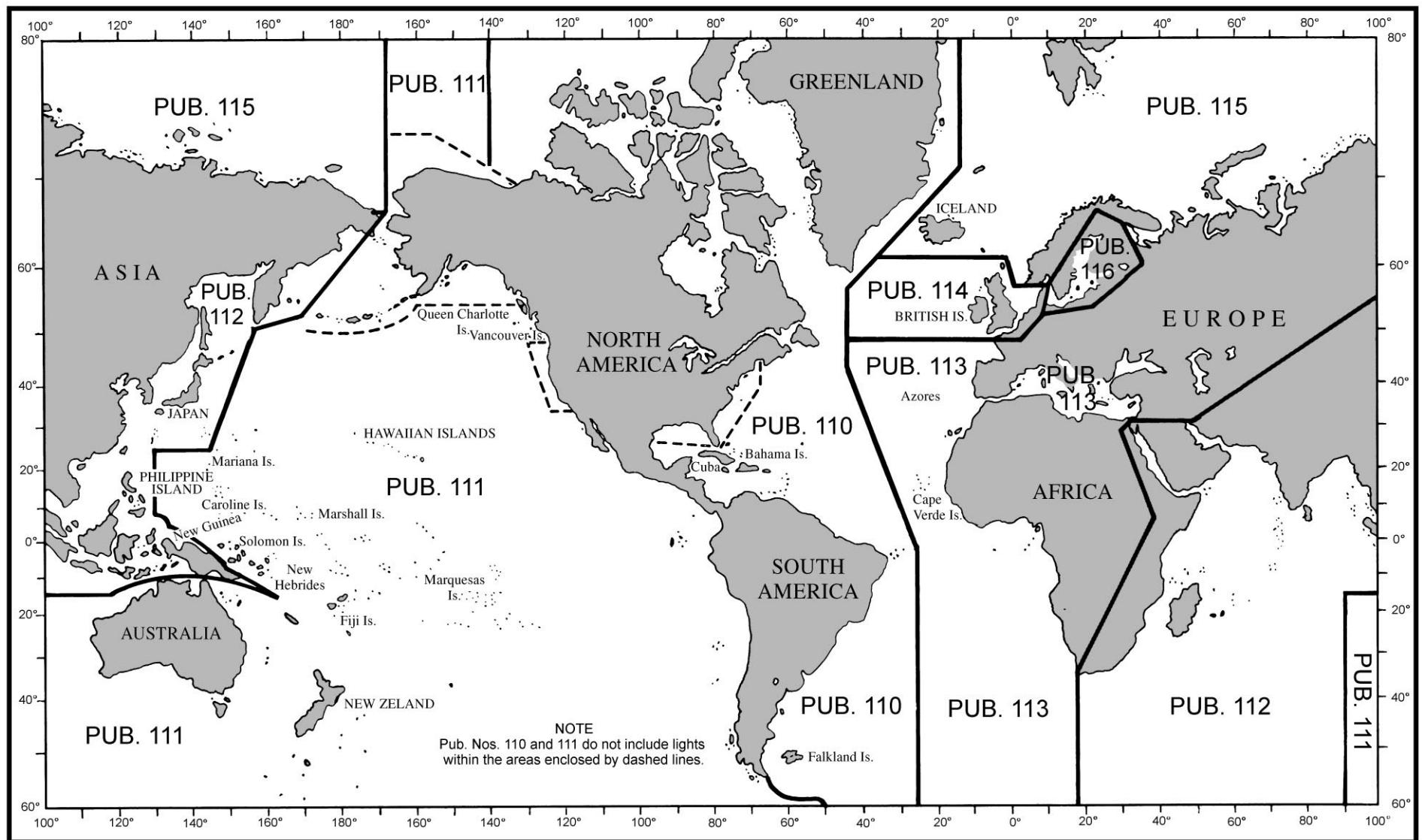
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LIST OF LIGHTS LIMITS

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY



112

LIGHTS

WESTERN PACIFIC

2004

WARNING ON USE OF FLOATING AIDS TO NAVIGATION TO FIX A NAVIGATIONAL POSITION

The aids to navigation depicted on charts comprise a system consisting of fixed and floating aids with varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid.

The buoy symbol is used to indicate the approximate position of the buoy body and the sinker which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecisions in position fixing methods, prevailing atmospheric and sea conditions, the slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying lengths of chain, and the fact that buoy and/or沉器 positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which often occur more than a year apart. The position of the buoy body can be expected to shift inside and outside the charting symbol due to the forces of nature. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice or other natural causes, collisions, or other accidents.

For the foregoing reasons, a prudent mariner must not rely completely upon the position or operation of floating aids to navigation, but will also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass close aboard always risks collision with a yawing buoy or with the obstruction the buoy marks.

PREFACE

The 2004 edition of Pub. 112, List of Lights, Radio Aids and Fog Signals for the Western Pacific and Indian Oceans including the Persian Gulf and Red Sea, cancels the previous edition of Pub. 112.

This edition contains information available to the National Geospatial-Intelligence Agency (NGA) up to 29 November 2003, including Notice to Mariners No. 48 of 2003.

A summary of corrections subsequent to the above date will be in Section II of the Notice to Mariners which announced the issuance of this publication.

In the interval between new editions, corrective information affecting this publication will be published in the Notice to Mariners and must be applied in order to keep this publication current.

Nothing in the manner of presentation of information in this publication or in the arrangement of material implies endorsement or acceptance by NGA in matters affecting the status and boundaries of States and Territories.

RECORD OF CORRECTIONS PUBLISHED IN WEEKLY NOTICE TO MARINERS

NOTICE TO MARINERS

	YEAR 2004			YEAR 2005		
1.....	14.....	27.....	40.....	1.....	14.....	27.....
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INTRODUCTION

The National Geospatial-Intelligence Agency publishes a List of Lights, Radio Aids and Fog Signals in seven volumes divided geographically as shown on the index chartlet on the inside front cover of this book. Major fixed and outermost floating aids to navigation, such as sea buoys, safety fairway buoys, traffic separation buoys, etc., are listed. Other floating aids are not generally listed. Storm signals, signal stations, radio direction finders, radiobeacons, RACONs and RAMARKs located at or near lights are found in this List. Radiobeacons are listed in a separate section in the back of this publication.

The date to which this publication has been corrected can be found in the Preface. In the interval between new editions, corrective information affecting this publication will be published in Section II of Notice to Mariners, and must be applied to keep this publication current. All of these corrections should be applied in the appropriate places and their insertion noted in the "Record of Corrections."

Mariners and other users are requested to forward new or corrective information useful in the correction of this publication to:

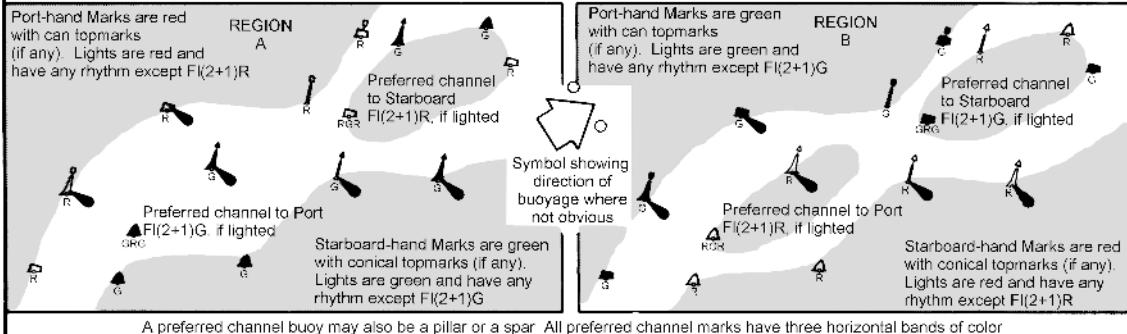
MARITIME SAFETY INFORMATION DIVISION
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NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
4600 SANGAMORE ROAD
BETHESDA, MD 20816-5003

Buoys and Beacons IALA* Buoyage System

Where in force, the IALA System applies to all fixed and floating marks and occasionally lighthouses, sector lights, range marks, lightships and LANBY's (large automatic navigational buoys).

The standard buoy shapes are cylindrical (can) , conical , spherical , pillar (including high focal plane)  and spar , but variations may occur, for example lightfloats . In the illustrations below, only the standard buoy shapes are used. In the case of fixed beacons (lighted or unlighted), only the shape of the topmark is of navigational significance.

Lateral Marks (used in conjunction with a conventional direction of buoyage) are generally for well-defined channels. There are two international Buoyage Regions-A and B where Lateral marks differ.



All marks other than Lateral Marks are the same in REGIONS A and B

UNLIGHTED MARKS	LIGHTED MARKS
Cardinal Marks indicating navigable water to the named side of the marks	
Topmark: 2 black cones North Mark Black above yellow West Mark Point of interest Yellow with black band South Mark Yellow above black	Time (seconds) White light 0 5 10 15 North Mark VQ or Q BY East Mark VQ(3)s or Q(3)10s BY South Mark VQ(6)+LF1.10s or Q(6)+LF1.15s BY West Mark VQ(6) 10s or Q(6) 15s BY
	* The same abbreviations are used for lights on spar buoys and beacons. The periods, 5s, 10s and 15s, may not always be charted.

Isolated Danger Marks , stationed over dangers with navigable water around them.
Body black with red band (s) Topmark: 2 black balls
Body red and white stripes Topmark (if any): red ball
Body (shape optional): yellow Topmark (if any) yellow X

BEACONS with IALA System topmarks are charted by upright symbols, e.g.    etc. Beacon towers are charted:    (occasionally lighted). RADAR REFLECTORS on buoys and beacons are not generally charted. COLOR ABBREVIATIONS under symbols, especially those of spar buoys, may be omitted, or may be at variance with symbols shown above. LIGHTFLOATS: The IALA System is not usually applied to large lightfloats (replacing manned lightships) but may be applied to smaller lightfloats.
* IALA is an abbreviation of International Association of Lighthouse Authorities

THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY MARITIME SAFETY INFORMATION DIVISION WEBSITE

The National Geospatial-Intelligence Agency (NGA) Marine Navigation Website provides worldwide remote query access to extensive menus of maritime safety information 24 hours a day.

Databases made available for access, query and download include Chart Corrections, Publication Corrections, NGA Hydrographic Catalog Corrections, Chart and Publication Reference Data (current edition number, dates, title, scale), NIMA List of Lights, USCG Light Lists, WorldWide Navigational Warning Service (WWNWS) Broadcast Warnings, Maritime Administration (MARAD) Advisories, Department of State Special Warnings, Mobile Offshore Drilling Units (MODUs), Anti-Shipping Activity Messages (ASAMs), World Port Index, and Radio Navigational Aids. Publications that are also made available as PDF files include the U.S. Notice to Mariners, U.S. Chart No. 1, The American Practical Navigator (Bowditch), International Code of Signals, Radio Navigational Aids, World Port Index, Distances Between Ports, Sight Reduction Tables for Marine and Air Navigation, and the Radar Navigation and Maneuvering Board Manual.

The Maritime Safety Information Division Website can be accessed directly at <http://pollux.nss.nga.mil>. Any questions concerning the Maritime Safety Information Division Website should be directed to:

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DESCRIPTION

(Lights, Buoys, RACONs, RAMARKs)

Information is tabulated in eight columns as follows:

Column 1: The number assigned to each light, RACON or RAMARK by this Agency. International numbers are listed below this number in italic type and in a cross reference in the back of the book. RACONs and RAMARKs located at a light are listed with the light. Those not located at a light are assigned separate numbers.

Column 2: Name and descriptive location of the light or buoy, RACON or RAMARK. A dash (-) or dashes (--) in this column is used to reduce repetition of principal geographic names. This column is intended to describe the location of the navigational aid and to distinguish it from others in proximity. Differences in type indicate the following:

Bold-faced: Lights intended for landfall or having a visibility (range) of 15 miles or more.

Italics: Floating aids.

ITALICS CAPITALS: Lightships and LANBYs.

Roman: All other lights not mentioned above.

Column 3: Approximate latitude and longitude of a navigational aid to the nearest tenth of a minute, intended to facilitate chart orientation (use column 2 and the appropriate chart for precise positioning).

Column 4: Light, buoy, RACON or RAMARK characteristic (see Characteristics of Lights chart for explanation of lights).

Column 5: Height of light in feet (Roman type) equivalent measurement (below) given in meters (Bold-faced type).

Column 6: Range. The distance, expressed in nautical miles, that a light can be seen in clear weather or that a RACON or RAMARK can be received.

Column 7: Description of the structure and its height in feet.

Note—Stripes are vertical. Bands are horizontal. The use of the term “diagonal stripes” is the exception.

Column 8: Remarks—sectors, fog signals, radar reflectors, minor lights close by, radiobeacons, storm signals, signal stations, radio direction finders, and other pertinent information.

Geographic names or their spellings do not necessarily reflect recognition of the political status of an area by the

United States Government.

The names of lights may differ from geographic names on charts.

ABBREVIATIONS

Where the lights of different countries intermingle in the list they are distinguished by the following letters:

(Aus.)	Australia	(J.)	Japan
(C.)	China	(M.)	Malaysia
(F.)	France	(P.)	Portugal
(Ind.)	Indonesia	(T.)	Thailand
(In.)	Iran	(U.K.)	United Kingdom
(Iq.)	Iraq	(U.S.)	United States

Other abbreviations:

Al.—alternating	lt.—lit
bl.—blast	Mo.—Morse code
Bu.—blue	min.—minute
Dir.—directional	obsc.—obscured
ec.—eclipsed	Oc.—occulting
ev.—every	Or.—orange
F.—fixed	Q.—quick flashing
Fl.—flashing	R.—red
fl.—flash	s.—seconds
G.—green	si.—silent
horiz.—horizontal	U.Q.—ultra quick flashing
intens.—intensified	unintens.—unintensified
I.Q.—interrupted quick flashing	vert.—vertical
Iso.—isophase	Vi.—violet
I.V.Q.—interrupted very quick flashing	vis.—visible
Km.—kilometer (0.62137 mile)	V.Q.—very quick flashing
L.Fl.—long flashing	W.—white
	Y.—yellow

CHARACTERISTICS OF LIGHTS

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Fixed	F.	A continuous and steady light.	
Occulting	Oc.	The total duration of light in a period is longer than the total duration of darkness and the intervals of darkness (eclipses) are usually of equal duration. Eclipse regularly repeated.	 Period 12s
Group occulting	Oc.(2)	An occulting light for which a group of eclipses, specified in number, is regularly repeated.	 Period 14s
Composite group occulting	Oc.(2+1)	A light similar to a group occulting light except that successive groups in a period have different numbers of eclipses.	 Period 9s
Isophase	Iso.	A light for which all durations of light and darkness are clearly equal.	 5s | 5s
Flashing	Fl.	A light for which the total duration of light in a period is shorter than the total duration of darkness and the appearances of light (flashes) are usually of equal duration (at a rate of less than 50 flashes per minute).	 10s
Long flashing	L.Fl.	A single flashing light for which an appearance of light of not less than 2 sec. duration (long flash) is regularly repeated.	 Period 8s
Group flashing	Fl.(3)	A flashing light for which a group of flashes, specified in number, is regularly repeated.	 Period 12s
Composite group flashing	Fl.(2+1)	A light similar to a group flashing light except that successive groups in a period have different numbers of flashes.	 Period 15s
Quick flashing	Q.	A light for which a flash is regularly repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	 Period 10s
Group quick flashing	Q.(3)	A light for which a specified group of flashes is regularly repeated; flashes are repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	 Period 12s
	Q.(9)		 Period 15s
	Q.(6)+L.Fl.		

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Interrupted quick flashing	I.Q.	A light for which the sequence of quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Very quick flashing	V.Q.	A light for which a flash is regularly repeated at a rate of not less than 80 flashes per minute but less than 160 flashes per minute.	
Group very quick flashing	V.Q.(3)	A light for which a specified group of very quick flashes is regularly repeated.	
	V.Q.(9)		
	V.Q.(6)+L.Fl.		
Interrupted very quick flashing	I.V.Q.	A light for which the sequence of very quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Ultra quick flashing	U.Q.	A light for which a flash is regularly repeated at a rate of not less than 160 flashes per minute.	
Interrupted ultra quick flashing	I.U.Q.	A light for which the sequence of ultra quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Morse code	Mo.(U)	A light for which appearances of light of two clearly different durations are grouped to represent a character or characters in Morse Code.	
Fixed and flashing	F.Fl.	A light for which a fixed light is combined with a flashing light of greater luminous intensity.	
Alternating light	Al.	A light showing different colors alternately.	

NOTE - Alternating lights may be used in combined form with most of the previous types of lights.

NOMENCLATURE OF LIGHTS

Lights exhibit a distinctive appearance by which they are recognized, e.g. Fixed, Flashing, Group Flashing, etc. The properties of their appearance, by which they are distinguished, are referred to as the *characteristics* of the light. The principal characteristics are generally the sequence of intervals of light and darkness, and, in some cases, the sequence of colors of light exhibited.

Fixed lights—those which exhibit a continuous steady light.

Rhythmic lights—those which exhibit a sequence of intervals of light and eclipse (repeated at regular intervals) in a manner described in Chart No. 1 and this volume.

Alternating lights—rhythmic lights which exhibit different colors during each sequence.

Period of a light—the time occupied by an entire cycle of intervals of light(s) and eclipse(s).

Range: Meteorological visibility—the greatest distance at which a black object of suitable dimensions can be seen and recognized against the horizon sky or, in the case of night observations, could be seen and recognized if the general illumination were raised to the normal daylight level.

Luminous range of a light—the greatest distance at which a light can be seen merely as a function of its luminous intensity, the meteorological visibility, and the sensitivity of the observer's eyes.

Nominal range of the light—the luminous range of a light in a homogeneous atmosphere in which the meteorological visibility is 10 nautical miles.

Geographical range of a light—the greatest distance at which a light can be seen as a function of the curvature of the earth, the height of the light source and the height of the observer.

The visibility of a light is usually the distance that it can be seen in clear weather and is expressed in nautical miles. Visibilities listed are values received from foreign sources.

Range lights—two or more lights at different elevations, so situated to form a range (leading line) when brought into transit. The light nearest the observer is the *front light* and the one farthest from the observer is the *rear light*. The front light is normally at a lower elevation than the rear light.

Directional lights—lights illuminating a sector of very narrow angle and intended to mark a direction to be followed.

Vertical lights—Two or more lights disposed vertically or geometrically to form a triangle, square, or other figure. If the individual lights serve different purposes, those of lesser importance are called *Auxiliary lights*.

Occasional lights—lights exhibited only when specially needed:

(a) *Tidal light*—shown at the entrance of a harbor, to indicate tide and tidal current conditions within the harbor.

(b) *Fishing light*—for the use of fishermen and shown when required.

(c) *Private light*—maintained by a private authority for its own purposes. The mariner should exercise special caution when using a private light for general navigation.

Seasonal lights—usually shown only during the navigation season or for a lesser time period within that season.

Articulated lights—offshore aids to navigation consisting of a length of pipe attached directly to a sinker by means of a pivot or such other device employing the principle of the universal joint. The positional integrity is intermediary between that of a buoy and a fixed aid.

Aeronautical lights—lights of high intensity which may be the first lights observed at night from vessels approaching the coast. Those lights situated near the coast are listed in the List of Lights in order that the navigator may be able to obtain more information concerning their description.

These lights are not designed or maintained for marine navigation and they are subject to change without prompt notification.

These lights are indicated in this List by the designation AVIATION LIGHT and are placed in geographical sequence in the body of the text along with lights for surface navigation.

Aeromarine lights—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

Sector limits and arcs of visibility—these are arranged clockwise and are given from seaward toward the light. Thus, in the diagram, the sectors of the light are defined as: obscured from shore to 302°, red to 358°, green to 052°, white to shore. These are bearings of the light as seen from a vessel crossing the sector lines.

Under some conditions of the atmosphere, white lights may have a reddish hue. The mariner should not judge solely by color where there are sectors but should verify this position by taking a bearing of the light. On either side of the line of demarcation between white and red there is always a small sector of uncertain color, as the edges of a sector of visibility cannot be clearly defined.

When a light is obscured by adjoining land and the arc of visibility is given, the bearing on which the light disappears may vary with the distance from which it is observed. When the light is cut off by a sloping point of land or hill, the light may be seen over a wider arc by a ship farther off than by one closer.

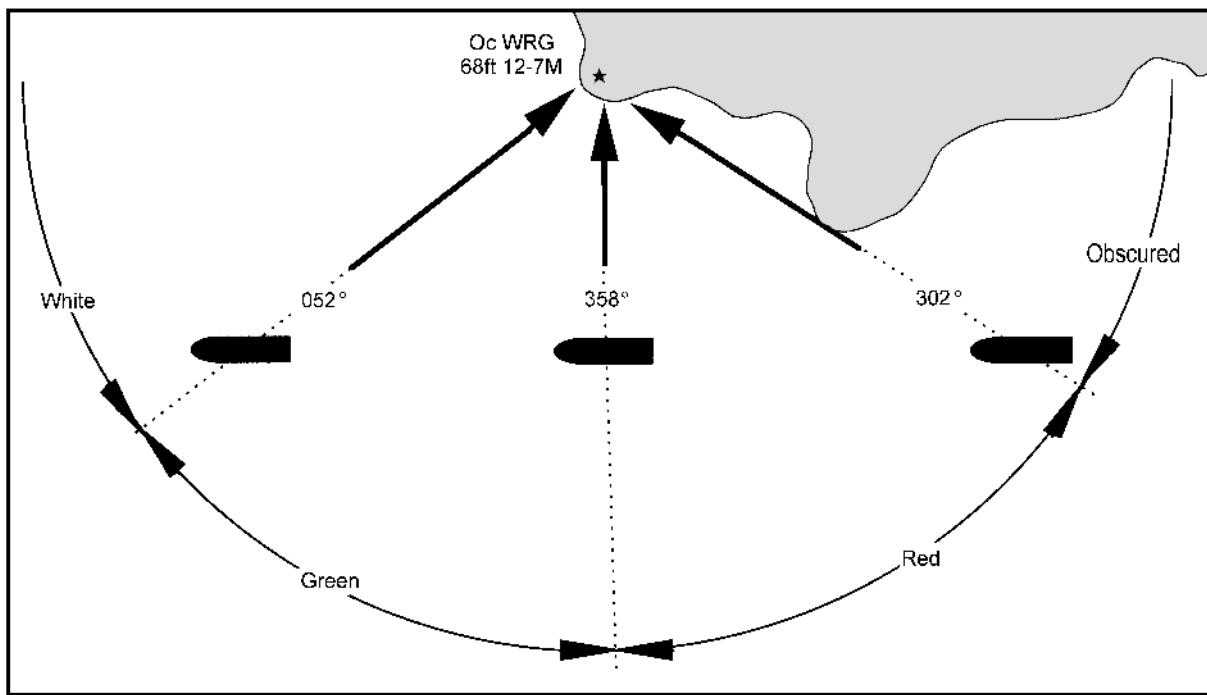
Bearings—all bearings are true, measured clockwise from 000°, and given in degrees or degrees and minutes.

Russian lights are shown throughout the winter when icebreakers are working.

The latest *Russian* charts and publications give only sufficient details for navigation to the ports open to interna-

tional trade. Thus, in this volume, only those lights along the routes to such ports can be assumed to be correct. Else-

where the latest available information, often not recent, is listed.



LIGHTSHIPS, SUPERBOOYS, AND OFFSHORE LIGHT STATIONS

Courses should be set to pass all floating aids to navigation with sufficient clearance to avoid the possibility of collision from any cause. Experience shows that floating aids to navigation cannot be safely used as leading marks to be passed close aboard, but should always be left broad off the course, whenever searoom permits.

When approaching a lightship, superbuoy, or a station on a submarine site on radio bearings, the risk of collision will be avoided by insuring that the radio bearing does not remain constant.

Most lightships and large buoys are anchored with a very long scope of chain and, as a result, the radius of their swinging circle is considerable. The charted position is the location of the anchor. Furthermore, under certain conditions of wind and current, they are subject to sudden and unexpected sheers which are certain to hazard a vessel attempting to pass close aboard.

During extremely heavy weather and due to their exposed locations, lightships may be carried off station. The mariner should, therefore, not implicitly rely on a lightship maintaining its precisely charted position during and immediately following severe storms. A lightship known to be off station will secure her light, fog signal, and radiobeacon and fly the International Code signal "LO" signifying "I am not in my correct position."

Lightships in *India* carry a white riding light on the forestay.

The following regulations have been established for lightships in the Hugli River:

A white light is exhibited from the forestay of each lightship, at a height of 2m, above the rail, for the purpose of showing in which direction the vessel is riding when at her station. Attended lightships out of position will not display their distinguishing mark; at night, the station light will be extinguished, a fixed red light shown at the bow and stern and red and white flares burnt every 15 minutes. If an attended lightship is in danger and requires assistance from shore, explosive rockets will be fired by day and, during fog, a bell will be rung at intervals of about 1 minute only when in danger of collision.

From 15 March to 31 October the pilot vessel on duty at Sandheads will exhibit, every 15 minutes between sunset and sunrise, a searchlight beam at an elevation of 30°. The light will be revolved from east, through south, to west and back again, the total period being 2 minutes.

Indonesian lights are unreliable, being frequently irregular or extinguished.

Lightships in *Iraq*, when out of position, will discontinue their characteristic lights and fog signals. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the signal "LO" or will show a red and a white light, or flare-up light, every 15 minutes. Red flags may be

used instead of the black ball.

A lightship under way shows the same lights, and makes the same sound signals as other vessels under way, and by day hoists two black balls or red flags, one forward and one aft.

Korean lights are unreliable, being frequently irregular or extinguished.

Lights in the *Philippines* are unreliable, being frequently irregular or extinguished.

Lightships in *Thailand*, when out of position, discontinue their characteristic lights. They will show instead two black balls, one forward and one aft, and hoist the signal "LO" at the yardarm, or will show two red lights, one forward and one aft, and a white light simultaneously at least every 15 minutes.

The latest *Russian* charts and publications give only sufficient details for navigation to ports open to international trade. Thus, in this volume, only those lights along the routes to such ports can be assumed to be correct. Elsewhere the latest available information, often not of very recent date, is listed.

Lightships remain on their stations during the period of navigation only; if forced to leave stations on account of ice they are replaced as soon as possible.

By day they show a ball over a yellow flag with a blue St. George's cross and, by night, carry a white riding light. If a vessel is seen to be running into danger the signal "NF" of the International Code of Signals is hoisted, and if not immediately seen, rockets with two explosions and bright stars may be fired every minute; by night rockets only are used.

When not on their proper stations, the light vessels discontinue their characteristic lights and fog signals and, if possible, will lower their daymarks. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the signal "LO" or show a red and a white flare-up light or flash simultaneously, at least every 15 minutes.

Red flags may be displayed in place of the black balls and red and a white light shown simultaneously may be used in place of the flare-up light or flash.

A lightship under way shows the same lights and makes the same sound signals as other vessels under way and, if preceding under its own power, hoists two black balls, one forward and one aft.

Reserve lightships are painted red and equipped with two masts. By day they display a red ball at each mast, and by night exhibit a fixed red light from the same positions. Fog signals are sounded and the warning signals described above are employed.

Fog bells at lighthouses and lightvessels are sounded, unless otherwise stated in the following uniform manner:

- (a) at lighthouses: in groups of double strokes, the interval between the groups being not more than 3 minutes.
- (b) at lightships: in groups of triple strokes, the interval between the groups being not more than 2 minutes.

When the fog signal of an approaching vessel is heard, the intervals between the double and triple strokes in the groups are reduced and the bell is sounded continuously in double or triple strokes until the vessel is past the light or clear of danger.

FOG SIGNALS

The function of a fog signal in the system of aids to navigation is to warn of danger and to provide the mariner with an audible means of approximating his position relative to the fog signal when the station, or any visual signal which it displays, is obscured from view by atmospheric conditions.

Fog signals depend upon the transmission of sound through air. As aids to navigation, they have certain inherent defects that should be considered. Sound travels through the air in a variable and frequently unpredictable manner.

It has been established that:

(a) fog signals are heard at greatly varying distances and that the distance at which a fog signal can be heard may vary with the bearing of the signal and may be different on different occasions;

(b) under certain conditions of atmosphere, when a fog signal has a combination of high and low tones, it is not unusual for one of the tones to be inaudible. In the case of sirens, which produce a varying tone, portions of the blast may not be heard;

(c) there are occasionally areas close to the signal in which it is wholly inaudible. This is particularly true when the fog signal is screened by intervening land or other obstructions;

(d) fog may exist a short distance from a station and not be observable from it, so that the signal may not be in operation;

(e) even though a fog signal may not be heard from the deck or bridge of a ship when the engines are in motion, it may be heard when the ship is stopped, or from a quiet position. Sometimes it may be heard from aloft though not on deck;

(f) the intensity of the sound emitted by a fog signal may be greater at a distance than in immediate proximity.

All these considerations point to the necessity for the utmost caution when navigating near land in fog. Particular attention should be given to placing lookouts in positions in which the noises in the ship are least likely to interfere with hearing a fog signal. Fog signals are valuable as warnings, but the mariner should not place implicit reliance upon them in navigating his vessel. They should be considered solely as warning devices.

Among the devices in common use as fog signals are:

Radio Beacons which broadcast simple dot-and-dash combinations by means of a transmitter emitting modulated continuous waves;

Diaphones which produce sound by means of a slotted reciprocating piston actuated by compressed air. Blasts

may consist of two tones of different pitch, in which case the first part of the blast is high and the last of a low pitch. These alternate pitch signals are called "two-tone;"

Diaphragm horns which produce sound by means of a diaphragm vibrated by compressed air, steam, or electricity. Duplex or triplex horn units of differing pitch produce a chime signal;

Nautophones, electrically operated instruments, each comprising a vibrating diaphragm, fitted with a horn, which emits a high note similar in power and tone to that of the reed;

Reed horns which produce sound by means of a steel reed vibrator by compressed air;

Sirens which produce sound by means of either a disk or a cup-shaped rotor actuated by compressed air or electricity;

Whistles which produce sound by compressed air emitted through a circumferential slot into a cylindrical bell chamber;

Bells which are sounded by means of a hammer actuated by hand, wave motion, by a descending weight, compressed gas, or electricity;

Guns and explosive signals which are produced by firing of explosive charges, the former being discharged from a gun, and the latter being exploded in midair;

Fog Detector Lights—certain light stations, in addition to the main light, are equipped with fog detector lights for automatic detection of fog. These lights sweep back and forth through an area over which the fog watch is necessary, showing a powerful bluish-white flash of about 1 second in duration. The interval between successive flashes will vary with the position of the vessel within the sector. At the limits of the sector the duration of the flash may be considerably longer than 1 second.

Fog detector lights operate continuously.

Standby fog signals are sounded at some of the light and fog signal stations when the main fog signal is inoperative. Some of these standby fog signals are of a different type and characteristic than the main fog signal.

Radio Beacons, RACONs, RAMARKs, and radio direction-finders are mentioned in the List of Lights, but for detailed information, including the synchronization of radio signals and sound signals for distance finding, the navigator should consult Pub. 117, Radio Navigational Aids.

Note—use Chart No. 1 for the complete list of symbols and abbreviations commonly used in presenting the essential characteristics of lights, fog signals, and radio aids found on charts.

VISIBILITY TABLE

Table of distances at which objects can be seen at sea according to their respective elevations and the elevation of the eye of the observer.

Height in Feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles
1	1.2	23	5.6	45	7.8	135	13.6	340	21.6	600	28.7
2	1.7	24	5.7	46	7.9	140	13.8	350	21.9	620	29.1
3	2.0	25	5.9	47	8.0	145	14.1	360	22.2	640	29.5
4	2.3	26	6.0	48	8.1	150	14.3	370	22.5	660	30.1
5	2.6	27	6.1	49	8.2	160	14.8	380	22.8	680	30.5
6	2.9	28	6.2	50	8.3	170	15.3	390	23.1	700	31.0
7	3.1	29	6.3	55	8.7	180	15.7	400	23.4	720	31.4
8	3.3	30	6.4	60	9.1	190	16.1	410	23.7	740	31.8
9	3.5	31	6.5	65	9.4	200	16.5	420	24.0	760	32.3
10	3.7	32	6.6	70	9.8	210	17.0	430	24.3	780	32.7
11	3.9	33	6.7	75	10.1	220	17.4	440	24.5	800	33.1
12	4.1	34	6.8	80	10.5	230	17.7	450	24.8	820	33.5
13	4.2	35	6.9	85	10.8	240	18.1	460	25.1	840	33.9
14	4.4	36	7.0	90	11.1	250	18.5	470	25.4	860	34.3
15	4.5	37	7.1	95	11.4	260	18.9	480	25.6	880	34.7
16	4.7	38	7.2	100	11.7	270	19.2	490	25.9	900	35.1
17	4.8	39	7.3	105	12.0	280	19.6	500	26.2	920	35.5
18	5.0	40	7.4	110	12.3	290	19.9	520	26.7	940	35.9
19	5.1	41	7.5	115	12.5	300	20.3	540	27.2	960	36.3
20	5.2	42	7.6	120	12.8	310	20.6	560	27.7	980	36.6
21	5.4	43	7.7	125	13.1	320	20.9	580	28.2	1000	37.0
22	5.5	44	7.8	130	13.3	330	21.3				

Explanation.—The line of sight connecting the observer and a distant object is at maximum length tangent with the spherical surface of the sea. It is from this point of tangency that the tabular distances are calculated. The table must accordingly be entered twice to obtain the actual geographic visibility of the object—first with the height of the object, and second with the height of the observer's eye—and the two figures so obtained must be added. Thus, if it is desired to find the maximum distance

at which a powerful light may be seen from the bridge of a vessel where the height of eye of the observer is 55 feet above the sea, from the table:

	Nautical Miles
55 feet height of observer (visible)	8.7
200 feet height of light(visible).....	<u>16.5</u>
Distance visible	25.2

CONVERSION TABLE — FEET TO WHOLE METERS

(FOR HEIGHTS OF LIGHTS)

1 foot = 0.3048 meter

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
		40	12	80	24	120	37	160	49	200	61
1	0	41	12	81	25	121	37	161	49	300	91
2	1	42	13	82	25	122	37	162	49	400	122
3	1	43	13	83	25	123	37	163	50	500	152
4	1	44	13	84	26	124	38	164	50	600	183
5	2	45	14	85	26	125	38	165	50	700	213
6	2	46	14	86	26	126	38	166	51	800	244
7	2	47	14	87	27	127	39	167	51	900	274
8	2	48	15	88	27	128	39	168	51	1000	305
9	3	49	15	89	27	129	39	169	52		
10	3	50	15	90	27	130	40	170	52		
11	3	51	16	91	28	131	40	171	52		
12	4	52	16	92	28	132	40	172	52		
13	4	53	16	93	28	133	41	173	53		
14	4	54	16	94	29	134	41	174	53		
15	5	55	17	95	29	135	41	175	53		
16	5	56	17	96	29	136	41	176	54		
17	5	57	17	97	30	137	42	177	54		
18	5	58	18	98	30	138	42	178	54		
19	6	59	18	99	30	139	42	179	55		
20	6	60	18	100	30	140	43	180	55		
21	6	61	19	101	31	141	43	181	55		
22	7	62	19	102	31	142	43	182	55		
23	7	63	19	103	31	143	44	183	56		
24	7	64	20	104	32	144	44	184	56		
25	8	65	20	105	32	145	44	185	56		
26	8	66	20	106	32	146	45	186	57		
27	8	67	20	107	33	147	45	187	57		
28	9	68	21	108	33	148	45	188	57		
29	9	69	21	109	33	149	45	189	58		
30	9	70	21	110	34	150	46	190	58		
31	9	71	22	111	34	151	46	191	58		
32	10	72	22	112	34	152	46	192	59		
33	10	73	22	113	34	153	47	193	59		
34	10	74	23	114	35	154	47	194	59		
35	11	75	23	115	35	155	47	195	59		
36	11	76	23	116	35	156	48	196	60		
37	11	77	23	117	36	157	48	197	60		
38	12	78	24	118	36	158	48	198	60		
39	12	79	24	119	36	159	48	199	61		

RADIOBEACONS

RADIO DIRECTION-FINDER SETS ON SHIPS

Radio direction-finder sets on board ship enable bearings to be taken of transmissions from other ships, aircraft, shore stations, marine radiobeacons, and the coastal stations of the radio communication network. When located in the pilothouse or on the navigating bridge, the direction-finder enables the navigating officer to obtain bearings himself without reference to others and without delay.

Due to the great value of radio bearings, particularly when visibility is poor and when celestial observations cannot be obtained, the radio direction-finder on board ship deserves the same consideration and care as are given to the sextant and compass. It has the following characteristics in common with the two latter navigational instruments: the readings are subject to certain errors; these errors may be reduced by skillful and intelligent operation; the dangers of using erroneous readings may be greatly reduced by the intelligence and good judgment of the mariner. In order to acquire experienced judgment in the operation of the instrument, it is essential that the mariner use it as much as practicable.

Troubles from interference and weak signals are greatly reduced by the use of direction-finders of proper selectivity. The bearings must be corrected for radio deviation as shown by the calibration curve of the set.

Types of Radiobeacons

1. Directional radiobeacons which transmit radio waves in beams along fixed bearings.
2. Rotating radiobeacons by which a beam of radio waves is resolved in azimuth in a manner similar to the beam of light sent out by rotating lights.
3. Circular radiobeacons which send out waves of approximately uniform strength in all directions so that ships may take radio bearings of them by means of the ship's radio direction-finder sets. This is the most common type of radiobeacon.

To extend the usefulness of marine radiobeacons to ships and aircraft employing automatic radio direction finders, U.S. marine radiobeacons on the Atlantic and Pacific Coasts and Great Lakes have been modified to transmit a continuous carrier signal during the entire radiobeacon operating period with keyed modulation providing the characteristic signal. Unless a beat frequency oscillator is installed, the continuous carrier signals are not audible to the operator of an aural null direction finder. A ten second dash has been included in the characteristic of these radiobeacons, to enable the navigator using a conventional aural null direction finder to refine his bearing. Vessels with direction finders will be able to use the

United States radiobeacons located on the Atlantic and Pacific Coasts, and Great Lakes at any time in their assigned sequence.

Aeronautical Radio Aids

Aeronautical radiobeacons and radio ranges are often used by navigators of marine craft in the same manner as marine radiobeacons are used for determining lines of positions. They are particularly useful along coasts where marine broadcast coverage is inadequate. Aeronautical aids situated inland become less trustworthy, so far as ships are concerned, when high land intervenes between them and the coast. They are established to be of primary usefulness to aircraft, and surface craft should use these aids with caution. Only those aeronautical radiobeacons considered to be of use to the mariner have been selected for inclusion in this publication.

AERONAUTICAL RADIOBEACONS. Like marine radiobeacons, these aids broadcast a characteristic signal on a fixed frequency.

NOTE: The assigned frequency of aeronautical radiobeacons is normally from 200 to 415 kHz while the frequency of marine radiobeacons is normally from 285 to 325 kHz. Aeronautical radiobeacons not within the marine radiobeacon band will not normally be listed in this publication.

The range signals are interrupted at intervals to permit broadcast of the identification signal. In aviation publications the range leg bearings are most often given as magnetic bearings toward the station; in this publication they are given as true bearings toward the station. Unless otherwise stated in the station details, aeronautical radio aids mentioned in this publication transmit continuously.

NOTE: Mariners are advised that changes to and deficiencies in aeronautical radio facilities are not always immediately available to maritime interests and the positions are approximate and listed to the nearest minute only.

Obligations of Administrations Operating Radiobeacons

The obligations of nations and other administrations operating radiobeacons are given in Article 43 of the Radio Regulations of the International Telecommunication Union, Geneva.

Accuracy of Bearings Taken Aboard Ship

No exact rules can be given as to the accuracy to be expected in radio bearings taken by a ship as the accuracy depends to a large extent upon the skill of the ship's opera-

tor, the condition of the ship's equipment, and the accuracy of the ship's calibration curve. Mariners are urged to obtain this information by taking frequent radio bearings when their ship's position is accurately known and by recording the results. Normally, United States radiobeacons are operated in a group of six, each station in a group using the same frequency and transmitting for one minute in its proper sequence, and operate during all periods, either sequenced or continuously, regardless of weather conditions.

SKILL OF OPERATOR: Skill in the operation of the radio direction-finder can be obtained only by practice and by observing the technical instructions for the set in question. For these reasons the operator should carefully study the instructions issued with the set and should practice taking bearings frequently.

OPERATOR'S ERROR: As the operator obtains bearings by revolving the direction-finder coil until the signal disappears or becomes a minimum, the operator can tell by the size of the arc of silence or of minimum strength approximately how accurately the bearing has been taken. For instance, if the minimum is broad and the residual signal covers about 10° with equal strength, it is doubtful if the bearing can be accurately estimated. On the other hand, if a sharp minimum can be obtained, the operator can determine the bearing to within a half of a degree.

In this connection it should be noted that a properly operating and correctly adjusted direction-finder should in no case produce other than a point or arc of absolute silence. That is, there should be no "residual" signal at the point or arc of observation. The sharpness and completeness of the arc of silence are the best indications of a properly operating direction-finder, and their absence is the best indication of the presence of "night effect."

SUNRISE, SUNSET, OR NIGHT EFFECT: Bearings obtained from about half an hour before sunset to about half an hour after sunrise may be subject to errors due to night effect. On some nights this effect is more pronounced than on others and effect is usually greatest during the hours of twilight. Night effect may be detected by a broadening of the arc of minimum signals and by a fluctuation in the strength of the signals. It may also be indicated by difficulty in obtaining a minimum or by a rapidly shifting minimum. It is sometimes accompanied by an actual shift in the direction of the bearings. If it is essential to obtain a bearing when the night effect is pronounced, several bearings should be taken over a short period of time and an average taken of them.

RADIO DIRECTION FINDER WITHOUT GYRO REPEATERS: The ship's compass must be read as the bearing is taken or an error may be introduced equal to the amount that the ship has yawed in the interval between taking the bearing and reading the compass. Any error in the ship's compass must be applied to the bearing.

RECIPROCAL BEARINGS: In some direction-finder sets, the operator cannot tell from which side of the ship the signals are coming. With these sets the operator shall correct both bearings for their respective deviations and give both corrected bearings to the person who is plotting the bearings on the chart. If the mariner is in doubt as to the side of the ship from which the bearings are coming, this difficulty can usually be solved by having another bearing taken after the ship has steamed a short distance and noting in which direction the bearing is changing.

CALIBRATION: It is essential that the radio direction-finder be accurately calibrated in order that the bearings may be corrected for deviation. While the bearings are being taken, other radio antennas on board must be in the same condition as they were when the calibration was made; movable parts of the ship's superstructure such as booms, davits, wire rigging, etc., must be secured in the positions which they occupied when the direction-finder was calibrated. Unusual cargoes such as large quantities of metals and extraordinary conditions of loading may cause errors.

The direction-finder should be recalibrated after any changes have been made in the set or its surroundings (this includes alterations to or changes in position of antennas, wire rigging, boat davits, booms, etc.) whenever there is reason to believe that the previous calibration has become inaccurate, and also at periodic intervals.

The calibration must be made on approximately the same frequency or frequencies as will be used to take bearings because the deviation for several frequencies is not likely to be the same. It is believed that one calibration curve is satisfactory for the normal radiobeacon frequency (285 to 325 kHz), but the instructions issued by the manufacturer of the particular direction-finder in question should be studied in this connection.

To facilitate the calibration of ship's direction-finders, special arrangements have been made by some services for operation of their radiobeacons at times other than their published schedules. Information as to the arrangements made by the United States stations in this respect is as follows:

Sequenced radiobeacons cannot broadcast at any time other than on their assigned operating minute for the purpose of enabling vessels to calibrate their radio direction finders without causing interference. Special radio direction finder calibration transmitters of short range are operated at certain localities to provide continuous calibration service.

The position given for the antenna is the point from which the radiobeacon signal is emitted.

If it is not practicable to determine the time of calibration sufficiently in advance to contact the district commander, request may be made directly to the stations by means of telephone, telegraph, or a whistle signal consisting of three long blasts; followed by three short blasts.

This whistle signal is to be repeated until it is acknowledged by the station through the starting of the transmitter. The same group of signals should be sounded at the termination of calibration.

The work of the station personnel is not confined to standing watch and there may be times when the whistle request for calibration is not immediately heard, due to the noise from operating station machinery, etc. Usually, a repeated signal not too far from the station will attract attention.

"COMPENSATED" RADIO DIRECTION-FINDERS: Many radio direction-finders are "compensated" and no calibration chart or curve is used. Attention is invited to the fact that such compensation is just as vulnerable as the calibration data due to changes made in the set or its surroundings.

CHECK THE CALIBRATION: The calibration of compensation should be checked frequently by taking bearings when the ship's position is accurately known and the results should be recorded for future reference.

CALIBRATION RADIOBEACONS: In the United States and certain other areas special radiobeacons, primarily for calibrating shipboard direction-finders are in operation. These radiobeacons transmit either continuously during scheduled hours or upon request, as indicated in station details.

COASTAL REFRACTION (OR LAND EFFECT): Errors may occur in bearings taken by ships so located that the line of observation to the radiobeacon passes over land or along the shore line. However, many observations seem to indicate that such errors are negligible when the observing vessel is well out from the shore. Bearings secured entirely over water areas are to be preferred since "land effect" is thus eliminated. Bearings taken at sunset and sunrise are likely to be erratic, and observations taken at these hours should therefore be repeated and checked as may be feasible.

PROGRAM BROADCASTING STATIONS: Before taking bearings on a station broadcasting entertainment programs a mariner should consider that frequency may differ widely from the frequency for which the set is calibrated, that the published location of the station may be that of its studio and not that of its transmitting antenna, that if the station is synchronized with other stations it may be impossible to tell on which station the bearing was taken, and that as the majority of these stations are inland, the coastal refraction may be excessive.

Station Details

FREQUENCY: The frequency listed is that used by the station in transmitting its "Characteristic Signal." Calling frequencies, if any, will be given under "remarks."

RANGE: In this book the range of radiobeacons is only approximate and is given merely to assist mariners in

planning their voyages and to inform them of several radiobeacons they will probably hear first. Frequently, when conditions for radio reception are good, radiobeacons may be heard at greater distances than indicated. The mariner who is at a greater distance than the range indicated should attempt to obtain bearings when necessary, and not assume that the radiobeacon will be unheard beyond its indicated range.

GROUP SEQUENCE: Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary returning.

ANTENNA LEAD-IN: Included in the details of many radiobeacons located at or near light stations is a statement of the distance and bearing of the radiobeacon transmitting antenna from the light tower. Use should be made of this information when calibrating the ship's direction-finding equipment by means of simultaneous visual and radio bearings.

Plotting Radio Bearings

The procedure for converting radio (great circle) bearings as received by direction-finder equipment aboard ship is identical with that used in converting radio bearings supplied by direction-finder stations on shore and is described in section 100E "Plotting Radio Bearings" of Pub. 117, Radio Navigational Aids.

Synchronization for Distance Finding

At some radiobeacon stations, sound signals, either submarine or air or both, are synchronized with the radiobeacon signals for distance finding. Ordinarily, the sound signals do not operate during the transmission period of the radio signal in clear weather. The methods in use employ, as a rule, distinctive signals to indicate the point of synchronization, and make use, for determining distance, of the lag of signals traveling through air or water as compared to the practically instantaneous travel of the radio signals.

In the case of some sound signals, a series of short radio dashes is transmitted at intervals following the synchronizing point, so that by counting the number of such short dashes heard after the distinctive radio signal and before hearing the corresponding distinctive sound signal, the observer obtains the distance, in miles equal to the number of dashes counted, from the sound signal apparatus unless stated otherwise.

In the case of other signals, the observer notes the number of seconds intervening between the reception of the distinctive radio signal and the corresponding sound signal and uses a factor to determine distances in miles as follows:

Submarine signals—multiply the observed numbers of seconds by 0.8 or divide by 1.25 distance in nautical miles.

Air signals—multiply the observed number of seconds by 0.18 or divide by 5.5. For more approximate results or for statute miles, multiply the observed number of seconds by 0.2 or divide by 5.

Tables for finding distance

Interval in seconds	Distances in nautical miles from sound signal source	
	Air	Submarine
1	0.18	0.8
2	0.36	1.6
3	0.54	2.4
4	0.72	3.2
5	0.90	4.0
6	1.08	4.8
7	1.26	5.6
8	1.44	6.4
9	1.62	7.2
10	1.80	8.0
20	3.60	16.0
30	5.40	24.0
40	7.20	
50	9.00	
60	10.80	

REMARKS: Average speed of sound travel in water is 1 nautical mile in 11/4 seconds.

The speed of sound travel is influenced by a number of conditions making it impracticable to state a factor that will give exact results under all conditions. The results obtained by the methods described may be accepted as being accurate to within 10 percent of the distance.

Methods of synchronizing the signals vary and are described or illustrated in official announcements regarding them. It is essential to note carefully the point of synchronization used so that no error will be made through taking time on the wrong signal or the wrong part of it.

In observing air signals it is usually sufficient to use a watch with second hand, although a stop watch is helpful. For submarine signals where the interval is shorter and a time error correspondingly more important, it is essential that a stop watch or other timing device be used. Where the radiobeacon and submarine signals are not received at the same point on the vessel, means of instant communication between two observers should be available or synchronized stop watches provided for each.

Ships not equipped with a DF receiver can take advantage of the distance-finding feature of a radiobeacon station, if equipped with a radio receiver capable of receiving

the transmission. In the case of obtaining distance from a radiobeacon station which is synchronized with a submarine sound signal, the ship must also be equipped with a device for picking up submarine sound signals.

Rotating Loop Radiobeacon

MODE OF OPERATION:

(1) The radiobeacon consists of a rotating loop transmitter having directional properties by which an observer in a ship can obtain his bearing from the beacon without the use of a direction-finder. Any ordinary receiving set capable of being tuned to the radiobeacon's frequency may be used. The only other equipment required is a reliable stop watch or chronograph with a sweep second hand. Stop watches and clocks with dials graduated in degrees may be used, from which bearings may be read directly without any mathematical calculation.

(2) During each revolution of the beacon, the signals received by the observer will rise and fall in intensity, passing through a maximum and a minimum twice each minute. The positions of minimum intensity, which occur at intervals of thirty seconds from one another, are very sharp and can be accurately observed. These are, therefore, used for navigation purposes.

The beacon may be regarded as having a line or beam of minimum intensity which rotates at a uniform speed of 360° in 1 minute (i.e. 6° in 1 second) based on the true meridian as starting point. Therefore, if the observer can (a) identify the beacon and (b) measure the number of seconds which this minimum beam takes to reach their position starting from the true meridian, this number multiplied by six will give their true bearing from the beacon or its reciprocal.

The signals which enable the beacon to be identified and the bearing to be calculated are described in the following paragraphs:

Signals transmitted by the beacon: Each transmission from the beacon lasts for 4 minutes; the beacon is then silent for 8 minutes, and automatically starts again at the end of the silent period. Each transmission consists of two parts: (a) the identification signal of the station set at a slow speed for the first minute, commencing when the minimum beam is true east and west and followed by a long dash of about 12 seconds duration; (b) the signal group commencing when the minimum beam is approaching the true meridian, and consisting of (i) the north starting signal, which is the letter V followed by two dots (•• – ••); (ii) a long dash of about 12 seconds duration; (iii) the east starting signal, which is the letter B followed by two dots (– •• ••); and (iv) a long dash for about 42 seconds.

The navigation signals are repeated during the remainder of the transmission and signals cease when the minimum beam is in the east and west position.

INSTRUCTIONS FOR TAKING BEARINGS

- (i) Set stop watch to zero.
 - (ii) Listen for identification signal.
 - (iii) When the first long dash begins (at A on diagram) get ready for the "north signal."
 - (iv) After the "north signal," start stop watch exactly at beginning of long dash (see "00 seconds" on diagram) counting one-two with the two preceding dots, and 3 for the start of the stop watch.
 - (v) Listen for minimum and note its exact time by stop watch.
- NOTE: If stop watch is graduated in degrees note exact angle, which is the bearing.
- (vi) Multiply number of seconds by 6° for bearing.
 - (vii) Determine whether bearing is direct or reciprocal.
 - (viii) If the "north signal" is faint, use the "east signal," but add 090° to final bearing.

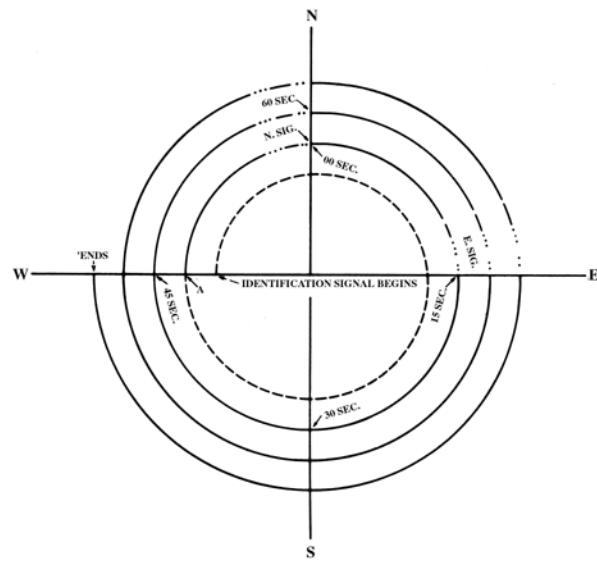
Particular attention is directed to the following:

- (a) The stop watch must be started exactly at the beginning of the long dash for each series of observations.
 - (b) The time of occurrence of the minimum must be read to the nearest fifth of a second.
 - (c) The bearing obtained will be either the direct bearing or its reciprocal.
 - (d) When using the east signal, add 090° to obtain bearings from true north.
 - (e) The beacon is set up on the true meridian, and no correction is required for magnetic variation.
 - (f) No quadrantal error arises, and no corrections are necessary except as in (c) and (d) above.
- (A correction must, of course, be made for convergency; this should be applied as if the beacon were a shore radio direction-finder station.)
- (g) A comparatively large error of bearing may occur due to inaccuracy in the stop watch, and to obviate this,

observers or navigators should check their stop watches on the beacon station before taking bearings. This can easily be done by checking the time by stop watch of the complete revolution of the beacon transmission. Any error found can then be allowed for.

Caution

Due to the many factors which enter into the transmission and reception of radio signals, a mariner cannot practically estimate its distance from a radiobeacon either by the strength of the signals received or by the time at which the signals were first heard. Mariners should give this fact careful consideration in approaching radiobeacons. A diagram showing the signals used is given below.



ROTATING RADIODEACON
SIGNAL DIAGRAM

DESCRIPTION

(Radiobeacons)

Information is tabulated in eight columns as follows:

column 1: The number assigned to each radiobeacon by this Agency.

column 2: Name and/or descriptive location of the radiobeacon.

column 3: Approximate latitude and longitude of the radiobeacon to the nearest tenth of a minute.

column 4: Radiobeacon characteristics. Included in this column are the Morse code, period in seconds, length of transmission and silence time.

column 5: Range (approximate) in nautical miles.

column 6: Group sequence. Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary return.

column 7: Frequency (given in kilohertz) and amplitude modulation (see Table Symbols).

column 8: Remarks. Transmission synchronization, type of radiobeacon (marine, aero, etc.), calibration, antenna lead-in, calling frequencies, distance-finding information, service charges, hours of transmission, directional signals and other pertinent information.

ABBREVIATIONS

aero	aeronautical
tr	transmission
si	silence
s.....	seconds
(4)	4 times
Transmission is continuous unless otherwise stated.	

TABLE OF SYMBOLS

LEGEND

- (1) Type of modulation of the main carrier.
- (2) Nature of signal(s) modulating the main carrier.
- (3) Type of “information” to be transmitted. “Information” does not include information of a constant, unvarying nature such as provided by standard frequency emissions, continuous wave and pulse radars, etc.

AMPLITUDE MODULATION:

N0N

- (1) Emission of an unmodulated carrier.
- (2) No modulating signal.
- (3) No information transmitted.

A1A

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

A2A

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

A3E

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

R3E

- (1) Single-sideband (reduced or variable level carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

B8E

- (1) Independent sidebands.
- (2) Two or more channels containing analog information.
- (3) Telephony (including sound broadcasting).

H2A

- (1) Single-sideband (full carrier).
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

H3E

- (1) Single-sideband (full carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

J3E

- (1) Single-sideband (suppressed carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

A3C

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Facsimile.

A3F

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Television (video).

B7D

- (1) Independent sidebands.
- (2) Two or more channels containing quantized or digital information.
- (3) Data transmissions, telemetry, telecommand.

Note: With 6 kHz. EDW operation in the bands below 30 MHz allocated exclusively for Maritime Mobile Service (FC, MO).

FREQUENCY (OR PHASE) MODULATION:**F1B**

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

F2A

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

F3E

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

F3C

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Facsimile.

F3F

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Television (video).

P1B

- (1) Sequence of unmodulated pulses.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

Pulse Modulation:

GHz = gigahertz

kHz = kilohertz

MHz = megahertz

DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

Differential Global Positioning System (DGPS) is a radio-based navigation system that eliminates errors in a GPS receiver that will allow the accuracy level to be significantly enhanced. DGPS accuracy can be 10 meters or better, compared with 100 meters or better with GPS. This is possible by placing a high-performance GPS receiver (reference station) at a known location. Because the receiver knows its exact location, it can determine the errors in the satellite signals. The satellite measures the ranges to each satellite using the signals received and comparing these measured ranges to the actual ranges calculated from its known position. The total error is the difference between the measured and calculated range. The error data for each tracked satellite is formatted into a correction message and transmitted to GPS users. The correction message format follows the standard established by the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM-SC104). These differential corrections are then applied to the GPS calculations, thus removing most of the satellite signal error and improving accuracy.

Terms for understanding DGPS:

DGPS Correction Receiver

A DGPS correction receiver decodes the signals received from a reference site. Data is formatted into a serial RTCM SC104 data stream and provided to the remote GPS receiver. There are many types of DGPS correction receivers.

GPS Receivers

The GPS receiver measures ranges to each satellite, but before the measurements are used to calculate position, corrections received from the DGPS receiver are applied to the measurements. The position is then calculated using the corrected range measurements providing vastly increased accuracy.

Modulator

Depending on the transmission format, the modulator encodes the data as necessary for transmission.

Reference Station

The reference station GPS receiver knows exactly the position of its antenna, therefore it knows what each satellite range measurement should be. It measures the ranges to each satellite using the received signals just as if it was going to calculate position. The measured ranges are subtracted from the known ranges and the result is range error. The range error values for each satellite are formatted into messages in the RTCM SC104 format and transmitted continuously.

Transmitter

The transmitter is basically a power amplifier which is connected to an antenna system. The modulated carrier is amplified and driven to the antenna. In the United States Coast Guard system, the transmitter is 250-1000 Watts and operates in the 300Khz frequency range. The amplified signal is radiated via the antenna to remote DGPS receivers for real-time position correction.

DESCRIPTION

(Differential GPS Stations)

Information is tabulated in eight columns as follows:

column 1: The number assigned to each DGPS Station by this Agency.

column 2: Name of the DGPS Station

column 3: Approximate latitude and longitude of the DGPS Transmitting Station to the nearest tenth of a minute.

column 4: Station ID which can be found in the IALA Master list. No two stations have the same ID. **T** denotes the Transmitting Station, **R** denotes the Reference Station.

column 5: Range (approximate) in nautical miles.

column 6: Frequency in kHz.

column 7: Transfer Rate which equates to the baud rate and will be published as a whole number without any additional abbreviations such as "bps" (bits per second)

column 8: Remarks. This column contains information about the reference stations and messages types transmitted. GPS Message Type Numbers are 1, 3, 4, 5, 6, 7, 9, 15 and 16. (*Refer to message type descriptions below*)

GPS MESSAGE TYPE NUMBER INDICATORS

- | | |
|----|--|
| 1 | Differential GNSS corrections (full set of satellites) |
| 3 | Reference stations parameters |
| 4 | Datum used |
| 5 | Constellation health |
| 6 | Null frame (no information) |
| 7 | Radio Beacons Almanacs |
| 9 | Sub-set differential GNSS corrections |
| 15 | Ionospheric corrections |
| 16 | Special messages |

Section 1

Sakhalin, Hokkaido and Kuril Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
2 F 7806	Mys Anastasiia.	46° 01.7' N 142° 10.5' E	L.FI.W. period 6s	161 49	8	White wooden pyramidal tower; 36.	
4 F 7804	Ostrov Kamen 'Opasnosti (Nijo Gan).	45° 47.0' N 142° 14.0' E	FI.W. period 7.5s	62 19	13	White round concrete tower; 59.	Radiobeacon.
8 F 7802	Mys Kril'on (Nishi Notoro Misaki).	45° 53.8' N 142° 04.7' E	AI.W.R. period 10s	156 48	19	Red octagonal stone tower; 48.	Visible 208°-134°. Reserve light Iso.W. 10s 18M. Horn: Mo.(A) ev. 20s. Signal station. Radiobeacon.
12 F 7800	Mys Kuznetsova.	46° 02.7' N 141° 55.0' E	FI.W. period 8s	259 79	18	Square concrete tower, black and white bands; 26.	Visible 330°-172°. Reserve light range 9M.
16 F 7794	Ostrov Moneron.	46° 14.6' N 141° 15.8' E	FI.(2)W. period 15s	374 114	26	Octagonal tower, black and white bands; 34.	Visible 161°-049°. Reserve light Iso.W. 3s 20M. Radiobeacon.
20 F 7796	Pereput'e.	46° 17.4' N 141° 53.5' E	FI.W. period 5s	125 38	15	Round metal tower with platform, upper part white, lower part black; 16.	Radar reflector.
36 F 7788	Mys Lopatino (Kenushi Misaki).	46° 36.0' N 141° 49.0' E	FI.(2)W. period 10s	220 67	21	White octagonal concrete tower, black bands; 56.	Visible 002°-210°. Reserve light range 10M.
NEVEL'SK:							
40 F 7776	-Breakwater, extremity.	46° 39.9' N 141° 51.0' E	FI.R. period 3s	43 13	3	White pyramidal tower; 33.	
44 F 7778	-Outer Range, front.	46° 40.0' N 141° 52.0' E	F.G.	135 41	1	White mast, white triangular daymark, black stripe; 33.	Visible on range line only.
48 F 7778.1	--Rear, about 38 meters 079°12' from front.	46° 40.0' N 141° 51.9' E	F.G.	148 45	1	White mast, white triangular daymark, black stripe; 26.	Visible on range line only.
PORT KHOLMSK:							
56 F 7746	-Kholsk.	47° 01.8' N 142° 02.3' E	FI.(3)W. period 14.1s fl. 0.5s, ec. 1.8s fl. 0.5s, ec. 1.8s fl. 0.5s, ec. 9s	220 67	20	White round concrete tower, red bands; 93.	Visible 355°-186°. Reserve light Iso.W. 8s 12M. Radiobeacon.
60 F 7752	-Entrance Range, front.	47° 03.0' N 142° 03.0' E	F.R.	207 63	12	Octagonal lantern on building; 16.	Visible on range line only. Reserve light F.R. 7M.
64 F 7752.1	--Rear, 185 meters 137°48' from front	47° 02.6' N 142° 02.4' E	F.R.	295 90	12	White octagonal stone tower, black stripe; 33.	Visible on range line only. Reserve light F.R. 7M.
68 F 7753	-Kholsk Range, front.	47° 03.5' N 142° 03.5' E	Iso.G. period 4s	98 30	3	White trapezoidal wooden structure, black median stripe; 15.	Visible on range line only.
72 F 7753.1	--Rear, 154 meters 108°06' from front.	47° 03.5' N 142° 03.6' E	F.G.	130 40	3	Metal framework tower, white trapezoidal daymark, black stripe; 26.	Visible on range line only.
76 F 7748	-N. breakwater, head.	47° 03.7' N 142° 03.0' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	49 15	2	Red round concrete structure; 39.	
80 F 7750	-S. breakwater, head.	47° 03.0' N 142° 02.8' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	39 12	1	Green metal framework tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
84 F 7754	-Port Ukhadnyye, N. breakwater, head.	47° 03.6' N 142° 02.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	1	Green round metal column; 26.	
92 F 7754.3	--Detached breakwater, S. head.	47° 03.7' N 142° 02.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	2	Red round metal column; 26.	
96 F 7754.5	--Basin Entrance, E. side.	47° 03.5' N 142° 03.1' E	Oc.W.R. period 6s	23 7	W. R.	5 2	Red round metal column; 26. W. 279°-219°, R.-279°.
100 F 7738	Mys Slepikovskogo (Konotoro Misaki).	47° 18.2' N 141° 58.2' E	Fl.W. period 12s fl. 1.5s, ec. 10.5s	98 30	16	Red round concrete tower; 92.	Visible 343°-177°. F.W. fishing light shown at Sadovniki. Reserve light L.Fl.W. 12s 10M.
104 F 7716	Mys Lamanon.	48° 46.7' N 141° 51.2' E	Fl.W. period 20s fl. 1s, ec. 19s	233 71	22	White round concrete tower, black bands; 85.	Visible 353°-215°. Reserve light Fl.W. 10s 10M. Radiobeacon.
UGLEGORSK (ESUTORU):							
108 F 7713	-Range, front.	49° 04.2' N 142° 01.9' E	Iso.R. period 6s	157 48	16	White octagonal stone tower, black stripe; 37.	Reserve light range 6M.
112 F 7713.1	--Rear, 256 meters 159°06' from front.	49° 04.0' N 142° 02.2' E	F.R.	223 68	16	White octagonal stone structure, black median stripe; 56.	Reserve light range 6M.
116 F 7715.2	-South Harbor, S. mole.	49° 03.5' N 142° 01.9' E	Fl.G. period 3s	29 9	1	Green rectangular metal tower; 20.	
120 F 7715	--N. mole.	49° 03.5' N 142° 01.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	32 10	2	Red concrete cylindrical structure; 23.	
124 F 7714	-W. breakwater, head.	49° 03.5' N 142° 01.9' E	Fl.R. period 3s	33 10	2	Red metal column; 26.	
128 F 7714.2	-E. mole, head.	49° 04.6' N 142° 01.8' E	Fl.G. period 3s	33 10	1	Green framework square pyramid; 26.	
132 F 7711.5	-Uglegorsk.	49° 05.0' N 142° 02.7' E	Iso.W. period 6s	161 49	18	White stone building, white octagonal tower; 46.	Radiobeacon.
136 F 7712	-Jetty, head.	49° 05.9' N 142° 02.1' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	16 5	1	Green square framework tower; 3.	
140 F 7711	Mys Gavrilova.	49° 09.1' N 142° 02.4' E	Oc.R. period 6s	236 72	11	White octagonal stone tower, red band; 33.	Visible 052°-206°. Reserve light range 4M.
148 F 7709.4	Shakhtersk Range, front.	49° 10.0' N 142° 04.0' E	Iso.R. period 3s	49 15	12	White octagonal concrete tower, black stripes, 33.	Reserve light Iso.R. 3s 6M.
152 F 7709.5	-Rear, about 260 meters 119°54' from front.	49° 09.6' N 142° 03.9' E	Iso.R. period 3s	85 26	12	Quadrangular metal framework tower, white rectangular daymark, black stripe; 53.	Reserve light Fl.R. 6M.
156 F 7709	-S. mole, head.	49° 09.7' N 142° 03.4' E	Fl.G. period 3s	33 10	1	Green concrete framework tower; 26.	Extinguished Jan. 11 to Mar. 20.
160 F 7708	Mys Nizmenny.	49° 11.5' N 142° 03.9' E	Iso.W. period 3s	72 22	11	White octagonal masonry tower; 26.	Visible 000°-213°. Reserve light Iso.W. 3s 7M.
161 F 7707	Boshnyakovo.	49° 38.3' N 142° 09.1' E	L.Fl.R. period 6s		16		
162 F 7706	Mys Korsakova.	50° 01.5' N 142° 08.2' E	Fl.W. period 6s		16		
162.3 F 7810	Kirillovo.	46° 26.6' N 142° 20.5' E	L.Fl.W. period 5s		9		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
PORT KORSAKOV:							
162.4 F 7828	-Approach.	46° 39.3' N 142° 44.9' E	L.FI.W. period 6s	9			
162.5 F 7831	-Inner Road, S. breakwater, head.	46° 37.2' N 142° 45.9' E	Iso.G. period 6s	7			Inner breakwaters marked by Fl.G., Fl.R. and Fl.Y. lights.
162.7 F 7832	-On hill above harbor.	46° 37.7' N 142° 46.1' E	F.G.	5			N. and S. basins marked by range lights.
164 F 7830	Mys Tomari-Aniva.	46° 36.7' N 142° 47.7' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.2s fl. 0.3s, ec. 7.3s	367 112	25	Black octagonal concrete tower, white band; 49.	Reserve light Fl.W. 6s 12M. Radiobeacon.
165 F 7840	Novikovo.	46° 21.2' N 143° 21.9' E	L.FI.W. period 5s	17			N. and S. breakwater heads marked by Fl.R. and Fl.G. lights.
166 F 7841.5	Mramornyy.	46° 17.8' N 143° 23.2' E	Fl.R. period 5s	4			
168 F 7842	Mys Aniva.	46° 01.0' N 143° 25.0' E	Fl.(2)W. period 24s fl. 1s, ec. 5s fl. 1s, ec. 17s	131 40	17	Black round concrete structure, white bands; 102.	Visible 206°-166°. Shown Apr. 15 to Jan. 15. Reserve light Fl.W. 3s 9M. Radiobeacon.
RACON							
			AW(•-•-•) period 30s		20		Azimuth coverage 030°-340°.
170 F 7846	Mys Levonorna.	46° 22.3' N 143° 36.9' E	Fl.W. period 6s	197 60	9	White tower; 10.	Visible 180°-203°. Radar reflector.
172 F 7848	Mys Svobodnyy.	46° 50.8' N 143° 26.3' E	Fl.W. period 10s	141 43	18	Round concrete tower, black and white bands; 74.	Visible 043°-293°. Seasonal. Radiobeacon 9 miles W.
172.5 F 7847	Zaliv Mordvinova.	46° 49.4' N 143° 13.1' E	Iso.W. period 6s	12			Radiobeacon.
174 F 7870	Mys Goryanskiy.	48° 57.1' N 142° 58.9' E	Fl.W. period 3s fl. 1s, ec. 2s	397 121	22	White concrete tower; 56.	Visible 188°-341°.
180 F 7875	Poronaysk.	49° 13.0' N 143° 08.0' E	Fl.(2)W. period 15s	108 33	16	Concrete octagonal tower, black and white horizontal bands; 105.	Reserve light Fl.W. 3s 12M. Radiobeacon.
184 F 7876	Poronaysk (Shikuka) Anchorage Range, front.	49° 13.6' N 143° 07.1' E	F.R. (neon)	41 12	11	Metal framework tower, triangular topmark; 41.	Reserve light F.R. 2M.
188 F 7876.1	-Rear, about 201 meters 307°42' from front.	49° 13.7' N 143° 06.9' E	F.R. (neon)	69 21	12	Metal framework tower, triangular topmark; 69.	Reserve light F.R. 2M.
192 F 7885	Mys Bellingsgauzena.	49° 30.0' N 144° 14.2' E	Fl.W. period 6s fl. 1s, ec. 5s	138 42	15	Metal tower, white rectangular daymark; 41.	
193 F 7885.1	Mys Nizkig.	50° 00.9' N 143° 59.8' E	Fl.W. period 8s	14			
194 F 7890	Mys Ratmanova.	50° 40.5' N 143° 41.6' E	Fl.W. period 3s	9			
195 F 7902.5	Pil'tun.	52° 51.0' N 143° 18.5' E	Oc.W. period 7.5s	17			Radiobeacon.
196 F 7884	Mys Terpeniya (KitaShiretoko Misaki).	48° 38.7' N 144° 44.4' E	L.FI.W. period 7.5s fl. 3s, ec. 4.5s	233 71	22	White concrete tower, black bands on white base; 135.	Reserve light L.FI.W. 7.5s 12M. Radiobeacon.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-NORTH COAST							
200 F 6895.4	Hamaonisibetsu.	45° 20.8' N 142° 09.1' E	Fl.W. period 5s	85 26	15	Quadrangular concrete structure, red and white bands.	Visible 124°-324°. A F. W. obstruction light illuminates Todo Shima 1800 meters NE.
202 F 6895.2	Tonbetu Ko, breakwater.	45° 08.1' N 142° 23.7' E	Fl.R. period 3s	46 14	9	Red concrete tower; 36.	
204 F 6895	Kamui Misaki.	45° 03.5' N 142° 30.1' E	Fl.W. period 15s	161 49	19	White round concrete structure, black bands; 59.	Visible 135°-320°.
208 F 6894.6	-SE.	45° 02.3' N 142° 30.9' E	Iso.R. period 4s	46 14	7	Red tower; 37.	
212 F 6894.5	Toimaki Ko.	44° 59.6' N 142° 32.6' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
216 F 6894.4	Esasi, detached breakwater.	44° 55.7' N 142° 36.1' E	Fl.(2)R. period 6s	43 13	9	Red round concrete structure; 32.	
224 F 6893.7	Yamausu Ko, E. breakwater.	44° 49.9' N 142° 40.8' E	F.Fl.G. period 6s	39 12	F. 5 Fl 11	White round concrete tower; 31.	
226 F 6893.65	Otutyube Ko.	44° 46.9' N 142° 43.3' E	Oc.R. period 4s	36 11	11	Red round concrete tower; 28.	
228 F 6893.6	Otoineppu Misaki.	44° 37.4' N 142° 55.8' E	Iso.W. period 4s	95 29	15	Round concrete structure, red and white bands; 49.	
232 F 6893.5	Motoineppu Ko, N. breakwater, head.	44° 36.4' N 142° 57.0' E	Fl.R. period 3s	49 15	11	Red tower; 36.	
OMU KO:							
236 F 6892	-N. breakwater, head.	44° 35.1' N 142° 57.9' E	Fl.(2)R. period 6s	39 12	9	Red round concrete tower; 36.	
240 F 6893	-S. breakwater.	44° 35.1' N 142° 57.9' E	Oc.G. period 4s lt. 3s, ec. 1s	29 9	10	White round concrete tower; 39.	
244 F 6890	Sawaki Ko, E. detached breakwater.	44° 31.4' N 143° 03.8' E	Iso.G. period 4s	39 12	11	White round concrete tower; 32.	
248 F 6889	Saru Ko, E. breakwater.	44° 25.6' N 143° 14.0' E	F.FI.R. period 3s	43 13	F. 6 Fl 12	Red round concrete structure; 36.	
252 F 6885	Monbetsu.	44° 21.4' N 143° 20.9' E	Fl.W. period 10s	263 80	23	White tower, red bands; 44.	Visible 099°-318°.
256 F 6886	-N. breakwater, head.	44° 21.0' N 143° 22.1' E	Oc.R. period 6s lt. 5s, ec. 1s	62 19	13	Red tower; 52.	
260 F 6886.4	-Detached breakwater, N. head.	44° 21.0' N 143° 22.0' E	Fl.G. period 3s	39 12	8	White tower; 37.	
262 F 6886.2	-Breakwater.	44° 20.6' N 143° 23.2' E	Fl.R. period 3s	43 13	6	Red tower; 33.	
264 F 6887	-Inner harbor breakwater.	44° 21.1' N 143° 21.6' E	F.Fl.G. period 5s	33 10	F. 6 Fl 11	White tower; 28.	
268 F 6884.4	Saroma Ko, mouth.	44° 10.8' N 143° 47.0' E	F.FI.R. period 5s	46 14	F. 8 Fl 12	White tower, red band; 43.	
270 F 6884.6	-Toetoko Ko.	44° 11.0' N 143° 44.7' E	Fl.G. period 3s	22 7	5	White round concrete tower; 18.	
271	Hamasaroma Ko.	44° 05.6' N 143° 55.7' E	Fl.R. period 3s	20 6	6	Red tower; 18.	
272 F 6884	Tokoro Ko, N. breakwater.	44° 07.6' N 144° 06.3' E	Fl.R. period 3s	49 15	6	Red tower; 31.	
276 F 6883	-E. breakwater.	44° 07.6' N 144° 06.3' E	Iso.G. period 6s	33 10	11	White tower; 25.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-NORTH COAST							
280 F 6882	Notoro Misaki.	44° 06.7' N 144° 14.6' E	Fl.W. period 8s	188 57	20	Octagonal concrete tower, black and white bands; 69.	Visible 097°-335°. Seasonal.
288 F 6877	-N. breakwater.	44° 01.5' N 144° 17.7' E	Fl.(2)R. period 6s	49 15	10	Red tower; 43.	
292 F 6878	-E. breakwater.	44° 01.4' N 144° 17.3' E	Iso.G. period 4s	46 14	12	White round concrete tower; 42.	
293 F 6878.5	-Outer breakwater.	44° 00.9' N 144° 18.2' E	Fl.R. period 3s	52 16	11	Red tower; 43.	
294 F 6876	Masuura Ko.	43° 59.5' N 144° 18.1' E	Iso.R. period 4s	46 14	12	Red concrete tower; 36.	
296 F 6866	Utoro.	44° 05.9' N 145° 00.9' E	Fl.G. period 15s	466 142	29	Round concrete structure, black and white bands; 66.	
300 F 6872	-E. breakwater.	44° 04.5' N 144° 59.6' E	Fl.G. period 3s	39 12	11	White round concrete tower; 36.	Seasonal.
304 F 6870	-N. breakwater.	44° 04.6' N 144° 59.6' E	F.FI.R. period 6s	49 15	F. 6 Fl. 12	Red round concrete tower; 32.	
308 F 6862	Siretoko Misaki.	44° 20.4' N 145° 20.2' E	Fl.(2)W. period 20s 2 fl. 7s, ec. 13s	335 102	25	Concrete tower, black and white bands; 39.	Visible 106°-344°.
KURIL ISLANDS							
OSTROV SHUMSHU:							
316 F 8041	-Mys Kurbatova.	50° 51.9' N 156° 28.6' E	L.FI.R. period 7.5s fl. 3s, ec. 4.5s	200 61	16	Red hexagonal concrete tower; 49.	Visible 079°-344°. Reserve light range 4M. Radiobeacon.
320 F 8042	-Mys Chibuynyy.	50° 46.0' N 156° 12.0' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	344 105	22	White octagonal concrete tower, red bands; 33.	Reserve light range 8M. Radiobeacon.
322	--Oppony Range, front.	50° 40.7' N 156° 08.7' E	F.R.	141 43	10		
322.1	--Rear, 240 meters 194°36' from front.	50° 40.6' N 156° 08.7' E	F.R.	256 78	10		
323 F 8045	Mys Kokina.	50° 11.6' N 155° 44.6' E	Fl.W. period 4s	269 82	9		
OSTROV PARAMUSHIR:							
324 F 8046	-Mys Vasil'yeva (Kurabu Zaki).	50° 00.2' N 155° 23.4' E	Fl.(2)W. period 15s fl. 1.5s, ec. 4.5s fl. 3s, ec. 6s	125 38	17	White round concrete tower; 79.	Reserve light Fl.W. 6s 10M. Radiobeacon.
326 F 8047	-Mys Kapustnyy.	50° 03.1' N 155° 13.6' E	Fl.R. period 4s		5		
340 F 8048	Ostrov Toporkov.	48° 04.3' N 153° 17.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	174 53	9	Red metal pyramid tower; 13.	Radiobeacon.
344 F 8049	Ostrov Simushir (Shimshir To).	46° 51.5' N 151° 49.0' E	Fl.W. period 3s fl. 1s, ec. 2s	246 75	8	Wooden pyramid; 10.	
345 F 8049.3	-Mys Otvesnyy.	47° 09.1' N 152° 17.4' E	Fl.W. period 5s		5		
346 F 8049.5	-Mys Sukhina.	46° 49.5' N 151° 52.2' E	Fl.W. period 12s		15		Visible 235°-032°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KURIL ISLANDS							
348 F 8050	Ostrov Urup.	46° 13.9' N 150° 34.0' E	Oc.W. period 7.5s lt. 4.5s, ec. 3s	167 51	19	Red round tower; 75.	Radio beacon.
349 F 8050.5	-Mys Chyeryepakha.	46° 13.5' N 150° 20.1' E	Fl.W. period 5s		9		
352 F 8051	Mys Van-der-Linda.	45° 34.6' N 149° 24.3' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	367 112	22	Black octagonal concrete tower, white band; 46.	Visible 272°-211°. Reserve light range 9M. Radio beacon.
	RACON		D(- • •)		21		
OSTROV URUP:							
354 F 8051.5	-Mys Breskens.	45° 26.0' N 147° 55.4' E	Fl.W. period 3s		9		Radio beacon.
356 F 8053	-Mys Burevestnik.	44° 55.0' N 147° 39.0' E	Fl.W. period 4s fl. 1s, ec. 3s		8		
360 F 8052	-Kasatka (To Simoye).	45° 00.0' N 147° 44.0' E	Fl.W. period 6s	148 45	8	Red round metal column; 16.	Radar reflector.
OSTROV KUNASHIR:							
364 F 8058	-Mys Lovtsova (Atoiya Misaki).	44° 27.1' N 146° 34.5' E	Iso.W. period 6s	233 71	21	Red round tower, white bands; 105.	Visible 105°-013°. Reserve light 12M. Radio beacon.
366 F 8059	-Mys Yuzhno-Kuril'skiy.	44° 01.2' N 145° 51.6' E	Fl.W. period 6s	36 11	8		Radio beacon.
368 F 8060	-Mys Veslovskiy (Keramui Saki).	43° 39.5' N 145° 32.6' E	L.Fl.W. period 7s fl. 2s, ec. 5s	46 14	9	Octagonal wooden tower, white and black bands; 40.	Visible 254°-169°. Bell: 12 strokes ev. 60s. Radio beacon.
372 F 8054	Sikotan Simi.	43° 50.2' N 146° 55.0' E	Fl.W. period 10s fl. 1s, ec. 9s	213 65	21	White round concrete structure; 62.	Reserve light Fl.W. 10s 9M. Radio beacon.
376 F 8054.5	-Kombuusu Saki.	43° 42.2' N 146° 38.6' E	Fl.W. period 3s	207 63	9	Red round metal column, platform on top; 16.	Visible 257°-132°. Radar reflector.
376.5 F 8054.2	-Kamo Shima.	43° 44.0' N 146° 42.6' E	Fl.W. period 4s	213 65	8	White tower; 26.	Radio beacon.
379 F 8054.6	Malokuril'skiy.	43° 52.5' N 146° 48.8' E	Fl.W. period 5s		22		
380.5 F 8054.7	--W. entrance point.	43° 42.2' N 146° 49.1' E	L.Fl.W. period 6s	224 68	9	Red column; 16.	Radio beacon.
384 F 8056	Taraka Sima.	43° 37.0' N 146° 21.6' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	95 29	9	White round concrete tower, red bands; 39.	Radio beacon.
384.5 F 8056.2	-On W. point.	43° 37.5' N 146° 16.4' E	Fl.W. period 4s	39 12	9	Red column; 16.	Visible 285°-227°. Radar reflector.
385 F 8056.5	Ostrov Zelenyy (Sankaku Zaki).	43° 31.9' N 146° 12.3' E	Fl.W. period 7.5s		9		Radio beacon.
386 F 8057	Ostrov Yuryi.	43° 26.0' N 146° 04.2' E	Fl.W. period 5s	79 24	9	White round concrete tower, black bands; 39.	

JAPAN-HOKKAIDO-EAST COAST

388 F 6856	Hutuke Saki.	43° 33.8' N 145° 20.9' E	Iso.W. period 6s	46 14	12	White round concrete tower; 39.
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RACON

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-EAST COAST							
392 <i>F 6856.5</i>	Odaito Ko, W.	43° 34.1' N 145° 13.5' E	F.FI.G. period 3s	43 13	F. 5 Fl 12	Round white concrete structure; 36.	
396 <i>F 6856.7</i>	Sibetu Ko.	43° 40.0' N 145° 08.3' E	Oc.R. period 4s lt. 3s, ec. 1s	52 16	13	Red round concrete structure; 36.	
400 <i>F 6857</i>	Kumbetsu.	43° 47.8' N 145° 03.6' E	Oc.W. period 8s	177 54	20	Round concrete structure, red and white bands; 49.	Visible 199°-343°.
402 <i>F 6857.4</i>	Otazunemappu Ko.	43° 57.6' N 145° 08.4' E	Fl.(2)R. period 5s	27 8	3	Red tower; 16.	
404 <i>F 6857.5</i>	Matunori Ko.	43° 59.2' N 145° 09.9' E	Iso. R. period 6s	46 14	12	Red round concrete structure; 36.	
412 <i>F 6860</i>	-No. "1", S. breakwater.	44° 01.0' N 145° 11.9' E	Fl.G. period 3s	39 12	12	White tower; 33.	
416 <i>F 6861</i>	-No. "2", S. breakwater.	44° 01.1' N 145° 11.9' E	F.FI.R. period 6s	43 13	F. 6 Fl 12	Red round concrete structure; 33.	
420 <i>F 6861.2</i>	-W. breakwater.	44° 01.3' N 145° 12.2' E	Oc.G. period 4s	39 12	11	White round concrete structure; 36.	
424 <i>F 6858</i>	Rausu.	44° 02.2' N 145° 13.2' E	Fl.W. period 10s	285 87	24	Round concrete structure, red and white bands; 52.	
426 <i>F 6861.4</i>	Okkabake Ko.	44° 04.4' N 145° 14.7' E	Iso.R. period 4s	36 11	11	Red tower; 31.	
428 <i>F 6861.5</i>	Tienbetu Ko, NE.	44° 06.0' N 145° 14.8' E	Fl.(2)R. period 6s	46 14	12	Red round concrete tower; 36.	
430 <i>F 6863</i>	-Siretoko, S.	44° 11.3' N 145° 19.4' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	11	Red tower; 28.	
NEMURO KO:							
432 <i>F 6852</i>	-S. breakwater, head.	43° 20.3' N 145° 34.4' E	Fl.(2)G. period 6s	36 11	8	White round concrete tower; 26.	
436 <i>F 6850</i>	-N. breakwater, head.	43° 20.9' N 145° 34.7' E	F.FI.G. period 3s	46 14	F. 5 Fl 10	White tower; 46.	
438 <i>F 6853</i>	-Horomosiri Ko.	43° 17.9' N 145° 31.2' E	Iso.G. period 4s	39 12	11	White tower; 28.	
439 <i>F 6854</i>	-Onneto.	43° 16.3' N 145° 29.7' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
440 <i>F 6847</i>	-Nokkamappu Saki.	43° 23.5' N 145° 39.2' E	Fl.(2)W. period 10s 2 fl. 3s, ec. 7s	69 21	14	Octagonal concrete tower, black and white bands; 36.	
444 <i>F 6845</i>	Onnemoto Ko, E. breakwater, head.	43° 23.3' N 145° 47.1' E	F.FI.G. period 3s	39 12	F. 5 Fl 11	White round concrete structure; 36.	
JAPAN-HOKKAIDO-SOUTH COAST							
448 <i>F 6840</i>	Nosappu Misaki.	43° 23.1' N 145° 49.0' E	Iso.W.R. period 6s	75 23	14	White tower; 46.	W. 105°-339°, R.-015°. Horn: 3 bl. ev. 40s (bl. 5s, si. 3s, bl. 5s, si. 3s, bl. 5s, si. 19s).
RAMARK							
452 <i>F 6842</i>	Kaigara Sima.	43° 23.8' N 145° 51.5' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	56 17	10	Round concrete structure; 56.	Bell.
456 <i>F 8057.6</i>	Suisyosima on Dai Zaki (Mys Zorkiy).	43° 25.0' N 145° 53.9' E	Fl.R. period 3s fl. 1s, ec. 2s	39 12	5	Red round tower, white bands; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
456.5 <i>F 8057.8</i>	-On W. point.	43° 27.2' N 145° 56.9' E	L.FI.W. period 6s	72 22	9	White concrete tower; 39.	
458 <i>F 6839</i>	Goyomai Ko.	43° 22.3' N 145° 48.5' E	FI.G. period 3s	33 10	3	White tower; 16.	
460 <i>F 6839.4</i>	Habomainosiri Sima.	43° 20.1' N 145° 46.3' E	FI.W.R. period 5s	72 22	12	White quadrangular concrete tower; 33.	R. 027°-035°, W.-221°, R.-243, W.-027.
464 <i>F 6839.2</i>	Habomai Ko, S. breakwater.	43° 20.4' N 145° 45.7' E	FI.G. period 3s	39 12	6	White round concrete structure; 36.	
468 <i>F 6838.4</i>	-S.	43° 20.4' N 145° 45.8' E	Iso.G. period 6s	43 13	12	White round concrete structure; 36.	
469 <i>F 6838.4</i>	Okineepu Ko.	43° 19.6' N 145° 41.8' E	Oc.R. period 4s	30 9	11	Red tower; 28.	
470 <i>F 6837.5</i>	Tomoshiri Ko.	43° 18.9' N 145° 40.2' E	FI.R. period 3s	26 8	3	Red tower; 16.	
472 <i>F 6836</i>	Hanasaki.	43° 16.7' N 145° 35.3' E	Oc.W.R. period 8s lt. 6s, ec. 2s	102 31	16	Square concrete tower, red and white bands; 33.	R. 217°-257°, W.-282°, R.-295°, W.-323°, R.-010°, W.-148°. Horn: 1 bl. ev. 15s (bl. 5s, si. 10s).
474 <i>F 6837</i>	-Detached breakwater, E. head.	43° 16.2' N 145° 34.7' E	FI.G. period 3s	49 15	6	White tower; 33.	
476 <i>F 6837</i>	-On breakwater.	43° 16.7' N 145° 34.5' E	FI.(2)R. period 6s	49 15	12	Red tower; 46.	
478 <i>F 6835.5</i>	Nemuro Konbumori.	43° 13.4' N 145° 33.2' E	Oc.G. period 4s	39 12	11	White tower; 28.	
480 <i>F 6835</i>	Yururi Sima.	43° 12.6' N 145° 35.5' E	FI.W. period 3s	174 53	12	Octagonal concrete tower, black and white bands; 43.	
484 <i>F 6834.5</i>	Otiisiko, N. breakwater.	43° 11.0' N 145° 31.0' E	FI.R. period 3s	46 14	6	Red round concrete tower; 36.	
486 <i>F 6834.3</i>	-W. breakwater.	43° 11.0' N 145° 30.9' E	FI.G. period 3s	36 11	11	White tower; 32.	
488 <i>F 6834</i>	Otiisi Misaki.	43° 09.9' N 145° 30.9' E	FI.W.R. period 8s	157 48	19	Square concrete tower, red and white bands; 49.	W. 207°-048°, R.-070°, obsc.-207°. Horn: 2 bl. ev. 30s.
492 <i>F 6830</i>	Tobutsu Saki.	43° 04.6' N 145° 10.1' E	FI.W.R. period 5s	161 49	19	Quadrangular concrete structure, red and white bands; 39.	R. 215°-270°, W.-215°. F.W. auxiliary light illuminates Hikake Iwa 1.6 miles ENE. Horn: 1 bl. ev. 30s (bl. 10s, si. 20s).
496 <i>F 6831</i>	Kiritappu Ko, E. breakwater.	43° 05.1' N 145° 08.0' E	Iso.G. period 6s	39 12	11	White cylindrical concrete structure; 31.	
498 <i>F 6830.4</i>	Biwase Hana.	43° 03.1' N 145° 05.4' E	FI.G. period 3s	39 12	8	White concrete tower; 28.	
500 <i>F 6828</i>	Akkeshi.	42° 56.9' N 144° 51.9' E	FI.W. period 10s	367 112	26	White round concrete structure; 25.	Horn: 3 bl. ev. 45s
RAMARK							Frequency coverage 9375-9435 MHz.
502 <i>F 6828.4</i>	Tokotan Ko, breakwater.	42° 59.7' N 144° 52.1' E	Iso.R. period 4s	36 11	11	Red tower; 28.	
504 <i>F 6829</i>	Akkesi Ko breakwater, N. head.	43° 02.4' N 144° 49.8' E	FI.(2)R. period 6s	46 14	9	Red tower; 36.	
508 <i>F 6826</i>	Konbumori.	42° 56.9' N 144° 31.3' E	FI.W.R. period 5s	295 90	20	Black square concrete tower, white bands; 36.	R. 040°-090°, W.-040°.
510 <i>F 6826.5</i>	-Konbumori Ko.	42° 57.0' N 144° 31.7' E	FI.(2)R. period 6s	43 13	12	Red tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
512 F 6822	Katsurakoi, Ko.	42° 56.7' N 144° 26.7' E	Fl.R. period 3s	43 13	12	Red tower; 36.	
516 F 6814	-Kushiro Saki.	42° 58.2' N 144° 22.4' E	Fl.W. period 15s	167 51	19	White square concrete tower, red band; 56.	Visible 300°-156°. Radiobeacon. DGPS Station.
520 F 6814.2	Sireto Syo.	42° 57.7' N 144° 22.1' E	Q.(6)+L.Fl.W. period 15s	49 15	12	S. CARDINAL YB, beacon, topmark; 43.	
522 F 6814.1	-Approach.	42° 58.0' N 144° 23.2' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
524 F 6815	-S. breakwater, head.	42° 58.5' N 144° 21.5' E	Oc.R. period 4s	43 13	7	Red tower; 43.	Visible 113°-325°.
528 F 6814.6	-S. auxiliary breakwater, head.	42° 58.6' N 144° 21.3' E	Iso.R. period 6s	39 12	12	Red round concrete structure; 43.	Horn: 1 bl. ev. 11s (bl. 2s, si. 9s).
529 F 6814.5	-Detached breakwater, W. head.	42° 58.7' N 144° 21.0' E	Fl.R. period 5s	39 12	4	Red tower; 30.	
532 F 6816.4	-N. breakwater, N. head.	42° 59.1' N 144° 21.7' E	Fl.(2)R. period 6s	46 14	9	Red round concrete structure; 36.	
536 F 6816	-N. breakwater, S. head.	42° 58.5' N 144° 21.7' E	Fl.(2)G. period 6s	39 12	11	White round concrete tower; 36.	
540 F 6814.4	-Nisiko S. breakwater, E. head.	42° 59.2' N 144° 20.7' E	Fl.G. period 3s	49 15	8	White round concrete structure, 36.	
542 F 6814.3	--W. head.	42° 59.3' N 144° 18.7' E	Fl.R. period 3s	49 15	9	Red tower; 33.	
KUSIRO KO:							
544 F 6813	-AVIATION LIGHT.	43° 02.5' N 144° 12.0' E	Al.Fl.W.G. period 4.3s	364 111		Metal framework tower.	
548 F 6812.4	-Shiranuka Ko, S. breakwater.	42° 56.9' N 144° 05.3' E	F.Fl.R. period 4s	43 13	F. Fl	6 12	Red round concrete structure; 36.
552 F 6812	Tokachi Otu.	42° 40.1' N 143° 38.0' E	Fl.(3)W. period 20s 3 fl. 10s, ec. 10s	190 58	20	Round concrete tower, black and white bands; 46.	Visible 222°-55°.
554 F 6811.7	Taiki Ko.	42° 28.2' N 143° 26.3' E	Iso.G. period 4s	43 13	12	White round concrete tower; 28.	
556 F 6807.5	Hiroo.	42° 17.0' N 143° 19.5' E	Fl.(2)W. period 15s 2 fl. 5s, ec. 10s	125 38	17	White quadrangular concrete tower; 43.	Visible 197°-017°. Horn: 1 bl. ev. 20s.
TOKACHI KO:							
560 F 6808	-S. (outside) breakwater, head.	42° 17.8' N 143° 20.9' E	Fl.G. period 4s	49 15	12		
562 F 6809	--Breakwater extension.	42° 17.9' N 143° 20.6' E	Fl.R. period 4s	46 14	11		
564 F 6810	-Inside breakwater, head.	42° 17.3' N 143° 19.6' E	Iso.R. period 6s	36 11	11	Red round concrete structure; 31.	
572 F 6803	Syoya Ko, W. breakwater, head.	42° 02.3' N 143° 18.1' E	Iso.G. period 4s	45 14	12	White round concrete structure; 36.	
574 F 6803.5	-E. breakwater.	42° 02.2' N 143° 18.0' E	Fl.R. period 3s		3		
576 F 6802	Erimo Misaki.	41° 55.5' N 143° 14.8' E	Fl.W. period 15s	239 73	22	White round concrete tower; 46.	Diaphone: 2 bl. ev. 40s.

RAMARK

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
578 F 6799	Utabeto ko.	41° 59.5' N 143° 09.8' E	Fl.R. period 4s	33 10	3	Red tower; 16.	
580 F 6796	Horoisumi.	42° 00.8' N 143° 09.3' E	Iso.W. period 6s	223 68	21	White round concrete structure, red bands; 43.	Visible 339°-126°.
584 F 6797	Erimo Ko.	42° 00.9' N 143° 08.5' E	Fl.(2)R. period 5s	46 14	4	Red tower; 36.	
588 F 6798	-S. jetty.	42° 00.8' N 143° 08.9' E	Fl.R. period 3s	27 8	6	Red tower; 25.	
589	Asahi Ko.	42° 03.7' N 143° 03.7' E	Fl.R. period 3s	36 11	3	Red tower; 16.	
590 F 6794	Huyusima Ko.	42° 05.8' N 142° 59.3' E	Oc.G. period 4s	43 13	12	White round concrete tower; 28.	
592 F 6793	Samani Ko, E. breakwater.	42° 07.4' N 142° 55.2' E	Fl.G. period 3s	36 11	5	White round concrete structure; 30.	
596 F 6792	-W. breakwater.	42° 07.5' N 142° 55.0' E	Fl.(2)G. period 6s	39 12	6	White tower; 36.	
600 F 6791	-Outer E. breakwater, head.	42° 07.4' N 142° 54.6' E	Iso.R. period 4s	46 14	12	Red round concrete structure; 36.	
602 F 6790	Utoma Ko.	42° 07.9' N 142° 52.3' E	Fl.R. period 3s	39 12	6	Red concrete structure; 28.	
604 F 6786	Urakawa Ko.	42° 09.8' N 142° 46.6' E	Fl.W. period 5s	154 47	19	White round concrete structure, red bands; 39.	Visible 314°-107°.
608 F 6788	-S. breakwater, head.	42° 09.9' N 142° 45.5' E	Fl.R. period 3s	43 13	10	Red triangular metal framework structure; 29.	
612 F 6789	-N. breakwater, head.	42° 09.8' N 142° 46.1' E	F.Fl.G. period 5s	36 11	F. Fl.	7 11	White round concrete tower; 31.
616 F 6784	Ogifushi Hana, E. breakwater.	42° 12.0' N 142° 39.5' E	Fl.R. period 4s	43 13	12	Red round concrete tower; 31.	
620 F 6781	Mituisi ko, S. breakwater.	42° 14.6' N 142° 32.9' E	Fl.R. period 3s	52 16	10	Red round concrete structure; 31.	
624 F 6783	-W. breakwater.	42° 14.7' N 142° 32.9' E	Iso.G. period 6s	46 14	3	White round concrete tower; 26.	
626 F 6780	Harutati-sizunai.	42° 16.2' N 142° 28.9' E	Fl.(2)R. period 5s	33 10	3	Red tower; 16.	
628 F 6778	Higasi-sizunai.	42° 17.8' N 142° 26.9' E	Fl.R. period 5s	43 13	12	Red round concrete tower; 27.	
632 F 6777	Sizunai.	42° 19.7' N 142° 22.3' E	Fl.W. period 10s	299 91	24	Round concrete structure; red and white bands; 40.	Visible 307°-120°.
636 F 6777.5	-Breakwater, head.	42° 19.4' N 142° 22.1' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
640 F 6776	Seppu Ko, S. breakwater, head.	42° 22.7' N 142° 16.4' E	Fl.(2)R. period 6s	43 13	4	Red tower; 29.	
644 F 6775	Atsuga Ko, S. breakwater.	42° 26.0' N 142° 12.1' E	Fl.R. period 3s	46 14	12	Red round concrete tower; 36.	
648 F 6774.6	Hidaka Monbetu.	42° 28.3' N 142° 04.9' E	Iso.W. period 8s	148 45	18	White octagonal concrete structure; 43.	
652 F 6774.4	-Sea Berth.	42° 35.1' N 141° 47.8' E	Mo.(U)R. period 10s	98 30	10		E. and W. heads marked by Mo.(U)R. 10s Horn.
658 F 6774.3	-E. breakwater.	42° 34.8' N 141° 46.3' E	Fl.(2)R. period 6s	56 17	13	Red tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks	
JAPAN-HOKKAIDO-SOUTH COAST								
660 F 6774	-Sea berth.	42° 36.2' N 141° 38.7' E	Mo.(U)R. period 14s	105 32	16		Auxiliary lights Mo.(U)R. 14s 7M Siren 260m NW. and 240m SE., and Mo.(U)R. 14s 7M 120m NNW. and 100m SE. Radar reflector.	
664 F 6773	-W. breakwater.	42° 37.3' N 141° 37.2' E	Fl.(2)G. period 7s	43 13	12	White round concrete structure; 42.		
668 F 6773.4	-S. Breakwater.	42° 37.6' N 141° 37.1' E	Iso. G. period 6s	33 10	11	White round concrete structure; 31.		
672 F 6773.7	-Tomakomai Ko, E. breakwater.	42° 36.9' N 141° 37.2' E	Iso.R. period 4s	56 17	13	Red round concrete concrete structure; 52.		
673 F 6773.75	--E. detached breakwater, SW. head.	42° 36.8' N 141° 37.1' E	Fl.Y. period 3s	43 13	7	Yellow tower; 33.		
674 F 6773.1	--"A", W. detached breakwater, NE. head.	42° 37.3' N 141° 35.3' E	Fl.Y. period 4s	14 4	4	SPECIAL Y, beacon, topmark; 12.		
675 F 6773.3	--"B", SW. head.	42° 37.2' N 141° 35.1' E	Fl.Y. period 4s	14 4	4	SPECIAL Y, beacon, topmark; 12.		
676 F 6772	Tomakomai.	42° 37.2' N 141° 34.4' E	Fl.W. period 12s	121 37	17	Round concrete tower, black and white bands; 105.	Visible 255°-075°.	
680 F 6770	Ayoro Hana.	42° 27.0' N 141° 12.2' E	Al.FI.W.R. period 16s	138 42	W. R.	18 18	Round concrete structure, red and white bands; 43.	Visible 226°-075°.
684 F 6770.3	Neboribetu Ko, breakwater, head.	42° 26.8' N 141° 11.5' E	Fl.R. period 3s	52 16	13	Red round concrete tower; 33.		
688 F 6745	Tikiu Misaki.	42° 18.0' N 141° 00.3' E	Fl.(2)W. period 30s 2 fl. 8s, ec. 22s	430 131	28	White octagonal concrete tower; 49.		
692 F 6745.5	Oinaosi Gyoko.	42° 18.2' N 140° 58.3' E	Fl.G. period 3s	43 13	8	White tower; 36.		
MURORAN KO:								
696 F 6746.6	-Breakwater, SW. head.	42° 20.5' N 140° 55.9' E	Iso.G. period 6s	43 13	12	White round concrete tower; 36.	R. lights mark detached breakwater heads 150 meters SE.	
704 F 6746.4	-S. outer breakwater.	42° 20.8' N 140° 55.2' E	Oc.R. period 8s	49 15	12	Red round concrete structure; 46.		
708 F 6746	-N. outer breakwater, S. head.	42° 21.1' N 140° 55.2' E	Oc.G. period 8s	49 15	12	White round concrete structure; 46.		
712 F 6747	-S. auxiliary breakwater, head.	42° 20.9' N 140° 55.9' E	F.FI.R. period 5s	43 13	F. Fl	6 12		
716 F 6749	-N. breakwater, head.	42° 21.1' N 140° 57.1' E	Fl.G. period 4s	33 10	7	White tower; 24.	Iso.W., Iso.R. and Iso.G. mark bridge 230 meters SE.	
720 F 6750	-S. breakwater, head.	42° 20.9' N 140° 57.2' E	Fl.R. period 4s	43 13	12	Red structure; 37.		
724 F 6748	-Sea berth.	42° 21.5' N 140° 56.8' E	Mo.(U)W. period 10s	105 32	16			
736 F 6754.3	-E. end Range, front.	42° 21.0' N 140° 59.1' E	F.R.	105 32	4			
740 F 6754.31	--Rear, 400 meters 90° from front.	42° 21.0' N 140° 59.4' E	F.R.	115 35	4			
744 F 6756	-Huzi Ironworks Wharf.	42° 20.5' N 140° 59.0' E	Fl.(3)G. period 13s	23 7	9	White round metal structure; 13.		
748 F 6755	-Huzi Ironworks Range No. "1", front.	42° 20.3' N 140° 59.1' E	F.R.	62 19	8	Silver triangular metal framework structure, red triangular topmark; 56.		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
752 F 6755.1	--Rear, about 173 meters 124.1° from front.	42° 20.3' N 140° 59.2' E	F.R.	79 24	8	Silver triangular metal framework structure, red triangular topmark; 72.	
756 F 6762	-Huzi Seitetu Range No. "2", front.	42° 20.8' N 141° 00.6' E	F.R.	56 17	8	Black triangular framework tower, white triangular topmark; 56.	Visible 349°-169°.
760 F 6762.1	--Rear, about 115 meters 79° from front.	42° 20.8' N 141° 00.6' E	F.R.	72 22	8	Black triangular framework tower, white triangular topmark; 72.	Visible 349°-169°.
764 F 6763	-Huzi Seitetu Range No. "3", front.	42° 20.9' N 141° 00.5' E	F.R.	62 19	8	Silver triangular metal framework tower, red triangular topmark; 56.	
768 F 6763.1	--Rear, 85 meters 079° from front.	42° 20.9' N 141° 00.6' E	F.R.	79 24	8	Silver triangular metal framework tower, red triangular topmark; 72.	
772 F 6768	-Nittu Wharf Range No. "1", front.	42° 19.6' N 140° 59.2' E	F.R.	59 18	4	Triangular metal structure, red triangular topmark; 10.	
776 F 6768.1	--Rear, 50 meters 125° from front.	42° 19.6' N 140° 59.2' E	F.R.	69 21	4	Triangular metal structure, red triangular topmark; 17.	
780 F 6769	-Nittu Wharf Range No. "2", front.	42° 19.7' N 140° 59.4' E	F.R.	36 11	4	Metal framework tower, red triangular topmark; 5.	
784 F 6769.1	--Rear, 35 meters 110° from front.	42° 19.6' N 140° 59.4' E	F.R.	43 13	4	Metal framework tower, red triangular topmark; 10.	
788 F 6744.5	Date Ko, breakwater, head.	42° 27.7' N 140° 51.7' E	Fl.G. period 3s	43 13	12		
790	Usu Wan.	42° 30.7' N 140° 46.9' E	Fl.(2)W. period 5s		3	ISOLATED DANGER BRB, beacon, topmark.	
790.5 F 6744.2	-W. beacon.	42° 30.9' N 140° 46.1' E	Fl.(2)W. period 5s	33 10	6	ISOLATED DANGER BRB, beacon, topmark.	
792 F 6744	Abuta Byochi, breakwater, head.	42° 31.8' N 140° 46.4' E	Fl.R. period 4s	39 12	7	Red round concrete tower; 32.	
796 F 6742	Toyoura Ko, S. breakwater, head.	42° 34.6' N 140° 42.7' E	Iso.R. period 4s	30 9	7	Red round tower; 18.	
800 F 6742.4	-S. detached breakwater, W. head.	42° 34.6' N 140° 42.8' E	Iso.G. period 4s	39 12	11	White round concrete tower; 31.	
808 F 6741.5	Reubon Ko.	42° 34.3' N 140° 36.1' E	Fl.R. period 3s	43 13	7	Red round concrete structure; 32.	
810 F 6741.4	Sitsukari Toge.	42° 35.0' N 140° 28.7' E	Oc.R. period 4s	30 9	7	Red round tower; 20.	
812 F 6740	Sawara Ko, N. breakwater, head.	42° 07.5' N 140° 41.5' E	Iso.R. period 6s	39 12	11	Red round fiberglass structure, 32.	
814 F 6740.5	Dokui Saki, breakwater, head.	42° 07.4' N 140° 38.9' E	Fl.R. period 3s	27 8	3	Red tower; 16.	
816 F 6741	Mori Ko, W. breakwater.	42° 06.6' N 140° 35.7' E	F.Fl.R. period 5s	36 11	F. Fl	6 11	Red round concrete tower; 31.
816.5 F 6741.05	-Breakwater, head.	42° 08.2' N 140° 30.5' E	Fl.G. period 3s	27 8	3	White tower; 16.	
818	Ishikura Ko.	42° 09.4' N 140° 28.9' E	Fl.(2)G. period 6s	28 9	3	White tower; 16.	
820 F 6741.2	Otsibe Ko.	42° 11.4' N 140° 26.1' E	Fl.G. period 3s	39 12	11	White round tower; 31.	
820.5 F 6741.25	-Breakwater, head.	42° 12.9' N 140° 24.1' E	Iso.G. period 4s	27 8	3	White tower; 16.	
824 F 6741.3	Yakumo Ko.	42° 15.2' N 140° 17.6' E	Oc.G. period 4s	39 12	11	White round tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
828 F 6738	Suna Saki.	42° 08.1' N 140° 42.9' E	Fl.W. period 4s	46 14	12	Round concrete tower, red and white bands; 39.	
830 F 6737	Dekima Saki, SE.	42° 03.3' N 140° 48.5' E	Fl.(2)G. period 6s	36 11	11	White round tower; 28.	
SIKABA KO:							
832 F 6735	-E. breakwater.	42° 02.0' N 140° 49.9' E	Fl.G. period 3s	46 14	12	White round tower; 28.	
836 F 6733	Usuziri Wan, N. breakwater, head.	41° 56.0' N 140° 57.0' E	Fl.(2)G. period 6s	36 11	11	White round concrete structure; 29.	
840 F 6733.5	-W. breakwater.	41° 56.0' N 140° 56.8' E	Fl.(2)R. period 6s	39 12	11	Red round concrete tower; 31.	
842 F 6734	Ohune Ko.	41° 59.0' N 140° 55.2' E	Oc.G. period 4s	39 12	11	White concrete structure; 28.	
844 F 6732	Katuikimi Ko, N. breakwater.	41° 54.3' N 140° 59.1' E	Iso.G. period 4s	42 13	12	White round concrete tower; 31.	
848 F 6731	Osatube Ko, N. breakwater.	41° 53.5' N 141° 01.0' E	F.FI.G. period 5s	36 11	F. Fl. 5 11	White round concrete tower; 31.	
850 F 6730.5	Kinaosi Ko.	41° 53.2' N 141° 04.3' E	Fl.G. period 3s	42 13	12	White tower; 28.	
852 F 6730	Todohokke Ko, E. breakwater.	41° 49.5' N 141° 10.0' E	Fl.G. period 4s	49 15	7	White tower; 31.	
856 F 6729	Esan Misaki.	41° 48.8' N 141° 11.2' E	Iso.W. period 6s	144 44	18	White round concrete tower; 62. Visible 156°-335°.	
RAMARK							
858 F 6728.5	-Breakwater.	41° 47.5' N 141° 10.5' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
860 F 6727	Yamasedomari Ko, S. breakwater.	41° 47.1' N 141° 07.8' E	Iso.R. period 4s	39 12	8	Red round concrete structure; 36.	
860.5 F 6727.4	-W. breakwater.	41° 47.1' N 141° 07.8' E	Iso.G. period 4s	36 11	9	White tower; 31.	
864 F 6725	Hiura Misaki.	41° 43.4' N 141° 03.4' E	Oc.(2)W.R. period 12s	75 23	14	White round concrete tower; 31. R. 227°-241°, W.-227°.	
868 F 6724.4	Toi Ko, S. breakwater.	41° 42.9' N 141° 01.8' E	Fl.G. period 4s	39 12	11	White round concrete structure; 36.	
872 F 6724.5	-E. breakwater.	42° 43.0' N 141° 01.8' E	Fl.R. period 3s	36 11	11	Red round concrete structure; 31.	
876 F 6724	Siokubi Misaki.	41° 42.5' N 140° 58.1' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	164 50	19	White round concrete tower; 36. Visible 279°-098°.	
880 F 6722	Kamaya Ko, W. breakwater, head.	41° 43.6' N 140° 56.4' E	Iso.G. period 4s	43 13	12	White round concrete tower; 33.	
882 F 6720	Kameda.	41° 45.0' N 140° 52.5' E	Iso.R. period 4s	43 13	12	Red concrete tower; 29.	
884 F 6719	Sinori Ko, S. breakwater.	41° 45.6' N 140° 49.5' E	F.FI.G. period 6s	33 10	F. Fl. 5 11	White round concrete tower; 31.	
HAKODATE KO:							
888 F 6718	-AVIATION LIGHT.	41° 46.3' N 140° 48.8' E	AI.FI.W.G. period 4.3s	147 45		Metal framework tower.	
892 F 6716	-Osima Sumiyosi Ko, E. breakwater, head.	41° 45.1' N 140° 43.6' E	Fl.(2)R. period 6s	42 13	12	Red round concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
896 F 6715	-Fishery Harbor, W. breakwater.	41° 46.4' N 140° 41.8' E	Fl.(2)R. period 5s	33 10	6	Red round concrete tower; 31.	F. Bu. on E. breakwater close SE.
900 F 6706	-W. breakwater, N. head.	41° 47.6' N 140° 42.1' E	Fl.(2)R. period 6s	43 13	12	Red round concrete structure; 46.	
904 F 6707	-N. breakwater, S. head.	41° 47.6' N 140° 42.2' E	Fl.(2)G. period 6s	46 14	12	White round concrete structure; 46.	
908 F 6707.4	-N. auxiliary breakwater, head.	41° 48.2' N 140° 42.0' E	Fl.R. period 3s	39 12	10	Red round concrete structure; 39.	
912 F 6708	-Training Wall No. "3", head.	41° 48.5' N 140° 42.4' E	F.Fl.G. period 5s	39 12	F. 7 Fl 11	White square metal structure; 39.	
916 F 6714	-Central pier, S. basin, breakwater, head.	41° 46.7' N 140° 43.7' E	Fl.G. period 3s	19 6	3	White tower; 16.	
920 F 6704	-Outer Harbor, Nippon Cement sea berth.	41° 48.0' N 140° 39.5' E	Mo.(U)W. period 10s	33 10	11		Siren: 1 bl. ev. 20s. Radar reflector.
922 F 6704.5	-Breakwater.	41° 48.8' N 140° 39.2' E	Fl.G. period 3s	30 9	3	White tower; 16.	
924 F 6703	Mohezi Ko, E. breakwater, head.	41° 45.5' N 140° 36.7' E	F.Fl.G. period 3s	36 11	F. 5 Fl 11	White round concrete tower; 31.	
928 F 6702	Kattoshi Misaki.	41° 44.4' N 140° 36.2' E	Oc.W. period 10s lt. 6s, ec. 4s	151 46	18	White round concrete tower; 52.	Visible 221°-052°.
932 F 6702.5	Tobetu Ko, S. breakwater.	41° 44.2' N 140° 35.6' E	Iso.G. period 4s	33 10	11	White round concrete tower; 31.	
934 F 6701.5	Kikonai Wan.	41° 41.8' N 140° 29.1' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
936 F 6701	Hokuden Siriuti, Sea Berth.	41° 34.9' N 140° 26.3' E	Mo.(U)W. period 12s	62 19	13		Auxiliary light F.R. about 66 meters N. Horn: Mo.(U) ev. 30s. Radar reflector.
940 F 6700	Wakimoto, E. breakwater.	41° 33.8' N 140° 26.0' E	Fl.G. period 4s	49 15	7	White tower; 30.	
944 F 6698	Yagoshi Misaki.	41° 30.9' N 140° 24.7' E	Fl.W. period 10s	315 96	25	White round concrete tower; 26.	Visible 230°-076°
948 F 6695	Hukushima Ko, E. breakwater.	41° 28.5' N 140° 15.8' E	Iso.G. period 4s	36 11	12	White round concrete structure; 31.	
952 F 6696	Hukushima Ko.	41° 28.5' N 140° 15.7' E	Iso.R. period 4s	36 11	7	Red round concrete structure; 31.	
956 F 6693	Yoshioka Ko, S. breakwater.	41° 26.6' N 140° 14.7' E	F.Fl.G. period 6s	46 14	F. 5 Fl 12	White round concrete tower; 31.	
960 F 6692	Shirakami Misi.	41° 23.7' N 140° 12.0' E	Al.Fl.W.R. period 30s	121 37	17	Round concrete tower, red and white bands; 56.	Visible 255°-101°.
960.5	Osawa Ko.	41° 25.7' N 140° 08.4' E	Fl.(2)G. period 6s	36 11	3	White tower; 16.	

JAPAN-HOKKAIDO-SOUTH AND WEST COASTS

964 F 6690	Matumae (Fukuyama).	41° 25.0' N 140° 05.6' E	Iso.W. period 6s	82 25	15	White square concrete tower; 22.	Visible 217°-119°. Storm signals. Radio beacon. DGPS Station.
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RAMARK

968 F 6691	-Outer breakwater.	41° 25.1' N 140° 05.9' E	Iso.G. period 6s	56 17	13	White round concrete structure; 46.	
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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH AND WEST COASTS							
972 F 7042	Tatchama Ko.	41° 26.6' N 140° 02.7' E	F.FI.G. period 6s	46 14	F. 5 Fl 12	White round concrete tower; 36.	
976 F 7044	Yoshiga Sima, on summit.	41° 26.5' N 140° 02.2' E	Fl.W. period 5s	46 14	12	White round concrete tower; 36.	
980 F 7040	Satumae Ko, W. breakwater, head.	41° 27.9' N 140° 01.9' E	Fl.(2)G. period 6s	43 13	12	White tower; 36.	
984 F 7039	Sizura Ko, W. breakwater.	41° 28.9' N 140° 01.3' E	Iso.G. period 4s	46 14	12	White round concrete tower; 32.	
988 F 6684	Matumae O Sima.	41° 29.7' N 139° 20.9' E	Fl.W. period 3s	443 135	16	White round fiberglass structure, red bands; 39.	Visible 257°-134°.
992 F 6686	Matumae Ko Sima.	41° 21.7' N 139° 49.1' E	Fl.(3)W. period 30s	141 43	18	White concrete structure; 79.	Visible 102°-355°.
996 F 7037	Mokusa, entrance.	41° 29.4' N 140° 01.1' E	F.FI.(2)R. period 8s 2 fl. 3s, ec. 5s	29 9	F. 8 Fl 10	Red round concrete tower; 29.	
1000 F 7036	Kiyobe Ko, N. breakwater.	41° 31.1' N 140° 00.4' E	Fl.G. period 4s	38 12	11	White round concrete tower; 36.	
1004 F 7034	Era Ko, W. breakwater, head.	41° 32.7' N 139° 59.1' E	Fl.R. period 3s	36 11	8	Red tower; 36.	
1008 F 7032.6	Haraguti Ko, N. breakwater.	41° 36.1' N 139° 59.2' E	Fl.G. period 3s	33 10	6	White tower; 18.	
1012 F 7033	Haraguti Oiwa, obstruction light.	41° 35.9' N 139° 59.2' E	F.W.	111 34	Round tower, red and white bands; 20.		Illuminate white cylindrical beacon about 320 meters northwestward.
1016 F 7032.4	Higatatomari Misaki.	41° 38.8' N 140° 00.1' E	Oc.(2)W. period 7s	141 43	18	Concrete round structure, red and white bands; 36.	
1020 F 7032	Hiyama Ishizaki.	41° 42.2' N 140° 01.5' E	Iso.W. period 6s	111 34	16	White quadrangular concrete tower; 32.	
1024 F 7031	Siofuki Ko, N. breakwater.	41° 44.2' N 140° 03.1' E	Iso.G. period 6s	43 13	12	White round concrete structure; 36.	
1028 F 7030	Sunego Misaki.	41° 48.0' N 140° 04.5' E	Fl.W. period 5s	141 43	18	Hexagonal concrete structure, black and white bands; 36.	

JAPAN-HOKKAIDO-WEST COAST

ESASHI KO:

1032 F 7028	-Kamome Sima.	41° 51.9' N 140° 07.0' E	Fl.(3)W. period 13s	118 36	17	White square concrete tower; 33.	Visible 007°-277°.
1036 F 7029	-W. breakwater, head.	41° 52.2' N 140° 07.5' E	Iso.R. period 4s	43 13	12	Red round concrete structure; 36.	
1040 F 7029.4	-E. breakwater, head.	41° 52.0' N 140° 07.4' E	Fl.G. period 5s	36 11	11	White pillar; 29.	
1044 F 7028.4	-E. outer breakwater, head.	41° 52.1' N 140° 07.5' E	Iso.G. period 4s	43 13	12	White round concrete structure; 36.	
1048 F 7026	Otobe Ko, W. breakwater.	41° 58.0' N 140° 08.0' E	Fl.(2)G. period 6s	46 14	12	White tower; 36.	Mercury vapor light on E. breakwater head.
1052 F 7025.4	Hiyama Toyohama Ko, W. breakwater.	42° 02.5' N 140° 05.1' E	F.FI.G. period 5s	52 16	F. 5 Fl 12	White round concrete tower; 33.	
1056 F 7025.2	Ainuma Ko, N. breakwater.	42° 04.3' N 140° 03.8' E	Oc.G. period 8s	52 16	12	White round concrete tower; 36.	
1064 F 7024.4	-S. breakwater.	42° 07.5' N 139° 59.1' E	Fl.G. period 4s	56 17	7	White round concrete structure; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST COAST							
1068 F 7024.6	-E. breakwater.	42° 07.6' N 139° 59.1' E	Fl.R. period 3s	49 15	3	Red tower; 31.	
1072 F 7023.8	Ponmoshiri Misaki.	42° 08.0' N 139° 56.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	141 43	18	Octagonal concrete tower, black and white bands; 36.	
1076 F 7023.2	Murotsu Sima.	42° 00.7' N 139° 27.3' E	Fl.W. period 5s	49 15	12	Round concrete structure, red and white bands; 38.	
1080 F 7022	Aonae Misaki.	42° 03.2' N 139° 27.2' E	Fl.W. period 10s	88 27	15	Tower, red and white bands; 53.	Visible 233°-110°.
1084 F 7023	-N. breakwater, head.	42° 03.6' N 139° 27.2' E	Fl.(2)R. period 8s	39 12	9	Red round concrete structure; 36.	
1088 F 7021	Okushiri.	42° 10.8' N 139° 31.7' E	Fl.G. period 3s	39 12	7	White round tower; 11.	
1092 F 7023.3	Kamuiwaki, W. breakwater.	42° 10.0' N 139° 24.8' E	F.Fl.G. period 5s	40 12	F. 5 Fl 11	White round concrete tower; 36.	
1096 F 7020	Inaho Misaki.	42° 14.7' N 139° 33.7' E	Fl.W. period 15s	135 41	18	Square concrete tower, black and white bands; 56.	Visible 070°-336°. F.W. illuminates rock about 1095 meters northward.
RAMARK							
1100 F 7019	Kouta Misaki.	42° 13.4' N 139° 48.9' E	Oc.(3)W. period 13s	102 31	14	White round concrete tower; 32.	
1104 F 7019.4	Kudo Ko, S. breakwater.	42° 13.0' N 139° 49.9' E	Fl.(2)R. period 6s 2 fl. 2s, ec. 4s	56 17	9	Red tower; 33.	
1108 F 7018.5	Midareno Saki.	42° 21.0' N 139° 47.0' E	Fl.W. period 5s	105 32	16	White round concrete tower; 33.	
1112 F 7018	Setana K5, S. outer breakwater.	42° 27.0' N 139° 51.0' E	Iso.G. period 6s	49 15	12		
1116 F 7016	Biya entrance.	42° 32.9' N 139° 50.2' E	Fl.(2)R. period 6s	32 10	12	White tower; 31.	
1120 F 7015	Motta Mi.	42° 36.0' N 139° 50.0' E	F.Fl.R. period 3s	49 15	6 12	Red round concrete structure; 36.	
1124 F 7014	Motsuta Misaki.	42° 37.0' N 139° 50.0' E	Fl.(2)W. period 24s 2 fl. 6s, ec. 18s	925 282	37	White round concrete structure, black bands; 46.	Visible 356°-211°.
1128 F 7013.4	Kimaki Misaki.	42° 41.1' N 139° 55.8' E	Oc.(2)W. period 6s	135 41	18	Concrete structure, red and white bands; 31.	
1130 F 7013.2	Tihase Ko.	42° 41.2' N 140° 01.0' E	Iso.R. period 4s	46 14	12	Red round concrete tower; 36.	
1132 F 7013	Honme Misaki.	42° 45.0' N 140° 07.0' E	Fl.(3)W. period 15s 3 fl. 5s, ec. 10s	157 48	19	Hexagonal concrete tower, black and white bands; 36.	
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1136 F 7012	Benkei Misaki.	42° 49.0' N 140° 12.0' E	Fl.W. period 8s	108 33	16	Round concrete structure, red and white bands; 43.	Visible 057°-308°.
1140 F 7011	Daimaru Iso.	42° 48.3' N 140° 13.6' E	Q.W.	36 11	11	N. CARDINAL BY, beacon, topmark; 36.	
1144 F 7010	Suttsu, N. breakwater.	42° 47.6' N 140° 14.5' E	Iso.R. period 6s	46 14	12	Red round concrete structure; 36.	
1148 F 7009	Yokoma Ko.	42° 50.8' N 140° 20.3' E	F.W.	118 36		White round concrete tower; 24.	Illuminates W. beacon about 470 meters W.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1152 F 7006	Iwanai Ko, W. breakwater, head.	42° 59.7' N 140° 30.8' E	Iso.R. period 4s	46 14	12	Red round metal structure; 29.	
1156 F 7008	-N. breakwater.	42° 59.1' N 140° 30.8' E	Fl.R. period 3s	29 9	9	Red square metal framework structure; 24.	
1160 F 7005.7	Shiribesitomari Ko.	43° 03.9' N 140° 29.7' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	98 30	16	Round concrete structure, red and white bands; 33.	F.W. illuminates beacon on reef close WSW.
1164 F 7005.5	Kamoenai Ko, W. breakwater.	43° 08.3' N 140° 25.6' E	Iso.G. period 4s	46 14	12	White round concrete tower; 32.	
1168 F 7005.2	Kawashiro Ko Offing Breakwater, head.	43° 13.0' N 140° 19.6' E	Fl.G. period 3s	39 12	3	White tower; 16.	
1172 F 7004	Kamui Misaki.	43° 20.0' N 140° 21.0' E	Fl.W. period 15s	266 81	23	White round concrete tower, black bands; 36.	Visible 008°-243°.
1176 F 7005	Yobetsu Ko, N. breakwater.	43° 19.7' N 140° 23.0' E	F.FI.R. period 5s	36 11	F. 6 Fl 11	Red round concrete tower; 31.	
1176.5 F 7004.3	-Kaihatsukyoku.	43° 20.0' N 140° 22.7' E	Fl.(2)R. period 6s	36 11	4	Red tower; 8.	
1178 F 7004.5	-E. breakwater.	43° 19.8' N 140° 24.1' E	Fl.R. period 3s	39 12	9	Red tower; 33.	
1178.5	Hiduka Ko.	43° 21.3' N 140° 27.7' E	Fl.G. period 3s	27 8	3	White tower; 16.	
1180 F 7003	Syakotan Misaki.	43° 22.3' N 140° 29.1' E	Fl.W. period 5s	462 141	29	Round concrete tower, red and white bands; 42.	Radiobeacon. DGPS Station.
RAMARK							
1184 F 7002	Funama Ko, outer breakwater.	43° 17.9' N 140° 36.6' E	F.FI.R. period 6s	43 13	F. 6 Fl 12	Red round concrete tower; 36.	
1188 F 7001	Furubira Ko, E. breakwater.	43° 16.2' N 140° 38.8' E	F.FI.(2)R. period 10s	36 11	F. 8 Fl 11	Red round concrete tower; 36.	
1196 F 6998	Yoichi Ko, basin, S. breakwater, head.	43° 12.6' N 140° 46.9' E	Fl.G. period 4s	25 8	6	White square metal framework tower; 20.	
1200 F 6998.6	-Basin, N. breakwater.	43° 12.6' N 140° 46.9' E	F.FI.R. period 4s	33 10	F. 6 Fl 11	Red round concrete structure; 31.	
1204 F 6998.4	-N. breakwater, head.	43° 13.0' N 140° 47.0' E	Iso.R. period 4s	31 9	11	Red round concrete tower; 25.	
1208 F 6999.4	-Breakwater, W. side of river mouth.	43° 12.0' N 140° 48.0' E	F.FI.R. period 6s	33 10	F. 6 Fl 11	Red round concrete tower; 31.	
1210 F 6997.5	Oshoro.	43° 12.6' N 140° 51.6' E	Dir.F.W.R.G.	16 5	9	White tower; 11.	G. 291°24'.293°24', W.-295°24', R.-297°24'.
1212 F 6996	Hiyori Yama.	43° 14.2' N 141° 01.2' E	Fl.(2)W. period 20s 2 fl. 7s, ec. 13s	164 50	19	White round tower, red bands; 33.	Visible 108°-347°. Horn: 1 bl. ev. 30s.
1216 F 6995	-Breakwater, S. head.	43° 14.0' N 141° 01.0' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 36.	
OTARU KO:							
1220 F 6992	-Takashima, N. breakwater.	43° 13.0' N 141° 01.0' E	F.FI.R. period 6s	43 13	6 12	Red round concrete structure; 33.	
1224 F 6988	-N. auxiliary breakwater, E. head.	43° 12.0' N 141° 02.0' E	Iso.R. period 6s	49 15	12	Red round concrete structure; 46.	
1228 F 6989	-S. breakwater, head.	43° 12.0' N 141° 02.0' E	Fl.(2)G. period 6s	46 14	12	White round concrete tower; 46.	
1230 F 6981.4	-Ishikariwan Ko Range, front.	43° 10.7' N 141° 17.9' E	F.R.	49 15	2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1231 F 6981.41	--Rear, 167.7° from front.	43° 10.6' N 141° 17.9' E	F.R.	66 20	2		
1231.2 F 6981.2	-Outer breakwater.	43° 13.6' N 141° 17.6' E	Fl.(2)R. period 6s	52 16	12	Red concrete structure; 46.	
ISHIKARI GAWA:							
1231.5 F 6979	-Approach.	43° 16.5' N 141° 14.6' E	Mo.(A)W. period 8s	36 11	8	SAFE WATER RW, beacon, topmark.	
1232 F 6980	-Ishikari, W. side of entrance to river.	43° 15.3' N 141° 21.9' E	Fl.W. period 20s	56 17	13	White round tower, red bands; 46.	Visible 043°-223°.
1236 F 6981	-River entrance, W. side.	43° 15.9' N 141° 22.7' E	Iso.W. period 6s	25 8	10	White quadrangular metal framework tower; 18.	
1240 F 6975.5	Atsuta Ko, W. breakwater, head.	43° 23.8' N 141° 25.7' E	Fl.G. period 3s	42 13	7	White round concrete tower; 32.	
1244 F 6974.4	Kawashimo, W. breakwater.	43° 36.0' N 141° 23.0' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 36.	
1248 F 6974	-N. breakwater.	43° 36.1' N 141° 23.0' E	F.Fl.G. period 6s	46 14	5 Fl 12	White round concrete tower; 36.	
1252 F 6973.5	Isikari Wan.	43° 38.5' N 141° 21.4' E	Fl.W. period 10s	200 61	20		Visible 358°-167°.
1256 F 6972.2	Ohuyu Ko, N. breakwater.	43° 44.4' N 141° 20.7' E	Iso.G. period 4s	36 11	11	White round concrete structure; 36.	
1258 F 6972.4	Betukari Ko.	43° 50.0' N 141° 28.8' E	Oc.R. period 4s	46 14	12	Red round concrete tower; 36.	
1260 F 6970	Mashike Ko.	43° 51.0' N 141° 32.0' E	Al.Fl.W.R. period 16s	150 46	18	Concrete tower, black and white bands; 39.	Visible 068°-287°.
1268 F 6972	-N. breakwater, head.	43° 51.4' N 141° 32.4' E	Iso.R. period 6s	46 14	12	Red round concrete tower; 36.	
RUMOI KO:							
1272 F 6960.6	-Rumoi.	43° 57.5' N 141° 38.9' E	Fl.(2)W. period 15s 2 fl. 5s, ec. 10s	190 58	20	Round tower, red and white bands; 56.	Visible 016°-181°.
1276 F 6961	-S. breakwater, head.	43° 57.5' N 141° 38.0' E	Fl.R. period 3s	52 16	12	Red round concrete structure; 46.	
1280 F 6960.8	-W. breakwater, head.	43° 57.6' N 141° 37.6' E	Fl.(2)G. period 6s	49 15	11	White round concrete structure; 52.	
1284 F 6962	-N. breakwater, head.	43° 57.4' N 141° 38.4' E	Fl.G. period 3s	39 12	8	White round concrete structure; 36.	
1288 F 6963	-Inner harbor, W. jetty, head.	43° 57.0' N 141° 38.3' E	Fl.(2)R. period 6s	23 7	3	Red tower; 16.	
1296 F 6959	Obira, detached breakwater.	44° 00.0' N 141° 39.0' E	Iso.R. period 6s	33 10	11	Red round concrete tower; 31.	F.W. auxiliary light illuminates beacon on reef about 275 meters north.
1300 F 6958	Onishika Ko, W. breakwater, head.	44° 09.5' N 141° 39.2' E	Fl.R. period 4s	43 13	7	Red round concrete tower; 32.	
1304 F 6957	Rikiburi Ko, S. breakwater.	44° 13.0' N 141° 39.0' E	Fl.(2)R. period 8s	36 11	11	Red round concrete structure; 36.	
TOMMAE KO:							
1308 F 6954	-N. breakwater, head.	44° 19.0' N 141° 39.0' E	Fl.R. period 3s	39 12	9	Red round concrete tower; 36.	F.W. shown near extremity of point.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1312 F 6953	-E. Breakwater, head.	44° 18.9' N 141° 39.4' E	Fl.G. period 3s	36 11	11 31.	White round concrete structure;	
1316 F 6955	-Tomamae.	44° 18.0' N 141° 39.0' E	Fl.W. period 5s	223 68	20	White round concrete tower; 33.	
1320 F 6954.4	-Haboro Ko, W. breakwater, head.	44° 22.0' N 141° 42.0' E	Iso.R. period 4s	45 14	12	Red round concrete structure; 36.	
1324 F 6944	Yakishiri Jima.	44° 25.7' N 141° 25.7' E	Fl.(4)W. period 30s 4 fl. 15s, ec. 15s	167 51	19	White octagonal concrete tower; 43.	Visible 182°-090°, obscured 182°-192° when within 7M.
F.W.							
1328 F 6946	--Breakwater.	44° 26.3' N 141° 26.1' E	Fl.(2)R. period 8s	43 13	11	Red round concrete structure; 36.	
1330 F 6945	--Nisiura Ko, breakwater.	44° 26.4' N 141° 24.1' E	Oc.R. period 4s	33 10	11	Red concrete tower; 36.	
1332 F 6941	Akaiwa Saki.	44° 24.7' N 141° 17.9' E	Fl.(2)W. period 7s	450 137	14	White round concrete structure; 33.	
1336 F 6939	Teuri To.	44° 26.0' N 141° 20.0' E	Fl.W. period 10s	249 76	22	Concrete structure, red and white bands; 49.	
1340 F 6943	-N. breakwater, head.	44° 26.3' N 141° 19.9' E	Iso.R. period 4s	23 7	7	Red tower; 21.	
1344 F 6942.6	--Breakwater.	44° 26.0' N 141° 20.0' E	F.FI.R. period 4s	43 13	F. Fl.	6 12	Red round concrete structure; 36.
1348 F 6942.8	-S. breakwater, head.	44° 26.2' N 141° 20.0' E	Iso.G. period 4s	36 11	11	White round concrete structure; 36.	
1350 F 6941.5	Maehama Ko.	44° 25.5' N 141° 20.3' E	Fl.G. period 3s	39 12	11	White concrete tower; 28.	
1352 F 6942	-Gome Iwa.	44° 26.6' N 141° 19.9' E	Q.(3)W. period 10s	36 11	11	E. CARDINAL BYB, beacon, topmark; 36.	
1356 F 6934.5	Konpira Misaki, S.	44° 32.1' N 141° 45.7' E	Fl.(2)R. period 6s	39 12	3	Red tower; 32.	
1360 F 6936	Toyomisaki Ko, N. breakwater.	44° 33.8' N 141° 46.7' E	Iso.R. period 6s	39 12	7	Red round concrete tower; 31.	
1364 F 6935	Konpira Misaki.	44° 33.7' N 141° 46.6' E	Fl.W. period 4s	181 55	20	Concrete structure, red and white bands; 39.	Visible 004°-246°.
1367 F 6934.1	Teshio Ko.	44° 52.2' N 141° 44.1' E	Fl.G. period 3s	33 10	6	White tower; 18.	
1368 F 6934	Teshio Kawa, Kuchi, river mouth, E. side.	44° 52.7' N 141° 44.8' E	Iso.W. period 6s	59 18	13	White round concrete tower; 25.	
1368.5	Wakasakanai Ko.	45° 04.9' N 141° 37.8' E	Fl.R. period 3s	31 10	3	Red tower; 16.	
RISHIRI SHIMA:							
1372 F 6915	-Oshidomari.	45° 15.0' N 141° 14.0' E	Fl.W. period 15s	249 76	22	White square stone structure; 31.	Visible 105°-020°.
1376 F 6916	--E. breakwater.	45° 14.4' N 141° 14.1' E	Iso.R. period 6s	36 11	7	Red round concrete tower; 31.	
1378 F 6917	--Oshidomari ko, entrance.	45° 14.4' N 141° 14.3' E	Fl.(2)R. period 6s	46 14	9		
1380 F 6928	-Ishizaki.	45° 09.0' N 141° 20.0' E	AI.FI.W.R. period 20s	114 35	W. R.	17 17	Round concrete structure, black and white bands; 105.
1384 F 6930	-Oniwaki Ko, S. breakwater, head.	45° 08.0' N 141° 19.1' E	Fl.G. period 4s	29 9	4	White round concrete tower; 22.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1388 F 6927	-Senhoshi Saki.	45° 06.0' N 141° 15.0' E	Fl.W. period 5s	95 29	15	Round concrete structure, red and white bands; 43.	
1392 F 6926	-Senhoshi Ko, S. breakwater.	45° 06.5' N 141° 12.7' E	Iso.G. period 6s	43 13	12	White round concrete structure; 36.	
1396 F 6925	--E. breakwater, head.	45° 06.5' N 141° 12.7' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 36.	
1400 F 6924	-Kutsugata Saki.	45° 11.0' N 141° 08.0' E	Iso.W. period 6s	78 24	14	Red and white square tower; 39.	
1404 F 6923	-Kutugata Ko, W. breakwater, head.	45° 11.0' N 141° 08.0' E	Fl.R. period 3s	39 12	9	Red round concrete structure; 39.	
1408 F 6923	-Outer breakwater, head.	45° 11.4' N 141° 08.1' E	Fl.(2)R. period 6s	52 16	6	Red tower; 36.	
1412 F 6922.4	-Shiminato Ko, S. breakwater, head.	45° 12.0' N 141° 08.0' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 36.	
1416 F 6922	-Sakaehama Saki.	45° 12.7' N 141° 08.2' E	Fl.(3)W. period 13s	59 18	13	Round tower, red and white bands; 35.	
1420 F 6919	-Motodomari Ko, N. breakwater, head.	45° 15.0' N 141° 11.0' E	Fl.G. period 3s	39 12	8	White round concrete structure; 36.	
1424 F 6909	Hunbe.	45° 16.0' N 141° 03.0' E	Oc.W. period 8s	151 46	18	Round concrete structure, red and white bands; 39.	
1428 F 6908	Mototi.	45° 17.0' N 141° 01.0' E	Fl.W. period 10s	692 211	34	Octagonal concrete structure, black and white bands; 31.	
1432 F 6908.4	Mototi Ko, breakwater.	45° 18.0' N 141° 01.0' E	F.Fl.R. period 6s	46 14	F. Fl.	6 12	Red round concrete structure; 36.
1433 F 6914	Teppu Gyoko, breakwater.	45° 25.0' N 140° 59.5' E	Fl.R. period 3s	39 12	9		
1436 F 6910	Kaishomai.	45° 18.2' N 141° 03.1' E	Fl.W. period 4s	157 48	18	White round concrete tower; 22.	
1440 F 6910.7	Kahuka Ko, N. breakwater, head.	45° 18.0' N 141° 03.0' E	Fl.R. period 3s	46 14	9	Red round concrete structure; 36.	
1444.5 F 6910.5	-E. breakwater, head.	45° 17.8' N 141° 03.1' E	Fl.(2)R. period 6s	39 12	6	Red tower; 31.	
1448 F 6911	Kahukai Ko, S. breakwater.	45° 20.1' N 141° 03.3' E	F.Fl.G. period 6s	36 11	F. Fl.	5 11	White concrete tower; 31.
1452 F 6913	Todo Shima.	45° 29.0' N 140° 58.0' E	Fl.W. period 3s	174 53	16	White round concrete tower, black bands; 36.	
1456 F 6911.6	N. breakwater, head.	45° 27.0' N 141° 02.0' E	Fl.G. period 3s	39 12	8	White round concrete structure; 33.	
1460 F 6912	Kanedano Misaki.	45° 28.0' N 141° 02.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	89 27	15	Tower, red and white bands; 39.	
1462 F 6913.5	Hamanaka Ko.	45° 26.2' N 140° 59.9' E	Fl.(2)R. period 6s	36 11	11	Red round concrete tower; 28.	
1464 F 6912.4	Sukoton Ko, N. breakwater.	45° 27.2' N 140° 58.8' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 31.	
1466 F 6911.2	Nairo Ko, breakwater.	45° 23.2' N 141° 03.6' E	Oc.R. period 4s	39 12	11	Red concrete tower; 32.	
1468 F 6911.4	Uedomari Saki.	45° 25.2' N 141° 04.2' E	Fl.(3)W. period 13s	69 21	14	Round tower with square base, red and white bands; 33.	
1472 F 6907	Bakkai Ko, W. breakwater.	45° 18.4' N 141° 36.6' E	Fl.G. period 3s	49 15	8	White tower; 36.	
1474	Toyohama.	45° 23.3' N 141° 38.5' E	Fl.(2)G. period 8s	24 7	3	White tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
WAKKANAI KO:							
1476 F 6901	-Noshappu Misaki.	45° 26.8' N 141° 38.9' E	Fl.(2)W. period 20s 2 fl. 6s, ec. 14s	138 42	18	Round concrete tower, red and white bands; 140.	Visible 006°-315°.
1480 F 6901.5	--SW. of Noshappu Misaki.	45° 26.7' N 141° 38.7' E	F.FI.G. period 3s	39 12	F, Fl	5 11	White round concrete structure; 32.
1484 F 6902	-N. breakwater, head.	45° 24.8' N 141° 42.0' E	Iso.R. period 6s	49 15	12	Red round concrete tower; 46.	
1486 F 6904	-E. breakwater, W. head.	45° 24.6' N 141° 42.1' E	Fl.G. period 3s	42 13	10	White concrete structure; 36.	
1486.5 F 6905	--E. head.	45° 24.5' N 141° 42.9' E	Fl.R. period 3s	39 12	11	Red tower; 33.	
1487	-Outer breakwater, E. head.	45° 25.0' N 141° 42.5' E	Fl.(2)R. period 6s	46 14	11	Red tower; 44.	
1488 F 6902.4	-Hokuyo Wharf, N. breakwater, head.	45° 24.5' N 141° 41.4' E	Fl.(2)G. period 6s	36 11	11	White round structure; 32.	
1492 F 6903.4	-N. breakwater wharf, head.	45° 24.6' N 141° 41.0' E	Fl.R. period 5s	36 11	9	Red round structure; 30.	
1500 F 6903	-No. "1" Basin Breakwater.	45° 24.5' N 141° 41.0' E	Oc.G. period 4s	32 10	6	White round concrete tower; 28.	
1508 F 6900	Koetoi Saki Offing.	45° 25.4' N 141° 45.2' E	Q.W.	39 12	12	N. CARDINAL BY, beacon, topmark; 38.	
1510 F 6900.5	-W. breakwater, head.	45° 24.6' N 141° 45.6' E	Fl.G. period 6s	25 8	3	White tower; 16.	
1512 F 6899	-AVIATION LIGHT.	45° 24.0' N 141° 48.0' E	Al.FI.W.G. period 4.3s	75 23		Metal framework tower; 29.	
1516 F 6898	Tomiso Ko, W. breakwater.	45° 28.0' N 141° 53.0' E	F.FI.G. period 6s	43 13	F, Fl	5 12	White round concrete tower; 31.
1520 F 6897.6	Soya Gyoka, W. breakwater.	45° 29.0' N 141° 52.9' E	Iso.G. period 4s	43 13	12	White round concrete structure; 36.	
1522 F 6897.4	Saya Gyoko.	45° 30.6' N 141° 53.7' E	Oc.R. period 4s	43 13	12	Red round concrete tower; 36.	
1524 F 6896	Soya Misaki.	45° 31.1' N 141° 56.4' E	Fl.(4)W. period 30s 4 fl. 15s, ec. 15s	131 40	17	Square concrete tower, red and white bands; 56.	Visible 077°-286°. Horn: 1 bl. ev. 20s (bl. 5s, si. 15s). Radiobeacon. DGPS Station.
RAMARK							
1528 F 6897.2	Soya Ko, N. breakwater.	45° 31.0' N 141° 56.9' E	Fl.R. period 4s	22 7	3	Red round concrete tower; 16.	
1532 F 6897	-Outer N. breakwater.	45° 31.1' N 141° 57.1' E	Iso.R. period 4s	46 14	12	Red round concrete tower; 36.	
1536 F 6896.5	Tuetomanai Point.	45° 25.0' N 142° 02.0' E	Fl.R. period 3s	46 14	12	Red tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							

NEVEL'SK:

15590 Platform. F7903	52° 43.0' N 143° 34.1' E	Mo.(U)W. period 15s	15	Horn.
		Mo.(U)R. period 15s	4	

Section 2

Northwest Coast of Honshu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1540 F 5330	Kurumi Se.	34° 02.4' N 130° 53.6' E	Fl.(2)W. period 5s	39 12	3	ISOLATED DANGER BRB, beacon, topmark; 31.	
1544 F 5329	Yoshimi Ko, N. breakwater.	34° 04.0' N 130° 54.0' E	Fl.G. period 3s	23 7	6	White round concrete tower; 32.	
1548 F 5322	-Hutaoi Sima.	34° 05.7' N 130° 47.1' E	Fl.(3)W. period 30s	340 104	21	White octagonal concrete tower; Visible 296°-140° and 246°-286°. 49.	
1550 F 5323	--S. side, about 590 meters E. Kenega Saki.	34° 05.7' N 130° 47.5' E	Iso.G. period 6s	26 8	6	White tower; 19.	
1552 F 7402	Kogushi Ko Kawatana, breakwater.	34° 09.0' N 130° 55.0' E	Oc.R. period 5s lt. 3s, ec. 2s	36 11	11	Red round concrete structure; 31.	
1556 F 7401	Kogusi, Ko, S. breakwater.	34° 10.4' N 130° 55.7' E	F.FI.R. period 3s	40 12	F. 6 Fl 11	Red round concrete structure; 32.	
1560 F 7400	Yatama Ko "A", breakwater.	34° 16.1' N 130° 53.4' E	F.FI.G. period 5s	43 13	F. 5 Fl 11	White round concrete tower; 36. F.W. auxiliary light illuminates the head of the breakwater.	
1564 F 7399	Kottai.	34° 19.0' N 130° 53.7' E	Oc.W.R. period 8s	89 27	15	White octagonal concrete tower; R. 035°-095°, W.-104°, R.-170°. 21.	
1566 F 7399.5	Kottai Ko, breakwater.	34° 18.6' N 130° 53.4' E	Fl.R. period 3s	42 13	12	Red concrete tower; 31.	
1566.1 F 7399.2	-Middle point.	34° 18.9' N 130° 53.6' E	Fl.(2)R. period 6s	30 9	6	Red tower; 18.	
1568 F 7397	Tsuno Shima.	34° 21.0' N 130° 50.6' E	Fl.W. period 5s	148 45	18	Round granite tower; 99. Visible 352°-232°. Storm signals. F.W. illuminates Kuzu Se about 1.1 km. NNW.	
1570 F 7397.5	Tsunoshima Ko, breakwater.	34° 20.6' N 130° 51.6' E	Fl.G. period 3s	30 9	5	White tower; 18.	
1572	-Tsuno Shima.	34° 21.7' N 130° 52.8' E	F.W.	197 60		White square concrete tower; 43. Two spotlights.	
1576 F 7395.4	Yuya Ka Agawa, breakwater, head.	34° 21.0' N 130° 56.0' E	F.FI.G. period 3s	33 10	F. 5 Fl 11	White round concrete structure; 28.	
1580 F 7395.6	Awano, breakwater, head.	34° 22.0' N 130° 58.5' E	Fl.G. period 3s	39 12	6	White tower; 33.	
1584 F 7396	Nagato I Se.	34° 21.5' N 130° 53.7' E	Fl.W. period 3s	59 18	12	White round concrete structure; 43.	
1588 F 7395.8	-Kakehuti, W. breakwater, head.	34° 22.5' N 131° 02.2' E	F.FI.(2)G. period 6s	36 11	F. 5 Fl 11	White round concrete structure; 32.	
1592 F 7395	Kuzu Ko, breakwater.	34° 24.3' N 130° 58.3' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
1594 F 7395.2	Oura Gyoko.	34° 24.2' N 130° 57.6' E	Oc.R. period 8s	26 8	7		
1596	-Yuya Ko.	34° 23.3' N 130° 56.6' E	F.W.	312 95		White round concrete structure; 36. Illuminates beacon on Funase about 0.5 mile SSW.	
1600 F 7394	Yuya Wan.	34° 23.6' N 130° 56.0' E	Oc.(2)W. period 12s	131 40	17	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
	KUZU KO:						
1604 F 7392	-Nagato Kawazivi.	34° 26.3' N 130° 58.5' E	Iso.W. period 6s	230 70	20	White tower; 28.	
1612 F 7391	-No. "2" breakwater.	34° 25.1' N 131° 00.4' E	Iso.G. period 6s	36 11	11	White round concrete tower; 28.	
1616 F 7390.5	Kawaziri, breakwater.	34° 25.1' N 131° 00.5' E	Fl.R. period 3s	56 17	13	Red tower; 32.	
1620 F 7388	Ima Misaki.	34° 24.8' N 131° 08.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	246 75	20	White round concrete tower; 22.	
1624 F 7389.5	Kiwada Ko, N. breakwater, head.	34° 23.5' N 131° 08.4' E	F.Fl.(2)R. period 7s	46 14	F. 6 Fl 11	Red tower; 28.	
1628 F 7377	Ushibata Hana.	34° 26.0' N 131° 15.3' E	Iso.W. period 8s	341 104	20	White round tower; 30.	
1632 F 7378	Hagi Ai Shima.	34° 30.8' N 131° 16.7' E	Fl.(2)W. period 21s	184 56	20	White tower; 34.	Visible 028°-287°.
1634 F 7378.2	-S. head.	34° 29.8' N 131° 17.0' E	Fl.R. period 3s	32 10	3	Red tower; 18.	
1636 F 7379	O Shima.	34° 25.1' N 131° 16.0' E	Fl.W. period 5s	56 17	6	White tower; 22.	
1640 F 7378.6	Kayoi Ko, N. breakwater, head.	34° 25.2' N 131° 15.3' E	Oc.G. period 8s	26 8	6	White tower; 19.	
1644 F 7378.8	Kayoi Ko Tanoura, breakwater.	34° 25.3' N 131° 15.0' E	F.Fl.R. period 3s	39 12	F. 6 Fl 11	Red round concrete structure; 31.	
1648 F 7378.9	Ohibi, breakwater.	34° 24.5' N 131° 12.8' E	Fl.G. period 5s	25 8	6	White round concrete structure; 19.	
1652 F 7382	Senzaki Ko Benten Shima, N. breakwater.	34° 23.6' N 131° 12.3' E	Iso.G. period 4s	26 8	6	White round tower; 24.	
1656 F 7381.8	-No. "1" breakwater, head.	34° 23.6' N 131° 12.5' E	F.Fl.G. period 4s	36 11	F. 6 Fl 11	White tower; 31.	
1660 F 7381.9	-No. "2" breakwater, head.	34° 23.3' N 131° 12.5' E	F.Fl.(2)R. period 8s	39 12	F. 8 Fl 11	Red round concrete structure; 31.	
1664 F 7382.2	-S. breakwater, head.	34° 23.4' N 131° 12.4' E	F.Fl.(2)G. period 8s	39 12	F. 5 Fl 11	Red round concrete tower; 31.	
1668 F 7384	-Ozi Hana.	34° 23.7' N 131° 11.9' E	Fl.(2)W. period 6s	24 7	10	White round tower; 19.	
1672 F 7389	-Nagato Minato Ko, breakwater, head.	34° 22.6' N 131° 10.9' E	Oc.R. period 8s	39 12	11	Red round concrete structure; 28.	
1676 F 7389.2	--E. breakwater.	34° 22.6' N 131° 10.9' E	F.Fl.G. period 4s	42 13	F. 5 Fl 12	White round concrete structure; 31.	
1680 F 7386	Nobase Ko, W. breakwater.	34° 22.8' N 131° 15.1' E	Iso.R. period 6s	25 8	7	Red tower; 19.	
1684 F 7380	Sanmi Ko, W. breakwater.	34° 23.7' N 131° 19.8' E	Iso.G. period 6s	36 11	11	White tower; 28.	
1688	Tamae Ko.	34° 25.0' N 131° 22.0' E	Fl.(2)R. period 8s	49 15	12	Red round concrete tower; 31.	Auxiliary F. light illuminates N. head of breakwater about 90 yards ENE.
1692 F 7361	Toraga Saki.	34° 27.4' N 131° 24.0' E	Fl.W. period 4s	49 15	12	White tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
HAGI KO:							
1696 F 7362	-Kitsune Shima, N. side.	34° 26.3' N 131° 25.0' E	Oc.W.R. period 8s lt. 6s, ec. 2s	69 21	14	White round structure; 39.	R. 092°-116°, W.-092°.
1700	-Fishery Harbor, E. breakwater.	34° 25.0' N 131° 25.0' E	F.FI.G. period 5s	36 11	F. 5 Fl 11	White round tower, quadrangular base; 28.	
1704 F 7363.6	--W. breakwater.	34° 25.5' N 131° 24.8' E	Fl.R. period 4s	36 11	11	Red round concrete tower; 31.	
1708 F 7363.8	-Hamasaki, breakwater.	34° 25.3' N 131° 24.1' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	11	Red tower; 26.	
1712 F 7363.7	-N. breakwater, N. head.	34° 25.3' N 131° 24.0' E	Fl.R. period 3s	33 10	6	Red round concrete structure; 19.	
1716 F 7364	-Tsurenодai.	34° 25.2' N 131° 24.1' E	F.G.	24 7	3	White round concrete tower; 16.	
1720 F 7361.4	Yunagi, breakwater.	34° 26.5' N 131° 24.8' E	Oc.R. period 4s lt. 3s, ec. 1s	43 13	12	Red tower; 31.	
1722 F 7362.5	-Breakwater.	34° 26.0' N 131° 24.9' E	Iso.R. period 6s	39 12	12	Red tower; 28.	
1724	Oi Ko, breakwater.	34° 29.0' N 131° 27.0' E	Fl.R. period 4s	36 11	9	Red round concrete structure; 28.	
1726 F 7361.2	Hagi Gyoko.	34° 26.9' N 131° 25.1' E	F.FI.(2)R. period 6s	46 14	F. 6 Fl 12	Red tower; 31.	
1728 F 7360.9	Akabose, breakwater, head.	34° 29.2' N 131° 25.0' E	Iso.R. period 8s	22 7	7	Red tower; 19.	
1730 F 7360.85	Uyama Misaki.	34° 28.4' N 131° 26.2' E	Fl.R. period 5s	23 7	4	STARBOARD (B) R, beacon, topmark; 22.	
1732 F 7360.7	Nago Ko, breakwater.	34° 29.8' N 131° 28.0' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
1736 F 7360.6	Ohira Se.	34° 31.0' N 131° 28.0' E	Iso.W. period 6s	459 140	20	White round concrete structure.	
1740 F 7360.5	Udago Kolmaura, breakwater, head.	34° 33.7' N 131° 32.5' E	Fl.G. period 3s	42 13	12	White round concrete structure; 32.	
MI SHIMA:							
1744 F 7375	-Mi Shima, Makatano Hana.	34° 45.0' N 131° 10.0' E	Fl.G. period 4s	39 12	11	White round concrete structure; 28.	
1748 F 7370	-Mi Shima.	34° 45.0' N 131° 09.0' E	Fl.W. period 4s	266 81	20	White round concrete tower; 46.	
1754 F 7372.4	-E. breakwater, head.	34° 45.3' N 131° 09.2' E	Fl.(2)G. period 8s	56 17	8	White tower; 33.	
1756 F 7373	-Refuge Harbor, E. breakwater.	34° 45.0' N 131° 09.0' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 28.	
1758 F 7374	-W. breakwater.	34° 45.5' N 131° 09.4' E	F.FI.R. period 4s	46 14	F. 8 Fl 12	Red tower; 33.	
1760 F 7369.6	-Utu Oware, breakwater.	34° 46.8' N 131° 09.2' E	F.FI.(2)R. period 6s	46 14	F. 6 Fl 12	Red round metal structure; 29.	
1764 F 7368	-N. head.	34° 48.0' N 131° 08.0' E	Fl.(2)W. period 30s 2 fl. 10s, ec. 20s	187 57	20	White quadrangular concrete tower; 46.	Visible 022°-307°.
1768 F 7369	-Utsu Ko, N. breakwater, head.	34° 46.8' N 131° 08.9' E	Fl.R. period 4s	23 7	3	Red tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1776 F 7360.4	-N. breakwater.	34° 37.2' N 131° 36.2' E	Oc.R. period 8s Lt. 6s, ec. 2s	27 8	7	Red concrete structure; 19.	
1780 F 7360	Susa Ko, on Tenjin Shima.	34° 37.7' N 131° 35.0' E	Fl.W. period 3s	171 52	12	White round concrete tower; 25.	
1784 F 7359	Koyama Misaki.	34° 40.0' N 131° 37.0' E	Fl.W. period 15s	305 93	24	White square concrete tower; 39.	Visible 060°-257°.
1788 F 7358	Esaki Ko, Ryuzin Saki.	34° 39.0' N 131° 38.9' E	Oc.W. period 8s	36 11	11	White round concrete tower; 30.	
1792 F 7358.4	-Range, front.	34° 39.0' N 131° 39.0' E	F.G.	19 6	9	White round concrete tower, arrow topmark; 16.	
1796 F 7358.41	--Rear.	34° 38.5' N 131° 38.5' E	F.G.	33 10	11	White round concrete tower, arrow topmark; 32.	
1800 F 7357	Iinoura Ko, N. breakwater.	34° 40.4' N 131° 42.3' E	F.Fl.(2)R. period 10s 2 fl. 3s, ec. 7s	49 15	F. 6 Fl. 12	Red round concrete structure; 31.	
1804 F 7352.4	Taka Shima.	34° 50.0' N 131° 50.0' E	Fl.W. period 8s	413 126	19	White round concrete tower; 49.	
1808 F 7355	Iwami Ohama Ko, N. breakwater.	34° 44.4' N 131° 52.4' E	Fl.R. period 3s	31 9	6	Red tower; 18.	
1812 F 7354	Uomachino Hana.	34° 45.0' N 131° 52.0' E	Iso.W. period 6s	112 34	16	White round concrete tower; 36.	
1816	Sutsu Ko Oki, breakwater.	34° 46.0' N 131° 55.0' E	F.Fl.R. period 6s	36 11	F. 6 Fl. 11	Red round concrete tower; 31.	
1820 F 7351.5	Hamada Ko, N.	34° 51.0' N 132° 01.0' E	Iso.G. period 4s	43 13	12	White round concrete tower; 31.	
1824 F 7348	Uma Shima.	34° 54.0' N 132° 02.9' E	Fl.(2)W. period 12s 2 fl. 4s, ec. 8s	112 34	16	White round brick tower; 31.	Visible 357°-229°. Auxiliary F.W. shows only over Koise Shima.
1828 F 7349	Shakkuri, Hamada Ko.	34° 53.2' N 132° 02.5' E	Fl.(2)W. period 5s	59 18	12	ISOLATED DANGER BRB, beacon, topmark; 52.	
1832 F 7349.15	-Breakwater, head.	34° 53.7' N 132° 03.3' E	Fl.(2)G. period 6s	46 14	3	White tower; 31.	
1838 F 7349.3	-W. Offing breakwater, head.	34° 53.4' N 132° 03.5' E	F.Fl.(2)R. period 6s	43 13	F. 6 Fl. 12	Red round concrete tower; 28.	
1840 F 7349.2	-Breakwater, head.	34° 53.7' N 132° 03.5' E	Fl.R. period 4s	46 14	3	Red tower; 31.	
1844 F 7348.5	Hamada Ko.	34° 53.6' N 132° 03.6' E	Iso.G. period 6s	46 14	12	White round concrete tower; 31.	F.W. illuminates danger 120 meters WSW.
1848 F 7351	-W. breakwater, head.	34° 52.6' N 132° 03.0' E	Iso.R. period 4s	43 13	12	Red round concrete structure; 31.	
1850	-RAMARK.	34° 52.7' N 132° 02.3' E			25		Radio beacon. DGPS Station.
1852 F 7347.4	Togane Ko, S. breakwater.	34° 56.0' N 132° 07.0' E	F.Fl.R. period 6s	39 12	F. 6 Fl. 11	Red round concrete tower; 31.	
1856 F 7347	Iwami Osaki Hana.	34° 58.4' N 132° 09.3' E	Fl.W. period 10s	236 72	22	White round concrete structure; 52.	Visible 054°-226°.
1860 F 7346.5	Gosu.	35° 01.7' N 132° 14.2' E	Iso.W. period 6s	213 65	20	White round concrete tower; 33.	F.W. at Waki 2M SW. Spotlight illuminates training wall head, 78 meters WSW.
1864 F 7346.4	Kuromatsu Ko, breakwater.	35° 04.0' N 132° 19.0' E	F.Fl.G. period 3s	46 14	F. 5 Fl. 12	White round tower; 31.	
1868 F 7346	Yunotsu Ko.	35° 05.7' N 132° 20.5' E	Fl.W.R. period 2s	223 68	20	White round concrete tower; 33.	R. 129°-181°, W. elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1872 <i>F 7346.2</i>	-E. breakwater.	35° 05.6' N 132° 20.5' E	F.FI.G. period 6s	39 12	F. 5 Fl 11	White tower; 28.	
1876 <i>F 7345</i>	Nima Ko, offing breakwater.	35° 09.3' N 132° 24.0' E	F.FI.G. period 3s	46 14	F. 5 Fl 12	White round concrete tower; 39.	
1880 <i>F 7344</i>	Nima Ko, E. breakwater, head.	35° 09.0' N 132° 24.0' E	F.G.	36 11	11	White round concrete structure; 32.	
1884 <i>F 7343.6</i>	Takuno Ko, W. breakwater.	35° 09.9' N 132° 24.3' E	Oc.R. period 4s	46 14	12	Red round concrete tower; 31.	
1888 <i>F 7342</i>	O Misaki.	35° 11.0' N 132° 25.0' E	Fl.W. period 6s	226 69	21	White round concrete tower; 43.	
1892 <i>F 7343</i>	-Isotake Ko Kagami-ga Hana, breakwater.	35° 11.0' N 132° 25.0' E	Iso.G. period 6s	46 14	12	White round concrete tower; 43.	
1896 <i>F 7343.2</i>	--Tomari-ga-Hana, breakwater.	35° 11.0' N 132° 25.4' E	Iso.R. period 6s	30 9	10	Red round concrete tower; 28.	
1900 <i>F 7341.4</i>	Wae Ko, offing breakwater.	35° 12.6' N 132° 28.2' E	F.FI.G. period 3s	43 13	F. 5 Fl 12	White round concrete structure; 28.	
1904 <i>F 7341</i>	Kute Ko, W. breakwater.	35° 14.0' N 132° 30.0' E	F.FI.R. period 4s	39 12	F. 6 Fl 11	Red round concrete structure; 31.	
1912 <i>F 7341.2</i>	-N. breakwater.	35° 13.7' N 132° 30.2' E	Fl.G. period 3s	43 13	8	White round concrete tower; 28.	
1916 <i>F 7338</i>	-Tategami Hana.	35° 14.6' N 132° 31.8' E	Fl.(4)W. period 15s 4 fl. 7s, ec. 8s	305 93	20	White round concrete tower; 33.	
1920 <i>F 7339</i>	Hane Higasi Ko, S. breakwater.	35° 14.5' N 132° 31.8' E	Oc.R. period 4s	36 11	11	Red round concrete tower; 31.	
1922 <i>F 7337.6</i>	Oda Ko.	35° 16.6' N 132° 36.3' E	Fl.R. period 3s	28 9	6	Red concrete tower; 19.	
TAISHA KO:							
1924 <i>F 7336</i>	-W. jetty, head.	35° 24.0' N 132° 40.0' E	Iso.G. period 4s	27 8	6	White round concrete structure; 26.	
1928 <i>F 7336.4</i>	-E. breakwater, head.	35° 23.9' N 132° 40.0' E	Fl.R. period 4s	43 13	12	Red round concrete structure; 27.	
1932 <i>F 7337</i>	-Outer breakwater, S. head.	35° 23.8' N 132° 39.9' E	F.FI.G. period 4s	39 12	F. 7 Fl 11	White round concrete structure; 32.	
1936 <i>F 7334</i>	Hino Misaki.	35° 25.8' N 132° 37.9' E	AI.FI.(2+1)W.R. period 20s	207 63	21	White round stone tower; 145.	Visible 024°-245°. F. light close NE. illuminates Saka Guri to N.
1940 <i>F 7335</i>	Uryo Ko breakwater.	35° 25.8' N 132° 38.5' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	11	White round concrete tower; 31.	
1944 <i>F 7333.5</i>	Sagiura.	35° 27.0' N 132° 41.0' E	Fl.W. period 4s	187 57	20	White round concrete tower; 27.	
1948 <i>F 7333.7</i>	-Breakwater.	35° 26.3' N 132° 41.3' E	F.FI.G. period 3s	39 12	F. 5 Fl 11	White round concrete tower; 31.	
1952 <i>F 7333.2</i>	-Breakwater, head.	35° 27.2' N 132° 45.0' E	Iso.G. period 6s	43 13	12	White concrete structure; 31.	
1956 <i>F 7333</i>	Oppurui Hana.	35° 28.0' N 132° 43.9' E	Fl.(3)W. period 13s	213 65	20	White round concrete tower; 20.	
1958 <i>F 7332</i>	Siotu Ko.	35° 28.6' N 132° 46.9' E	F.FI.R. period 5s	46 14	F. 6 Fl 12	Red round concrete tower; 36.	
1960 <i>F 7331</i>	Nagaoka Hana.	35° 30.0' N 132° 50.1' E	Iso.W. period 6s	249 76	20	White round concrete tower; 33.	

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JAPAN-HONSHU-NORTHWEST COAST							
ETOMO KO:							
1964 F 7331.5	-Koizu Ko, N. breakwater.	35° 30.0' N 132° 50.0' E	F.I.R. period 3s	39 12	11	Red round concrete structure; 28.	
1968 F 7327	-Oki breakwater, head.	35° 31.3' N 132° 58.2' E	Iso.G. period 6s	56 17	13	White structure; 46.	
1972 F 7328	-S. breakwater.	35° 31.3' N 132° 58.5' E	F.FI.R. period 6s	36 11	F. Fl 11	Red round concrete tower; 31.	
1976 F 7325	-Etomo.	35° 32.4' N 132° 58.3' E	Oc.W. period 8s lt. 5s, ec. 3s	190 58	20	White round concrete tower; 31.	
1980 F 7325.4	--E. breakwater, head.	35° 32.3' N 132° 58.2' E	Oc.G. period 5s lt. 4s, ec. 1s	39 12	11	White round structure; 31.	F.W. light illuminates reef 140 meters N.
1984 F 7326	-Kataku, E. breakwater.	35° 32.2' N 132° 59.2' E	F.FI.G. period 3s	39 12	F. Fl 5 11	White round tower; 31.	F.W. illuminates head of W. breakwater.
1988 F 7324.7	Mizu Ko.	35° 32.3' N 133° 01.8' E	Iso.G. period 6s	43 13	12	White round concrete structure; 31.	
1992 F 7324.6	Mizu Ko, W. offing, breakwater.	35° 32.2' N 133° 01.8' E	Iso.R. period 6s	42 13	12	Red round concrete structure; 31.	
1996 F 7324.5	Kaga Ko.	35° 33.9' N 133° 03.4' E	F.FI.R. period 3s	43 13	F. Fl 6 12	Red round concrete structure; 33.	
2000 F 7324.4	Kukedo Hana.	35° 34.5' N 133° 03.1' E	Oc.W. period 4s	112 34	16	White round concrete tower; 33.	
2004 F 7324	Tako Hana.	35° 36.0' N 133° 05.5' E	FI.W. period 10s	371 113	26	White round concrete tower; 23.	Visible 059°-285°.
2006	Zizo Saki, breakwater.	35° 35.2' N 133° 07.0' E	FI.R. period 4s	30 9	6	Red tower; 22.	
2008 F 7318.6	Noi Ko offing, breakwater.	35° 34.9' N 133° 07.4' E	F.FI.G. period 4s	39 12	F. Fl 6 11	White round concrete structure; 31.	
2010 F 7318	Kasaura Ko.	35° 34.4' N 133° 08.3' E	FI.G. period 3s	23 7	6	White tower; 17.	
2012 F 7318.4	Tunowa Hana.	35° 34.8' N 133° 08.5' E	Oc.(2)W. period 6s	112 34	16	White round concrete structure; 33.	F.W. illuminates islet 250 meters ENE.
2016 F 7314	Shichirui Ko.	35° 35.0' N 133° 15.0' E	FI.(3)W. period 13s	148 45	18	Round concrete structure, red and white bands; 36.	F.W. light illuminates beacon on Fuma Shima 330 meters NE.
2020 F 7315	Tsuriboko Yama.	35° 34.3' N 133° 15.2' E	Iso.W. period 6s	400 122	17	White round concrete tower; 25.	
2024 F 7315.2	Schichirui Ko, detached breakwater.	35° 34.3' N 133° 14.3' E	F.FI.G. period 5s	36 11	F. Fl 5 11	White round concrete tower on quadrangular base; 31.	
2028 F 7315.4	Sii Ya, breakwater, head.	35° 34.3' N 133° 13.9' E	Iso.R. period 4s	33 10	7	Red round concrete tower; 28.	
OKI RETTO:							
2032 F 7321.2	-Oki Okini Saki, on Saigo Misaki.	36° 21.0' N 133° 17.0' E	FI.W. period 5s	269 82	12	White round concrete tower; 43.	
2036 F 7321.25	-Oki Syoto.	36° 20.2' N 133° 17.1' E	FI.W. period 15s	846 258	37	White round concrete tower on square base; 52.	Visible 081°-293°.
-RAMARK							
2040 F 7321.16	-Nakamura Ko, breakwater, head.	36° 19.5' N 133° 19.1' E	FI.(2)R. period 6s	49 15	10	Red tower; 37.	
2044 F 7321.14	-Sakiyama Misaki.	36° 18.0' N 133° 22.0' E	Iso.W. period 6s	308 94	20	White round concrete structure; 33.	F.W. illuminates rock 700 meters SE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2046 F 7321.12	Huse Ko.	36° 17.4' N 133° 21.9' E	Fl.R. period 3s	33 10	6	Red concrete structure; 22.	
2048 F 7321.1	-Kuroshima Saki.	36° 16.0' N 133° 23.3' E	Fl.(3)W. period 13s	98 30	15	White round concrete structure;	F.W. illuminates Kabi Sima about 500 meters ENE.
2052 F 7320.8	-Ikeziri Saki.	36° 12.0' N 133° 22.0' E	Fl.W. period 3s	354 108	12	White round concrete structure.	
2056 F 7320.2	-Saigo Ko, Hime Sima.	36° 11.6' N 133° 20.5' E	Mo.(A)R. period 8s	39 12	9	STARBOARD (B) R, beacon, topmark; 36.	
2060 F 7320.4	-Saigo Wan, detached breakwater, E. head.	36° 12.0' N 133° 20.0' E	Fl.G. period 3s	31 9	8	White round concrete tower; 28.	
2064 F 7320	-Shiro Saki, Dogo, SE. point.	36° 10.0' N 133° 21.0' E	Fl.(2)W. period 30s 2 fl. 8s, ec. 22s	361 110	26	White square concrete tower;	Visible 173°-082°. 36.
2068 F 7319.8	-Imazu Ko, W. breakwater.	36° 10.0' N 133° 19.0' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	11	White round concrete structure;	31.
2069	-Siziki Sima, W. breakwater.	36° 10.2' N 133° 17.0' E	Fl.(2)G. period 6s	26 8	5	White tower; 16.	
2070 F 7319.75	-Tudo Ko, breakwater.	36° 09.8' N 133° 14.7' E	Fl.G. period 3s	26 8	6	White tower; 31.	
2072 F 7319.7	-Oki Syaguri.	36° 09.6' N 133° 14.7' E	Fl.(2)W. period 5s	49 15	9	ISOLATED DANGER BRB, beacon, topmark; 43.	
2076 F 7319.5	-Shijiki Shima.	36° 09.0' N 133° 14.0' E	Fl.W. period 5s	92 28	12	White round concrete structure;	43.
2080 F 7321.5	-Tsuma Ko, breakwater.	36° 11.0' N 133° 14.0' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	11	White round concrete structure;	31.
2082 F 7321.42	-Breakwater, head.	36° 12.6' N 133° 11.8' E	Fl.R. period 5s	26 8	7		
2084 F 7321.4	-Nagu Saki.	36° 12.7' N 133° 11.1' E	Fl.W. period 5s	151 46	7	White round concrete tower; 39.	
2088 F 7321.3	-Mi Saki.	36° 17.0' N 133° 11.0' E	Fl.W. period 4s	197 60	20	White round concrete structure;	33.
DOZEN:							
2092 F 7323	-Chiburi Jima.	36° 00.0' N 133° 04.0' E	AI.FI.W.R. period 20s	519 158	W. R.	30	White round concrete tower; 39.
2096 F 7323.2	-Tibu Ko.	36° 00.1' N 133° 02.9' E	Mo.(A)R. period 9s	33 10	11	STARBOARD (B) R, beacon, topmark; 30.	
2098 F 7323.21	--W. breakwater.	36° 00.1' N 133° 02.1' E	Iso.G. period 4s	26 8	6	White concrete tower; 19.	
2100 F 7323.24	-Kurii Ko, breakwater.	36° 01.4' N 133° 02.6' E	F.FI.G. period 3s	46 14	F. FI	12	White round concrete tower; 36.
2104 F 7323.5	-Akanada Hana.	36° 02.0' N 133° 00.0' E	Iso.W. period 6s	72 22	14	White round concrete tower; 22.	
2108 F 7323.8	-Mitabe Ko, breakwater.	36° 04.0' N 132° 57.0' E	Oc.G. period 4s	39 12	11	White round concrete structure;	31.
2112 F 7323.7	-Mitabe Misaki.	36° 03.8' N 132° 57.0' E	Fl.W. period 12s	410 125	27	White quadrangular concrete structure; 32.	Visible 306°-184°.
2116 F 7323.4	-Urago Ko, breakwater.	36° 06.4' N 133° 00.5' E	Iso.R. period 4s fl. 3s, ec. 1s	39 12	11	Red round concrete structure;	31.
2118 F 7323.42	--Inner breakwater.	36° 05.4' N 133° 00.4' E	F.G.	33 10	11	White concrete structure; 33.	Visible 208°-064°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2120 F 7323.36	-Urago Ko, Benten, breakwater.	36° 05.0' N 133° 00.0' E	F.FI.R. period 5s	32 10	F. 6 Fl 11	Red round concrete tower; 28.	
2124 F 7323.44	-Urago Ko, breakwater.	36° 05.0' N 132° 59.0' E	Oc.G. period 4s	36 11	11	White round concrete structure; 31.	
2128 F 7323.6	-Mugiyama Hana.	36° 04.0' N 133° 02.0' E	FI.R. period 3s	125 38	9	Red round concrete structure; 33.	
2132 F 7322.6	-Saki Ko, breakwater.	36° 02.9' N 133° 05.5' E	F.FI.G. period 5s	36 11	F. 5 Fl 11	White round concrete tower; 31.	
2136 F 7322	-Takada Hana.	36° 02.8' N 133° 06.3' E	Iso.W. period 6s	346 105	20	White round concrete tower; 24.	
2140 F 7322.8	-Kiroga Saki.	36° 01.9' N 133° 04.3' E	FI.W. period 5s	134 41	12	White round concrete structure; 39.	
2144	-Matsuga Saki.	36° 06.0' N 133° 04.0' E	FI.W. period 3s	43 13	9	White round concrete structure.	
2148 F 7321.77	-Kamo Sima.	36° 06.9' N 133° 05.5' E	Fl.(2)W. period 5s	46 14	9	ISOLATED DANGER BRB, beacon, topmark; 40.	
2152 F 7321.7	-Komori Sima.	36° 07.5' N 133° 07.4' E	Fl.(3)W. period 12s	200 61	12	White quadrangular tower; 23.	
2156 F 7321.94	-Titii Ko, breakwater.	36° 04.5' N 133° 07.0' E	F.FI.G. period 4s	36 11	F. 5 Fl 11	White round concrete structure; 31.	
2160 F 7321.9	-Titii Misaki.	36° 04.3' N 133° 09.3' E	Fl.(3)W. period 15s	92 28	15	Red concrete structure, white bands; 33.	
2164 F 7321.74	-Lki Shoto.	36° 07.0' N 133° 08.0' E	FI.W. period 5s	262 80	20	White round concrete structure;	F.W. illuminates reef close NE. 31.
2166 F 7321.8	-Oki Toyoda Ko, N. breakwater.	36° 06.2' N 133° 07.9' E	Oc.R. period 4s	42 13	12	Red round concrete tower; 31.	
2168 F 7315.6	Okino-gozen Shima.	35° 35.2' N 133° 21.2' E	FI.W. period 3s	46 14	12	White round concrete tower; 32.	
MIHO WAN:							
2172 F 7316	-Jizo Zaki.	35° 33.8' N 133° 19.6' E	FI.W. period 12s	271 83	23	White round stone tower; 46.	Visible 115°-052°.
-RAMARK							
2176 F 7317	-Mihonoseki Ko, E. breakwater.	35° 33.4' N 133° 18.7' E	Iso.R. period 6s	36 11	11	Square stone structure 27.	
2180 F 7294	-Sakai Ko, S. breakwater, head.	35° 33.0' N 133° 16.0' E	Iso.W. period 6s	43 13	12	White round concrete tower; 46.	
2182 F 7294.5	Sakai Ko.	35° 32.7' N 133° 16.7' E	FI.G. period 3s	52 16	11	White tower; 46.	
2184 F 7296	-Directional light 255°30'.	35° 32.7' N 135° 14.5' E	Dir.Oc.W.R.G. period 5s Lt. 4s, ec. 1s	59 18	W. 12 R. 10 G. 11	White round fiberglass structure, red bands; 66. R. 253°54'-254°54', W.- 256°06', G.-257°06'. Iso.Y. 2s above main light.	
2188 F 7297	-Sakai Ko Nakano, No. "1" breakwater, head.	35° 31.7' N 133° 15.1' E	Oc.R. period 4s Lt. 3s, ec. 1s	36 11	7	Red tower; 31.	
2190	-Inner breakwater.	35° 30.7' N 133° 15.4' E	FI.R. period 3s	25 8	3	Red tower; 16.	
NAKANO UMI:							
2192 F 7306	-Kame Sima.	35° 26.3' N 133° 15.6' E	FI.W. period 4s	39 12	11	White round concrete tower; 29.	
2196 F 7307	-Yasugi Ko, S. breakwater.	35° 26.0' N 133° 16.0' E	F.FI.R. period 5s	30 9	F. 6 Fl 11	Red round concrete tower; 28.	

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JAPAN-HONSHU-NORTHWEST COAST							
2200 F 7308	-Yonago Ko, breakwater, head.	35° 25.7' N 133° 19.2' E	Iso.G. period 4s	27 8	10	White round concrete tower; 25.	
2204 F 7305	-Sakitsu Ko, breakwater.	35° 28.2' N 133° 15.0' E	Fl.(2)G. period 6s	30 9	6	White tower; 28.	
2208 F 7300	Miho Wan AVIATION LIGHT.	35° 30.0' N 133° 14.0' E	Al.FI.W.G. period 10s	118 36		Metal framework tower; 101.	
2212 F 7304	-Suraga Hana.	35° 32.0' N 133° 12.0' E	Fl.R. period 3s	40 12	9	Red round concrete structure; 33.	
2216 F 7293.5	Yodoe Ko, N. breakwater.	35° 27.6' N 133° 25.7' E	Iso.G. period 4s	43 13	12	White round concrete tower; 29.	F.W. illuminates head of W. breakwater.
2220 F 7293	Mikuriya, W. breakwater.	35° 30.6' N 133° 29.8' E	Fl.(2)G. period 6s	29 9	6	White round concrete tower; 18.	
2224 F 7292	Misaki Ko, breakwater.	35° 31.6' N 133° 35.7' E	Iso.R. period 4s	49 15	12	Red round concrete structure; 33.	
2228 F 7290	Akasaki Ko, E. breakwater, head.	35° 30.5' N 133° 39.7' E	Oc.G. period 8s	36 11	6	White round concrete tower; 31.	
2232 F 7290.2	-W. breakwater.	35° 30.6' N 133° 39.8' E	Fl.R. period 3s	49 15	9	Red round concrete tower; 31.	
2236 F 7289.2	Tomari Ko.	35° 30.9' N 133° 56.7' E	Fl.W. period 4s	115 35	16	White round concrete structure, square base; 33.	F.W. illuminates reef 150 meters NW.
2240 F 7289.4	-W. breakwater.	35° 30.8' N 133° 56.4' E	Fl.R. period 4s	43 13	5	Red round concrete structure; 31.	
2244 F 7289.3	-N. breakwater.	35° 30.9' N 133° 56.4' E	Fl.G. period 4s	39 12	3	White round concrete tower; 36.	
2248 F 7289.14	Nakose Ko, breakwater.	35° 31.0' N 133° 58.0' E	Iso.G. period 6s	36 11	11	White round concrete structure; 31.	F.W. illuminates NE. end of breakwater.
2252 F 7289.1	Natsudomari Ko, breakwater.	35° 31.6' N 134° 00.1' E	Fl.G. period 3s	52 16	12	White tower; 28.	
2256 F 7289	Nagao Hana.	35° 32.0' N 134° 01.0' E	Fl.W. period 8s	223 68	21	White round concrete tower; 43.	Visible 052°-305°.
2260 F 7288.9	Funaiso Ko, E. breakwater.	35° 31.0' N 134° 01.0' E	F.FI.G. period 7s	39 12	F. 5 Fl 11	White round concrete structure; 31.	
2264 F 7288.6	Sakenotsu Ko.	35° 31.3' N 134° 05.5' E	Fl.W. period 3s	194 59	17	White round concrete tower; 25.	
2268 F 7288.8	-E. No. "3" breakwater.	35° 31.3' N 134° 05.5' E	Oc.G. period 4s Lt. 3s, ec. 1s	39 12	11	White round concrete tower; 31.	F.W. illuminates breakwater head 60 meters westward.
2276 F 7287.5	-Toriga Shima.	35° 32.0' N 134° 11.0' E	Iso.W. period 6s	105 32	16	White round concrete tower; 36.	
2280	-Outer breakwater.	35° 32.8' N 134° 11.3' E	Fl.R. period 4s	56 17	11	Red round concrete tower; 39.	
2286 F 7287.6	-Breakwater.	35° 32.6' N 134° 11.7' E	F.FI.G. period 4s	42 13	F. 5 Fl 12	White concrete structure; 28.	
2288 F 7287	-NE. breakwater.	35° 32.6' N 134° 11.3' E	F.FI.(2)R. period 8s	42 13	F. 9 Fl 12	Red round concrete tower; 28.	
2292 F 7286.4	Iwato Ko.	35° 33.8' N 134° 16.6' E	Iso.G. period 6s	46 14	12	White round concrete tower; 29.	
AZIRO KO:							
2296 F 7286	-Aziro Saki.	35° 35.0' N 134° 17.8' E	Fl.W. period 12s	344 105	25	White round concrete tower; 27.	
2298 F 7285.5	-W. breakwater.	35° 34.7' N 134° 17.4' E	Oc.R. period 4s	33 10	7	Red tower; 19.	

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JAPAN-HONSHU-NORTHWEST COAST							
2300 F 7284	-N. breakwater, head.	35° 34.8' N 134° 17.5' E	Fl.G. period 3s	49 15	12	White round concrete tower; 36.	
2304 F 7285	--S. breakwater, head.	35° 34.8' N 134° 17.6' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 33.	
TAZIRI KO:							
2308 F 7283.9	-Taziri.	35° 35.6' N 134° 19.1' E	Oc.W. period 4s	108 33	16	White round structure; 31.	
2312 F 7283.96	--Breakwater No. "5".	35° 35.3' N 134° 19.1' E	Fl.G. period 3s	39 12	11	White round concrete structure; 31.	
2316 F 7283.94	-U Shima.	35° 35.6' N 134° 19.3' E	Fl.R. period 3s	46 14	12	Red tower; 30.	
2320 F 7283.85	Obaneo.	35° 36.0' N 134° 21.0' E	Iso.W. period 8s	246 75	20	White round concrete tower; 25.	
IKUMI KO:							
2324 F 7283.84	-Hudosan.	35° 36.7' N 134° 23.3' E	F.FI.R. period 4s	36 11	F. Fl	8	White round concrete tower; 33. F.W. auxiliary light.
2328 F 7283.8	-Beacon on rock.	35° 37.0' N 134° 23.0' E	Fl.W. period 5s	217 66	20	White round concrete tower; 36.	F.W. light illuminates the beacons on Yoko Sima rocky reef and Koburi Sima.
MOROYOSE KO:							
2332 F 7283.6	-Hiyori Yama.	35° 37.1' N 134° 25.7' E	Iso.W. period 6s	144 44	18	White tower; 30.	F.W. light illuminates the beacon on drying rock about 200 meters 003°.
2336 F 7283.7	-N. detached breakwater, S. head.	35° 37.1' N 134° 25.9' E	Iso.R. period 6s	42 13	12	Red round concrete tower; 27.	
2340 F 7283.57	Yazyoga Hana.	35° 37.9' N 134° 26.5' E	Oc.(2)W. period 6s	243 74	20	White tower; 33.	
2344 F 7283.59	Hamaska Ko, E. breakwater.	35° 37.8' N 134° 26.7' E	Oc.G. period 4s	39 12	6	White round concrete tower; 29.	
HAMASKI KO:							
2348 F 7283.58	-N. breakwater.	35° 37.8' N 134° 26.7' E	Oc.R. period 4s	43 13	12	Red round concrete structure; 33.	
2352 F 7283.52	Mio O Shima.	35° 39.5' N 134° 30.3' E	Fl.W. period 4s	230 70	20	White round concrete tower; 28.	
2356 F 7283.54	Mio Ko, breakwater.	35° 39.0' N 134° 30.0' E	F.FI.G. period 5s	39 12	F. Fl	5 11	White round concrete structure; 31.
2360 F 7283.5	Amarube Saki.	35° 40.0' N 134° 33.0' E	Fl.W. period 15s	932 284	39	White octagonal metal tower; 46.	Visible 070°-314°.
2364 F 7283.51	-N.	35° 40.0' N 134° 33.2' E	Iso.W. period 4s	118 36	17	White quadrangular metal framework structure; 23.	Reserve light range 14M.
2368 F 7283.4	Yori Ko, No. "1" breakwater.	35° 39.1' N 134° 34.7' E	Oc.R. period 4s lt. 3s, ec. 1s	46 14	12	Red round concrete tower; 31.	
2372 F 7283.2	Shimoimama, breakwater.	35° 38.6' N 134° 37.0' E	Oc.R. period 8s lt. 6s, ec. 2s	36 11	11	Red round concrete tower; 28.	
2376 F 7281	Kasumi Ko.	35° 39.0' N 134° 38.0' E	Iso.W. period 6s	289 88	20	White round concrete tower; 22.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2380 F 7281.5	-Breakwater, head.	35° 39.1' N 134° 38.4' E	F.FI.R. period 4s	56 17	F. 6 Fl 13	Red tower; 31.	
2384 F 7283.3	-N. breakwater.	35° 38.8' N 134° 37.7' E	Fl.R. period 3s	39 12	3	Red cylindrical concrete tower; 33.	
SHIROYAMA:							
2392 F 7282	-S. breakwater.	35° 39.0' N 134° 38.0' E	Iso.R. period 4s	36 11	11	Red cylindrical concrete tower; 33.	
2396 F 7283	-N. breakwater.	35° 38.8' N 134° 37.6' E	Fl.G. period 3s	43 13	3	White octagonal tower; 31.	
2400 F 7280	Shibayama Ko.	35° 40.0' N 134° 40.0' E	Oc.W. period 4s Lt. 3s, ec. 1s	325 99	20	White cylindrical concrete structure, quadrangular concrete base; 31.	
2401	-Breakwater.	35° 40.0' N 134° 40.1' E	Fl.Y. period 4s	39 12	6		
2401.1	-Inner breakwater.	35° 39.7' N 134° 40.5' E	Fl.W. period 4s	62 19	6	White tower; 9.	
2402 F 7280.7	Sibayama Ko.	35° 39.3' N 134° 40.2' E	Fl.G. period 3s	46 14	8	White tower; 32.	
2408 F 7280.4	-W. breakwater, head.	35° 39.0' N 134° 40.0' E	F.FI.R. period 5s	39 12	F. 6 Fl 11	Red cylindrical concrete tower; 28.	
2412 F 7278.6	Neko Saki.	35° 40.3' N 134° 46.0' E	Fl.(2)W. period 7s	141 43	18	White concrete structure; 32.	
TAKENO BENTEN SHIMA:							
2416 F 7279	-N. Breakwater.	35° 39.6' N 134° 45.5' E	F.FI.G. period 5s	36 11	F. 5 Fl 11	White cylindrical concrete tower; 28.	
2420 F 7279.1	-Takeno Range, front.	35° 39.0' N 134° 46.0' E	F.G.	46 14	12	White cylindrical concrete tower, triangular topmark, 18.	
2424 F 7279.2	--Rear, 18 meters 167° from front.	35° 39.5' N 134° 45.5' E	F.G.	56 17	13	White cylindrical concrete tower, triangular topmark; 30.	
TSUYAMA KO:							
2428 F 7276	-Sarugajo.	35° 39.0' N 134° 51.0' E	Fl.W. period 4s	151 46	18	White cylindrical concrete structure; 31.	F. light illuminates rock 180 meters NE.
2432 F 7277	-Training Wall.	35° 38.9' N 134° 50.5' E	Iso.R. period 6s	39 12	11	Red cylindrical concrete tower; 33.	
2436 F 7278	-New groin, about 604 meters 133° from Onaru Yama Summit.	35° 38.8' N 134° 50.5' E	Iso.G. period 6s	26 8	6	White square framework tower; 20.	F.W. auxiliary light illuminates head of groin.
2440 F 7275	-Sutego Hana.	35° 39.4' N 134° 51.3' E	Iso.W. period 6s	184 56	20	Cylindrical tower, red and white bands; 33.	
2444 F 7274.5	Kumihama Ko, S. breakwater.	35° 39.0' N 134° 54.0' E	Fl.G. period 3s	42 13	12	White cylindrical concrete tower, square base; 31.	
2448 F 7274.4	About 3 miles NE. of Kumihama Ko.	35° 40.0' N 134° 58.0' E	Fl.(2)G. period 6s	43 13	6	White cylindrical concrete tower, square base; 31.	
2452 F 7274.2	Hamazuma Ko Shioe, breakwater.	35° 40.4' N 134° 58.5' E	Oc.R. period 5s	33 10	11	Red cylindrical concrete tower; 31.	
2456 F 7274	Asamokawa Ko, E. groin.	35° 41.4' N 135° 01.2' E	F.FI.G. period 4s	36 11	F. 5 Fl 11	White cylindrical concrete structure; 32.	
2460 F 7274.1	-E. inner breakwater.	35° 41.0' N 135° 01.0' E	Oc.G. period 4s Lt. 3s, ec. 1s	39 12	12	White cylindrical concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2464	Mitsu Ko, breakwater.	35° 42.6' N 135° 03.9' E	F.FI.R. period 3s	39 12	F. 6 Fl 11	Red cylindrical concrete structure; 31.	
2468	Taiza Ko, entrance. F 7272	35° 44.3' N 135° 05.6' E	F.FI.(2)G. period 7s	56 17	F. 6 Fl 13	White cylindrical concrete tower; 31.	F. illuminates reef 30 meters W. DGPS Station.
2472	Tango Takeno Ko. F 7271.6	35° 44.5' N 135° 06.9' E	FI.R. period 3s	33 10	11	Red round concrete tower; 28.	
2476	Nakahama Ko, detached breakwater, No. "2". F 7271.4	35° 45.5' N 135° 10.9' E	Iso.R. period 6s	46 14	12	Red round concrete structure; 31.	
2480	Kyoga Misaki. F 7270	35° 46.6' N 135° 13.4' E	FI.(3)W. period 20s 3 fl. 8s, ec. 12s	486 148	29	White round stone tower; 39.	Visible 076°-314°.
RAMARK							
2484	Honjo Ko, N. breakwater. F 7269.7	35° 45.0' N 135° 16.0' E	F.FI.(2)R. period 8s	43 13	F. 6 Fl 12	Red cylindrical concrete tower; 31.	Located 100 meters SE of light.
2486	Nii Saki.	35° 41.5' N 135° 18.4' E	FI.R. period 3s	30 9	3	Red tower; 16.	
2488	Washi Zaki. F 7269.4	35° 40.0' N 135° 18.0' E	FI.W. period 3s	256 78	12	White cylindrical concrete structure; 36.	
2492	Ine Ko. F 7269.5	35° 39.7' N 135° 17.1' E	FI.W. period 4s	170 52	12	White round concrete tower; 36.	
2496	-Kanjagahana. F 7269.6	35° 40.0' N 135° 17.0' E	F.FI.R. period 3s	29 9	F. 5 Fl 10	Red cylindrical concrete structure; 28.	
MAIZURU WAN:							
2500	-Miyazu Wan. F 7269.3	35° 35.7' N 135° 15.4' E	FI.(2)W. period 6s	407 124	17	White cylindrical concrete tower; 43.	
2504	-Bakuchi Misaki. F 7258	35° 33.0' N 135° 21.0' E	FI.W. period 10s	423 129	28	White quadrangular concrete structure; 39.	Visible 019°-258°. Weather signals.
2512	--Sanbommatsu. F 7260	35° 30.1' N 135° 20.8' E	FI.G. period 3s	43 13	12	White cylindrical tower; 21.	
2516	-Miyo Saki. F 7259	35° 30.0' N 135° 23.0' E	FI.(3)W. period 13s	33 10	11	White cylindrical concrete structure.	
2520	-To Shima. F 7261	35° 29.0' N 135° 20.0' E	FI.W. period 4s	36 11	11	White cylindrical concrete structure; 33.	
2524	-Kita, breakwater. F 7261.4	35° 27.2' N 135° 19.1' E	F.FI.R. period 3s	33 10	F. 6 Fl 11	Red cylindrical concrete structure; 31.	
2528	Tai Ko, No. "2" breakwater. F 7256.6	35° 34.0' N 135° 27.4' E	F.FIG. period 5s	39 12	F. 5 Fl 11	White round concrete tower; 31.	
2532	-No. "1" breakwater. F 7257.2	35° 35.0' N 135° 27.0' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	11	Red round concrete structure; 31.	
2536	Naryu Zaki, on point. F 7257	35° 35.9' N 135° 27.9' E	FI.W. period 5s	308 94	14	White quadrangular concrete tower; 27.	
2538	Utiura Wan, breakwater, head. F 7255.4	35° 32.3' N 135° 29.6' E	FI.G. period 3s	36 11	11	White tower; 27.	
2540	Oshimawari Saki. F 7255	35° 32.9' N 135° 30.2' E	FI.(2)W. period 10s	525 160	20	White cylindrical concrete structure; 33.	
2544	Wakasa Takahama Ko, detached breakwater. F 7254.4	35° 29.6' N 135° 33.2' E	Oc.G. period 5s	49 15	12	White cylindrical concrete tower; 31.	
2548	Shiroyama. F 7254	35° 30.0' N 135° 33.0' E	FI.W. period 3s	89 27	15	White cylindrical concrete tower; 28.	
2552	Wada Ko, N. breakwater. F 7254.6	35° 30.0' N 135° 35.0' E	F.FIG. period 3s	39 12	F. 5 Fl 11	White cylindrical concrete structure, square base; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2554 F 7254.7	Wada Ko, breakwater.	35° 29.8' N 135° 35.0' E	Fl.(2)R. period 6s	36 11	6	Red concrete structure; 18.	
2556 F 7252	Nokogiri Saki.	35° 33.0' N 135° 40.0' E	Oc.(2)W. period 6s	85 26	15	White cylindrical concrete tower; Visible 093°-340°. 39.	
2560 F 7252.4	Akaguri Saki.	35° 31.0' N 135° 40.0' E	Fl.R. period 4s	75 23	9	Cylindrical concrete structure, red and white bands; 36.	
2564 F 7252.7	Obama Ko, W. breakwater.	35° 30.0' N 135° 44.0' E	Fl.(3)G. period 12s	32 10	11	Red cylindrical concrete structure; 28.	
2568 F 7252.6	Obama Ko, breakwater, head.	35° 30.0' N 135° 45.0' E	Fl.G. period 3s	36 11	8	White tower; 33.	
2572 F 7251.6	Tagarasu Ko Myozin Hana.	35° 32.0' N 135° 50.0' E	Fl.(2)W. period 6s 2 fl. 2s, ec. 4s	79 24	14	White cylindrical concrete tower; 28.	
2576 F 7251.4	Kuro Guri.	35° 36.0' N 135° 50.0' E	Iso.W. period 6s	42 13	12	White cylindrical tower; 30.	
2580 F 7251	Tunekami Saki.	35° 38.0' N 135° 49.2' E	Fl.W. period 3s	800 244	24	White tower; 32.	
2584 F 7250.5	Hiruga Ko, breakwater.	35° 36.6' N 135° 53.7' E	Oc.R. period 4s	36 11	11	Red round tower; 28.	
2585	Hiruga Ko.	35° 36.7' N 135° 53.8' E	Oc.G. period 4s	30 9	6	White round concrete tower; 18.	
2588 F 7250	Hayase Ko, breakwater, head.	35° 36.8' N 135° 54.8' E	Iso.R. period 8s	31 9	7	Red cylindrical concrete tower; 19.	
2592 F 7249.6	Sugahama Ko, breakwater.	35° 39.2' N 135° 58.1' E	Iso.G. period 6s	42 13	6	White tower; 31.	
2596 F 7249	Funatosi Saki.	35° 42.0' N 135° 57.6' E	Iso.W. period 6s	198 60	20	White cylindrical concrete structure; 33.	F.W. illuminates Otogami Guri 350 meters W.
2600 F 7246	Tateishi Saki.	35° 46.0' N 136° 01.0' E	Fl.W. period 10s	400 122	27	White round tower; 26.	Visible 060°-319°.
2604 F 7247	Tsuruga Ko, breakwater, head.	35° 39.7' N 136° 03.7' E	Iso.G. period 6s	46 14	12	White cylindrical concrete tower; 39.	
2612 F 7248	-W. breakwater, N. head.	35° 39.5' N 136° 04.0' E	Oc.R. period 4s lt. 3s, ec. 1s	43 13	7	Red cylindrical concrete tower; 36.	
2616 F 7248.2	-E. breakwater.	35° 39.4' N 136° 03.8' E	Fl.R. period 3s	23 7	7	Red cylindrical concrete tower; 19.	
2620 F 7245.5	Kono Ko, No. "2" breakwater.	35° 49.3' N 136° 04.3' E	Oc.G. period 4s	39 12	11	White cylindrical concrete tower; 30.	
2624 F 7245	Kaburagi Ko, No. "1" breakwater.	35° 50.1' N 136° 03.0' E	F.FI.(2)G. period 10s 2 fl. 3s, ec. 7s	43 13	F. Fl	5 12	White tower; 36.
2628 F 7244	Nuka Ko Oki, breakwater.	35° 50.8' N 136° 02.5' E	F.FI.G. period 4s	42 13	F. Fl	5 12	White cylindrical concrete structure; 36.
2632 F 7243.8	Kare Zaki , about 10.9 kilometers 162°30' from Echizen Misaki light.	35° 53.0' N 136° 00.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	154 47	18	White quadrangular concrete; 33.	
2636 F 7243.74	Takasa, No. "2" breakwater.	35° 53.5' N 136° 59.8' E	F.W.	65 20			White cylindrical concrete tower; 20.
2640 F 7243.7	Echizen Sirahama Ko, No. "1" breakwater.	35° 54.1' N 135° 59.8' E	Fl.(2)G. period 6s	33 10	5	White tower; 31.	
2648 F 7243.68	Kuriya, breakwater, head.	35° 56.0' N 136° 00.0' E	Fl.G. period 3s	43 13	12	White round tower; 31.	
2656 F 7243.64	Mitikuchi Ko, detached breakwater.	35° 55.9' N 135° 59.9' E	Oc.R. period 8s lt. 6s, ec. 2s	43 13	12	Red cylindrical concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2666 F 7243.5	Etizen Gyoko, breakwater.	35° 56.0' N 135° 59.7' E	Iso.G. period 4s	52 16	13	White tower; 33.	
2668 F 7243	Kuro Jogatani, breakwater.	35° 56.6' N 135° 59.3' E	Oc.G. period 8s	46 14	12	White cylindrical concrete tower; 36.	Auxiliary F.W. light illuminates breakwater head about 40 meters S.
2672 F 7242.6	Sikaura Ko Singo, No. "2" breakwater.	35° 57.0' N 135° 59.0' E	F.FI.(2)G. period 7s	36 11	6	White cylindrical concrete structure; 31.	
2676 F 7242	Echizen Misaki.	35° 59.0' N 135° 58.0' E	FI.W. period 15s	436 133	28	White cylindrical concrete structure; 56.	Obscured 195°-358°.
2680 F 7241.5	Gumisaka Ko, breakwater.	36° 02.2' N 136° 00.9' E	Iso.W. period 6s	36 11	11	White cylindrical concrete tower; 25.	
2684 F 7241	Shirahama Ko, outer breakwater, head.	36° 04.8' N 136° 01.9' E	Oc.G. period 8s Lt. 6s, ec. 2s	36 11	11	White cylindrical concrete tower; 29.	F.W. illuminates rocks 40 meters NW.
2688 F 7240.7	Nagahasi Ko Nisi, W. breakwater, head.	36° 06.7' N 136° 03.1' E	Iso.R. period 6s	46 14	12	Red tower; 28.	
2692 F 7240.5	Takanosu Ko.	36° 07.7' N 136° 03.8' E	F.FI.W. period 5s	43 13	F. 8 Fl. 12	White cylindrical concrete tower; 26.	F.W. illuminates reef 120 meters W.
2696 F 7240.3	Hukui ko, N. breakwater.	36° 11.9' N 136° 07.3' E	Oc.G. period 8s	52 16	13	White cylindrical concrete tower; 46.	
2700 F 7240.4	-S. breakwater.	36° 12.1' N 136° 06.9' E	FI.R. period 3s	56 17	6	Red tower; 34.	
2704 F 7240	Mikuni ko, breakwater, S. head.	36° 12.8' N 136° 07.8' E	F.FIG. period 4s	39 12	F. 7 Fl. 11	White cylindrical concrete structure; 33.	
2708 F 7240.2	-SW. obstruction light, breakwater.	36° 13.0' N 136° 08.0' E	F.W.	36 11		White cylindrical concrete structure; 32.	Spotlight illuminates head of breakwater.
2712 F 7239.7	-O Shima.	36° 15.0' N 136° 07.0' E	FI.(2)W. period 9s 2 fl. 3s, ec. 6s	128 39	17	White cylindrical concrete tower; 36.	
2716 F 7239.5	Sioya Ko.	36° 17.9' N 136° 14.5' E	FI.(2)G. period 5s	39 12	10	White tower; 28.	
2720 F 7237	Hasitate Ko.	36° 20.9' N 136° 18.2' E	FI.(3)W. period 13s	177 54	19	White square concrete tower; 46.	Visible 035°-283°.
2724 F 7238	-Breakwater, head.	36° 21.3' N 136° 18.9' E	FI.R. period 4s	30 9	3	Red cylindrical concrete structure; 39.	
2728 F 7237.4	-NE. breakwater, head.	36° 21.4' N 136° 18.9' E	FI.G. period 3s	46 14	3	White round concrete tower; 36.	
2732 F 7237.2	--Outer breakwater.	36° 21.6' N 136° 18.9' E	FI.(2)G. period 6s	49 15	10	White tower; 33.	FI.R. 3s 13m 3M 250 meters S. on breakwater.
2736 F 7236.4	Ataka.	36° 25.0' N 136° 25.2' E	Iso.W. period 6s	72 22	14	White round tower; 52.	
2740 F 7236	Mikawa.	36° 29.5' N 136° 29.4' E	FI.W. period 4s	82 25	15	White cylindrical concrete structure; 49.	
2744 F 7234	Kanazawa Ko, jetty, head.	36° 36.2' N 136° 35.0' E	FI.R. period 4s	43 13	9	White cylindrical concrete tower; 32.	
2748 F 7234.4	-E. breakwater, head.	36° 36.1' N 136° 35.2' E	Iso.G. period 6s	42 13	12	White cylindrical concrete structure; 31.	
2752 F 7232	Ono Ko.	36° 37.0' N 136° 36.0' E	FI.W. period 10s	112 34	16	White square concrete tower; 85.	Visible 036°-216°.
2756 F 7233.2	-Breakwater.	36° 37.1' N 136° 36.3' E	FI.R. period 3s	36 11	11	Red cylindrical concrete structure; 31.	
2760 F 7233	-W. breakwater, head.	36° 38.4' N 136° 36.2' E	FI.(2)R. period 6s	43 13	12	Red cylindrical concrete structure; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2764 F 7232.4	-E. breakwater.	36° 38.0' N 136° 36.0' E	Fl.G. period 3s	39 12	11	White cylindrical concrete structure; 28.	
2768 F 7230	Shiroo.	36° 43.1' N 136° 41.3' E	Fl.(2)W. period 7s	82 25	15	White cylindrical concrete structure; 33.	Visible 020°-212°.
2772 F 7225	Taki Ko, breakwater.	36° 55.0' N 136° 45.5' E	Iso.G. period 6s	39 12	11	White cylindrical concrete tower; 33.	
2776 F 7226	--E. breakwater.	36° 55.0' N 136° 46.0' E	Fl.(2)R. period 6s	26 8	3	Red round tower; 18.	
2780 F 7224	Taki Saki.	36° 55.6' N 136° 45.2' E	Oc.(2)W. period 6s	59 18	13	White quadrangular concrete tower; 33.	
2784 F 7222	Takahama Ko, W. breakwater, No. "1", head.	37° 00.0' N 136° 46.0' E	Fl.R. period 3s	43 13	9	Red round concrete structure; 33.	
2788 F 7221.6	Abuya Ko, breakwater.	37° 00.7' N 136° 44.7' E	F.FI.G. period 5s	36 11	5	White round tower; 28.	
2790 F 7221.3	Hokoriku Denryoku.	37° 03.7' N 136° 43.0' E	Fl.R. period 4s	36 11	3	Red tower; 18.	
2791 F 7221.4	-S. breakwater.	37° 03.5' N 136° 43.1' E	Fl.G. period 4s	36 11	3	White concrete tower; 18.	
2792 F 7220	Fukura Ko.	37° 04.5' N 136° 43.3' E	Fl.W. period 12s	92 28	15	White cylindrical concrete tower;	Visible 350°-210°. 52.
2804 F 7221	-Mo Saki Range, front.	37° 05.0' N 136° 44.0' E	F.R. (neon)	45 14	10	Cylindrical concrete tower, white triangular topmark; 43.	
2808 F 7221.1	--Rear, 90 meters 090° from front.	37° 04.9' N 136° 43.7' E	F.R. (neon)	79 24	10	Cylindrical concrete tower, white triangular topmark; 12.	
2812 F 7214	Kazanasi, breakwater, head.	37° 08.2' N 136° 41.3' E	Iso.G. period 6s	46 14	4	White tower; 31.	
2816 F 7216	Togi Ko, breakwater, head.	37° 08.6' N 136° 42.0' E	Fl.(2)G. period 6s	39 12	5	White tower; 29.	
2820 F 7213	Ama Saki.	37° 08.6' N 136° 40.4' E	Iso.W. period 6s	91 28	15	White cylindrical concrete tower; 52.	
2824 F 7212.4	Noto-Akasaki Ko, breakwater, head.	37° 10.0' N 136° 40.5' E	Fl.G. period 3s	39 12	3	White tower; 28.	
2828 F 7212	Saruyama Zaki.	37° 19.3' N 136° 43.6' E	Fl.(4)W. period 30s	719 219	35	White square concrete tower;	Visible 014°-213°. 56.
RAMARK							
2830 F 7210	Minatuki Ko.	37° 21.0' N 136° 45.4' E	Fl.G. period 4s	25 8	6	White round concrete tower; 19.	
2832 F 7209	Wazima Ko.	37° 22.6' N 136° 48.0' E	Fl.R. period 3s	42 13	5	Red round concrete tower; 31.	
2836 F 7204	Tatsuga Saki.	37° 24.2' N 136° 54.1' E	Fl.W. period 15s	217 66	21	White cylindrical concrete tower; 36.	Visible 092°-292°. F.W. auxiliary light illuminates shoal about 750 meters NNE.
WAJIMA KO:							
2840 F 7206	-No. "1" breakwater, head.	37° 24.1' N 136° 54.3' E	Fl.R. period 3s	39 12	5	Red tower; 31.	
2844 F 7207	-No. "2" breakwater, head.	37° 23.9' N 136° 54.4' E	Fl.G. period 3s	25 8	5	White square steel framework tower, concrete base; 18.	
2852 F 7202	Nanatsu Shima.	37° 36.0' N 136° 54.0' E	Fl.W. period 5s	215 66	17	White cylindrical concrete tower; 25.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2856 F7200	Hekura Jima.	37° 51.0' N 136° 55.0' E	Fl.(2)W. period 28s 2 fl. 7s, ec. 21s	140 43	18	White cylindrical concrete structure; 112.	Radiobeacon. DGPS Station.
2860 F7201	-Ko, breakwater No. "1".	37° 50.9' N 136° 55.3' E	Fl.G. period 3s	39 12	3	White round concrete tower; 33.	
2864 F7201.4	--No. "2", head.	37° 50.9' N 136° 55.3' E	Fl.R. period 3s	39 12	6	Red round concrete structure; 28.	
2868 F7201.6	-Outer breakwater.	37° 50.8' N 136° 55.4' E	Fl.G. period 5s	43 13	6	White tower; 31.	
2872 F7198	Noto Kura Saki.	37° 29.8' N 137° 08.9' E	Fl.(2)W. period 7s	230 70	20	White cylindrical concrete tower; 28.	
2876 F7195.9	Takaya, breakwater, head.	37° 31.4' N 137° 14.3' E	Fl.R. period 3s	56 17	7	Red tower; 31.	
2880 F7195.95	-W. breakwater, head.	37° 31.1' N 137° 14.5' E	Fl.G. period 3s	43 13	12	White tower; 31.	
2884 F7199	Yome Guri.	37° 40.1' N 137° 12.7' E	Fl.(2)W. period 8s	43 13	12	White tower; 28.	
2888 F7196	Rokugo Saki.	37° 31.6' N 137° 19.8' E	Iso.W. period 6s	157 48	19	White round stone tower; 39.	Visible 095°-312°. Storm signals.
RAMARK							
2892 F7195.8	Norosi Ko, breakwater, head.	37° 31.3' N 137° 19.9' E	Iso.R. period 6s	43 13	12	Red cylindrical concrete structure; 43.	
2896 F7195	Himeshima Guri.	37° 30.2' N 137° 21.8' E	Fl.W. period 4s	43 13	12	White cylindrical concrete tower; 43.	
2900 F7195.4	Ai Saki.	37° 30.0' N 137° 21.0' E	F.W.	102 31		White quadrangular concrete structure; 28.	Illuminates Gyoza Guri about 560 meters E.
2902 F7194.5	Suzu Misaki.	37° 30.0' N 137° 21.1' E	Fl.R. period 3s	36 11	3	Red tower; 28.	
2904 F7194	Nagate Saki.	37° 26.9' N 137° 21.8' E	Iso.W. period 6s	52 16	13	White cylindrical concrete structure; 54.	
2912 F7192.4	-W. of No. "2" breakwater, head.	37° 26.2' N 137° 18.1' E	Fl.(2)R. period 6s	39 12	5	Red tower; 28.	
2914 F7192.6	-Takajima Gyoko, breakwater.	37° 26.1' N 137° 18.4' E	Fl.(2)G. period 6s	28 9	5	White tower; 18.	
2916 F7190.8	Ukai Ko, breakwater.	37° 24.0' N 137° 14.9' E	Iso.R. period 4s	36 11	11	Red cylindrical concrete structure; 31.	
2920 F7190	Matsunami Ko, breakwater.	37° 21.0' N 137° 15.0' E	Fl.G. period 3s	39 12	8	White round concrete tower; 31.	
2924 F7189.6	Noto Aka Saki.	37° 21.0' N 137° 16.0' E	Oc.(2)W. period 6s	39 12	11	White cylindrical concrete tower; 31.	
2928 F7189.4	Noto Jo-ga-Saki.	37° 20.0' N 137° 16.0' E	Fl.W. period 4s	69 21	14	White cylindrical concrete structure; 31.	
NOTO OGI KO:							
2932 F7189	-Tsukumo Wan, S. breakwater.	37° 17.9' N 137° 14.2' E	Fl.(2)R. period 5s	39 12	5	Red tower; 31.	
2936 F7188.2	-Tsukumo Wan.	37° 18.1' N 137° 14.2' E	Fl.G. period 4s	30 9	3	Green round concrete tower; 29.	
2940 F7188.1	-Motoogi, breakwater.	37° 17.8' N 137° 13.7' E	Fl.R. period 3s	33 10	3	Red tower; 27.	
2944 F7188	-Inuyama.	37° 18.0' N 137° 14.0' E	Fl.(2)W. period 18s 2 fl. 6s, ec. 12s	105 32	16	White cylindrical concrete structure; 46.	Visible 232°-50°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2948 F 7188.4	-Obase, breakwater.	37° 17.9' N 137° 14.1' E	Fl.(2)G. period 5s	39 12	3 31.	White round concrete structure;	
2956 F 7186.6	Ikari Shima.	37° 17.6' N 137° 12.9' E	Fl.G. period 3s	36 11	3	White tower; 31.	
2960 F 7185	Usetsu Ko.	37° 17.8' N 137° 09.3' E	Fl.(3)W. period 13s	125 38	17	White quadrangular concrete tower; 33.	F.W. auxiliary light illuminates area SE.
2964 F 7186	Usetsu Ko, S. No. "1" breakwater.	37° 17.8' N 137° 09.5' E	Iso.G. period 6s	31 9	11	White round tower, quadrangular concrete base; 28.	
2968 F 7186.2	Usetsu Ko, E. No. "2" breakwater.	37° 17.7' N 137° 09.6' E	Iso.R. period 6s	40 12	11	Red round concrete structure; 31.	
2972 F 7184	Ukawa Ko, training wall, head.	37° 15.0' N 137° 05.5' E	Iso.W. period 6s	39 12	11	White cylindrical concrete structure; 33.	
2976 F 7183	Anamizu.	37° 13.0' N 136° 55.0' E	Fl.W. period 3s	161 49	17	White quadrangular concrete structure; 36.	Visible 275°-131°.
2980 F 7182.6	Bagura, E. breakwater, head.	37° 10.1' N 137° 02.0' E	Fl.G. period 4s	33 10	3	White tower; 31.	
2982 F 7183.5	Noto Nakano Sima.	37° 09.3' N 136° 54.9' E	Fl.W. period 4s	24 7	8	White tower; 18.	
2984 F 7173	Enome Ko, No. "1" breakwater, head.	37° 09.2' N 137° 03.1' E	Fl.(2)R. period 5s	39 12	5	Red tower; 31.	
2988 F 7172.4	Kato Saki.	37° 09.0' N 137° 03.0' E	F.W.	36 11		White tower; 29.	
NANAO WAN:							
2992 F 7172	-Kannon Saki.	37° 06.0' N 137° 04.0' E	Fl.W. period 8s	105 32	16	Square white concrete tower; 39.	Visible 155°-005°.
2994 F 7171.8	Unoura Ko.	37° 06.1' N 137° 03.2' E	Fl.R. period 3s	26 8	3	Red tower; 18.	
2996 F 7174	-Noto Jima entrance Range, front, on Kojin Hana.	37° 07.0' N 137° 02.0' E	Fl.W. period 3s	59 18	13	White cylindrical tower; 33.	
3000 F 7174.5	--	37° 06.5' N 137° 01.5' E	Dir.F.W.R.G.	43 13 13 G. 12	W. 12 R. 11 G. 12	R. 256°40'-258°00', W.-259°30' G.-260°50'.	
3004 F 7177	-Me Shima, about 3.5 kilometers 039° from Naneo.	37° 04.4' N 136° 59.6' E	Fl.(2)R. period 6s	43 13	5	Red tower; 33.	
3008 F 7180	Nanao Ko Hutyu, E. breakwater.	37° 02.7' N 136° 58.5' E	Fl.R. period 3s	26 8	6	Red cylindrical metal structure; 24.	
3012 F 7182	Ishisaki Ko, breakwater.	37° 04.6' N 136° 56.2' E	Fl.R. period 4s	29 9	3	Red round concrete tower; 26.	
3014 F 7182.2	-N. breakwater, head.	37° 04.6' N 136° 56.4' E	Fl.(2)G. period 6s	20 6	5	White tower; 16.	
3016 F 7171.4	Enotomari Ko, breakwater.	37° 04.1' N 137° 03.2' E	Fl.R. period 3s	39 12	3	Red tower; 30.	
3020 F 7171	Iori Ko, E. breakwater.	37° 02.3' N 137° 02.9' E	Fl.(2)R. period 5s	33 10	5	Red tower; 30.	
3024 F 7170.5	Simosazanami Ko.	37° 00.7' N 137° 03.0' E	Fl.R. period 4s	40 12	5	Red tower; 31.	
3028 F 7170	Mera Ko, E. breakwater.	36° 56.8' N 137° 02.6' E	Fl.R. period 4s	39 12	11	Red cylindrical fiberglass tower; 31.	
3030 F 7169.5	Ozakai Ko, breakwater.	36° 55.1' N 137° 02.0' E	Fl.(2)R. period 8s	26 8	6	Red concrete structure; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3032 F 7169	Unami Ko, W. breakwater.	36° 54.5' N 137° 01.5' E	Oc.R. period 4s	27 8	7	Red cylindrical concrete tower; 19.	
TOYAMA WAN:							
3036 F 7168	-Etyu Tomari Ko, breakwater.	36° 53.7' N 137° 00.6' E	Fl.(2)R. period 5s	23 7	3	Red tower; 18.	
3040 F 7167.4	-Yabuta Ko, breakwater.	36° 53.2' N 137° 00.3' E	Oc.(2)R. period 6s	36 11	11	Red cylindrical concrete tower; 31.	
-Himi Ko:							
3044 F 7166	--N. breakwater, E. head.	36° 51.6' N 136° 59.8' E	Fl.R. period 5s	39 12	11	Red cylindrical concrete tower; 36.	
3046 F 7166.75	-Etyu Ao Ko, breakwater.	36° 52.9' N 137° 00.0' E	Iso.R. period 4s	25 8	7	Red concrete structure; 18.	
3048 F 7166.5	--E. breakwater, N. head.	36° 52.0' N 137° 00.0' E	Fl.G. period 5s	42 13	12	White round concrete tower; 29.	
3052 F 7164.5	--Kara Shima, on summit.	36° 51.8' N 136° 59.9' E	Iso.W. period 6s	66 20	13	White cylindrical concrete tower; 39.	
3056 F 7160	-Iwasakino Hano.	36° 48.0' N 137° 03.0' E	Fl.W. period 15s	190 58	20	White cylindrical concrete tower;	Visible 132°-318°. 46.
3060 F 7160.4	-Kokubu, E. breakwater, head.	36° 48.2' N 137° 03.7' E	Fl.G. period 3s	26 8	5	White cylindrical concrete structure; 27.	
3064 F 7160.6	--Breakwater, head.	36° 48.1' N 137° 03.6' E	Iso.R. period 6s	40 12	11	Red cylindrical concrete structure; 31.	
3064.1 F 7162.4	-Kokubu Passage.	36° 49.2' N 137° 04.5' E	Fl.(5)Y. period 20s	46 14	5	SPECIAL Y, beacon, topmark, 46.	
3065 F 7162.3	-Fushiki-Tyuo.	36° 48.1' N 137° 04.2' E	Fl.(2)G. period 5s	39 12	6	White tower; 21.	
3066 F 7162.2	-N. breakwater, SE head.	36° 48.1' N 137° 04.5' E	Fl.(2)R. period 5s	43 13	10	Red tower; 33.	
FUSHIKI KO:							
3068 F 7162	--E. breakwater.	36° 47.4' N 137° 04.3' E	Fl.G. period 4s	43 13	12	White cylindrical concrete tower; 33.	
3072 F 7161	--W. breakwater.	36° 47.7' N 137° 04.1' E	Fl.R. period 4s	43 13	12	Red tower; 31.	F.R. on chimney 1 mile SW.
3076 F 7161.3	-Directional light 227°54'.	36° 47.3' N 137° 04.5' E	Dir.F.W.R.G.	66 20	14	White round concrete tower; 57.	R. 225°24'-226°24', W- 229°24', G.-230°24'. Oc.Y. 4s above main light. Emergency light W. 2M R. 1M G. 1M.
3080 F 7156	--W. breakwater, head.	36° 47.2' N 137° 05.0' E	Iso.R. period 6s	36 11	11	Red tower; 32.	
3084 F 7152	--Detached E. breakwater, head.	36° 47.2' N 137° 05.0' E	Iso.G. period 6s	43 13	12	White tower; 33.	
3088 F 7154	--E. breakwater, S. head.	36° 46.9' N 137° 05.2' E	Fl.R. period 3s	30 9	7	Red tower; 19.	
3090 F 7151.8	Sinmanato Gyoko.	36° 47.0' N 137° 05.6' E	Fl.G. period 3s	46 14	8	White tower; 30.	
SINMINTO:							
3092 F 7151.4	-Toyama Sinko, W. breakwater.	36° 46.7' N 137° 07.0' E	Oc.R. period 8s	52 16	12	Cylindrical concrete structure; 49.	

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JAPAN-HONSHU-NORTHWEST COAST							
3096 F7151	--E. breakwater.	36° 46.9' N 137° 07.3' E	Oc.G. period 8s	52 16	12	White cylindrical concrete structure; 49.	
3098 F7150.6	-E. breakwater, head.	36° 45.5' N 137° 11.8' E	Fl.G. period 3s	24 7	6	White cylindrical concrete structure; 20.	
3100 F7150.5	--Nihonkai Oil sea berth, buoy.	36° 47.0' N 137° 12.6' E	Mo.(U)W. period 8s		10	Red and white striped mooring buoy.	Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).
3104 F7151.6	-Toyama Sinka, E. inner breakwater.	36° 46.4' N 137° 07.3' E	Iso.G. period 4s	40 12	11	White round concrete tower; 33.	
3108	-Toyama Ko, E. breakwater, head.	36° 46.0' N 137° 14.0' E	Iso.G. period 6s	49 15	12	White round concrete structure; 49.	
TOYAMA WAN:							
3112 F7149	-Toyama Ko, W. breakwater.	36° 45.9' N 137° 13.5' E	Iso.R. period 6s	36 11	11	Red tower; 32.	
3116 F7147	-Mizuhashi Ko, W. training wall.	36° 45.4' N 137° 18.2' E	Fl.G. period 3s	39 12	11	White cylindrical concrete structure; 33.	
3120 F7145	-Namerikawa Ko, breakwater.	36° 46.4' N 137° 20.9' E	Oc.G. period 8s lt. 6s, ec. 2s	43 13	12	White cylindrical concrete tower; 32.	
-Uozu (Uwotsu) Ko:							
3124 F7144.4	--N. auxiliary breakwater, head.	36° 48.3' N 137° 23.6' E	Iso.G. period 4s	39 12	11	White cylindrical concrete tower; 31.	
3128 F7144.5	--S. auxiliary breakwater, head.	36° 48.3' N 137° 23.7' E	Iso.R. period 4s	39 12	11	Red cylindrical concrete structure; 33.	
3132 F7142	--N. breakwater, head.	36° 49.2' N 137° 23.5' E	Fl.G. period 4s	43 13	12	White tower; 31.	
3136 F7144	--S. breakwater, head.	36° 49.2' N 137° 23.5' E	Fl.R. period 3s	26 8	6	Red tower; 22.	
3140 F7137.6	-Kyoden Ko, N. breakwater, head.	36° 51.1' N 137° 24.6' E	Fl.(2)G. period 7s	43 13	5	White tower; 33.	
3144 F7137.2	-Kurube Ko, N. breakwater.	36° 53.4' N 137° 24.9' E	F.FI.G. period 5s	43 13	F. Fl	3	White round concrete tower; 33.
3148 F7137	-Ikuzi Hana.	36° 53.6' N 137° 24.9' E	Fl.W. period 10s	105 32	16	Black and white striped cylindrical tower; 99.	Visible 334°-203°.
3152 F7136.9	Nyuzen Ko.	36° 55.3' N 137° 25.7' E	Fl.G. period 3s	56 17	13	White cylindrical concrete tower; 32.	
3156 F7136.7	Miyazaki Hana.	36° 58.0' N 137° 35.0' E	Fl.(2)W. period 11s	354 108	20	White cylindrical concrete tower; 39.	
3160 F7136.8	Miyazaki Ko, E. breakwater.	36° 58.2' N 137° 35.3' E	Iso.G. period 4s	43 13	12	White cylindrical concrete tower; 31.	
3164 F7136.6	Himekawa Ko, E. breakwater, head.	37° 03.0' N 137° 50.8' E	Fl.R. period 3s	56 17	6	Red tower; 39.	
3168 F7135	-No. "2" Breakwater, head.	37° 06.6' N 138° 00.0' E	F.FI.(2)G. period 7s	43 13	F. Fl	5 12	White round concrete structure; 31.
3170 F7136.5	Uramoto ko.	37° 04.1' N 137° 56.0' E	Fl.G. period 3s	43 13	12	White cylindrical concrete tower; 32.	
3172 F7134	No Ko.	37° 06.4' N 137° 59.8' E	Fl.W. period 4s	95 29	15	White cylindrical concrete tower; 29.	
3180 F7132.8	Tsutsuishi Ko, U Shima.	37° 08.0' N 138° 03.2' E	F.FI.R. period 5s	23 7	F. Fl	6 10	Red round tower; 21.
3184 F7133	Tsutsuisi Ko, Senzoku Sima.	37° 08.0' N 138° 03.2' E	F.FI.G. period 5s	49 15	F. Fl	5 12	White cylindrical concrete tower; 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3188 <i>F 7132.5</i>	Nadachi Ko.	37° 09.9' N 138° 05.5' E	Iso.G. period 6s	43 13	12	White cylindrical concrete tower; 36.	
3192 <i>F 7132</i>	Torigakubi Misaki.	37° 10.1' N 138° 06.0' E	Fl.W. period 5s	269 82	23	White square concrete tower; 39.	Visible 025°-273°.
3196 <i>F 7128</i>	-Seki Kawa, E. training wall.	37° 11.1' N 138° 14.8' E	Fl.R. period 3s	46 14	6	Red cylindrical concrete tower; 31.	
3200 <i>F 7125</i>	-W. breakwater.	37° 12.2' N 138° 15.5' E	F.Fl.(2)R. period 8s	72 22	F. Fl	9 14	Red cylindrical concrete structure; 61.
3202 <i>F 7125.5</i>	-Breakwater, head.	37° 11.9' N 138° 15.8' E	Fl.G. period 4s	43 13	6	White tower; 31.	
3208 <i>F 7121</i>	Yoneyama Saki.	37° 19.0' N 138° 26.0' E	Oc.(2)W. period 7s	312 95	20	Cylindrical concrete structure, black bands; 46.	Visible 040°-240°.
3214 <i>F 7102.7</i>	-W.	37° 48.1' N 138° 15.3' E	Fl.(2)G. period 6s	39 12	5	White cylindrical concrete structure; 22.	
3216 <i>F 7103</i>	-Sawasaki Hana.	37° 49.0' N 138° 13.0' E	Fl.(2)W. period 30s 2 fl. 8s, ec. 22s	134 41	18	White octagonal concrete tower; 79.	Visible 314°-201°.
3218 <i>F 7103.08</i>	--Approach.	37° 48.8' N 138° 13.1' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
3220 <i>F 7103.3</i>	-NE. of Kawasaki.	37° 50.2' N 138° 13.5' E	Fl.R. period 3s	42 13	3	Red round concrete tower; 32.	
3222 <i>F 7103.52</i>	-Sawane Ko, breakwater.	38° 00.3' N 138° 17.1' E	Fl.G. period 4s	22 7	3	White concrete structure; 18.	
3224 <i>F 7103.5</i>	Mano Wan, breakwater.	37° 59.4' N 138° 17.0' E	Fl.(2)G. period 6s	33 10	3	White round concrete structure, square base; 32.	
3226 <i>F 7103.51</i>	Mano Ko, breakwater.	37° 57.4' N 138° 20.2' E	Fl.R. period 3s	28 9	6	Red concrete structure; 19.	
3228 <i>F 7103.6</i>	-Hutami Ko, breakwater.	37° 58.4' N 138° 16.1' E	Fl.G. period 3s	36 11	11	White cylindrical concrete tower;	Auxiliary light shows F.W. over U Shima 120 meters S.
3232 <i>F 7104</i>	-Daiga Hana.	37° 57.7' N 138° 15.4' E	Fl.W. period 5s	151 46	18	White cylindrical concrete tower;	Auxiliary light shows F.W. over Okino Eguri.
3236 <i>F 7104.4</i>	-Inakuzira Ko, breakwater.	37° 58.0' N 138° 14.0' E	Fl.G. period 3s	52 16	3	White tower; 31.	
3240 <i>F 7104.5</i>	-Nagate Misaki.	37° 58.8' N 138° 13.8' E	Fl.W. period 4s	33 10	11	White cylindrical concrete structure; 31.	
3244 <i>F 7104.7</i>	Mano Wan.	37° 59.7' N 138° 14.0' E	Fl.R. period 3s	42 13	3	Red tower; 31.	
3248 <i>F 7105</i>	Itiri Sima.	38° 02.1' N 138° 13.3' E	Fl.(2)W. period 5s	66 20	9	ISOLATED DANGER BRB, beacon, topmark; 39.	
3252 <i>F 7106.4</i>	-Himezu Ko, breakwater.	38° 04.7' N 138° 14.5' E	Iso.G. period 6s	49 15	12	White cylindrical concrete tower; 31.	
3256 <i>F 7106</i>	-O Saki.	38° 06.0' N 138° 15.0' E	Fl.W. period 12s	102 31	16	White cylindrical concrete tower;	Visible 021°-213°. 33.
3258 <i>F 7106.2</i>	Kitaebisu Ko.	38° 05.5' N 138° 15.4' E	Fl.G. period 3s	43 13	12	White round concrete tower; 32.	
3260 <i>F 7107</i>	-Nyu Saki.	38° 11.6' N 138° 19.9' E	Oc.(2)W. period 6s	184 56	20	White cylindrical concrete tower;	Spotlight. 39.
3264 <i>F 7107.4</i>	-Takati Ko, breakwater.	38° 11.8' N 138° 20.6' E	F.Fl.R. period 6s	46 14	F. Fl	6 12	Red cylindrical tower; 28.
3268 <i>F 7107.6</i>	-Seki Misaki.	38° 15.0' N 138° 24.0' E	Iso.W. period 6s	476 145	20	White cylindrical concrete structure; 36.	Visible 048°-213°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3272 F7092	-Hajiki Saki.	38° 19.7' N 138° 31.0' E	Fl.(3)W. period 30s	242 74	22 62.	White octagonal concrete tower;	Visible 091°-357°.
						Obscured by summit of	Futatsugame Yama 093°-
							097°.
3276 F7092.4	-Washizaki, E. breakwater, head.	38° 19.0' N 138° 31.2' E	Iso.R. period 4s	43 13	12	Red cylindrical concrete structure; 31.	
3280 F7092.6	Miyana Saki.	38° 12.1' N 138° 29.7' E	Iso.W. period 6s	141 43	18	White quadrangular concrete structure; 33.	
3284 F7093	-Ryotsu Wan, approach.	38° 08.4' N 138° 27.0' E	Fl.(2)R. period 5s	36 11	5	Red round concrete tower; 32.	
3286	-Hayosi Ko, breakwater.	38° 07.0' N 138° 26.5' E	Fl.R. period 3s	25 8	3	Red tower; 16.	
3288 F7095	-Ryostu Ko.	38° 05.2' N 138° 26.6' E	Iso.R. period 6s	36 11	11	Red cylindrical concrete tower; 46.	
3290 F7094.4	-Breakwater, N. head.	38° 05.2' N 138° 26.5' E	Fl.G. period 3s	30 9	5	White cylindrical structure; 18.	
3292 F7094	-Ryotsu Wan, breakwater.	38° 04.8' N 138° 27.0' E	Fl.R. period 4s	62 19	7	Red tower; 54.	
3296 F7096	-Hime Saki.	38° 05.0' N 138° 34.0' E	Fl.W. period 6s	138 42	18 46.	White hexagonal metal structure;	Visible 079°-310°.
						Obscured within 2 miles between	301°-310° by Tarikaki Hana
						SE. of lighthouse.	
3300 F7096.5	-Hime Saki, S. side.	38° 04.5' N 138° 34.4' E	Fl.(2)R. period 5s	43 13	5	Red cylindrical concrete tower; 32.	
3304 F7097	Joga Hana.	38° 01.1' N 138° 33.4' E	Oc.(2)W. period 6s	105 32	16	White quadrangular concrete tower; 33.	
3308 F7098	-Kono se.	37° 55.0' N 138° 30.0' E	Iso.W. period 6s	75 23	14	White cylindrical concrete tower;	Visible 177°-071°.
3312 F7100.2	-Akadomari Ko, breakwater, head.	37° 52.1' N 138° 25.2' E	Fl.(2)G. period 7s	39 12	7	White tower; 31.	
3314 F7100.6	--Approach.	37° 52.6' N 138° 26.1' E	Fl.G. period 4s	23 7	3	White tower; 16.	
3315 F7101.5	-Hamito Ko, breakwater.	37° 49.2' N 138° 19.0' E	Fl.G. period 5s	27 8	5	White tower; 22.	
3316 F7102	-Ogi Ko, breakwater.	37° 49.0' N 138° 17.0' E	Fl.G. period 3s	39 12	11	White cylindrical concrete tower; 31.	
3320 F7102.5	--Utino Ma, breakwater.	37° 48.5' N 138° 16.6' E	Iso.G. period 6s	39 12	11	White round concrete structure; 32.	
3324 F7120	Kashiwazaki Ko, W. breakwater.	37° 22.8' N 138° 32.8' E	Fl.R. period 3s	43 13	12	Red tower; 31.	
3326 F7119.5	Kirawa Nuclear Power Station, breakwater, head.	37° 26.3' N 138° 35.4' E	Fl.(2)R. period 7s	52 16	13	Red tower; 39.	
3328 F7119	Kannon Zaki, Shilya Hana	37° 29.0' N 138° 38.0' E	Fl.W. period 15s	177 54	19	White quadrangular concrete tower; 27.	Visible 017°-229°.
3332 F7118.4	Izumosaki Ko, breakwater.	37° 33.0' N 138° 41.0' E	Iso.R. period 6s	42 13	12	Red cylindrical concrete structure; 36.	
3336 F7118.6	-Izumosaki Ko.	37° 32.5' N 138° 40.9' E	Q.(3)W. period 10s	36 11	9	E. CARDINAL BYB, beacon, topmark; 36.	
3340 F7118	Teradomari Ko, breakwater.	37° 38.9' N 138° 45.4' E	Fl.R. period 4s	46 14	10	Red cylindrical concrete tower; 31.	
3344 F7117.4	Maze Ko, breakwater.	37° 44.0' N 138° 48.0' E	Fl.G. period 3s	36 11	11	White cylindrical concrete structure; 28.	
3348 F7117	Kakuda Misaki.	37° 47.0' N 138° 49.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	164 50	19 43.	White cylindrical concrete tower;	Visible 020°-243°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3350 F 7116.8	Etigo Sinkawa Ko, breakwater.	37° 52.0' N 138° 55.4' E	Fl.R. period 4s	27 8	6	Red concrete structure; 19.	
NIGATO KO:							
3352 F 7110.5	-No. "2" W. breakwater, N. Head.	37° 58.2' N 139° 04.4' E	Fl.R. period 3s	49 15	10	Red tower; 39.	
3356 F 7111.2	-W. breakwater, elbow.	37° 57.5' N 139° 04.1' E	Fl.R. period 6s	79 24	14	Red round concrete tower; 72.	
3360 F 7112	-E. breakwater, about 366 meters 152° from elbow of W. breakwater.	37° 57.3' N 139° 04.2' E	Fl.(2)G. period 7s 2 fl. 3s, ec. 4s	39 12	6	White tower; 33.	
3370 F 7116.5	-Outer harbor observation tower.	38° 00.2' N 139° 07.6' E	Mo.(U)W. period 10s	59 18	7		Radar reflector.
3372 F 7113	-Wharf "A", N. head.	37° 56.8' N 139° 04.4' E	Fl.W. period 3s	23 7	8	White tower; 18.	
3376 F 7116	-AVIATION LIGHT.	37° 56.8' N 139° 06.9' E	Al.Fl.W.G. period 4.3s	69 21		Metal framework structure; 52.	
3380 F 7109	-Aqa-no-Kawa Guchi.	37° 57.0' N 139° 08.0' E	Iso.W. period 6s	52 16	13	White cylindrical concrete tower; 52.	
3384 F 7110	Matuhama Ko.	37° 57.2' N 139° 08.4' E	Fl.G. period 3s	19 6	3	White tower; 16.	
3388 F 7108	-E. district, E. outer breakwater, head.	38° 00.6' N 139° 14.4' E	Iso.G. period 6s	39 12	11	White cylindrical concrete structure; 32.	
3392 F 7108.6	-Sea Berth No. "3".	38° 00.1' N 139° 13.5' E	Mo.(U)W. period 10s	45 14	12		
3396 F 7108.4	-W. breakwater.	38° 01.1' N 139° 13.9' E	Fl.R. period 3s	52 16	10	Red tower; 46.	
3405 F 7090.7	-SE. breakwater.	38° 11.0' N 139° 25.0' E	Fl.G. period 3s	49 15	5	White structure; 33.	
3406 F 7090.8	-Oil platform.	38° 07.8' N 139° 20.5' E	Mo.(U)W. period 15s	62 19	13		
3408 F 7090.5	Iwafune Ko groin.	38° 11.3' N 139° 25.7' E	Fl.R. period 3s	36 11	3	Red tower; 30.	
3412 F 7090	Iwahune Ko.	38° 11.7' N 139° 26.1' E	Iso.W. period 6s	144 44	18	White square concrete tower; 39.	
3416 F 7089	Awa Shima.	38° 27.1' N 139° 14.5' E	Fl.W. period 10s	899 274	38	White square concrete tower; 36.	
3420 F 7089.5	Awasima Ko, E. breakwater.	38° 28.1' N 139° 15.4' E	Fl.G. period 4s	43 13	5	White tower; 31.	
3424 F 7088.8	Nezugaseki Ko, SSW.	38° 29.0' N 139° 30.7' E	F.Fl.G. period 4s	49 15	F. 7 Fl. 12	White round concrete structure; 31.	
3428 F 7088	Nezugaseki Ko, Benten Shima, SW. head.	38° 33.2' N 139° 32.6' E	Fl.(2)W. period 7s	70 21	14	White round concrete tower; 46.	
3432 F 7088.4	Nezugaseki Ko, W. breakwater.	38° 33.0' N 139° 33.0' E	F.Fl.R. period 5s	49 15	F. 6 Fl. 12	Red cylindrical concrete tower; 36.	
3436 F 7088.6	-E. breakwater.	38° 33.6' N 139° 32.8' E	Iso.G. period 6s	43 13	12	White cylindrical concrete tower; 31.	
3440 F 7087.8	Hato Saki.	38° 41.0' N 139° 37.9' E	Iso.W. period 6s	131 40	17	White cylindrical concrete tower; 33.	
3444 F 7087.9	Ryotoan Jima.	38° 41.0' N 139° 37.0' E	Fl.(2)W. period 5s	52 16	12	ISOLATED DANGER BRB, beacon, topmark; 29.	
3456 F 7087.4	Yura Ko, W. breakwater.	38° 43.0' N 139° 41.0' E	Fl.R. period 3s	39 12	12	Red cylindrical concrete structure; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3456.1 <i>F 7087.3</i>	-Outer breakwater.	38° 43.3' N 139° 40.5' E	Fl.(2)R. period 5s	52 16	11	Red tower; 29.	
3460 <i>F 7087</i>	Arasaki.	38° 46.0' N 139° 44.0' E	Fl.W. period 5s	108 33	16	Cylindrical concrete tower; 39.	
3464 <i>F 7087.1</i>	-N. breakwater.	38° 45.8' N 139° 44.0' E	Iso.G. period 6s	43 13	12	White tower; 33.	
3468 <i>F 7087.2</i>	-Inner breakwater.	38° 45.7' N 139° 44.2' E	F.Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	36 11	F. 6 Fl 11	Red cylindrical concrete tower; 28.	
3470 <i>F 7086</i>	Syonai, AVIATION LIGHT.	38° 48.9' N 139° 47.5' E	Al.Fl.W.G. period 4.3s	171 52			Occasional.
SAKATA KO:							
3472 <i>F 7082</i>	-Sakata.	38° 56.0' N 139° 49.0' E	Fl.W. period 8s	135 41	18	White cylindrical concrete tower; 98.	Visible 018°-198°. Radiobeacon about 285 yards NE. DGPS Station about 285 yards NE.
3476 <i>F 7082.5</i>	-Groin, head.	38° 56.9' N 139° 48.9' E	Iso.R. period 6s	46 14	12	Red cylindrical metal framework tower; 36.	
3480 <i>F 7084</i>	-S. breakwater, N. head.	38° 55.9' N 139° 48.1' E	Fl.(2)R. period 5s	56 17	13	Red cylindrical concrete structure; 54.	
3484 <i>F 7083</i>	-N. breakwater, head.	38° 55.6' N 139° 48.4' E	Fl.(2)G. period 7s	62 19	13	White cylindrical concrete tower;	Visible 293°-219°. 46.
3488 <i>F 7085</i>	Wave observation tower.	39° 00.3' N 139° 46.9' E	Mo.(U)W. period 15s	64 20	7		
3492 <i>F 7080</i>	Fukura Ko, S. breakwater.	39° 04.0' N 139° 53.0' E	F.Fl.G. period 3s	39 12	5	Red cylindrical concrete structure; 31.	
3496 <i>F 7077</i>	Ugo Misaki.	39° 07.0' N 139° 52.0' E	Fl.(2)W. period 7s	223 68	20	White cylindrical concrete tower; 33.	
3500 <i>F 7077.4</i>	Kosagawa Ko, No. "1" breakwater.	39° 07.0' N 139° 53.0' E	Iso.R. period 8s	39 12	11	Red round concrete tower; 31.	
3504 <i>F 7076</i>	Tobi Shima.	39° 12.0' N 139° 33.4' E	Fl.W. period 10s	269 82	20	White cylindrical concrete tower; 46.	
RAMARK							
3506 <i>F 7076.1</i>	Hoki, breakwater, SE. head.	39° 12.1' N 139° 33.9' E	Fl.R. period 5s	36 11	6	Red tower; 31.	
3508 <i>F 7076.3</i>	Tobi Shima Ko, middle breakwater.	39° 11.0' N 139° 33.0' E	Fl.R. period 3s	43 13	12	Red cylindrical concrete tower; 28.	
3512 <i>F 7076.2</i>	Tobi Shima Ko, S. breakwater, head.	39° 10.9' N 139° 33.2' E	Fl.G. period 3s	39 12	8	White round concrete tower; 28.	
3513 <i>F 7075.5</i>	-S. end.	39° 11.1' N 139° 32.5' E	Fl.(3)W. period 17s	92 28	14	White tower, 25.	
3516 <i>F 7075</i>	Kisakata Ko, S. breakwater, head.	39° 11.9' N 139° 54.0' E	Iso.G. period 6s	32 10	11	White cylindrical concrete tower; 28.	
3520 <i>F 7072</i>	Konoura Ko, on hill.	39° 15.2' N 139° 54.9' E	Fl.W. period 4s	59 18	13	White square concrete tower;	Storm signals. 36.
3524 <i>F 7072.4</i>	-N. breakwater.	39° 15.1' N 139° 54.8' E	Fl.(2)G. period 6s	46 14	8	White cylindrical concrete tower; 28.	
HIRASAWA KO:							
3528 <i>F 7070</i>	-E. breakwater, head.	39° 17.5' N 139° 57.8' E	Iso.G. period 6s	39 12	11	White cylindrical concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3532 F 7071	-W. jetty, head.	39° 17.5' N 139° 57.8' E	F.FI.R. period 5s	33 10	F. 6 Fl 11	Red cylindrical concrete tower; 28.	
3536 F 7069.4	Honyo.	39° 24.2' N 140° 01.7' E	Iso.W. period 8s	79 24	14	White hexagonal concrete structure; 36.	
3540 F 7069.6	-Breakwater, head.	39° 23.0' N 140° 01.0' E	Iso.G. period 4s	46 14	12	White cylindrical concrete structure; 46.	
3544 F 7069	Matsugasaki.	39° 30.0' N 140° 02.0' E	Fl.W. period 5s	82 25	15	White cylindrical concrete tower; 36.	
3548 F 7066.5	Akita Ko.	39° 46.2' N 140° 01.1' E	Fl.(2)R. period 5s	62 19	13	Red tower; 53.	
3552 F 7066	Akita Ko, S. breakwater, inner head.	39° 45.6' N 140° 02.3' E	Fl.R. period 5s	49 15	5	Red round concrete structure; 36.	
3556 F 7067	Akita Ko, E. inner breakwater.	39° 46.0' N 140° 02.0' E	Iso.G. period 6s	42 13	12	White cylindrical concrete tower; 36.	
3560 F 7061	Omnagawa.	39° 51.5' N 139° 49.2' E	Fl.W.R. period 4s	161 49	12	Red and white round concrete structure; 62.	R. 255°-299°, W.-089°, obscured elsewhere.
3562 F 7061.4	Hunagawa, Sea Berth.	39° 51.3' N 139° 51.8' E	Mo.(U)W. period 15s	102 31	14		Mo.(U)W. 15s 7M 270 meters NW. and 230 meters SSE. Horn: Mo.(U) 30s. Radar reflector.
3564 F 7062	Funakawa, S. breakwater, head.	39° 52.3' N 139° 52.2' E	Iso.G. period 4s	49 15	12	White hexagonal metal framework structure, concrete base; 46.	
3568 F 7063.5	-Asiyawa, S. breakwater.	39° 52.5' N 139° 51.6' E	Fl.R. period 3s	36 11	9	Red tower; 32.	
3572 F 7063.4	-Asiyawa, N. breakwater.	39° 52.7' N 139° 51.5' E	Fl.(2)G. period 6s	23 7	6	White cylindrical concrete structure; 19.	
3574 F 7062.7	-Minami-Hirasawa, breakwater.	39° 51.0' N 139° 51.9' E	Fl.G. period 3s	52 16	8	White round concrete tower; 36.	
3576 F 7063.3	-Hunagawa Kanegawa, breakwater, S. head.	39° 52.8' N 139° 51.6' E	Fl.(2)R. period 6s	28 9	6	Red round concrete structure; 19.	
3580 F 7064	Wakimoto Ko, breakwater.	39° 54.0' N 139° 54.0' E	Iso.G. period 6s	33 10	11	White round concrete tower; 28.	
3584 F 7060	Tsubaki Ko, W. breakwater.	39° 52.0' N 139° 47.0' E	F.FIG. period 5s	39 12	F. 5 Fl 11	White cylindrical concrete tower; 31.	
3588 F 7059.6	-Tateyama Saki.	39° 51.5' N 139° 46.7' E	F.W.	157 48		White square concrete tower; 33.	Illuminates beacon on Mituguri Shima 850 meters SE.
3592 F 7059.5	Shioya Misaki.	39° 51.3' N 139° 45.6' E	Iso.W. period 8s	59 18	13	White cylindrical structure; 31.	
3596 F 7058.9	Toga Ko breakwater.	39° 57.0' N 139° 43.0' E	Fl.(2)R. period 6s	49 15	9	Red cylindrical concrete tower; 36.	
3600 F 7058.8	-S. side, on island.	39° 56.7' N 139° 42.3' E	Fl.W. period 5s	69 21	14	White tower; 33.	
3604 F 7058	Nyudo Saki.	40° 00.2' N 139° 42.2' E	Fl.W. period 15s	186 57	20	Cylindrical concrete tower, black and white bands; 92.	Visible 010°-293°. F.W. illuminates beacon on Mizu Shima 1,080 meters NNW. Storm signals.
RAMARK							
3608 F 7057.4	Yunosiri Ko.	39° 58.6' N 139° 45.3' E	F.FI.R. period 4s	39 12	F. 6 Fl 11	Red tower; 36.	
3612 F 7057	Kitaura Ko, breakwater.	39° 58.0' N 139° 47.0' E	Iso.R. period 6s	36 11	11	Red cylindrical concrete tower; 30.	F.W. spotlight illuminates E. head of breakwater.
3620 F 7057.2	-Kitaura Ko, detached breakwater, E. head.	39° 57.4' N 139° 47.9' E	Fl.R. period 3s	39 12	9	Red tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3622	Nosiro Ko, breakwater.	40° 12.0' N 139° 58.9' E	Fl.(2)R. period 6s	43 13	9		
3624 F 7056	Noshiro Minato, Yoneshiro Gawa entrance.	40° 13.0' N 140° 02.0' E	Fl.R. period 3s	46 14	9	Red cylindrical concrete tower; 36.	
3628 F 7055.9	Hachimori, No. "1" breakwater.	40° 22.3' N 140° 00.2' E	Iso.G. period 6s	49 15	12	White round concrete tower; 39.	
3632 F 7055.8	Iwadate Ko, No. "2" breakwater.	40° 23.8' N 139° 58.6' E	F.FI.G. period 5s	49 15	F. 5 Fl 12	White round concrete tower; 28.	
3636 F 7055.5	Sugo Saki.	40° 25.0' N 139° 57.0' E	Fl.W. period 5s	154 47	18	White quadrangular concrete tower; 46.	Visible from 318°-146°.
3640 F 7055.2	Kyuroku Shima.	40° 32.0' N 139° 30.0' E	Fl.W. period 8s	66 20	12	White cylindrical concrete tower; 62.	
3644 F 7055.1	Iwasaki Ko, No. "2" breakwater.	40° 34.8' N 139° 54.8' E	Iso.G. period 6s	43 13	12	White round concrete tower; 31.	
3646 F 7055.12	-Inner breakwater.	40° 34.9' N 139° 55.0' E	Fl.(2)G. period 7s	36 11	5	White tower; 18.	
3648 F 7055.14	Iwasaki Ko, breakwater.	40° 35.0' N 139° 52.7' E	F.FI.G. period 3s	49 15	F. 5 Fl 12	White tower; 28.	
3652 F 7055	Henashi Saki.	40° 36.0' N 139° 52.0' E	Fl.W. period 10s	223 68	21	White cylindrical concrete tower; 79.	
3656 F 7054.2	Fukaura, breakwater, head.	40° 38.5' N 139° 55.7' E	F.FI.R. period 6s	36 11	F. 11 Fl 8	Red cylindrical concrete structure; 31.	
3658 F 7054.4	-Breakwater, N. head.	40° 38.9' N 139° 55.4' E	Fl.R. period 3s	49 15	4	Tower; 36.	
3660 F 7054	-Outer breakwater, head.	40° 38.8' N 139° 55.5' E	F.FI.G. period 6s	39 12	F. 5 Fl. 11	White cylindrical concrete structure; 36.	
3664 F 7053.8	Toriisaki.	40° 45.0' N 140° 00.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	89 27	15	Cylindrical concrete structure, red and white bands; 33.	F.W. auxiliary light illuminates reef NNW.
3668 F 7053.6	Odose Saki.	40° 45.9' N 140° 03.6' E	Fl.W. period 12s	177 54	19	White tower; 44.	
3670 F 7053.3	-Approach.	40° 45.1' N 140° 05.8' E	Fl.(2)R. period 7s	43 13	6	Red tower; 19.	
3672 F 7052	Azigasawa Ko.	40° 47.0' N 140° 13.0' E	Iso.R. period 6s	42 13	12	Red cylindrical concrete tower; 36.	
3674 F 7052.5	-NE. breakwater.	40° 46.9' N 140° 12.8' E	Fl.(2)G. period 6s	29 9	6	White tower; 18.	
3676 F 7053	E. breakwater.	40° 46.9' N 140° 12.7' E	Fl.G. period 3s	36 11	6	White tower; 31.	
3680 F 7048	Jusan Ko, S. jetty.	41° 02.0' N 140° 20.0' E	Fl.R. period 3s	31 9	11	Red cylindrical concrete tower; 22.	
3688 F 6673	Kokomari Misaki.	41° 07.3' N 140° 15.2' E	Iso.W. period 6s	255 78	22	White cylindrical concrete tower; 43.	Visible 297°-190°. Emergency light Fl.W. 5s 12M.
3692 F 6672	-N.	41° 08.1' N 140° 15.6' E	Fl.W. period 4s	292 89	20	White cylindrical concrete tower; 33.	
3696 F 6668	-N. breakwater, head.	41° 08.0' N 140° 18.0' E	Fl.R. period 3s	42 13	12	Red cylindrical concrete structure; 29.	
3700 F 6670	-E. breakwater, head.	41° 07.9' N 140° 17.8' E	Fl.G. period 3s	43 13	12	White cylindrical concrete structure, quadrangular concrete base; 28.	
3704 F 6662	Tappi Saki.	41° 15.5' N 140° 20.5' E	Fl.(2)W. period 20s	390 119	27	White tower; 45.	Visible 029°-280°.

Section 3

North and East Coasts of Honshu Including Nampo Shotō

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3706 F 6663	-Tappi Ko approach.	41° 15.5' N 140° 21.1' E	Iso.R. period 4s	33 10	7	Red tower; 22.	
3708 F 6658	-Minmaya Ko, breakwater, head.	41° 12.0' N 140° 26.0' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 30.	
3712 F 6657	Takano Saki.	41° 13.5' N 140° 33.1' E	Iso.W. period 6s	115 35	16	Round tower, red and white bands; 33.	
3714 F 6657.5	-Breakwater, head.	41° 13.4' N 140° 33.9' E	Fl.R. period 3s	36 11	11	Red tower; 28.	
3716 F 6654	Tairadate, on Myojin Saki, W. side of entrance to Mutsu Kaiwan.	41° 10.0' N 140° 39.0' E	Fl.W. period 5s	75 23	14	White round concrete tower; 72. Visible 166°-358°.	
3720 F 6656	-E. breakwater.	41° 09.0' N 140° 39.0' E	Iso.G. period 8s	31 9	11	White round concrete tower; 28.	
3724 F 6651	Kaunita Ko, breakwater, head.	41° 02.7' N 140° 39.1' E	Iso.G. period 6s	43 13	12	White round concrete tower; 36.	
3726 F 6650.7	Usirogata Ko.	40° 55.9' N 140° 40.2' E	Fl.R. period 3s	26 8	6	Red concrete tower; 19.	
3728 F 6650.5	Okunai Ko.	40° 53.4' N 140° 41.0' E	Fl.(2)R. period 6s	24 7	6	Red tower; 19.	
3730 F 6650	-Aomori Ko.	40° 51.0' N 140° 43.0' E	Iso.R. period 4s	32 10	11	Red round concrete structure; 28.	
3731 F 6649	-Okidate, W. breakwater.	40° 50.7' N 140° 43.4' E	Fl.R. period 4s	36 11	11	Red tower; 31.	
3732 F 6647	-N. breakwater, E. light.	40° 50.1' N 140° 44.8' E	Fl.(3)R. period 12s	33 10	10	Red round concrete tower; 29.	
3734 F 6647.5	-E. breakwater, W. tower.	40° 50.1' N 140° 45.0' E	Fl.(3)G. period 12s	36 11	6	White round concrete tower; 32.	
3736 F 6645.2	-Tutumi Kawa, E. breakwater.	40° 50.0' N 140° 46.2' E	Fl.R. period 3s	26 8	6	Red round concrete tower; 18.	
3740 F 6643.5	Moura Ko.	40° 56.5' N 140° 52.4' E	Iso.G. period 6s	39 12	11	White tower; 35.	
3744 F 6643.2	Ino Ko.	40° 58.6' N 140° 52.4' E	Fl.R. period 3s	26 8	6	Red concrete structure; 19.	
3760 F 6643	O Shima.	41° 01.0' N 140° 53.0' E	Fl.W. period 7s	138 42	18	White round concrete tower; 32.	
3764 F 6642.5	Iotasawa, E. breakwater.	40° 59.0' N 140° 55.0' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 31.	
3768 F 6642	Yasui Saki.	40° 58.0' N 140° 59.0' E	Iso.W. period 4s	82 25	15	White square concrete tower; 39.	
3772 F 6641.7	Kominato Ko.	40° 57.0' N 140° 59.0' E	Fl.R. period 3s	43 13	12	Red round concrete tower; 36.	
3776 F 6641.6	-Breakwater, head.	40° 56.3' N 140° 59.1' E	Fl.R. period 5s	36 11	11	Red tower; 31.	
3778 F 6641.4	-Simizugawa Ko, breakwater, S. head.	40° 55.5' N 141° 01.7' E	Fl.R. period 3s	26 8	6	Red tower; 19.	
3780 F 6641	Noheji Ko, W. breakwater.	40° 52.0' N 141° 07.0' E	Fl.(2)R. period 6s 2 fl. 3s, ec. 3s	39 12	11	Red round concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3788 <i>F 6641.2</i>	-Easternmost breakwater, head.	40° 52.3' N 141° 07.9' E	Iso.R. period 6s	39 12	11	Red tower; 31.	
3790 <i>F 6640.4</i>	Yokohama Ko, breakwater.	41° 05.1' N 141° 14.8' E	Oc.R. period 5s lt. 4s, ec. 1s	39 12	11	Red round concrete tower; 28.	
3800 <i>F 6640.25</i>	Hamaokunai Ko, W. breakwater.	41° 12.1' N 141° 15.5' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
3802 <i>F 6640.2</i>	Ominato Ko, breakwater, head.	41° 16.4' N 141° 10.8' E	Oc.R. period 4s	33 10	11	Red tower; 28.	
3804 <i>F 6640</i>	Kuro Saki.	41° 10.9' N 141° 03.7' E	Fl.W. period 4s	72 22	14	Tower, black and white bands; 39.	
3806 <i>F 6639</i>	Kawauchi Ko, breakwater.	41° 11.7' N 140° 59.1' E	Fl.G. period 4s		5		
3808	Kawauti Wan.	41° 11.2' N 140° 57.8' E	Fl.(2)G. period 6s		3		
3809 <i>F 6638.4</i>	Wakinosawa Ko, breakwater.	41° 08.4' N 140° 49.8' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 32.	
3810 <i>F 6638</i>	Mutsu Benten Shima.	41° 07.0' N 140° 49.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	118 36	14	Round concrete tower, black and white bands; 39.	
3811 <i>F 6637.4</i>	Usitaki Ko.	41° 17.4' N 140° 48.2' E	Iso.R. period 6s	40 12	7	Red tower; 19.	
3812 <i>F 6637</i>	Oyo Jima.	41° 24.0' N 140° 49.0' E	Fl.W. period 3s	61 19	12	White round concrete tower; 31.	
3816 <i>F 6636.7</i>	Sai Ko, breakwater.	41° 26.0' N 140° 51.9' E	Fl.(2)R. period 6s	43 13	10	Red tower; 30.	
3818	Okoppe Ko.	41° 29.5' N 140° 54.4' E	Fl.R. period 3s	33 10	6	Red tower; 18.	
3828 <i>F 6636.3</i>	Oma Ko, S. approach.	41° 31.6' N 140° 54.1' E	Fl.(2)R. period 6s	29 9	6	Red tower; 22.	
3828.2 <i>F 6636</i>	-W. breakwater.	41° 31.7' N 140° 54.4' E	Iso.R. period 6s	43 13	12	Red tower; 31.	
3828.4 <i>F 6636.2</i>	-N. breakwater.	41° 31.7' N 140° 54.5' E	Iso.G. period 6s	39 12	11	White tower; 31.	
3828.6	-N. approach.	41° 32.0' N 140° 54.5' E	Fl.R. period 3s	31 9	6	Red tower; 18.	
3830 <i>F 6635</i>	Genbei Syo.	41° 33.0' N 140° 54.8' E	Fl.(2)W. period 5s	24 7	3	ISOLATED DANGER BRB, beacon, topmark; 21.	
3832 <i>F 6634</i>	Oma-zaki.	41° 31.8' N 140° 54.0' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	118 36	17	Round concrete tower, black and white bands; 83.	Horn: 1 bl. ev. 50s (bl. 10s, si. 40s).
RACON				(•••••)		11	
3833 <i>F 6635.4</i>	Sitatehama Ko, breakwater.	41° 32.6' N 140° 55.5' E	Fl.(2)G. period 6s	33 10	5	White tower; 18.	
3834 <i>F 6633.8</i>	Oma Saki, SE.	41° 29.3' N 141° 00.1' E	Fl.G. period 4s	43 13	12	White tower; 28.	
3835 <i>F 6636.6</i>	Akaiwa Saki.	41° 28.1' N 141° 05.8' E	Fl.R. period 3s	29 9	6	Red concrete structure; 19.	
3836 <i>F 6633.5</i>	Ohata Ko, S. of E. breakwater.	41° 24.4' N 141° 10.8' E	F.FI.R. period 4s	49 15	F. 9 FI. 12	Red round concrete structure; 36.	
3840 <i>F 6632</i>	-E. breakwater.	41° 24.7' N 141° 10.4' E	Iso.G. period 6s	36 11	11	White round concrete tower; 30.	
3844 <i>F 6633</i>	-N. breakwater.	41° 24.7' N 141° 10.3' E	Iso.R. period 6s	36 11	7	Red round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3845 <i>F 6631.4</i>	Sekinehama Ko.	41° 22.0' N 141° 14.4' E	Dir.F.W.R.G.	43 13	W. 10 R. 9 G. 9	White tower; 32.	G. 255°-258°30', W.-261°30', R.-265°. Emergency light W. 0.5M, R. 0.5M, G. 0.5M.
3846 <i>F 6631.5</i>	-W. breakwater.	41° 22.0' N 141° 14.8' E	Fl.R. period 4s	46 14	12	Red concrete structure; 31.	
3846.1 <i>F 6631.8</i>	-NW. breakwater.	41° 22.2' N 141° 13.9' E	Fl.R. period 3s	33 10	3		
3846.5 <i>F 6631.6</i>	-E. breakwater.	41° 22.0' N 141° 14.6' E	Fl.G. period 4s	46 14	11	White tower; 32.	
3847 <i>F 6631.2</i>	Mutuiwaya Ko.	41° 23.5' N 141° 25.0' E	Fl.R. period 3s	29 9	6	Red round concrete tower; 21.	
3848 <i>F 6631</i>	Shiriya Ko, Shiriya, breakwater.	41° 25.0' N 141° 26.0' E	F.Fl.G. period 6s	39 12	F. 5 Fl. 11	White round concrete tower; 31.	
JAPAN-HONSHU-EAST COAST							
3852 <i>F 6630</i>	Siriya Saki.	41° 25.7' N 141° 27.9' E	Fl.W. period 10s	151 46	18	White round brick tower; 108.	Visible 052°-003°. F.W. spotlight illuminates O Ne 0.87 mile ENE. Radio beacon. Calibration Radio beacon. DGPS Station.
RAMARK							
3856 <i>F 6628.8</i>	Kukidono Saki.	41° 23.5' N 141° 27.6' E	Iso.R. period 4s	43 13	12	Red tower; 31.	
3860 <i>F 6628</i>	Shiranuka Ko.	41° 07.8' N 141° 23.9' E	Fl.W. period 4s	125 38	17	White round concrete tower; 46.	
3872 <i>F 6628.4</i>	-Shima, breakwater.	41° 07.8' N 141° 23.9' E	Fl.(2)G. period 6s	36 11	11	White round concrete tower; 33.	
3876 <i>F 6628.2</i>	Siranuka Ko, N. breakwater.	41° 05.9' N 141° 23.9' E	Iso.R. period 4s	42 13	12	Red round concrete structure; 31.	F.W. spotlight 100 meters NE. illuminates E. breakwater.
3878 <i>F 6627.4</i>	Mutu Ogawara Ko.	40° 55.4' N 141° 24.2' E	F.Fl.(2)G. period 7s	52 16	F. 6 Fl. 13	White tower; 42.	
3880 <i>F 6627</i>	Mutsu Shiogama.	40° 48.0' N 141° 24.0' E	Iso.W. period 6s	102 31	16	White square metal framework tower; 49.	
3884 <i>F 6625.7</i>	Oka-Misawa.	40° 40.7' N 141° 26.6' E	Fl.G. period 3s	43 13	12	White tower; 31.	
3888 <i>F 6626</i>	Oka-Misawa AVIATION LIGHT.	40° 41.1' N 141° 22.8' E	Al.Fl.(2+1)W.G. period 10s	230 70		Metal framework tower.	
HACHINOHE KO:							
3892 <i>F 6625</i>	-Hachinohe, AVIATION LIGHT.	40° 32.8' N 141° 27.4' E	Al.Fl.W.G. period 10s	171 52		Metal framework tower.	
3896 <i>F 6620</i>	-Same Kaku.	40° 32.2' N 141° 34.9' E	Fl.W. period 8s	190 58	20	White round structure; 75.	
-RAMARK							
3900 <i>F 6621</i>	-O Saki.	40° 32.0' N 141° 34.0' E	F.W.	72 22		White round concrete tower; 28.	Illuminates Hinode Iwa about 430 meters NNW.
3904 <i>F 6624.8</i>	-N. breakwater, head.	40° 33.5' N 141° 31.7' E	Fl.(2)R. period 9s	59 18	13	Red tower; 52.	
3906 <i>F 6624.85</i>	-Detached breakwater, N. head.	40° 33.6' N 141° 32.3' E	Fl.(2)G. period 6s	56 17	12	White concrete tower; 53.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
3908 <i>F 6625.5</i>	Hatitaro, E. breakwater.	40° 33.1' N 141° 30.9' E	Fl.(2)G. period 9s 2 fl. 3s, ec. 6s	49 15	6	White round concrete structure; 33.	
3916 <i>F 6624.7</i>	--W. breakwater, head.	40° 32.1' N 141° 31.4' E	Fl.R. period 3s	43 13	7	Red tower; 31.	Bridge 620 meters SE, marked by F.Y., Iso.G., Iso.W. and Iso.R.
3920 <i>F 6622</i>	-N. detached breakwater, W. head.	40° 32.2' N 141° 33.1' E	Fl.G. period 4s	43 13	12	White round concrete structure; 33.	
3922 <i>F 6623.6</i>	-Aomori, breakwater, S. head.	40° 32.0' N 141° 32.2' E	Fl.R. period 5s	43 13	12	Red tower; 31.	
3924 <i>F 6623</i>	-W. breakwater, NE. head.	40° 32.3' N 141° 32.8' E	Fl.R. period 3s	49 15	6	Red quadrangular metal structure; 22.	
3928 <i>F 6623.2</i>	-Middle breakwater, W. head.	40° 32.3' N 141° 32.0' E	Fl.G. period 5s	43 13	6	White concrete structure; 31.	
3936 <i>F 6624</i>	-Inner breakwater, N. head.	40° 31.9' N 141° 33.4' E	F.FI.R. period 6s	39 12	F. 6 Fl 11	Red round concrete structure; 36.	
3940 <i>F 6624.4</i>	-Kabu Shima Jetty.	40° 32.0' N 141° 33.5' E	F.FI.G. period 6s	33 10	F. 5 Fl 11	White round concrete tower; 28.	
3941 <i>F 6619</i>	Ozya Ko.	40° 28.2' N 141° 39.3' E	Fl.R. period 3s	33 10	6	Red concrete tower; 19.	
3942 <i>F 6618.4</i>	Kominato Ko.	40° 27.1' N 141° 40.6' E	Iso.G. period 4s	39 12	6	White round concrete structure; 19.	
3944 <i>F 6618</i>	Hajikami.	40° 26.9' N 141° 41.1' E	Fl.W. period 4s	72 22	14	White tower; 36.	
3948 <i>F 6615</i>	Taneti Ko, E. breakwater.	40° 24.1' N 141° 43.7' E	Fl.(2)R. period 6s	43 13	9	Red round concrete tower; 32.	
3952 <i>F 6614</i>	Taneti Ko.	40° 24.0' N 141° 43.3' E	Dir.F.W.R.G.	53 16	13	White round concrete tower; 46.	R. 255°30'-257°30', W.- 261°30', G.-263°30'.
3956 <i>F 6612</i>	Yagi Ko, entrance Range, front.	40° 20.6' N 141° 46.0' E	F.G.	95 29	10	White round concrete tower, triangular daymark; 25.	
3960 <i>F 6612.1</i>	-Rear, 490 meters 236°42' from front.	40° 20.6' N 141° 46.0' E	F.G.	154 47	10	White round concrete tower, triangular daymark; 36.	
3964 <i>F 6613</i>	Yagi Minami Ko.	40° 20.7' N 141° 46.4' E	Iso.G. period 6s	26 8	6	White round concrete tower; 19.	
3968 <i>F 6613.3</i>	-Yagi Ko.	40° 20.8' N 141° 46.4' E	F.FI.R. period 3s	46 14	F. 6 Fl 12	Red round concrete tower; 33.	
3972 <i>F 6608</i>	Ushi Shima.	40° 13.0' N 141° 50.3' E	Iso.W. period 6s	233 71	20	White round concrete tower; 36.	Auxiliary F.W. illuminates reef about 0.7 mile SE.
3976 <i>F 6610</i>	-N. breakwater.	40° 11.0' N 141° 49.0' E	F.FI.R. period 6s	43 13	F. 8 Fl 12	Red round concrete structure; 33.	
3978 <i>F 6610.3</i>	-Outer breakwater.	40° 11.2' N 141° 49.0' E	Iso.R. period 6s	46 14	12	Red concrete structure; 28.	
3980 <i>F 6609</i>	-S. breakwater.	40° 11.0' N 141° 48.5' E	F.FI.G. period 6s	49 15	F. 5 Fl 12	White round concrete tower; 33.	
3982 <i>F 6610.6</i>	Kuzi Ko, breakwater, head.	40° 10.0' N 141° 51.2' E	Fl.G. period 3s	36 11	5	White round concrete tower; 22.	
3983 <i>F 6607.8</i>	Rituyu Kuki Ko.	40° 07.7' N 141° 51.5' E	Fl.(2)R. period 6s	36 11	6	Red concrete tower; 19.	
3984 <i>F 6607.5</i>	Noda Wan.	40° 06.7' N 141° 50.3' E	F.FI.R. period 3s	43 13	F. 6 Fl 12	Red tower; 31.	
3986 <i>F 6607.4</i>	Horinai Ko.	40° 03.1' N 141° 51.9' E	Fl.(2)R. period 6s	49 15	6	Red concrete tower; 33.	
3988 <i>F 6607</i>	Otanabe Ko, breakwater, head.	40° 00.6' N 141° 54.7' E	Iso.G. period 4s	46 14	12	White round concrete structure; 33.	

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JAPAN-HONSHU-EAST COAST							
3992 F 6606	Ma (Kuro) Saki.	40° 00.3' N 141° 56.4' E	Fl.W. period 5s	469 143	29	White round tower; 39.	Visible 082°-332°.
3996 F 6605.8	Rikutyu.	39° 56.7' N 141° 57.8' E	Fl.(2)W. period 7s	321 98	20	Round concrete tower, red and white bands; 33.	
4000 F 6605.4	Shimano Koshi, breakwater.	39° 54.8' N 141° 56.9' E	Iso.G. period 6s	46 14	12	White round concrete structure; 31.	
4004 F 6605.2	Omoto.	39° 50.2' N 141° 59.0' E	Fl.(4)W. period 15s	246 75	20	White round concrete tower; 28.	
4006 F 6605.25	-SE.	39° 49.6' N 141° 59.1' E	Iso.R. period 4s	39 12	7	Red round structure; 22.	
4008 F 6605	Ma Saki.	39° 45.0' N 142° 00.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	259 79	20	White round concrete tower; 31.	
4012 F 6604.5	-Taro Ko.	39° 43.7' N 141° 58.8' E	Iso.R. period 8s	46 14	12	Red round concrete structure; 31.	
4014 F 6604.2	Yado Ko.	39° 41.2' N 141° 58.6' E	Fl.(2)G period 6s	44 13	12	White round concrete tower; 36.	
4015	Takahama, breakwater.	39° 35.9' N 141° 57.5' E	Fl.R. period 5s	23 7	6		
4016 F 6604	-Kanbayasi, breakwater, S. head.	39° 37.0' N 141° 58.0' E	Fl.R. period 3s	46 14	12	White square metal framework tower; 29.	
4018 F 6603.5	Miyako Ko, S. breakwater, head.	39° 37.6' N 141° 58.8' E	Fl.(2)R. period 6s	39 12	11	Red concrete tower; 31.	
4020 F 6603	Miyako Wan, breakwater, head.	39° 38.0' N 141° 59.0' E	Iso.R. period 6s	36 11	11	Red round concrete structure; 31.	
4024 F 6602	Hei Saki.	39° 39.1' N 142° 01.7' E	Iso.W. period 6s	184 56	20	White round concrete tower; 33.	
RAMARK							
4025 F 6600	Otobe Ko.	39° 35.9' N 142° 02.0' E	Fl.G. period 3s	33 10	5	White round concrete tower; 22.	
4026 F 6599	Omoe Ko.	39° 34.4' N 142° 02.2' E	Fl.R. period 4s	43 13	12	Red round concrete structure; 28.	
4028 F 6598	Todo Saki.	39° 32.6' N 142° 04.5' E	Fl.W. period 15s	190 58	20	White tower; 110.	Visible 168°-018°. Storm signals. Horn: 1 bl. ev. 30s (bl. 10s, si. 20s).
F.R.							
4036 F 6597.6	-E. breakwater.	39° 28.7' N 141° 58.9' E	Iso.R. period 6s	33 10	11	Red round concrete structure; 31.	Visible 342°-353°.
4040 F 6596	Kasano Hana.	39° 28.0' N 142° 01.0' E	Fl.W. period 4s	36 11	11	White round concrete tower; 26.	
4044 F 6597.35	Yamada, breakwater, head.	39° 27.8' N 141° 57.7' E	F.Fl.G. period 4s	39 12	F. 6 Fl 11	White round concrete tower; 32.	
4048 F 6597	Tarai Shima.	39° 27.2' N 141° 59.9' E	Fl.(2)W. period 5s	30 9	9	ISOLATED DANGER BRB, beacon, topmark; 24.	
4052 F 6597.3	Orikasa, N. breakwater.	39° 27.0' N 141° 58.0' E	F.Fl.(2)R. period 8s	33 10	F. 6 Fl 11	Red round concrete structure, 31.	
4056 F 6597.2	Oura Ko, breakwater, head.	39° 26.9' N 142° 00.1' E	Iso.G. period 4s	36 11	11	White tower; 31.	
4058	Koyadori Ko.	39° 25.3' N 142° 01.0' E	Fl.R. period 3s	32 10	3	Red tower; 16.	
4060 F 6595.1	O Shima.	39° 24.0' N 142° 00.0' E	Fl.W. period 3s	92 28	12	White round concrete structure; 36.	

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JAPAN-HONSHU-EAST COAST							
4064 <i>F 6595.5</i>	Benten Shima.	39° 24.4' N 141° 58.9' E	Fl.W. period 4s	59 18	12 36.	White round concrete structure;	
4068 <i>F 6595.4</i>	Rikutyu Hunakosi Ko, S. breakwater.	39° 24.9' N 141° 59.1' E	F.FI.R. period 3s	36 11	F. Fl 11	Red tower; 28.	
4072 <i>F 6595.7</i>	-N. breakwater, head.	39° 25.2' N 141° 59.0' E	Fl.R. period 3s	36 11	9	Red round concrete tower; 31.	
4076 <i>F 6595.2</i>	Kirikiri Ko, E. breakwater.	39° 22.3' N 141° 57.2' E	Iso.G. period 6s	31 9	11	White round tower; 28.	
4080 <i>F 6595.24</i>	-W. breakwater.	39° 22.2' N 141° 57.2' E	F.FI.R. period 4s	36 11	F. Fl 11	Red round concrete structure; 31.	
4084 <i>F 6595</i>	Otuti Ko.	39° 20.7' N 141° 56.1' E	Iso.R. period 6s	36 11	11	Red round tower; 24.	
4088 <i>F 6595.04</i>	-S. Breakwater, head.	39° 20.9' N 141° 55.6' E	F.(2)G. period 6s	36 11	8	White round concrete structure; 24.	
4092 <i>F 6594.5</i>	Shirahama, breakwater, head.	39° 19.7' N 141° 56.8' E	Fl.G. period 3s	40 12	11	White structure; 15.	
4096 <i>F 6594</i>	Ohako Saki.	39° 20.8' N 141° 59.9' E	Fl.(4)W. period 15s	233 71	18	White round concrete tower; 30.	
4098 <i>F 6593.3</i>	Kuwano hama.	39° 18.3' N 141° 54.6' E	Fl.(2)R. period 6s	26 8	7		
4100 <i>F 6593</i>	Naka Ne, on rock.	39° 18.0' N 141° 54.3' E	Fl.(2)W. period 5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark; 33.	
4104 <i>F 6593.2</i>	Ryoishi Ko, breakwater.	39° 18.0' N 141° 54.0' E	F.FI.G. period 5s	31 9	F. Fl 11	White round concrete structure; 28.	
4108 <i>F 6589.25</i>	Kamaishi Ko.	39° 15.5' N 141° 55.9' E	Fl.(2)R. period 6s	52 16	8	Red tower; 33.	
4113 <i>F 6589.3</i>	-S. breakwater, N. head.	39° 15.4' N 141° 55.9' E	Fl.G. period 3s	30 9	4	White tower; 7.	
KAMAISHI WAN:							
4116 <i>F 6592</i>	-N. breakwater, S. head.	39° 16.1' N 141° 53.9' E	Iso.G. period 6s	23 7	6	White round concrete structure; 18.	
4120 <i>F 6590.4</i>	-E. corner of public wharf.	39° 15.9' N 141° 53.9' E	Iso.G. period 6s	36 11	11	White round metal structure; 31.	
4124 <i>F 6591</i>	-W. breakwater, head.	39° 16.0' N 141° 54.0' E	Fl.G. period 3s	31 9	11	White round concrete structure; 28.	
4128 <i>F 6589.8</i>	Heida Ko, N. breakwater, head.	39° 14.8' N 141° 54.0' E	Fl.R. period 3s	26 8	6	Red concrete structure; 22.	
4132 <i>F 6589.4</i>	Shirahama, breakwater.	39° 14.0' N 141° 55.0' E	F.FI.G. period 4s	39 12	F. Fl 11		
4136 <i>F 6589</i>	O Zaki.	39° 14.7' N 141° 58.4' E	Fl.W. period 10s	374 114	26	White square concrete tower; 49.	
4140 <i>F 6588.4</i>	Kojirahama Ko, E. breakwater.	39° 12.0' N 141° 52.0' E	Iso.R. period 4s	33 10	11	Red round concrete structure, 28.	
4144 <i>F 6588.2</i>	Sikotu Saki.	39° 11.0' N 141° 55.7' E	Fl.W. period 3s	89 27	12	White round concrete structure; 33.	
4148 <i>F 6588</i>	Konpaku Ko, E. breakwater.	39° 09.1' N 141° 51.9' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 31.	
4152 <i>F 6587</i>	Kobe Saki.	39° 06.2' N 141° 55.3' E	Fl.W. period 5s	407 124	20	White round concrete tower; 33.	Reserve light Fl.R. 8s, visible from SW. only.
4156 <i>F 6586.6</i>	Rikutyu-Sakihama Ko, E. breakwater.	39° 06.0' N 141° 52.0' E	F.FI.(2)R. period 8s 2 fl. 3s, ec. 5s	36 11	F. Fl 11	Red round concrete tower; 28.	

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JAPAN-HONSHU-EAST COAST							
4160 F 6586.4	Okkirai Ko, E. breakwater, head.	39° 07.0' N 141° 49.0' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 31.	
4162 F 6586.2	Onizawa Ko.	39° 05.2' N 141° 48.9' E	Iso.G. period 4s	23 7	6	White concrete structure; 18.	
4164 F 6586	Ryori Saki.	39° 01.6' N 141° 51.2' E	Fl.W. period 15s	367 112	26	White square concrete structure; Obscured 062°-179°. 52.	
4165	-Ryori Saki RAMARK.	39° 01.7' N 141° 50.6' E					
4166 F 6584	Ryori Ko, breakwater.	39° 01.7' N 141° 47.7' E	Fl.(2)R. period 6s	43 13	9	Red tower; 33.	
4168 F 6585	-S. breakwater.	39° 02.0' N 141° 48.0' E	Fl.R. period 3s	36 11	11	Red round concrete structure; 28.	
4172 F 6582	Koori Saki.	39° 01.0' N 141° 46.0' E	Fl.W. period 4s	157 48	19		
4176 F 6582.2	Breakwater, head.	39° 01.0' N 141° 45.0' E	F.Fl.R. period 5s	43 13	F. Fl	6 12	
4180 F 6582.4	Ofunato Wan, S. breakwater, entrance.	39° 00.9' N 141° 44.1' E	Iso.G. period 6s	39 12	12	White round concrete structure; 31.	
4184 F 6582.6	-N. breakwater.	39° 01.0' N 141° 44.0' E	Fl.R. period 3s	39 12	9	Red round concrete tower; 32.	
4188 F 6583.5	-Sango Shima, S. extremity.	39° 02.0' N 141° 45.0' E	Fl.W. period 3s	63 19	13	White round concrete tower; 33.	
4192 F 6583.7	--N. extremity.	39° 02.1' N 141° 43.9' E	Iso.R. period 4s	109 33	14	Red round concrete structure; 28.	
4196 F 6583	Ofunato Ko Range, front.	39° 01.7' N 141° 43.0' E	F.R.	216 66	8	White quadrangular metal structure, quadrangular concrete base; 69.	
4200 F 6583.1	-Rear, about 200 meters 309° from front.	39° 01.7' N 141° 42.9' E	F.R.	276 84	8	White quadrangular metal framework structure; 26.	
4204 F 6583.3	-Hosoura fishery harbor, E. breakwater.	39° 01.1' N 141° 43.4' E	Fl.(2)G. period 5s	27 8	5	White round concrete tower; 19.	
4206 F 6583.4	-Detached breakwater.	39° 01.1' N 141° 43.8' E	Fl.(2)R. period 5s	30 9	6		
4208 F 6581	Goishi Saki.	38° 59.0' N 141° 44.7' E	Fl.(3)W. period 13s	128 39	17	White round concrete tower; 33.	
4212 F 6581.5	Kadonohama Wan.	39° 00.0' N 141° 43.0' E	F.Fl.R. period 3s	39 12	F. Fl	6 11	
4213 F 6581.2	Mutugaura Ko, breakwater, head.	38° 57.9' N 141° 42.5' E	Iso.G. period 4s	27 8	6	White tower; 19.	
4214 F 6572	Nesaki, N. breakwater, head.	38° 56.5' N 141° 42.6' E	Fl.(2)R. period 6s	30 9	7		
4216 F 6571	Tsubaki Shima.	38° 56.0' N 141° 43.0' E	Fl.W. period 6s	154 47	12	White round concrete structure; 33.	
HIROTA WAN:							
4220 F 6579	-Hirota Ko, breakwater, head.	38° 57.0' N 141° 41.5' E	F.Fl.R. period 4s	39 12	F. Fl	6 11	Red round concrete structure; 31.
4224 F 6578	-Akaiso Iwa, about 310 meters from Hirota Ko.	38° 56.9' N 141° 41.3' E	Mo.(A)R. period 3s	36 11	7	STARBOARD (B) R, beacon, topmark; 33.	
4228 F 6575	-Osabe Ko, detached breakwater.	38° 59.5' N 141° 38.0' E	Iso.R. period 4s	36 11	11		
4232 F 6574	--S. breakwater, head.	38° 59.4' N 141° 37.9' E	Iso.G. period 4s	33 10	11	White quadrangular metal framework structure; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
KESENNUMA WAN:							
4236 F 6570	-Rikuzen O Saki.	38° 51.3' N 141° 40.6' E	Iso.W. period 8s	138 42	18	White round concrete tower; 43.	
4240 F 6568	-Kara Shima.	38° 52.0' N 141° 39.0' E	Fl.W. period 5s	111 34	9	White round concrete tower; 33.	
4244 F 6569	-Yama Bana.	38° 51.0' N 141° 37.8' E	Fl.R. period 3s	43 13	12	Red concrete tower; 31.	
4246 F 6567.48	-Kosaba Ko, breakwater.	38° 52.7' N 141° 38.7' E	Iso.R. period 6s	30 9	7	Red concrete tower; 22.	
4248 F 6567	-Bansyo Ne, on reef.	38° 52.9' N 141° 37.4' E	Fl.G. period 3s	31 9	11	PORT (B) G, beacon, topmark; 28.	F.W. spotlight.
4252 F 6567.5	-Shibitachi Nakane.	38° 52.9' N 141° 38.3' E	Mo.(A)R. period 8s	36 11	7	STARBOARD (B) R, beacon, topmark; 33.	
4254 F 6567.3	-Breakwater, W.	38° 52.8' N 141° 36.3' E	Fl.R. period 3s	22 7	6	Red concrete tower; 19.	
4256 F 6566.5	-Ushikora, harbor entrance, E. side.	38° 52.6' N 141° 36.5' E	Fl.W. period 4s	69 21	14	Red round concrete tower; 20.	
4260 F 6567.2	-Range, front.	38° 54.0' N 141° 36.0' E	F.R.	217 66	10	White quadrangular metal framework structure; 39.	
4264 F 6567.21	--Rear, 690 meters 354°48' from front.	38° 53.9' N 141° 35.9' E	F.R.	354 108	10	White quadrangular metal framework structure; 59.	
4268 F 6566	-O Shima.	38° 50.0' N 141° 38.0' E	Fl.W. period 10s	121 37	17	White round concrete structure;	Horn: 2 bl. ev. 30s. 43.
4272 F 6567.4	To Wan.	38° 53.0' N 141° 38.0' E	Dir.F.W.R.G.	92 28	W. 15 R. 14 G. 15	White round concrete structure;	R. 329°30'-331°, W.-333°, G.- 334°30'.
4276 F 6564	Iwai Saki.	38° 49.5' N 141° 36.4' E	Oc.(3)W.R. period 13s Lt. 6s, ec. 1s Lt. 2s, ec. 1s Lt. 2s, ec. 1s	79 24	14	White tower; 56.	W. 089°-337°, R.-089° over reefs 2 km. SSE.
4280 F 6562	Hikado Ko, breakwater, head.	38° 48.3' N 141° 33.7' E	Iso.G. period 4s	39 12	11	White round concrete structure;	31.
4282 F 6561.6	Kurauti Ko.	38° 45.0' N 141° 32.0' E	Fl.R. period 3s	31 9	6	Red concrete structure; 22.	
4284 F 6560	Utatsu Saki.	38° 41.7' N 141° 33.8' E	Fl.W. period 3s	164 50	19	White tower; 35.	
4285 F 6560.2	Rikuzentomari Ko.	38° 42.1' N 141° 33.6' E	Iso.R. period 6s	26 8	7	Red concrete structure; 18.	
4286 F 6560.5	Isatomae Ko, breakwater, head.	38° 42.7' N 141° 31.7' E	Oc.G. period 4s	30 9	6	White tower; 22.	
4288 F 6561	Shizukawa, S. breakwater.	38° 40.0' N 141° 27.0' E	F.FI.G. period 5s	32 10	F. 5 Fl. 11	White round concrete tower; 28.	
4292 F 6558	Terahama.	38° 38.0' N 141° 31.9' E	Iso.W. period 6s	161 49	19	White quadrangular concrete tower; 33.	
4296 F 6557	Ogachi Hunagosi Ko, W. breakwater.	38° 32.1' N 141° 30.5' E	Oc.R. period 5s Lt. 4s, ec. 1s	33 10	11	Red tower; 31.	
4300 F 6556	Osu Zaki.	38° 31.1' N 141° 32.9' E	Iso.W. period 4s	164 50	19	White square concrete tower;	Visible 160°-006°. 39.
4304 F 6554	Shirogane Zaki.	38° 29.0' N 141° 32.0' E	Fl.(3)W. period 13s	125 38	17	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4308 <i>F 6555.2</i>	Ogati Ko Range, front.	38° 31.3' N 141° 28.4' E	F.G.	148 45	10	White round concrete structure; 36.	
4312 <i>F 6555.21</i>	-Rear, 137 meters 315° from front.	38° 31.4' N 141° 28.3' E	F.G.	190 58	10	White round concrete structure; 26.	
4316 <i>F 6555</i>	Aka Saki.	38° 30.0' N 141° 30.0' E	Fl.W. period 3s	112 34	16	White round concrete tower; 33.	
4320 <i>F 6549</i>	Yogono.	38° 26.1' N 141° 31.9' E	Iso.W. period 6s	190 58	17	White round tower; 32.	Siren: 1 bl. ev. 25s.
4324 <i>F 6549.5</i>	Yogouo Saki.	38° 26.2' N 141° 31.7' E	Iso.R. period 6s	36 11	11	Red round concrete tower; 32.	
4328 <i>F 6550</i>	Onagawa Ko, N. breakwater.	38° 26.0' N 141° 28.0' E	F.FI.R. period 5s	39 12	F. 8 Fl 11	Red round concrete structure; 31.	
4332 <i>F 6551</i>	-S. breakwater, head.	38° 26.0' N 141° 28.0' E	F.FIG. period 5s	39 12	F. 7 Fl 11	White round concrete tower; 32.	
4334 <i>F 6549.8</i>	Onagawa Wan, breakwater, N. head.	38° 24.1' N 141° 30.6' E	Fl.G. period 3s	46 14	6	White structure.	
4336 <i>F 6547</i>	Rikuzen Yeno Shima.	38° 24.0' N 141° 36.0' E	Fl.(2)W. period 10s 2 fl. 3s, ec. 7s	286 87	20	White quadrangular concrete structure; 33.	
4340 <i>F 6548</i>	-Haya Saki.	38° 24.0' N 141° 32.0' E	Fl.W. period 4s	312 95	20	White round concrete tower; 43.	F.W. auxiliary light, illuminates Minaminabakari NE. Rock, about 0.8 mile NNW.
4344 <i>F 6546</i>	Kinkazan.	38° 16.6' N 141° 35.0' E	AI.FI.W.R. period 20s	181 55	20	White tower; 42.	Visible 189°-045°. Storm signals. Signal station (day only).
Radiobeacon 185 meters NW. DGPS Station 185 meters NW.							
RAMARK							
4348 <i>F 6544</i>	Rikuzen Kuro Saki.	38° 16.2' N 141° 31.3' E	Iso.W. period 4s	214 65	20	White quadrangular metal framework tower, concrete base; 36.	
4352 <i>F 6545</i>	Domiki Saki.	38° 14.6' N 141° 30.2' E	Iso.W. period 8s	102 31	16	Round tower, red and white bands; 33.	F.W. auxiliary light illuminates Inu Iso about 490 meters ESE.
4354 <i>F 6545.7</i>	Hutawatasi Ko.	38° 15.4' N 141° 29.9' E	Fl.G. period 5s	26 8	3	White tower; 16.	
4356 <i>F 6542</i>	Aikawa Ko, breakwater, head.	38° 17.4' N 141° 30.5' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 31.	
4360 <i>F 6545.5</i>	Azi Sima.	38° 15.0' N 141° 28.0' E	Iso.R. period 4s	39 12	11		
4364 <i>F 6541</i>	Nitoda Ko, breakwater.	38° 17.5' N 141° 25.8' E	Iso.G. period 4s	39 12	11	White round concrete structure; 31.	
4366 <i>F 6540.5</i>	Rikazen Odomari Ko.	38° 18.1' N 141° 25.5' E	Fl.G. period 3s	33 10	5	White round concrete tower; 23.	
4368 <i>F 6540</i>	Nigishiro Saki.	38° 18.5' N 141° 25.3' E	Fl.(2)W. period 7s	157 48	19	White round concrete tower; 33.	Obscured 304°-063°.
4372 <i>F 6538</i>	Oginohama Ko, on Kitsuneana Saki.	38° 22.0' N 141° 26.0' E	Fl.W. period 3s	121 37	9	White round concrete structure; 32.	
4376 <i>F 6537</i>	-Momonoura Ko, breakwater, head.	38° 23.6' N 141° 26.0' E	Fl.(2)G. period 8s	27 8	6	White hexagonal tower; 25.	
4380 <i>F 6534</i>	Watanoaha, O Saki.	38° 23.0' N 141° 22.0' E	Fl.W. period 5s	118 36	12	White round tower; 39.	
4384 <i>F 6535.2</i>	Watanoha Ko Nagahama, breakwater.	38° 24.0' N 141° 22.0' E	Fl.FIG. period 6s	33 10	F. 5 Fl 11	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4388 F 6535	-S. breakwater, head.	38° 24.0' N 141° 22.1' E	Iso.R. period 6s	28 9	7	Red round concrete column; 18.	
4400 F 6533.4	-Gyoko, E. breakwater, head.	38° 24.4' N 141° 20.6' E	Fl.R. period 3s	43 13	12	Red round concrete structure; 33.	
4404 F 6533.6	--W. breakwater, head.	38° 24.4' N 141° 20.6' E	Fl.G. period 4s	43 13	12	White round concrete structure; 46.	
4408 F 6533	Ishinomaki Ko, W. breakwater, head.	38° 24.3' N 141° 18.9' E	Iso.G. period 4s	39 12	11	White round concrete tower; 36.	
4412 F 6532	-E. breakwater, S. head.	38° 24.3' N 141° 19.1' E	Iso.R. period 4s	36 11	11	Red octagonal concrete tower; 32.	
ISHINOMAKI KO:							
-Gyoko:							
4416 F 6533.8	--Range, front.	38° 25.0' N 141° 21.0' E	F.R.	39 12	9	Metal post, white triangular topmark; 31.	
4420 F 6533.81	--Rear, 68 meters 001°20' from front.	38° 24.9' N 141° 20.9' E	F.R.	62 19	9	Metal post, white triangular topmark. Floodlit.	
4424 F 6531	-Breakwater, head.	38° 23.7' N 141° 16.1' E	Fl.(2)R. period 6s	43 13	11		
4428 F 6530	Matushima AVIATION LIGHT.	38° 25.1' N 141° 13.2' E	Al.Fl.(2+1)W.G. period 10s 2 W. fl. 5.2s 1 G. fl. 4.8s	126 38			
4432 F 6520	Ha Shima.	38° 18.7' N 141° 11.3' E	Fl.W. period 3s	118 36	17	White round concrete tower; 39.	
4434 F 6520.5	Miyato Sima, breakwater.	38° 19.4' N 141° 10.2' E	Fl.R. period 4s	27 8	3	Red tower; 16.	
4436 F 6524	Shiogama Ko Range, front.	38° 19.0' N 141° 01.6' E	F.R.	85 26	8	White square metal framework tower; 79.	
4440 F 6524.1	-Rear, about 256 meters 266° from front.	38° 19.0' N 141° 01.4' E	F.R.	138 42	8	White square metal framework tower; 69.	
4442 F 6523	-Outer breakwater.	38° 19.2' N 141° 03.3' E	Fl.R. period 4s	24 7	6	Red tower; 19.	
4444 F 6522	Jizo Shima.	38° 19.2' N 141° 04.5' E	Fl.W. period 4s	69 21	14	White octagonal stone tower; 36.	
4448 F 6521.4	Siogama Ko, Hanabuti, breakwater.	38° 18.2' N 141° 05.2' E	Iso.G. period 6s	30 9	6	White round concrete tower; 22.	
4452 F 6521	Hanabuchi.	38° 17.0' N 141° 05.0' E	Al.Fl.(2)R.G. period 20s	207 63	R. 21 G. 21	White round concrete tower; 75. Visible 172°-050°.	
4454 F 6521.5	Siogama Kobama "A".	38° 18.1' N 141° 05.5' E	Fl.G. period 3s	30 9	5	White concrete tower; 22.	
4456 F 6521.35	Sendai Ku.	38° 17.0' N 141° 04.0' E	Iso.R. period 4s	36 11	11	Red round concrete tower; 33.	
4457 F 6521.25	-Detached breakwater, S. head.	38° 16.0' N 141° 03.7' E	Fl.R. period 4s	46 14	6	Red tower; 34.	
4458 F 6521.32	Siogama Ko Matugahama, breakwater.	38° 16.4' N 141° 03.2' E	Fl.R. period 3s	36 11	6	Red round concrete tower; 22.	
4460 F 6521.2	-N. breakwater, S. head.	38° 16.2' N 141° 02.5' E	Oc.R. period 5s	53 16	6	Red round concrete structure; 46.	
4464 F 6521.1	-Sendai, S. breakwater, head.	38° 15.9' N 141° 02.8' E	Oc.G. period 5s	59 18	6	White round concrete structure; 28.	

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JAPAN-HONSHU-EAST COAST							
4468 F 6521.3	-Basin breakwater.	38° 16.1' N 141° 01.7' E	F.FI.R. period 5s	36 11	F. 6 Fl 11	Red round concrete tower; 31.	
4472 F 6518	Yuriage Ko, Training Wall.	38° 10.0' N 140° 58.0' E	Iso.G. period 6s	30 9	10	White round concrete tower; 24.	
4476 F 6517.5	Yanoma AVIATION LIGHT.	38° 08.0' N 140° 55.0' E	AI.FI.W.G. period 4.3s	56 17		Metal framework tower; 49.	
4478	Soma Ko, breakwater, NE. head.	37° 51.9' N 140° 58.8' E	Fl.(2)G. period 6s	52 16	11	White tower; 39.	
4479	-N. breakwater, head.	37° 51.4' N 140° 58.3' E	Fl.(2)R. period 6s	36 11	8		
4480 F 6517.4	Soma Ko.	37° 50.5' N 140° 58.3' E	Iso.G. period 4s	43 13	12	White round concrete tower; 36.	
4484 F 6517.45	-E. breakwater, head.	37° 50.3' N 140° 57.9' E	FI.R. period 3s	33 10	6	Red round concrete tower; 22.	
4488 F 6517	Matukawara Ko, S. breakwater.	37° 49.8' N 140° 58.8' E	Fl.G. period 4s	46 14	12	White round concrete tower; 22.	
4492 F 6517.2	-Fence, breakwater, head.	37° 49.2' N 140° 58.6' E	F.FI.G. period 4s	33 10	F. 5 Fl 11	White round concrete structure; 30.	
4496 F 6516	Unoo Zaki.	37° 49.0' N 140° 59.0' E	Fl.W. period 10s	131 40	17	White square concrete tower;	Radar reflector.
4497	Tohokundenryoku.	37° 40.2' N 141° 01.9' E	Dir.Oc.W.R.G. period 8s	36 11	W. 9 R. 8 G. 7	White tower; 23.	R. 311°-313°30', W.-316°30', G.-319°. Emergency light W. 2M, R. 1M, G. 1M.
4498	Haramati, breakwater.	37° 39.8' N 141° 02.2' E	Fl.G. period 5s	56 17	6	White round tower; 29.	
4499 F 6516.7	-E. breakwater.	37° 39.7' N 141° 02.7' E	FI.R. period 5s	59 18	10	Red tower; 32.	
4500 F 6515.4	Toden Hukusima, S. breakwater, head.	37° 25.2' N 141° 02.7' E	Iso.G. period 6s	49 15	12	White round concrete structure; 36.	
4504 F 6515	Oragahama.	37° 21.6' N 141° 02.5' E	Fl.W. period 8s	134 41	17	White tower; 38.	
4508 F 6515.2	Yotukura Ko, N.	37° 19.0' N 141° 02.5' E	Fl.(2)G. period 9s	52 16	13	White round concrete tower; 39.	
4512 F 6514.96	Hisanohama Ko Range, front.	37° 14.0' N 141° 01.0' E	F.Y.	180 55	20	White round metal column, triangular topmark; 17.	Occasional.
4516 F 6514.97	--Rear, 255°12' from front.	37° 14.6' N 141° 00.8' E	F.Y.	223 68	20	White round concrete structure, triangular topmark; 39.	Occasional.
4520 F 6514.95	Toden Hiro, breakwater.	37° 14.1' N 141° 01.9' E	Iso.G. period 6s	56 17	12	White round concrete tower; 42.	Horn.
4524 F 6514.6	Hisanohama Ko, N. breakwater head.	37° 09.0' N 141° 00.0' E	Iso.R. period 8s	49 15	12	Red round concrete structure; 33.	
4528 F 6514.9	-S. breakwater, N. head.	37° 08.6' N 141° 00.6' E	F.FI.G. period 5s	49 15	F. 6 Fl 12	White round concrete tower; 36.	
4532 F 6514.8	W. breakwater.	37° 08.8' N 141° 00.5' E	Fl.(2)R. period 6s	39 12	9	Red tower; 23.	
4536 F 6514.2	Yotsukura Ko Oki, S. detached breakwater.	37° 06.3' N 141° 00.3' E	Fl.(2)G. period 6s	34 10	11	White round concrete structure; 25.	
4540 F 6514.1	-S. breakwater, head.	37° 06.1' N 141° 00.0' E	Iso.G. period 4s	43 13	6	White round concrete structure; 31.	
4542 F 6514.3	-Detached breakwater, S. head.	37° 06.3' N 141° 00.4' E	Fl.(2)R. period 6s	43 13	9	Red tower; 30.	
4544 F 6514	Yotukura, S. outer breakwater.	37° 05.9' N 141° 00.1' E	FI.R. period 5s	43 13	12	Red round concrete tower; 28.	

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JAPAN-HONSHU-EAST COAST							
4548 <i>F 6514.15</i>	-S. inner breakwater.	37° 06.0' N 141° 00.0' E	Fl.G. period 3s	46 14	8	White round concrete tower; 36.	
4550 <i>F 6513</i>	Toyoma Ko, detached breakwater.	37° 00.5' N 140° 59.1' E	Fl.(3)G. period 12s	39 12	8	White tower; 30.	
4552 <i>F 6512</i>	Shioya Misaki.	36° 59.7' N 140° 58.9' E	Fl.W. period 15s	240 73	22	White tower; 89.	Horn: 1 bl. ev. 40s (bl. 10s, si. 30s).
RAMARK							
4556 <i>F 6511</i>	Toyoma Ko, outer breakwater, head.	36° 59.5' N 140° 58.9' E	Fl.(2)G. period 6s	46 14	8	White round structure; 31.	
4560 <i>F 6508</i>	Ena Ko, W. breakwater, head.	36° 58.1' N 140° 57.7' E	Fl.G. period 5s	49 15	6	White tower; 43.	
4564 <i>F 6509.6</i>	-Offing breakwater, S. head.	36° 57.7' N 140° 58.3' E	Fl.R. period 3s	49 15	9	Red round concrete structure; 36.	
4580 <i>F 6507.4</i>	Nakanosaki Ko, E. breakwater.	36° 57.4' N 140° 57.2' E	Fl.R. period 3s	33 10	11	Red round concrete tower; 25.	
4584 <i>F 6507</i>	-Basin, W. breakwater.	36° 57.4' N 140° 57.3' E	Fl.G. period 3s	33 10	11	White round concrete tower; 30.	
4588 <i>F 6505.6</i>	-Offing, E. breakwater.	36° 57.0' N 140° 57.0' E	Fl.(2)R. period 8s 2 fl. 2s, ec. 6s	46 14	9	Red round concrete tower; 33.	
4592 <i>F 6505.4</i>	-Offing, W. breakwater.	36° 57.2' N 140° 57.4' E	Iso.G. period 4s	46 14	12	White round concrete structure; 34.	
4604 <i>F 6505</i>	Ryugasaki Hana.	36° 57.0' N 140° 57.2' E	Fl.W. period 3s	49 15	12	White round metal tower on piles; 52.	
4608 <i>F 6504</i>	Bandokoro.	36° 56.0' N 140° 55.7' E	Iso.W. period 6s	115 35	17	White round concrete tower; 36.	
ONAHAMAKO:							
4612 <i>F 6500.4</i>	-E. breakwater, S. head.	36° 56.0' N 140° 55.0' E	F.FI.R. period 5s	46 14	F. Fl	6	Red round concrete tower; 36.
4616 <i>F 6501</i>	-W. breakwater, E. head.	36° 56.3' N 140° 54.6' E	Fl.G. period 3s	39 12	6	White tower; 31.	
4620 <i>F 6500.6</i>	-Misaki breakwater.	36° 56.0' N 140° 54.7' E	Fl.(2)G. period 6s	46 14	8	White round concrete structure; 33.	
4624 <i>F 6502</i>	-Inner breakwater.	36° 56.4' N 140° 54.8' E	Iso.R. period 6s	33 10	7	Red round concrete tower; 33.	
4628 <i>F 6500.2</i>	-W. breakwater, S. head.	36° 54.9' N 140° 53.3' E	Fl.R. period 5s	59 18	10	Red tower; 52.	
4632 <i>F 6499.8</i>	-S. breakwater, W. head.	36° 54.3' N 140° 53.2' E	Fl.(2)R. period 7s	62 19	13	Red concrete structure; 52.	
4636 <i>F 6500</i>	-No. "2", W. breakwater.	36° 55.1' N 140° 53.2' E	Fl.G. period 5s	49 15	10	White quadrangular metal framework structure; 39.	
4640 <i>F 6503</i>	-Huzi Kosen Sea berth.	36° 55.2' N 140° 52.8' E	Mo.(U)W. period 10s	95 29	15		Auxiliary lights Mo.(U)R. 180 meters E. and 185 meters WSW. Horn: 1 bl. ev. 20s. Radar reflector.
4644 <i>F 6502.8</i>	-Hassaki, breakwater.	36° 54.6' N 140° 52.1' E	Fl.(3)G. period 13s	56 17	13	White round concrete structure; 43.	
4648 <i>F 6503.5</i>	-Hassaki, outer breakwater, W. head.	36° 54.6' N 140° 52.1' E	Fl.R. period 3s	56 17	10	Red round concrete structure; 43.	
4652 <i>F 6499</i>	Nakoso Ko.	36° 52.0' N 140° 48.0' E	Fl.G. period 5s	43 13	8	White round concrete tower; 33.	

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JAPAN-HONSHU-EAST COAST							
4656 F 6498.2	Hirakata Ko, S. breakwater.	36° 51.6' N 140° 48.0' E	Fl.(2)G. period 6s	49 15	7	White concrete structure; 31.	
4660 F 6496.6	Otsu Misaki.	36° 49.6' N 140° 48.4' E	Fl.W. period 8s	184 56	20	White round concrete tower; 56.	
4664 F 6497	Otsu Ko breakwater, near Ostu Hana.	36° 49.4' N 140° 47.5' E	Iso.R. period 4s	43 13	12	Red round tower; 28.	
4668 F 6496.3	Kawajiri.	36° 39.3' N 140° 42.5' E	Iso.W. period 6s	157 48	19	White tower; 56.	Visible 213°-013°.
4672 F 6496.2	-Kawajiri, S. breakwater, head.	36° 38.8' N 140° 42.4' E	F.Fl.G. period 3s	49 15	F. Fl. 5 12	White round concrete tower; 36.	
4676 F 6496.1	Ose Ko, breakwater.	36° 34.6' N 140° 39.6' E	Iso.R. period 4s	33 10	4	Red round concrete tower; 28.	
4680 F 6496.04	Moto-Kawarago Ko, S. breakwater.	36° 32.2' N 140° 39.1' E	F.FI.R. period 5s	39 12	F. Fl. 6 11	Red round concrete tower; 28.	
4684 F 6495.9	Kuji Ko, N. breakwater.	36° 29.9' N 140° 37.7' E	Fl.R. period 3s	43 13	6	Red round concrete tower; 31.	
4688 F 6495.8	Hitachi.	36° 30.0' N 140° 38.0' E	Fl.(3)W. period 25s	138 42	18	White round concrete tower; 82.	Visible 194°-029°.
4692 F 6496	-W. breakwater, head.	36° 28.8' N 140° 37.9' E	Fl.(2)G. period 7s	62 19	13	White tower; 52.	
4696 F 6496.03	-SE. breakwater, head.	36° 28.7' N 140° 38.2' E	Fl.R. period 6s	59 18	13	Red tower; 52.	
4700 F 6496.02	Tokai Nuclear Plant, N. breakwater, head.	36° 28.0' N 140° 37.0' E	Fl.R. period 4s	46 14	12	Red round concrete structure; 32.	
4702 F 6495.6	Hitati Isozaki Ko.	36° 23.0' N 140° 37.6' E	Fl.G. period 3s	36 11	5	White tower; 22.	
4704 F 6495.5	Isozaki Misaki.	36° 22.6' N 140° 37.7' E	Fl.W. period 12s	118 36	17	White round concrete tower; 46.	Visible 198°-358°.
RACON							
4708 F 6495.3	Naka-Minato Ko, S. breakwater.	36° 20.0' N 140° 36.3' E	Fl.(2)G. period 9s	46 14	12	White quadrangular metal framework structure; 28.	
4710 F 6495.45	-Approach.	36° 21.0' N 140° 37.0' E	Fl.(2)R. period 6s	29 9	6	Red tower; 19.	
4720 F 6495	-E. breakwater.	36° 20.1' N 140° 36.4' E	Fl.(2)R. period 9s	46 14	6	Red round tower; 31.	
4724 F 6495.04	-Inner breakwater, head.	36° 20.1' N 140° 36.2' E	Iso.R. period 4s	39 12	7	Red round concrete structure; 31.	
4728 F 6495.4	-Naka-Minato Ko, breakwater.	36° 20.0' N 140° 36.5' E	Fl.R. period 3s	46 14	9	Red round concrete tower; 36.	
4732 F 6494.2	Oarai Misaki.	36° 17.9' N 140° 35.0' E	Fl.R. period 4s	49 15	12	Red tower; 33.	
4740 F 6493.2	Kashima.	35° 59.0' N 140° 39.0' E	Fl.W. period 5s	207 63	21	White round concrete tower; 105.	Visible 160°-329°.
4741 F 6492.4	-Kashima Ko.	35° 57.2' N 140° 41.4' E	Dir.F.Iso.W.R.G. period 4s	56 17	13	White tower, red bands; 52.	R. 216°20'-220°20', W.-224°20', G.-228°20'.
4744 F 6492	-S. breakwater, head.	35° 57.2' N 140° 43.0' E	Fl.W. period 3s	52 16	12	White square structure; 35.	
4748 F 6491.2	Kashima Ko, N. breakwater.	35° 56.0' N 140° 42.0' E	Iso.R. period 4s	39 12	12	Red roundl concrete structure.	
4750 F 6491.4	-Range, front.	35° 55.3' N 140° 42.5' E	F.G.	82 25	15	White tower; 72.	FW. 4M by day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4750.1 F 6491.41	--Rear, 200 meters 184°30' from front.	35° 55.2' N 140° 42.5' E	F.G.	102 31	15	White tower; 88.	F.W. 4M by day.
CHOSHI KO:							
4752 F 6482	-Ichino Shima.	35° 44.7' N 140° 51.6' E	Iso.W. period 4s	53 16	13	White tower; 53.	
4756 F 6483	-W. breakwater.	35° 44.7' N 140° 51.8' E	F.FI.R. period 3s	43 13	F. Fl 12	Red quadrangular metal framework structure; 28.	
4760 F 6483.4	-Middle breakwater.	35° 44.5' N 140° 51.7' E	F.R.	39 12	10	Red round concrete structure; 33.	Visible 205°-065°.
4764 F 6482.4	-Tyosi Ko, E. breakwater, head.	35° 44.8' N 140° 51.8' E	Fl.G. period 3s	49 15	11	White round concrete structure; 39.	
4768 F 6482.2	-N. breakwater, head.	35° 45.0' N 140° 52.0' E	Fl.(2)G. period 6s	49 15	11		
4776 F 6491	-Choshi Ko No. "2" Fishery Basin, E. groin, head.	35° 44.0' N 140° 50.6' E	Fl.R. period 5s	23 7	6	Red square iron framework tower; 22.	
4780 F 6478	Inubo Saki.	35° 42.3' N 140° 52.3' E	Fl.W. period 15s	171 52	19	White round brick tower; 105.	Visible 169°-065°. Siren: 1 bl. ev. 35s. Radiobeacon. DGPS Station.
RAMARK							
4784 F 6478.4	Nagasaki Hana.	35° 41.4' N 140° 52.1' E	F.W.	75 23		White tower; 67.	
4788 F 6479	Togawa Ko, E. breakwater, head.	35° 42.0' N 140° 51.0' E	F.FI.R. period 4s	43 13	F. Fl 12	Red round concrete structure, quadrangular concrete base; 31.	
4796 F 6477	lioka.	35° 41.4' N 140° 44.6' E	Iso.W. period 6s	243 74	20	White round concrete tower; 31.	Visible 113°-271°.
4800 F 6472	Taito Saki.	35° 18.0' N 140° 25.0' E	Fl.W. period 10s	236 72	22	White round octagonal tower; 53.	
4804 F 6471.1	Ohara Ko Range No. "1", front.	35° 15.0' N 140° 24.0' E	F.G.	39 12	11	White round concrete tower, triangular topmark; 26.	
4808	-Rear, 46 meters 264° from front.	35° 15.2' N 140° 24.4' E	F.G.	46 14	12	White round concrete tower, triangular topmark; 36.	
4812 F 6471.03	Ohara Ko, N. breakwater.	35° 15.2' N 140° 24.6' E	Iso.R. period 4s	29 9	7	Red round concrete tower; 19.	
4816 F 6471	-E. breakwater, N. light.	35° 15.2' N 140° 24.6' E	Iso.W. period 4s	46 14	12	White round concrete structure; 33.	
4818 F 6470.9	-Breakwater, head.	35° 15.2' N 140° 24.7' E	Fl.(2)G. period 6s	46 14	8	White tower; 32.	
4824 F 6470.7	Iwawada Ko, breakwater.	35° 10.5' N 140° 22.1' E	F.FI.(2)R. period 8s 2 fl. 3s, ec. 5s	33 10	F. Fl 11	Red round concrete tower; 29.	
4826 F 6470.8	Onzyuku Ko.	35° 10.5' N 140° 21.2' E	Fl.G. period 3s	27 8	5	White tower; 18.	
4828 F 6470.2	Kazuea Toyohama Ko, breakwater.	35° 09.1' N 140° 20.1' E	Iso.G. period 4s	39 12	11	White round concrete structure; 31.	
4832 F 6470.3	Kawatzu Ko, S. Breakwater.	35° 09.0' N 140° 20.0' E	F.FI.W. period 5s	33 10	F. Fl 11	White round concrete tower; 29.	
4836 F 6470	Katutura.	35° 08.1' N 140° 19.3' E	Fl.(2)W. period 20s	233 71	22	White octagonal concrete tower; 69.	Visible 229°-073°.
4840 F 6470.14	-S. breakwater.	35° 08.4' N 140° 19.8' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4844 F 6470.1	-W. breakwater.	35° 08.5' N 140° 18.8' E	Iso.G. period 6s	36 11	11	White round concrete tower; 31.	
KAMOGAWA WAN:							
4848 F 6469	-Kominato Ko, on Hira Shima.	35° 07.1' N 140° 11.7' E	Fl.R. period 3s	31 9	11	STARBOARD (B) R, tower, topmark; 27.	
4852 F 6469.2	--E. breakwater, head.	35° 07.2' N 140° 11.9' E	Oc.W. period 8s	33 10	11	Round concrete structure, black and white bands; 28.	
4856 F 6469.4	--N. breakwater, head.	35° 07.1' N 140° 11.9' E	F.Fl.G. period 4s	36 11	F. Fl 11	White round concrete structure; 31.	
4860 F 6468.4	-Amatsu Ko Range, front.	35° 07.0' N 140° 10.0' E	F.R.	72 22	10	White round tower, quadrangular topmark; 43.	
4864 F 6468.41	--Rear, 80 meters 330° from front.	35° 07.2' N 140° 09.7' E	F.R.	203 62	10	White round tower, quadrangular topmark; 19.	
4868 F 6468.2	--W. breakwater.	35° 08.0' N 140° 09.8' E	Iso.G. period 6s	39 12	11	White round concrete tower; 28.	
4872 F 6468	--S. breakwater.	35° 07.0' N 140° 10.0' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 31.	
4876 F 6467.4	Hamogi Ko, breakwater.	35° 07.0' N 140° 09.0' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 27.	
4880 F 6466	Kamogawa.	35° 05.4' N 140° 06.8' E	Fl.(3)W. period 13s	85 26	15	White round concrete tower; 36.	
4882 F 6466.6	Kamogawa Ko.	35° 05.4' N 140° 06.7' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	
4884 F 6466.4	Oura, E. entrance.	35° 05.6' N 140° 06.6' E	Iso.G. period 6s	36 11	4	White round concrete tower; 31.	
4888 F 6465	Emi Ko Mai Shima.	35° 03.5' N 140° 03.7' E	Fl.(2)R. period 6s	36 11	11	Red round concrete tower; 31.	
4890 F 6463	Wado Ko.	35° 02.0' N 140° 00.8' E	Fl.R. period 4s	42 13	7	Red concrete structure; 31.	
4892 F 6465.4	Hamanabuto Ko, breakwater.	35° 05.0' N 140° 07.0' E	F.Fl.W. period 5s	39 12	F. Fl 8 11	White round concrete structure;	F.W. also lights reef 70 meters S. 27.
4900 F 6461	Middle breakwater, head.	34° 57.3' N 139° 58.1' E	F.Fl.(2)R. period 8s	36 11	F. Fl 8 11	Red round concrete structure; 31.	
4904 F 6462	-Chikura.	34° 57.2' N 139° 58.0' E	Dir.F.W.R.G.	39 12	W. R. 10 G. 11	White tower; 42. R. 10 G. 11	R. 228°30'-230°30', W.- 232°30', G.-234°30'. Iso.Y. 4s above main light. Emergency light W. 2M, R. 1M, G. 2M.
4912 F 6459	Nanaura Ko Range, front.	34° 56.0' N 139° 58.0' E	F.G.	36 11	11	White round tower, quadrangular topmark; 33.	
4916 F 6459.1	-Rear, 116 meters 289° 35' from front.	34° 55.8' N 139° 57.4' E	F.G.	49 15	12	White round tower, quadrangular topmark; 39.	

JAPAN-NAMPO SHOTO

4920 F 6276	Miyake Jima, NW. point of island.	34° 07.0' N 139° 30.0' E	Fl.W. period 5s	79 24	14	White square stone structure; 32.	Visible 352°-202°.
4922 F 6275.5	-Yunohama Ko.	34° 07.3' N 139° 32.2' E	Oc.G. period 8s	46 14	12	White tower; 28.	
4924 F 6275	-Satado Misaki	34° 05.0' N 139° 34.0' E	Fl.W. period 15s	118 36	17	White round tower; 46.	Visible 180°-008°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-NAMPO SHOTO							
4928 F 6276.1	Izu Miyake Ko, jetty.	34° 04.8' N 139° 34.0' E	Fl.W. period 3s	56 17	10 49.	White round concrete structure;	
4932 F 6276.4	Tsubota Ko, breakwater.	34° 03.4' N 139° 32.8' E	Fl.G. period 5s	66 20	6	White tower; 28.	
4936 F 6276.2	Ako Ko, breakwater.	34° 04.0' N 139° 28.8' E	Fl.G. period 8s	46 14	3	White round concrete tower; 28.	
4938 F 6276.3	-Breakwater, head.	34° 03.9' N 139° 28.8' E	Fl.W. period 3s	52 16	12		
4939 F 6276.6	Mikura Sima, breakwater.	33° 53.6' N 139° 35.4' E	Fl.R. period 4s	39 12	4	Red tower; 23.	
4940 F 6279.6	Ogosi Hana.	33° 09.0' N 139° 45.0' E	Fl.(2)W. period 20s 2 fl. 7s, ec. 13s	325 99	25 49.	White round concrete structure; Visible 024°-258°.	
4948 F 6278.1	-Kaminato Anchorage.	33° 07.8' N 139° 48.5' E	Iso.G. period 4s	55 17	13		
4950 F 6278.5	-Sokodo Hakuti, breakwater.	33° 07.4' N 139° 49.2' E	Fl.W. period 3s	52 16	10	White tower; 33.	
4952 F 6277	-Ishizumiga Hana.	33° 05.0' N 139° 51.0' E	Fl.W. period 10s	315 96	25	White round concrete tower; 56.	Radiobeacon 360 meters WNW. DGPS Station 360 meters WNW.
4956 F 6277.4	-Yaene Ko, breakwater, head.	33° 05.6' N 139° 46.7' E	Iso.G. period 6s	49 15	12	White tower; 30.	
Ogasawara Gunto:							
4960 F 8348	-Futami Ko, breakwater.	27° 05.6' N 142° 11.7' E	Oc.G. period 8s	33 10	9 31.	White round fiberglass structure;	
4962 F 8347	-E. breakwater.	27° 05.4' N 142° 11.8' E	Fl.(2)R. period 6s	30 9	6		
4964 F 8346	-Futami Ko.	27° 05.0' N 142° 12.0' E	Fl.W. period 4s	230 70	17 33.	White round concrete structure;	
4968 F 8346	-Futami Ko, entrance.	27° 04.5' N 142° 12.7' E	Dir.F.W.R.G.	213 65	W. R. G.	9 7 7	Same structure as Futami Ko R. 083°15'-087°15', W.-090°15', G.-094°15'.
4972 F 8350	Haha Shima Approach.	26° 37.7' N 142° 09.9' E	Dir.F.W.R.G.	131 40	W. R. G.	16 10 11	White tower; 38. R. 063°52'-068°52', W.-075°52', G.-080°52'.
4974 F 8351	-Breakwater, head.	26° 37.8' N 142° 09.7' E	Fl.G. period 3s	36 11	8	White tower; 31.	
KAZAN RETTO (VOLCANO ISLANDS):							
4976 F 8360	-Io Jima AVIATION LIGHT.	24° 46.9' N 141° 19.4' E	Al.Fl.W.G.	367 112			
JAPAN-HONSHU-EAST COAST							
4980 F 6458	Awa Shirahama Ko.	34° 55.0' N 139° 56.0' E	F.Fl.W.R. period 5s	36 11	F. Fl.	8 11	White round concrete structure; R. 325°-085°.
4984 F 6457	Otohama Ko Range, front.	34° 55.0' N 139° 56.0' E	F.G.	24 7	10		White round concrete structure, rectangular topmark; 22.
4988 F 6457.1	-Rear, about 1280 meters 271°54' from front.	34° 54.5' N 139° 55.8' E	F.G.	39 12	11		White round concrete structure, rectangular daymark; 30.
4990 F 6457.4	Otohama Ko.	34° 54.3' N 139° 55.9' E	Fl.R. period 3s	56 17	9	Red tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4992 F 6456	Najima Saki. RAMARK	34° 54.1' N 139° 53.3' E	Fl.W.R. period 15s	125 38	17	White tower; 95.	W. 254°-080°, R.-101°.
4996 F 6454	Merano Hana. RACON	34° 54.7' N 139° 49.7' E	Iso.W. period 6s	177 54	19	White round concrete tower; 28.	Obscured 133°-319° except at Heisa Ura.
5000 F 6455	Tomisaki Ko, S. breakwater, head.	34° 55.0' N 139° 50.0' E	F.Fl.R. period 6s	33 10	F. Fl	6 11	Red round concrete structure; 28.
5004 F 6452	Suno Saki.	34° 58.3' N 139° 45.6' E	AI.Fl.W.R. period 30s W. fl., ec. 15s R. fl., ec. 15s	146 44	18	White round concrete tower; 49.	Visible 002°-252°.
TATEYAMA WAN:							
5008 F 6449	-Okino Shima.	34° 59.0' N 139° 50.0' E	Fl.W. period 4s	36 11	11	White round concrete structure; 31.	
5012 F 6451	-Tateyama Ko, breakwater, head.	34° 59.0' N 139° 51.0' E	Iso.G. period 4s	36 11	11	White square metal framework tower; 28.	
5016 F 6451.2	--Heliport AVIATION LIGHT.	34° 59.0' N 139° 51.0' E	AI.Fl.W.G. period 10s	59 18		Metal framework tower; 53.	Maintained by National Defense Agency.
5020 F 6448	-Funagata Ko, breakwater, head.	35° 01.0' N 139° 51.0' E	Iso.G. period 6s	33 10	11	Square white concrete tower; 25.	
5024 F 6448.4	--E. breakwater, head.	35° 01.4' N 139° 50.8' E	F.Fl.R. period 5s	30 9	F. Fl	8 10	Red round concrete structure; 28.
5028 F 6447	-Hunagata Hira Sima.	35° 01.3' N 139° 50.5' E	Fl.W. period 4s	36 11	11	White round concrete tower; 32.	
5030 F 6446.5	Tomiura Wan, breakwater.	35° 02.2' N 139° 49.5' E	Iso.R. period 4s	26 8	7	Red tower; 20.	
5032 F 6446	Katuiyama.	35° 06.0' N 139° 49.0' E	Fl.W. period 5s	204 62	20	White round concrete tower; 46.	
5036 F 6445.5	Kachiyama Ko, N. breakwater.	35° 06.6' N 139° 49.5' E	Iso.R. period 4s	39 12	8	Red round concrete tower; 29.	
5040 F 6445	Hota Ko, breakwater.	35° 08.0' N 139° 50.0' E	F.Fl.G. period 5s	33 10	F. Fl	5 11	White round concrete tower; 28.
5044 F 6354	Tsurugi Saki.	35° 08.5' N 139° 40.6' E	AI.Fl.(2+1)W.G. period 30s	133 41	18	White tower; 55.	Visible 207°-075°. Radiobeacon 180 meters W.
RAMARK							
5048 F 6354.3	Makuti Ko.	35° 08.4' N 139° 40.9' E	Fl.W. period 4s	36 11	11	White round concrete structure; 33.	
5050 F 6354.4	Kaneda Wan, Iwabu.	35° 09.4' N 139° 40.1' E	Iso.G. period 6s	24 7	6	White tower; 18.	
5051 F 6444.5	Kanaya Ko, W. breakwater.	35° 09.7' N 139° 49.4' E	Iso.R. period 6s	33 10	7	Red concrete structure; 18.	
5052 F 6444	Hamakanaya Ko, breakwater.	35° 10.0' N 139° 49.0' E	F.Fl.R. period 5s	30 9	F. Fl	6 10	Red round concrete tower; 27.
5052.5 F 6443.9	Hagyu Ko.	35° 12.0' N 139° 49.6' E	Fl.R. period 3s	20 6	3	Red tower; 16.	
5053 F 6443.8	Takeoka Ko, W. breakwater, head.	35° 12.4' N 139° 50.8' E	Fl.(2)R. period 6s	31 9	6	Red concrete tower; 19.	
5054	Uraga Suido LANBY "1".	35° 12.5' N 139° 46.8' E	Iso.W. period 4s	11	SAFE WATER RW, topmark.		Radar reflector.
RACON							
			OE(--- •)		5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
5055 <i>F 6359.5</i>	Onuki Ko.	35° 16.5' N 139° 51.1' E	Fl.R. period 3s	31 9	6	Red round concrete structure; 18.	
5055.5 <i>F 6359.5</i>	Kawana, breakwater, head.	35° 17.8' N 139° 49.7' E	Iso.R. period 4s	43 13	12	Red tower; 31.	
TOKYO WAN:							
5056 <i>F 6355</i>	-Ashika Shima, on rock.	35° 13.0' N 139° 44.0' E	Fl.W. period 3s	52 16	12	Black round concrete tower, white top; 46.	
5060 <i>F 6356.4</i>	-Kurihama Wan.	35° 13.3' N 139° 43.2' E	Iso.G. period 6s	43 13	12	White tower; 43.	
5064 <i>F 6358</i>	-Uraga Zyuko Atagoyama Range, front.	35° 14.0' N 139° 43.0' E	F.G.	118 36	8	White metal post, diamond topmark; 20.	
5068 <i>F 6358.1</i>	-Rear, 27 meters 291° 30' from front.	35° 14.2' N 139° 43.3' E	F.G.	128 39	8	White metal post, diamond topmark; 9.	
5072 <i>F 6359</i>	-Yokosuka Ko.	35° 14.8' N 139° 44.1' E	Fl.G. period 3s	39 12	5	White round concrete tower; 31.	
5076 <i>F 6360</i>	-Kannon Saki.	35° 15.2' N 139° 44.9' E	Fl.(2)W. period 15s 2 fl. 2s, ec. 13s	184 56	20	White octagonal concrete tower; Visible 152°-017°. 62.	
5080 <i>F 6362</i>	-Yokosuka Ko Hashirimizu, breakwater.	35° 16.0' N 139° 44.0' E	F.G.	20 6	9	White round concrete tower; 14.	
5084 <i>F 6361</i>	--N. breakwater.	35° 15.9' N 139° 44.0' E	Fl.R. period 3s	36 11	7	Red tower; 31.	
5088 <i>F 6366</i>	-Daisan Kaiho (Fort No. "3").	35° 17.1' N 139° 44.4' E	Fl.(2)W. period 10s	39 12	11	Square metal skeleton structure, Radar reflector. black and red bands, number "3" on sides; 31.	
V.Q.Y.							
5092 <i>F 6368</i>	-Daini Kaiho (Fort No. "2").	35° 18.7' N 139° 44.5' E	Fl.W.R. period 5s	66 20	13	White tower; 39.	R. 222°-310°, W.-222°. Horn: 2 bl. ev. 25s.
-RACON				(-----)		9	Located 150 meters E. of light.
5093 <i>F 6369</i>	-Uraga Suido "6".	35° 19.8' N 139° 42.8' E	Iso.W. period 4s			SAFE WATER RW, pillar, topmark.	Radar reflector.
-RACON				M(--)		5	
5094 <i>F 6370</i>	-Nakano Se LANBY "D".	35° 24.7' N 139° 45.5' E	Mo.(D)R. period 8s		11	STARBOARD (B) R, topmark.	
-RACON				OE(---•)		5	

Section 4

South Coast of Honshu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
 TOKYO WAN:							
5096 <i>F 6441</i>	-Futtsu N., NE. of Futtsu Saki.	35° 19.3' N 139° 48.9' E	Fl.G. period 3s	18 5	8	PORT (B) G, beacon, topmark; 21.	
5100 <i>F 6442</i>	-Futtsu S.	35° 19.0' N 139° 48.9' E	Fl.G. period 5s	21 6	5	PORT (B) G, tower, topmark.	
5104 <i>F 6443</i>	-Futtsu Ko, E. breakwater.	35° 19.0' N 139° 48.9' E	F.Fl.G. period 5s	36 11	7	White round concrete tower; 28. Fl 11	
5106	-Kisarazu Ko, W. breakwater.	35° 19.9' N 139° 49.5' E	Fl.R. period 3s	26 8	6	Red tower.	
5108 <i>F 6440.6</i>	-Huttu LNG Tanker berth.	35° 20.5' N 139° 49.4' E	Mo.(U)W. period 10s	95 29	12		Mo.(U)W. 10s 230 meters NNW. and 200 meters SSE.
5110 <i>F 6440.4</i>	-Futtsu Passage, W. breakwater.	35° 20.9' N 139° 49.2' E	Fl.G. period 4s	30 9	5	White tower; 19.	
5116 <i>F 6439.4</i>	--Range, front.	35° 21.0' N 139° 53.0' E	F.G.	66 20	14	White quadrangular metal framework structure, triangular topmark; 63.	
5120 <i>F 6439.41</i>	--Rear, about 570 meters 120° from front.	35° 21.3' N 139° 53.6' E	F.G.	115 35	17	White quadrangular metal framework structure, triangular topmark; 112.	
5124 <i>F 6440</i>	--Breakwater, W. head.	35° 22.0' N 139° 52.0' E	Fl.W. period 3s	39 12	11	White round concrete structure; 31.	
 -Yokosuka Ko:							
5128 <i>F 6376</i>	--E. breakwater, N. head..	35° 19.7' N 139° 39.8' E	Fl.(2)G. period 8s	33 10	6	White round concrete structure; 28.	
5132 <i>F 6372</i>	--NE. breakwater, E. head.	35° 19.0' N 139° 40.7' E	Fl.R. period 3s	66 20	13	Red quadrangular concrete structure; 59.	
5136 <i>F 6378</i>	-Yoshikura, pier, head.	35° 17.0' N 139° 39.0' E	Mo.(U)R. period 10s	31 9	9	Red tower; 19.	
5140 <i>F 6377</i>	--W. breakwater, E. head.	35° 17.0' N 139° 41.0' E	Fl.(2)R. period 6s	43 13	10	Red round concrete structure; 36.	
5141	--Breakwater, NW. head.	35° 16.5' N 139° 41.3' E	Fl.G. period 3s	27 8	6	White tower; 19.	
5142 <i>F 6379</i>	Yokosuka Ko, Otsu Wan, breakwater.	35° 16.3' N 139° 41.4' E	Iso.R. period 4s	39 12	11	Red tower; 31.	
 -Keihin Ko:							
5144 <i>F 6380</i>	--Kanazawa, E. breakwater, head.	35° 23.0' N 139° 40.0' E	Iso.G. period 4s	43 13	12	White round concrete structure; 36.	
 -Nagahama:							
5148 <i>F 6400.6</i>	--Nittu Honmoku Wharf Range, front.	35° 25.0' N 139° 40.9' E	F.Y.	69 21	14	Pole, red and white bands, red triangular topmark; 59.	
5152 <i>F 6400.61</i>	--Rear, 200 meters 268° from front.	35° 25.0' N 139° 40.8' E	F.Y.	85 26	15	Pole, red and white bands, red triangular topmark; 75.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5156 F 6401	-Nissan Honmoku Wharf.	35° 25.0' N 139° 41.0' E	Mo.(N)R. period 8s	39 12	11	Red quadrangular metal framework structure; 30.	
-Yokohama Ko:							
5160 F 6401.2	--Gravel Wharf, breakwater.	35° 25.5' N 139° 40.9' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	4	Red round concrete structure; 31.	
5164 F 6401.3	--Light "A", breakwater, S. head.	35° 25.4' N 139° 41.4' E	Mo.(U)W. period 8s	26 8	10	Yellow aluminum pole; 17.	
5168 F 6401.32	--Light "B", breakwater, N. head.	35° 25.6' N 139° 41.5' E	Mo.(U)W. period 8s	26 8	10	Yellow aluminum pole; 17.	
5170 F 6401.45	--Beacon "1".	35° 26.3' N 139° 41.8' E	Fl.(2)G. period 6s	30 9	8	Green beacon; 30.	Radar reflector.
5172 F 6401.4	--Honmoku, breakwater.	35° 26.4' N 139° 41.5' E	Iso.G. period 4s	76 23	14	White round metal structure; 72.	
5176 F 6401.6	--Daikoku, breakwater E., head.	35° 27.4' N 139° 42.4' E	Fl.G. period 4s	52 16	10	White tower; 52.	
5180 F 6401.5	--W. head.	35° 26.9' N 139° 41.6' E	Iso.R. period 4s	75 23	14	Red round metal structure; 75.	
5184 F 6406	--N. outer breakwater, S. head.	35° 27.2' N 139° 40.7' E	Fl.(2)R. period 8s	66 20	13	Red round concrete structure; 78.	
5188 F 6402	--Outer breakwater, S. light.	35° 27.0' N 139° 41.0' E	Fl.(2)G. period 8s	69 21	12	White round concrete tower; 79.	
5192 F 6413	-Lumber basin, breakwater.	35° 26.7' N 139° 39.7' E	Iso.G. period 4s	33 10	3	White round concrete tower; 29.	
5196 F 6400	--Observation tower.	35° 26.0' N 139° 40.0' E	Al.Fl.R.G. period 20s	341 104	25	10 sided metal framework, red and white bands; 332.	
5200 F 6411	--N. inner breakwater, S. head.	35° 27.4' N 139° 39.7' E	Iso.R. period 4s	49 15	12	Red hexagonal metal tower, concrete base; 49.	
5204 F 6407	--Daikoku Wharf, W. breakwater.	35° 27.8' N 139° 40.2' E	Fl.R. period 4s	39 12	3	Red tower; 33.	
5208 F 6412.5	--Waste oil disposal facility.	35° 27.9' N 139° 40.8' E	Fl.R. period 3s	20 6	7	Red structure; 11.	
5210 F 6417.2	-Turumi Passage, "A", W. side.	35° 28.4' N 139° 41.8' E	Fl.Y. period 4s	20 6	6	SPECIAL Y, beacon, topmark.	
5211 F 6417.3	-- "B".	35° 28.3' N 139° 41.3' E	Fl.Y. period 4s	20 6	6	SPECIAL Y, beacon, topmark; 20.	
-Yokohama ko:							
5216 F 6418	--Light "A".	35° 29.1' N 139° 42.5' E	Fl.R. period 5s	16 5	6	Red quadrangular metal framework; 8.	
5220 F 6418.2	--Light "B".	35° 29.2' N 139° 42.7' E	Fl.R. period 5s	16 5	6	Red quadrangular metal framework; 8.	
5224 F 6418.4	-Nippon Kokan Ogi Shima Range, front.	35° 29.0' N 139° 44.0' E	F.G.	69 21	14	Red metal post, red and white bands.	
5228 F 6418.41	--Rear, 135 meters 331° from front.	35° 29.2' N 139° 44.4' E	F.G.	92 28	15	Red metal post, red triangular topmark; 85.	
5232 F 6419	-Kawasaki Keihin Sea Berth.	35° 27.8' N 139° 46.3' E	Mo.(U)W. period 8s		10	Mooring.	Radar reflector.
5236 F 6420	-Tonen-Ogisima.	35° 29.0' N 139° 47.3' E	Mo.(U)W. period 10s	89 27	15		Mo.(U)W. 10s mark berth NE and SW. Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5241	-Tunnel Platform.	35° 29.3' N 139° 50.3' E	Mo.(U)W. period 10s	98 30	16		F.I.Y. 4s 6M beacons mark dolphins NE. and SW.
F 6419.2	-Higasi Ogisima, breakwater, S. head.	35° 28.6' N 139° 45.2' E	Fl.(2)R. period 6s	59 18	13	Red tower; 53.	
F 6421.8	-Higasi Ogisima, breakwater, N. head.	35° 29.7' N 139° 47.0' E	Iso.G. period 4s	46 14	10	White tower; 32.	
F 6422.2	-Kawasaki, N. breakwater.	35° 30.3' N 139° 46.9' E	Iso.R. period 6s	25 8	7	Red tower; 17.	
F 6424	-Ukisima.	35° 30.9' N 139° 47.9' E	Al.W.G. period 10s	66 20	W. G.	8 7	Visible 180°-035°.
-Haneda:							
F 6426	--Tokyo International Airport, AVIATION LIGHT.	35° 33.0' N 139° 46.0' E	Al.FI.W.G. period 8.6s	151 46			
F 6427	Tokyo.	35° 33.8' N 139° 49.9' E	Fl.(3)W. period 20s	95 29	15	White round concrete structure; 105.	Signal station.
RACON							
F 6427.08	-W. passage, outside breakwater, E. head.	35° 34.4' N 139° 48.2' E	Fl.G. period 3s	36 11	11	White round concrete structure; 30.	Radar reflector.
F 6427.12	--W. head.	35° 34.4' N 139° 48.0' E	Fl.R. period 3s	20 6	3		
F 6427.15	--W. breakwater.	35° 35.1' N 139° 47.0' E	Fl.(2)G. period 5s	33 10	10	White tower; 28.	
F 6427.19	-Middle breakwater, W. head.	35° 35.5' N 139° 47.4' E	Fl.(2)R. period 5s	33 10	7	Red tower; 28.	
F 6427.04	--N. outside breakwater, SW. head.	35° 34.7' N 139° 48.5' E	Fl.R. period 3s	36 11	10	Red tower; 30.	Radar reflector.
F 6427.06	--NE. head.	35° 34.8' N 139° 48.6' E	Fl.G. period 3s	20 6	3		
F 6427.4	--E. passage, W. breakwater.	35° 36.4' N 139° 49.7' E	Iso.G. period 4s	49 15	12	White round concrete structure; 53.	
F 6427.6	--E. breakwater.	35° 36.5' N 139° 49.9' E	Iso.R. period 4s	53 16	12	Red round concrete structure; 53.	
F 6427.8	--Detached breakwater, W. head.	35° 37.1' N 139° 49.1' E	Fl.R. period 3s	39 12	10	Red tower; 28.	
F 6429	Katunan Ku.	35° 39.8' N 139° 56.2' E	Fl.W. period 3s	23 7	10	White tower; 12.	
F 6428	-Urayasu Offing.	35° 36.6' N 139° 53.9' E	Q.(6)+L.FI.W. period 15s	26 8	9	S. CARDINAL YB, topmark; 21.	
F 6431	Tiba Ku.	35° 36.4' N 140° 01.6' E	Mo.(U)W. period 9s	59 18	8	Tower.	Visible 235°-215°. Radar reflector.
F 6432	Chiba Ku.	35° 37.0' N 140° 04.0' E	Fl.G. period 5s	42 13	7	White column; 28.	
F 6430.5	-N. breakwater.	35° 36.5' N 140° 04.2' E	Fl.W. period 4s	16 5	4	White tower; 11.	
F 6430	-Sea berth.	35° 35.6' N 140° 04.9' E	Mo.(U)W. period 15s	36 11	11		
F 6433	Tiba.	35° 34.0' N 140° 03.0' E	Fl.(2)W. period 30s 2 fl. 10s, ec. 20s	92 28	15	White round metal structure, quadrangular concrete base; 59.	
F 6433.6	-Tiba Ko Ithara, detached breakwater.	35° 33.4' N 140° 04.1' E	Fl.(2)G. period 6s	33 10	7	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5316 <i>F 6434.2</i>	--Breakwater.	35° 33.0' N 140° 04.2' E	Fl.(2)R. period 7s	33 10	11 28.	Red round concrete structure;	
5320 <i>F 6434.5</i>	-Tiba Ko Maruzen Sekima No. "1" Sea berth.	35° 32.4' N 140° 03.4' E	Mo.(U)W. period 12s	82 25	15	Mo.(U)W. auxiliary lights about 200 yards NE. and SSW.	
5332 <i>F 6435</i>	-Chiba.	35° 30.7' N 139° 56.2' E	Mo.(U)W. period 14s	112 34	16	Four Mo.(U) 10s lights mark mooring dolphins NE and SW. Siren: 1 bl. ev. 30s (bl. 3s, si. 27s). Radar reflector.	
5336 <i>F 6434.95</i>	-Tiba Ko, Sea berth.	35° 28.2' N 139° 58.0' E	Mo.(U)W. period 15s	33 10	11		
5340 <i>F 6434.9</i>	-Gas Sea berth.	35° 28.3' N 139° 58.4' E	Mo.(U)W. period 10s	33 10	11	Private light.	
5341	Ukisima Tunnel, E. side, W. limit.	35° 28.0' N 139° 52.2' E	Mo.(K)Y. period 12s	22 7	10	SPECIAL Y, beacon, topmark; 20.	4 Fl.Y. 4s 6M beacons close SE.
5342	-E. side, entrance.	35° 27.7' N 139° 52.7' E	Al.W.R. period 10s	121 37	16		Visible 317°-310°.
5343	--Bridge, center.	35° 27.1' N 139° 53.4' E	F.R.G.	118 36	R. 7 G. 8	On NE. and SW. side. Bridge marked by numerous F.W., F.Y., F.G. and F.R. lights.	
--RACON				(- - • •)		5	
5356 <i>F 6434.67</i>	-Tiba Ko, pier, middle.	35° 30.9' N 140° 02.4' E	Mo.(U)W. period 10s	112 34	14	Mo.(U)W. 10s lights mark dolphins NE and SW. Horn: 1 bl. ev. 30s.	
5364 <i>F 6347</i>	Awa Saki.	35° 07.0' N 139° 38.0' E	Fl.W. period 4s	43 13	12	White round concrete structure; 36.	A F.W. is shown about 200 meters SE.
5368 <i>F 6343</i>	Joga Shima.	35° 08.0' N 139° 37.0' E	Fl.W. period 15s	98 30	16	White round concrete tower; 39.	Visible 297°-254°.
5372 <i>F 6344</i>	I Shima.	35° 08.0' N 139° 37.0' E	Fl.(3)R. period 12s	52 16	9	Red round concrete structure; 39.	
MISAKI KO:							
5376 <i>F 6345</i>	-W. entrance, N. breakwater, head.	35° 08.2' N 139° 36.7' E	Iso.G. period 4s	42 13	12	White tower; 34.	
5380 <i>F 6349</i>	Misaki Ko, E. entrance, S. breakwater, head.	35° 08.0' N 139° 38.0' E	Iso.G. period 6s	43 13	12	White round concrete structure;	
5384 <i>F 6342</i>	Moroiso Saki.	35° 09.0' N 139° 37.0' E	Iso.W. period 8s	69 21	14	White quadrangular concrete structure; 62.	R. light marks breakwater head 185 meters NE.
5388 <i>F 6338</i>	Kamegi Ko.	35° 12.0' N 139° 35.0' E	Q.(9)W. period 15s	46 14	12	W. CARDINAL YBY, topmark.	
5392 <i>F 6339</i>	Odawa Wan.	35° 12.3' N 139° 36.7' E	Iso.R. period 4s	36 11	11	Red round concrete tower; 30.	
5394 <i>F 6340.5</i>	Sazima Ko.	35° 12.9' N 139° 36.7' E	Fl.(2)G. period 6s	27 8	5	White tower; 18.	
5396 <i>F 6340</i>	Sasima Ko Entrance, on Naka Ne.	35° 12.8' N 139° 36.7' E	Fl.G. period 3s	43 13	8	PORT (B) G, tower, topmark; 39.	
5398 <i>F 6336</i>	Hayama Ko.	35° 16.1' N 139° 34.0' E	Fl.W. period 3s	36 11	8		
5399 <i>F 6335</i>	Abuzuru-no-hana, breakwater.	35° 17.1' N 139° 33.9' E	Iso.R. period 4s	43 13	10	Red tower; 26.	
5400 <i>F 6333</i>	Syonan Ko, breakwater.	35° 18.0' N 139° 30.0' E	Iso.G. period 4s	62 19	12	White round metal tower; 60.	

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JAPAN-HONSHU-SOUTH COAST							
5402 F 6334	-Kamakura, breakwater.	35° 18.1' N 139° 29.6' E	Iso.R. period 6s	28 9	7	Red tower; 19.	
5404 F 6332	Eno Shima.	35° 18.0' N 139° 28.7' E	Fl.W. period 10s	351 107	23	White triangular metal framework tower; 197.	
5406 F 6329	Hiratuka Oki.	35° 18.1' N 139° 20.9' E	Mo.(U)W. period 8s	66 20	7		
5408 F 6330	Hiratuka.	35° 18.8' N 139° 22.0' E	Al.Fl.(2)W.R. period 10s	125 38	17	White quadrangular metal framework structure; 89.	Visible 106°-075°.
5412 F 6328	Oiso Ko, breakwater, head.	35° 18.0' N 139° 19.0' E	F.Fl.G. period 6s	46 14	F. 7 Fl 12	White round concrete structure; 33.	
5420 F 6326	Odawara Ko, S. breakwater.	35° 14.0' N 139° 09.0' E	Iso.G. period 4s	59 18	12	White tower; 39.	
5424 F 6323	Manazuru Ko, N. breakwater, head.	35° 08.9' N 139° 09.0' E	Fl.R. period 4s	46 14	12	Red round concrete structure; 33.	
5428 F 6318	Fukuura Ko, E. breakwater.	35° 09.0' N 139° 09.0' E	Iso.R. period 6s	40 12	11	Red round concrete tower; 28.	
5432 F 6314	Atami, breakwater, head.	35° 05.5' N 139° 05.1' E	F.Fl.(2)G. period 7s	49 15	F. 6 Fl 12	White round concrete structure; 36.	
5436 F 6310	Ajiro.	35° 03.0' N 139° 06.0' E	Iso.W. period 6s	141 43	17	White quadrangular concrete tower; 31.	
5440 F 6311	-Breakwater, head.	35° 03.0' N 139° 06.0' E	F.Fl.G. period 3s	42 13	F. 5 Fl 12	White round tower on quadrangular base; 30.	
5444 F 6309	Hatsu Shima.	35° 02.0' N 139° 11.0' E	Al.Fl.R.G. period 20s	207 63	21	White round concrete tower; 49.	
5448 F 6308	Usami Wan, breakwater.	35° 00.2' N 139° 05.6' E	F.Fl.R. period 6s	36 11	F. 6 Fl 11	Red round concrete tower; 31.	
5452 F 6306	Ito Ko, E. Breakwater.	34° 58.3' N 139° 06.4' E	Iso.G. period 4s	39 12	11	White round concrete tower; 33.	
5456 F 6307.5	-Outer breakwater.	34° 58.0' N 139° 07.0' E	Fl.G. period 3s	36 11	11	White round concrete structure.	
5464 F 6304	Kawana Zaki.	34° 57.0' N 139° 09.0' E	Iso.W. period 4s	177 54	19	White tripod concrete tower; 43.	
5466 F 6303.5	Huto Ko, SE.	34° 53.6' N 139° 08.2' E	Iso.G. period 4s	33 10	6	White concrete structure; 19.	
5468 F 6303	Kadowaki Saki.	34° 53.2' N 139° 08.6' E	Fl.W. period 10s	144 44	18	White hexagonal concrete tower; 59.	
5472 F 6302.4	Yahatano Ko, breakwater.	34° 52.0' N 139° 06.0' E	Fl.G. period 3s	36 11	11	White round concrete structure; 31.	
O SHIMA:							
5476 F 6282	-Izu Oshima.	34° 47.8' N 139° 22.3' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	338 103	25	White tower; 52.	Visible 016°-291°.
-RAMARK							
5480 F 6284	-Okada Ko, breakwater, head.	34° 47.3' N 139° 23.5' E	Fl.(2)G. period 8s 2 fl. 3s, ec. 5s	46 14	12	White round concrete tower; 32.	
5484 F 6281	-Habu Ko, on Myojin Bana.	34° 40.9' N 139° 26.6' E	F.W.	36 11		White round concrete tower; 15.	
5486 F 6281.7	-Outer breakwater.	34° 40.7' N 139° 26.7' E	Fl.G. period 4s	43 13	8	White round tower; 24.	
5488 F 6280	-Ryuou Saki.	34° 41.1' N 139° 26.6' E	Fl.W. period 12s	220 67	21	White tower; 46.	Visible 190°-085°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5492 F 6281.1	--Range, front, W. side of harbor.	34° 41.2' N 139° 26.1' E	F.R.	52 16	9	White round concrete tower; 46.	
5496 F 6281.2	--Rear, 100 meters 307°30' from front.	34° 41.0' N 139° 26.4' E	F.R.	66 20	9	White round concrete tower; 54.	
5500 F 6286	-Motomati Ko, jetty, head.	34° 44.9' N 139° 21.1' E	Iso.G. period 4s	46 14	12	White tower; 38.	
5504 F 6300	Inatori Misaki.	34° 45.7' N 139° 02.9' E	Fl.(4)W. period 30s	236 72	22	White square concrete structure; Visible 207°-029°. 62.	
5508 F 6301	-N. breakwater.	34° 46.2' N 139° 02.8' E	Fl.(2)R. period 8s	42 13	7	Red round concrete tower; 31.	
5512 F 6300.4	-E. breakwater.	34° 46.2' N 139° 02.8' E	Fl.(2)G. period 7s	42 13	12	White round concrete structure; 33.	
5516 F 6302	-S. breakwater, head.	34° 46.2' N 139° 02.8' E	Fl.G. period 3s	31 9	6	White concrete column; 20.	
5520 F 6300.6	-Inatori Ko.	34° 46.0' N 139° 03.0' E	Fl.R. period 3s	46 14	9	Red round concrete structure; 36.	
5522 F 6297	Harada.	34° 42.4' N 138° 58.8' E	Fl.G. period 4s	30 9	3	White tower; 16.	
5524 F 6296	Tsumeki Saki.	34° 39.0' N 138° 59.0' E	Fl.W. period 4s	125 38	17	White round concrete structure; Visible 180°-062°. 56.	
5528 F 6295	Suzaki Ko, detached breakwater.	34° 39.0' N 138° 58.0' E	Oc.R. period 5s lt. 4s, ec. 1s	33 10	11	Red round concrete tower; 31.	
5532 F 6294	Yebisu Shima.	34° 39.1' N 138° 57.9' E	Dir.Oc.W.R.G. period 4s	102 31	W R G 16 13 13	White tower; 43.	R. 049°34'-053°34', W.-055°26', G.-059°26'.
5536 F 6292	Susari Saki.	34° 39.1' N 138° 57.5' E	Iso.W.R. period 6s	49 15	12	White round concrete structure; 27.	R. 279°-325°, W.-182°.
5540 F 6293.3	-E. breakwater, head.	34° 40.0' N 138° 58.0' E	Fl.R. period 3s	33 10	9	Red round concrete structure; 28.	
5544 F 6293	W. breakwater.	34° 40.1' N 138° 57.3' E	Fl.G. period 3s	32 10	6	White tower; 29.	
5546 F 6291	Tozi, S. breakwater.	34° 38.2' N 138° 54.9' E	Fl.G. period 3s	33 10	3	White tower; 17.	
5548 F 6290	Mikimoto Jima.	34° 34.3' N 138° 56.7' E	Fl.(2)W. period 16s 2 fl. 4s, ec. 12s	167 51	19	White round stone tower, black bands; 75.	Storm signals.
RACON							
(-----)							
5552 F 6273.5	To Shima.	34° 32.0' N 139° 17.0' E	Fl.W. period 6s	217 66	21	White round concrete tower; 43.	Visible 070°-270°.
5556 F 6272	Nii Shima.	34° 19.9' N 139° 16.4' E	Fl.W. period 8s	331 101	25	White round concrete tower; 43.	Visible 205°-097°.
5558 F 6272.5	-Breakwater.	34° 22.0' N 139° 14.7' E	Fl.R. period 3s	43 13	9	Red tower; 36.	
5560 F 6273	Shikine Shima.	34° 19.0' N 139° 13.4' E	Fl.W. period 3s	40 12	11	White round concrete tower; 36.	
5562 F 6272.8	-N. side of island.	34° 19.9' N 139° 13.2' E	Iso.R. period 4s	46 14	12	Red tower.	
5564 F 6274	Kozushima.	34° 11.0' N 139° 08.0' E	Fl.W.R. period 12s	397 121	27	White round tower; 49.	W. 290°-077°, R.-090°, W.-189°.
5566 F 6274.8	-Izv Mivra Ko, breakwater.	34° 11.8' N 139° 09.5' E	Fl.G. period 3s	43 13	12	White tower; 31.	
5568 F 6274.4	-W. side.	34° 12.0' N 139° 08.0' E	F.FI.R. period 5s	36 11	F. Fl 6 11	Red round concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5572 F 6270	Iro Saki.	34° 36.0' N 138° 50.9' E	AI.FI.W.R. period 16s	197 60	20	White round concrete tower; 36.	Visible 241°-098°, partially obscured 095°-098°.
5576 F 6270.4	-	34° 36.2' N 138° 50.7' E	Dir.F.W.R.G.	210 64	W. 17 R. 13 G. 13	White tower; 25.	W-248°32', 1°08' arc. R. 4° on right of W. arc. G. 4° on left of W. arc.
5580 F 6269.6	Mera, breakwater.	34° 39.8' N 138° 46.9' E	Fl.(2)R. period 6s	56 17	7	Red tower; 36.	
5584 F 6269.5	Hagati Saki.	34° 41.0' N 138° 45.0' E	Fl.W. period 5s	381 116	27	White round metal structure; 46.	Visible 335°-167°.
5588 F 6269.3	Matsuzaki Ko, breakwater.	34° 45.3' N 138° 46.3' E	Iso.R. period 4s	39 12	11	Red framework tower.	
5592 F 6269.27	-SE. of Nishina.	34° 46.4' N 138° 46.0' E	Fl.R. period 3s	39 12	6	Red round concrete structure; 31.	
5596 F 6269.24	Nishina.	34° 46.0' N 138° 46.0' E	Fl.(2)W. period 8s	200 61	20	White round concrete structure; 31.	
5600 F 6269.2	Tago Shima.	34° 48.4' N 138° 44.9' E	Fl.W. period 3s	102 31	12	White tower; 30.	
5602 F 6269.22	-Breakwater, head.	34° 48.1' N 138° 45.8' E	Fl.G. period 3s	33 10	11	White round concrete tower; 28.	
5604 F 6269	Arari Ko.	34° 49.5' N 138° 46.1' E	Iso.W. period 6s	43 13	12	White round concrete tower; 36.	
5608 F 6268.9	Ugusu Ko, W. breakwater, head.	34° 51.0' N 138° 46.0' E	F.FI.R. period 4s	39 12	F. 8 Fl. 11		
5612 F 6268.8	Toi Ko, breakwater.	34° 54.6' N 138° 47.3' E	Fl.R. period 4s	36 11	11	Red round concrete structure; 29.	
5616 F 6268.2	Heda Ko, about 1,360 meters 227° from Sototakumi Yama summit.	34° 58.0' N 138° 46.0' E	Iso.W. period 6s	56 17	13	White round concrete tower; 39.	
5620 F 6268.4	-Breakwater.	34° 58.2' N 138° 46.6' E	Iso.G. period 6s	33 10	6	White tower; 28.	
5624 F 6264	Tagonoura Ko, E. breakwater.	35° 08.0' N 138° 42.0' E	Iso.R. period 6s	53 16	13	Red round concrete structure; 43.	
5628 F 6264.2	-W. breakwater.	35° 07.9' N 138° 42.1' E	Iso.G. period 6s	53 16	12	White round concrete tower; 53.	
5632 F 6265	-Range, front.	35° 08.7' N 138° 41.4' E	F.G.	66 20	10	White round concrete tower; 56.	
5636 F 6265.1	-Rear, 215 meters 323°30' from front.	35° 08.8' N 138° 41.3' E	F.G.	89 27	10	White round concrete tower; 75.	
5640 F 6266	Numazu Ko, training wall.	35° 04.7' N 138° 51.1' E	Fl.(2)R. period 6s	30 9	5	Red tower; 18.	
5644 F 6266.4	-W. breakwater, head.	35° 04.8' N 138° 51.1' E	Iso.G. period 4s	43 13	12	White round concrete structure; 31.	
5646 F 6266	Uri-shima, breakwater.	35° 03.5' N 138° 52.7' E	Fl.R. period 4s	26 8	6		
5648 F 6267.5	Shiuura Ko, Okino-Shima.	35° 03.0' N 138° 54.0' E	Fl.W. period 3s	32 10	11	White round concrete structure; 28.	
5652 F 6267.4	Shiuura Ko Kuchino.	35° 02.4' N 138° 54.0' E	Fl.R. period 3s	23 7	7	STARBOARD (B) R, beacon, topmark; 19.	
5656 F 6267.6	Awa Sima.	35° 02.0' N 138° 53.4' E	Fl.(2)W. period 7s	33 10	11	White round concrete structure on quadrangular concrete base; 27.	
5660 F 6267.64	Nagai Zaki, breakwater, head.	35° 01.0' N 138° 53.0' E	Iso.R. period 4s	36 11	11	Red round concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5662 F 6267.68	Mito Hakuti, breakwater.	35° 01.3' N 138° 53.9' E	Iso.G. period 4s	24 7	6	White tower; 18.	
5663 F 6267.69	-S. breakwater.	35° 01.3' N 138° 54.0' E	Fl.R. period 3s	22 7	6	Red concrete structure; 19.	
5664 F 6267.7	Izu Ose Saki.	35° 01.6' N 138° 47.4' E	Fl.(3)W. period 13s	52 16	13	White round concrete tower; 43.	
5668 F 6263	Yui Ko, W. breakwater.	35° 06.0' N 138° 34.0' E	F.FI.G. period 6s	43 13	F. 5 Fl 12	White round concrete tower on quadangular base; 28.	
5672 F 6251	-Okitu, breakwater.	35° 02.0' N 138° 31.0' E	Oc.(2)R. period 8s	39 12	11	Red round concrete structure; 36.	
5676 F 6253	-Tonen.	35° 01.2' N 138° 30.1' E	Mo.(U)W. period 14s	98 30	16		Private aid.
5680 F 6253.2	--Auxiliary, about 250 meters N.	35° 01.6' N 138° 30.0' E	Mo.(U)W. period 10s				Private aid.
5684 F 6253.4	--Auxiliary, about 240 meters S.	35° 01.3' N 138° 29.9' E	Mo.(U)W. period 10s				Private aid.
5688 F 6255	-Eziri Basin, N. breakwater.	35° 01.0' N 138° 29.8' E	Fl.R. period 3s	30 9	6	Red tower; 18.	
5692 F 6249.4	-Outer Breakwater, S. Light.	35° 01.5' N 138° 31.3' E	Fl.(3)R. period 13s	59 18	13	Red tower; 52.	
5696 F 6249.5	--N. light.	35° 02.3' N 138° 31.4' E	Iso.G. period 8s	20 6	3	White tower; 11.	
5700 F 6249	-Ma Saki.	35° 01.0' N 138° 31.1' E	Iso.W. period 6s	36 11	11	White octagonal concrete tower; 36.	
SHIMIZU KO:							
5704 F 6248.4	-Miho, breakwater, NE. head.	35° 01.2' N 138° 31.7' E	Fl.(3)G. period 13s	59 18	11	White tower; 56.	
5708 F 6248	-Miho Saki.	35° 00.4' N 138° 32.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	69 21	14	White octagonal concrete tower; Visible 175°-017°. 62.	
5710 F 6262	--Detatched breakwater, elbow.	35° 00.9' N 138° 30.8' E	Fl.Y. period 4s	14 4	6		
5716 F 6262	-Range, front.	34° 59.5' N 138° 30.1' E	F.G.	75 23	14	White metal tripod; 72.	
5720 F 6262.1	--Rear, 90 meters 181°24' from front.	34° 59.6' N 138° 29.9' E	F.G.	95 29	14	White metal tripod; 88.	
5724 F 6244	Mochimune, W. breakwater.	34° 55.0' N 138° 22.0' E	Fl.G. period 3s	43 13	12	White round concrete structure; 33.	
5726 F 6244.5	-E. breakwater.	34° 55.0' N 138° 22.5' E	Fl.R. period 3s	39 12	6	Red tower; 18.	
5728 F 6240	Yaizu, S. breakwater, head.	34° 52.0' N 138° 20.0' E	Iso.W. period 4s	33 10	11	White round concrete tower; 29.	
5732 F 6241	-N. breakwater.	34° 52.0' N 138° 20.0' E	Iso.R. period 4s	43 13	12	Red round concrete tower; 36.	
5736 F 6239.4	-N. outer breakwater.	34° 51.9' N 138° 20.2' E	Fl.(2)R. period 7s	39 12	11	Red round concrete tower; 32.	
5740 F 6239.5	-E. breakwater.	34° 52.0' N 138° 20.0' E	F.FI.G. period 4s	59 18	8	White round concrete structure; 46.	
5744 F 6239	-Kogawa, N. breakwater.	34° 51.0' N 138° 20.0' E	Iso.G. period 4s	57 17	13	White concrete structure; 42.	
5746 F 6238	--Inner breakwater.	34° 50.9' N 138° 20.0' E	Fl.R. period 3s	22 7	5	Red tower; 11.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5748 F 6237	Sizuhama, AVIATION LIGHT.	34° 48.7' N 138° 17.6' E	AI.FI.W.G. period 10s	114 35		Metal framework structure; 85.	
5752 F 6236	Oigawa Ko, S. breakwater.	34° 46.5' N 138° 18.5' E	F.FIG. period 5s	42 13	F. Fl	5 12	White concrete structure; 28.
5753 F 6236.3	-N.	34° 46.5' N 138° 18.1' E	FI.R. period 4s	19 6		5	Red tower; 10.
5754 F 6236.2	-S.	34° 46.4' N 138° 18.1' E	FI.G. period 4s	19 6		5	White tower; 7.
5756 F 6235.5	Yosida Gyoko, breakwater, head.	34° 45.0' N 138° 16.0' E	FI.R. period 3s	49 15		7	Red concrete structure; 31.
5760 F 6235	Sagara Ko, breakwater.	34° 41.0' N 138° 13.0' E	F.FI.(2)G. period 10s	49 15	F. Fl	5 12	White round concrete structure; 33.
5762 F 6235.1	-N. breakwater, head.	34° 41.9' N 138° 13.2' E	FI.G. period 3s	31 9		6	White tower; 22.
5764 F 6234.8	Ondo, E. breakwater, head.	34° 37.8' N 138° 12.4' E	FI.G. period 3s	26 8		5	
5766 F 6234.9	--W. breakwater, head.	34° 38.1' N 138° 14.0' E	FI.(2)G. period 6s	20 6		4	White round tower; 8.
5768 F 6234.7	-W. Outer breakwater, E. head.	34° 37.7' N 138° 13.9' E	FI.(2)R. period 6s	43 13		9	Red tower; 34.
5769	--W. head.	34° 37.7' N 138° 13.6' E	FI.G. period 5s	16 5		4	White tower; 8.
5770 F 6234.5	-W. middle breakwater, head.	34° 37.2' N 138° 13.6' E	FI.R. period 4s	42 13		12	Red round concrete structure; 32.
5772 F 6234	-E. middle breakwater, head.	34° 37.0' N 138° 14.0' E	FI.W. period 4s	42 13		12	White round concrete structure, quadrangular concrete base; 24.
5774 F 6233	-E. Inner breakwater, head.	34° 36.7' N 138° 13.6' E	Iso.G. period 4s	40 12		11	White tower; 36.
5778 F 6228	Omaezaki.	34° 35.6' N 138° 13.7' E	FI.W. period 10s	177 54		19	White round brick tower; 72. Visible 221°-104°.
RAMARK							
5780 F 6230	Gozen Iwa.	34° 36.0' N 138° 16.0' E	FI.(2)W. period 8s	59 18		13	White round concrete tower; 36.
5784 F 6226	Water tower intake, No. "1".	34° 36.7' N 138° 08.6' E	FI.(2)W. period 5s	33 10		11	ISOLATED DANGER BRB, tower, topmark; 28. Intakes "2", "3" and "4" each marked by beacon BRB, FI.(2)W. 5s 12m 11M.
5790 F 6225	Hukude, breakwater, head.	34° 39.6' N 137° 54.4' E	FI.G. period 5s	36 11		5	White tower; 13.
5792 F 6224	Tenryu Kawa, E. side.	34° 38.8' N 137° 48.9' E	Iso.W. period 6s	59 18		13	White round tower, upper half metal, lower half concrete; 52. Visible 270°-100°.
5796 F 6223	-W. side.	34° 38.7' N 137° 46.8' E	FI.W. period 4s	43 13		12	White round tower; 28.
5800 F 6219	Maisaka.	34° 41.0' N 137° 37.0' E	FI.(2)W. period 20s 2 fl. 7s, ec. 13s	122 37		17	White round concrete tower; 92. Visible 270°-80°.
5804 F 6221	Hamana Ko, training wall.	34° 40.6' N 137° 36.1' E	FI.W. period 3s	32 10		9	White quadrangular tower; 28.
5808 F 6221.2	-Head.	34° 40.2' N 137° 36.0' E	FI.(2)R. period 7s	43 13		9	Red round concrete structure; 33.
5810 F 6218.5	Ababane Ko.	34° 36.0' N 137° 11.4' E	FI.(2)R. period 6s	43 13		6	Red concrete structure; 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5812 F 6052	Irago Misaki.	34° 34.5' N 137° 01.2' E	Iso.W. period 6s	53 16	12 49.	White round concrete structure;	Visible 285°-147°. Irago Suido Traffic Route Control Signal Station.
5816 F 6053	-Breakwater.	34° 35.1' N 137° 01.4' E	Iso. R. period 6s	39 12	11	Red round concrete tower; 36.	
5820 F 6053.4	-Groin, 900 meters NNE. of point.	34° 35.2' N 137° 01.3' E	Iso.G. period 6s	39 12	11	White round concrete structure; 32.	
5822 F 6051.5	Segyo Se.	34° 30.6' N 137° 01.1' E	Q.(3)W. period 10s	49 15	12	E. CARDINAL BYB, beacon, topmark.	
5823	Isewan.	34° 31.0' N 137° 03.6' E	Iso.W. period 4s			SAFE WATER RW, buoy, topmark.	
	RACON		G(—•)		5		
5824 F 6051	Kami Jima.	34° 33.0' N 136° 59.0' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	374 114	26	White roundl concrete tower; 36.	Visible 140°-341°. Signal station.
			F.W.			Same tower.	Shows over Kozukam Sho and Shimosa Sho.
5832 F 6051.3	-NW. side of island, breakwater, head.	34° 33.0' N 136° 58.6' E	Iso.G. period 4s	39 12	11	White round concrete tower; 28.	
5836 F 6055.5	Tatsuma Saki.	34° 39.4' N 137° 04.4' E	Oc.(3)W. period 13s	46 14	13	White round concrete tower; 36.	
ATSUMI WAN:							
5844 F 6217	-Fukue Ko Ko-Nakayama, S. breakwater.	34° 38.7' N 137° 05.7' E	Fl.G. period 4s	31 9	5	White round concrete structure; 22.	
5848 F 6217.4	-Fukue Ko Mukaiyama, N. breakwater.	34° 38.1' N 137° 06.4' E	Iso.R. period 8s	29 9	7	Red round concrete tower; 18.	
5852 F 6216	-Izumi Ko, W. breakwater, head.	34° 39.2' N 137° 09.6' E	Iso.R. period 6s	29 9	7	Red round concrete tower; 19.	
5856 F 6216.4	--E. breakwater, head.	34° 39.2' N 137° 09.6' E	Iso.G. period 6s	26 8	6	White tower; 19.	
5858 F 6207	-Mikawa Ko, breakwater.	34° 48.0' N 137° 16.2' E	Fl.G. period 3s	33 10	5	White tower; 22.	
5860 F 6206	-Miya Ko, S. breakwater, head.	34° 48.3' N 137° 15.0' E	Iso.G. period 6s	30 9	6	White round concrete structure; 22.	
5864 F 6204	--S. breakwater, W. head.	34° 48.5' N 137° 14.8' E	Iso.R. period 6s	30 9	10	Red round concrete tower; 26.	
5866 F 6201.8	Gamagori Ko.	34° 48.2' N 137° 15.2' E	Fl.R. period 3s	28 9	6	Red tower; 19.	
5868 F 6202	--E. breakwater.	34° 48.9' N 137° 13.5' E	Iso.R. period 4s	39 12	8	Red round concrete structure; 28.	
5870 F 6201.5	-Gamagori Ko.	34° 46.0' N 137° 14.6' E	Fl.Y. period 4s	13 4	7	SPECIAL Y, beacon, topmark.	
5872 F 6210	-Tahara Ko, breakwater, head.	34° 41.3' N 137° 14.5' E	F.FI.R. period 3s	42 13	F. 6 Fl 12	Red round concrete structure; 32.	
5873 F 6209.5	--Hime Sima, breakwater.	34° 42.9' N 137° 15.2' E	Fl.(3)R. period 12s	46 14	5	Red tower; 31.	
5874 F 6208	Toyohashi Ko, detached breakwater, SW. head.	34° 44.0' N 137° 16.4' E	Fl.G. period 5s	56 17	13	White tower; 52.	
5875 F 6208.7	Toyohashi Ko, jetty.	34° 43.4' N 137° 19.7' E	Fl.R. period 3s	26 8	6	Red tower; 19.	
5876 F 6201	-Katahara Ko, N. breakwater, head.	34° 47.0' N 137° 12.0' E	F.FI.R. period 6s	33 10	F. 6 Fl 11	Red round tower on quadrangular base; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5880 F 6200	-Katanohara Ko.	34° 47.0' N 137° 11.7' E	Fl.R. period 3s	39 12	9	White round concrete tower; 22.	
5884 F 6199	Mikawa Nisiura.	34° 47.3' N 137° 11.5' E	Fl.G. period 3s	39 12	3	White round concrete tower; 28.	
5888 F 6198	-Hasida Hana.	34° 45.7' N 137° 10.4' E	Al.Fl.W.R. period 20s	118 36	17	White round tower; 46.	Visible 266°-162°.
MIKAWA WAN:							
5896 F 6197.6	-Kuramai Ko, breakwater, head.	34° 46.4' N 137° 10.3' E	Fl.G. period 3s	40 12	3	White round concrete tower; 30.	
5900 F 6197	-Tigaro Ko, breakwater.	34° 46.7' N 137° 10.6' E	Fl.G. period 5s	31 9	5	White tower; 22.	
5904 F 6197.2	-Hara Ya.	34° 46.6' N 137° 10.5' E	Fl.R. period 3s	30 9	6	Red concrete structure; 27.	
5908 F 6196.6	-Higashi Hazu Ko Susaki, S. breakwater.	34° 47.1' N 137° 09.8' E	Oc.(2)G. period 6s	39 12	4	White round concrete structure; 31.	
5912 F 6196.7	--S. Outer breakwater.	34° 46.8' N 137° 10.0' E	Iso.G. period 4s	36 11	11	White quadrangular metal framework structure; 29.	
5916 F 6196.4	-Higashi-Hazu Ko, Nakashiba, S. breakwater.	34° 47.0' N 137° 09.0' E	F.Fl.(2)R. period 10s 2 fl. 3s, ec. 7s	43 13	F. Fl.	6 12	Red round tower, quadrangular base; 28.
5920 F 6195.6	Kenasi Shima.	34° 46.2' N 137° 08.5' E	Fl.R. period 3s	43 13	7	Red round concrete structure; 33.	
5924 F 6196.5	-Hazu Ko, breakwater.	34° 47.1' N 137° 08.2' E	Fl.(3)R. period 12s	39 12	3	Red tower; 30.	
5926 F 6196.54	--Breakwater, E. head.	34° 46.9' N 137° 08.8' E	Fl.(2)G. period 6s	33 10	5	White tower; 22.	
5928 F 6196	--Kuwahata, S. breakwater.	34° 47.0' N 137° 08.4' E	Oc.G. period 4s	36 11	6	White tower; 22.	
5932 F 6195.4	-Terabe, S. breakwater.	34° 47.1' N 137° 07.2' E	Iso.R. period 8s	39 12	4	Red tower; 31.	
5936 F 6195	-Nishi Hazu, S. breakwater.	34° 47.2' N 137° 07.1' E	F.Fl.R. period 6s	39 12	F. Fl.	6 11	Red round tower; 28.
5940 F 6194.7	--Toba, N. breakwater.	34° 46.8' N 137° 06.6' E	F.Fl.R. period 3s	43 13	F. Fl.	6 12	Round red concrete tower; 30.
5944 F 6194.2	--W. breakwater.	34° 46.3' N 137° 05.7' E	Fl.G. period 3s	43 13	8	White tower; 34.	
5948 F 6194.4	Naka Shima.	34° 46.2' N 137° 05.8' E	Mo.(D)R. period 8s	33 10	6	STARBOARD (B) R, beacon, topmark; 30.	
5952 F 6194.5	Akunami.	34° 46.6' N 137° 06.2' E	Fl.(2)W. period 5s	32 10	9	ISOLATED DANGER BRB, beacon, topmark.	
5960 F 6193	-Yosida Ko.	34° 46.8' N 137° 04.7' E	Fl.(2)R. period 6s	20 6	7	STARBOARD (B) R, beacon, topmark.	
5962 F 6192.3	-W. breakwater.	34° 46.7' N 137° 04.1' E	Fl.R. period 3s	29 9	6	Red concrete structure; 19.	
CHITA WAN:							
5964 F 6180	-Issiki Ko, W. breakwater, head.	34° 47.3' N 137° 00.8' E	Fl.G. period 3s	43 13	7	White tower; 31.	
5968 F 6178	-Sako, NW. of Ishiki Village.	34° 49.0' N 137° 00.0' E	Iso.R. period 6s	49 15	12	Red round concrete tower; 43.	
5972 F 6163.4	-Kinuura Ko, E. breakwater, W. head.	34° 48.9' N 136° 56.8' E	Fl.(2)R. period 6s	66 20	13	Red round metal structure; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5976 <i>F 6163.5</i>	--E. head.	34° 49.5' N 136° 57.7' E	Fl.(2)W. period 6s	33 10	11	White round concrete structure on quadrangular concrete base; 29.	
5980 <i>F 6164</i>	-Kinuura Ko, middle wharf.	34° 52.0' N 136° 58.0' E	Fl.G. period 4s	31 9	8	White round concrete structure; 28.	
5984 <i>F 6163</i>	--Taketoyo.	34° 50.6' N 136° 56.0' E	Iso.G. period 6s	39 12	11	White hexagonal concrete tower; 32.	
5988 <i>F 6163.6</i>	--W. breakwater.	34° 49.3' N 136° 56.3' E	Fl.(2)G. period 6s	66 20	8	White tower; 66.	
5992 <i>F 6164.4</i>	-Handa, breakwater.	34° 53.0' N 136° 57.0' E	F.FI.R. period 3s	40 12	F. Fl	5 Red round concrete structure; 11 32.	
6000 <i>F 6162</i>	Kowa Ko, S. breakwater.	34° 46.7' N 136° 55.0' E	F.FI.R. period 5s	33 10	F. Fl	6 Red tower; 28.	
6004 <i>F 6162.3</i>	-Outer breakwater.	34° 46.6' N 136° 55.1' E	Fl.G. period 5s	39 12	3	White tower; 31.	
6006 <i>F 6161.9</i>	-Breakwater, head.	34° 45.8' N 136° 55.6' E	Fl.(2)G. period 6s	33 10	5	White round concrete tower; 19.	
6008 <i>F 6161.5</i>	Namiga Saki, Saku Shima, W. point.	34° 44.0' N 137° 02.0' E	Iso.W. period 6s	36 11	11	White round concrete tower; 33.	
6012 <i>F 6160</i>	Kadoishi, Chita Wan, S. entrance.	34° 42.1' N 136° 59.4' E	Q.(9)W. period 15s	43 13	12	W. CARDINAL YBY, beacon, topmark; 39.	
RACON		OE(---•)			5		
6016 <i>F 6159.4</i>	Morozaki Ko, N. Breakwater.	34° 42.4' N 136° 58.4' E	Fl.R. period 4s	30 9	6	Red round concrete tower; 22.	
6018	-E. head.	34° 42.2' N 136° 58.6' E	Fl.G. period 4s	22 7	3	White tower; 16.	
6020 <i>F 6160.2</i>	Shimose Sho.	34° 42.0' N 136° 59.5' E	Mo.(A)R. period 8s	33 10	5	STARBOARD (B) R, beacon, topmark.	
6024 <i>F 6159.5</i>	Okiro Shima.	34° 42.0' N 136° 58.6' E	Mo.(A)G. period 8s	30 9	3	PORT (B) G, beacon, topmark.	
6028 <i>F 6159.3</i>	Morosaki Ko, S. breakwater, head.	34° 41.9' N 136° 58.5' E	Iso.G. period 4s	39 12	8	White square concrete tower; 26.	
6032 <i>F 6159.2</i>	-Outer breakwater, E. head.	34° 42.1' N 136° 58.7' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 31.	
6036 <i>F 6159</i>	Ha Shima.	34° 41.4' N 136° 58.6' E	Q.(6)+L.FI.W. period 15s	36 11	11	S. CARDINAL YB, beacon, topmark.	
6040 <i>F 6161.8</i>	Saku Shima, E. Light.	34° 43.0' N 137° 03.0' E	Q.(6)+L.FI.W. period 15s	33 10	11	S. CARDINAL YB, beacon, topmark.	
6044 <i>F 6161.6</i>	Saku Shima, Tainoura.	34° 42.7' N 137° 02.9' E	Mo.(C)G. period 13s	31 9	11	PORT (B) G, beacon, topmark; 28.	
6048 <i>F 6161.7</i>	-Breakwater, head.	34° 43.0' N 137° 03.1' E	Oc.G. period 8s	30 9	6	White tower; 28.	
6050 <i>F 6160.5</i>	-Breakwater.	34° 42.3' N 137° 00.1' E	Fl.G. period 3s	25 8	5	White tower; 18.	
6054 <i>K 6160.4</i>	Himaka Sima.	34° 42.0' N 137° 00.0' E	Fl.(2)R. period 6s	33 10	6	Red tower; 22.	
6055 <i>F 6160.3</i>	Himaka Sa, SE. breakwater.	34° 42.1' N 137° 00.6' E	Fl.R. period 4s	33 10	6	Red tower; 22.	
6056 <i>F 6160.6</i>	Owari-O-Isa, on reef, about 3.95 km. 019° from Shino Shima.	34° 42.6' N 137° 01.4' E	Q.W.	32 10	9	N. CARDINAL BY, beacon, topmark.	
6060 <i>F 6057.5</i>	Sinosima Ko.	34° 40.9' N 137° 00.4' E	Fl.R. period 3s	39 12	9	Red round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6064 F 6056	Sinosima ko, breakwater, S. head.	34° 40.5' N 137° 00.1' E	Fl.G. period 3s	36 11	8	White tower; 29.	
6072 F 6055	Owari No Sima.	34° 39.3' N 137° 00.7' E	Fl.(2)W. period 7s	197 60	20	White round concrete tower; 32.	Reserve light Fl.(3)W. 9s 14M.
6076 F 6161	Oi Ko, entrance, N. side.	34° 43.4' N 136° 58.3' E	Q.(3)W. period 10s	30 9	10	E. CARDINAL BYB, beacon, topmark; 26.	
6080 F 6161.3	Tokugo, Morosaki Suido.	34° 43.2' N 136° 57.9' E	Fl.R. period 3s	30 9	7	Red square concrete tower; 19.	F.W. spotlight illuminates works 30m SSE.
6084 F 6161.4	-No."2" breakwater.	34° 43.1' N 136° 58.1' E	Fl.G. period 3s	43 13	11	White round metal structure; 28.	
6088 F 6158.2	Toyohama Ko, W. breakwater, E. head.	34° 42.2' N 136° 56.2' E	Iso.G. period 6s	33 10	4	White round concrete structure; 28.	
6092 F 6158.5	-S. breakwater.	34° 42.2' N 136° 56.2' E	Fl.(2)R. period 6s	33 10	7	Red tower; 25.	
6096 F 6156	Nakashu, W. breakwater.	34° 42.5' N 136° 55.1' E	Fl.G. period 5s	43 13	3	White tower; 32.	
6100 F 6156.5	-E. breakwater.	34° 42.5' N 136° 55.1' E	Fl.R. period 5s	46 14	7	Red tower; 28.	
6104 F 6146	Utsumi Ko, S. groin.	34° 44.0' N 136° 52.0' E	Fl.(2)R. period 8s	36 11	11	Red quadrangular framework tower; 31.	
6108 F 6144	Noma Saki, S. of point.	34° 45.0' N 136° 51.0' E	Iso.W. period 6s	66 20	13	White round concrete tower; 59.	Visible 326°-164°.
6110 F 6141	Kosugaya Ko, breakwater.	34° 49.5' N 136° 51.9' E	Fl.G. period 3s	26 8	5	White tower; 18.	
6110.9 F 6138.6	-SW.	34° 50.1' N 136° 48.7' E	Mo.(U)W. period 8s	30 9	4		
6112 F 6139	Kariya Ko, S. breakwater, head.	34° 51.0' N 136° 51.5' E	F.Fl.R. period 5s	43 13	F. 6 Fl. 12	Red round concrete structure; 32.	
6116 F 6138.5	Tokoname Ko, breakwater.	34° 52.4' N 136° 50.2' E	F.Fl.(2)G. period 6s	36 11	F. 5 Fl. 11	White round concrete structure; 28.	
6120 F 6138	-Inner breakwater.	34° 52.5' N 136° 50.4' E	Iso.R. period 4s	25 8	10	Red round concrete tower; 21.	
6124 F 6137	Oniga Saki Ko, N. breakwater, head.	34° 54.3' N 136° 49.2' E	Iso.G. period 8s	39 12	11	White tower; 29.	
6128 F 6136	Oniga-Saki Kamachi, N. breakwater.	34° 54.9' N 136° 49.3' E	Iso.G. period 4s	36 11	4	White round concrete tower; 28.	
6132 F 6135	Owari Ono, Yata Kawa mouth, N. side.	34° 55.8' N 136° 49.5' E	Oc.G. period 8s	29 9	6	White round concrete tower; 18.	
6136 F 6133	Ise Wan.	34° 56.0' N 136° 48.0' E	Fl.W. period 10s	82 25	15	White round metal structure, concrete piles; 66.	Signal station.
6140 F 6095.6	-Ise Wan.	34° 55.6' N 136° 44.4' E	Mo.(U)W. period 14s	125 38	17	Loading platform.	Radar reflector.
6140.21 F 6095.62	--250 meters N.	34° 55.7' N 136° 44.4' E	Mo.(U)W. period 8s		7		Horn: 1 bl. ev. 30s.
6140.22 F 6095.63	--120 meters N.	34° 55.7' N 136° 44.4' E	Mo.(U)W. period 8s		7		
6140.31 F 6095.64	--100 meters S.	34° 55.5' N 136° 44.4' E	Mo.(U)W. period 8s		7		
6140.32 F 6095.65	--250 meters S.	34° 55.5' N 136° 44.4' E	Mo.(U)W. period 8s		7		Horn: 1 bl. ev. 30s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
NAGOYA KO:							
6144 F 6113	Middle tidal breakwater, E. head.	34° 59.7' N 136° 49.4' E	Iso.G. period 4s	66 20	13	White round metal tower; 66.	
6150 F 6111	--Meikonisi.	35° 02.9' N 136° 50.2' E	Iso.W. period 4s	138 42	8		Center span of bridge. Iso.R. 7M, Iso.G. 9M, F.R. 6M, F.G. 7M, Fl.Y. 6M mark bridge.
6152 F 6111	Kuwana Ko, Ibi Kawa, training wall, head.	35° 00.0' N 136° 43.2' E	Fl.W. period 3s	23 7	10	White tower; 27.	
6156 F 6112	-Training wall, head.	35° 01.5' N 136° 42.6' E	Fl.(2)W. period 6s	36 11	6	White quadrangular metal framework tower; 29.	
6160 F 6110	Tomisuhara Ko, S. breakwater.	35° 00.0' N 136° 40.1' E	Fl.(2)G. period 7s	20 6	9	White round concrete tower; 25.	
6161 F 6110.1	Kasumigaura Wharf, E. Range, front.	34° 59.2' N 136° 40.5' E	F.G.	79 24	14	White mast, white triangular daymark; 79.	
6161.1 F 6110.12	-Rear, 220 meters 266°18' from front.	34° 59.1' N 136° 40.3' E	F.G.	102 31	16	White mast, white triangular daymark; 96.	
6162 F 6110.15	--NW. Range, front.	34° 59.5' N 136° 40.0' E	F.R.	85 26	7	White mast, white triangular daymark; 86.	
6162.1 F 6110.16	--Rear, 140 meters 293° from front.	34° 59.6' N 136° 39.9' E	F.R.	102 31	7	White mast, white triangular daymark; 96.	
YOKKAICHI KO:							
6164 F 6097	-Cosmo Sea Berth SBM.	34° 56.8' N 136° 42.8' E	Mo.(U)W. period 8s	10	Yellow.		Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
6168 F 6097.2	-Syowayokaiti Sea Berth. SBM. No. "1".	34° 55.6' N 136° 42.4' E	Mo.(U)W. period 12s	10	Yellow.		Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
6172 F 6097.4	--No. "2" SBM.	34° 55.8' N 136° 41.5' E	Mo.(U)W. period 12s	9	Yellow.		Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
6176 F 6098	-S. breakwater, head.	34° 57.0' N 136° 40.0' E	Oc.(3)G. period 13s	66 20	13	White round metal structure; 66.	
6180 F 6099	-E. breakwater.	34° 57.0' N 136° 40.0' E	Iso.R. period 6s	49 15	12	Red round metal tower; 42.	
6184 F 6097.6	-E. breakwater, N. head.	35° 58.0' N 136° 40.0' E	Iso.G. period 6s	62 19	13	White round concrete structure; 52.	
6188 F 6104	-Yokkaichi, basin, breakwater, head.	34° 57.0' N 136° 38.0' E	Fl.W. period 3s	26 8	10	White round concrete tower; 23.	
6192 F 6096	-Isozu Ko, S. breakwater.	34° 55.0' N 136° 39.0' E	Iso.G. period 6s	46 14	12	White round fiberglass structure; 33.	
6196 F 6095	Suzuka Ko, S. breakwater.	34° 53.0' N 136° 38.4' E	F.FI.(2)G. period 8s 2 fl. 3s, ec. 5s	46 14	F. 5 Fl 11	White tower; 31.	
6200 F 6094.4	Wakamatu Ko, S. breakwater.	34° 51.9' N 136° 37.7' E	F.FI.W. period 3s	39 12	F. 8 Fl 11	White round concrete structure; 32.	
6204 F 6094	Chiyo Saki Ko, S. breakwater.	34° 51.1' N 136° 37.2' E	F.FI.G. period 3s	43 13	F. 5 Fl 12	White tower; 32.	
6208 F 6093	Shiroko Ko, S. breakwater, head.	34° 50.0' N 136° 36.0' E	Oc.(2)G. period 6s	31 9	11	White octagonal concrete tower; 30.	
6209 F 6093.6	-Outer breakwater, N. head.	34° 49.4' N 136° 36.0' E	Fl.G. period 3s	39 12	8	White round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6210 <i>F 6093.5</i>	Siroko Ko.	34° 49.3' N 136° 35.8' E	F.I.R. period 3s	43 13	9	Red tower; 33.	
6212 <i>F 6087</i>	Tsu Ko, 4 miles NNE.	34° 47.0' N 136° 33.0' E	Iso.G. period 6s	39 12	11	White round concrete structure; 31.	
6216	Tsu Ko, Nie Saki, Gawa, entrance.	34° 43.0' N 136° 32.0' E	Iso.W. period 8s	53 16	12	White square concrete tower; 27.	
6220 <i>F 6084</i>	-N. breakwater, head.	34° 42.6' N 136° 31.6' E	Fl.(2)R. period 6s	39 12	4	Red octagonal concrete tower; 30.	
6222 <i>F 6085</i>	-Breakwater, S. head.	34° 42.2' N 136° 31.9' E	F.I.R. period 3s	39 12	9	Red tower; 31.	
6224 <i>F 6082</i>	Tuko Iguratu, breakwater.	34° 40.8' N 136° 33.0' E	Oc.(2)G. period 6s	59 18	8	White round concrete structure; 53.	
6228 <i>F 6081.4</i>	Karasu Ko, S. breakwater.	34° 39.5' N 136° 33.2' E	F.FIG. period 5s	43 13	F. Fl.	5 12	White round concrete structure; 31.
6232 <i>F 6080</i>	Matsuzaka Ko, E. breakwater, head.	34° 37.0' N 136° 33.7' E	Iso.G. period 6s	39 12	10	White tower; 33.	
6236 <i>F 6081</i>	Ryosi Ko, W. breakwater.	34° 36.4' N 136° 32.7' E	F.I.R. period 3s	36 11	11	Red round concrete tower; 33.	
6240 <i>F 6081.2</i>	-Inner breakwater, head.	34° 36.6' N 136° 31.8' E	Iso.R. period 6s	39 12	4	Red tower; 33.	
6244	Matusaki Ko Range, front, wharf, head.	34° 36.0' N 136° 34.0' E	F.W.	39 12	11	Round metal structure, white triangular topmark; 39.	
6248 <i>F 6080.2</i>	-Rear, 40 meters 204°48' from front.	34° 36.5' N 136° 33.6' E	F.W.	49 15	12	Round metal structure, white triangular daymark; 49.	
6252 <i>F 6074</i>	Oyodo Ko, N. breakwater.	34° 34.0' N 136° 40.0' E	Iso.R. period 6s	36 11	11	Red octagonal concrete structure; 26.	
6254 <i>F 6073.5</i>	Muramatu Ko.	34° 33.0' N 136° 41.5' E	Fl.G. period 3s	27 8	6	White tower; 18.	
6256 <i>F 6062</i>	Toyokita Ko, E. breakwater, head.	34° 32.4' N 136° 43.3' E	Iso.G. period 4s	43 13	12	White round concrete structure; 31.	
6260 <i>F 6066</i>	Ujiyamada Ko, N. jetty.	34° 32.0' N 136° 46.0' E	F.I.R. period 3s	32 10	9	Red square metal framework tower; 27.	
6264 <i>F 6063.6</i>	Omura Sima.	34° 30.6' N 136° 49.2' E	Mo.(D)R. period 8s	36 11	9	STARBOARD (B) R, beacon, topmark; 32.	
6268 <i>F 6064</i>	Kozaki Saki.	34° 30.4' N 136° 48.5' E	Iso.W. period 8s	299 91	20	White tower; 26.	
6272 <i>F 6050.8</i>	-Obama Fishery Harbor.	34° 30.0' N 136° 50.1' E	Fl.(2)G. period 6s	30 9	3	White tower; 26.	
TOBA KO:							
6276 <i>F 6050</i>	-Toba Ko, entrance Range, front.	34° 29.0' N 136° 51.0' E	F.R.	141 43	16	White square metal tower; 79.	
6280 <i>F 6050.1</i>	--Rear, 200 meters 243° 37' from front.	34° 29.1' N 136° 50.4' E	Iso.R. period 4s	194 59	16	White round metal tower, concrete base; 25.	Visible 243°-246°.
6284 <i>F 6050.3</i>	-E. breakwater.	34° 29.0' N 136° 51.0' E	F.FIG. period 5s	39 12	F. Fl.	5 11	White round concrete structure; 32.
6288 <i>F 6047.6</i>	-Sakate, S. breakwater.	34° 28.8' N 136° 51.7' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 32.	
6292 <i>F 6063</i>	-Shimaga Saki.	34° 30.0' N 136° 51.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	95 29	15	White concrete cross; 31.	
6294 <i>F 6063.5</i>	Momotori Ko, W. breakwater.	34° 30.7' N 136° 51.2' E	Fl.G. period 3s	27 8	5	White tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6296 <i>F 6063.4</i>	-Momotori Ko, E. breakwater.	34° 30.8' N 136° 51.5' E	Fl.R. period 3s	27 8	6	Red tower; 19.	
6300 <i>F 6047.4</i>	-Seigan Shima.	34° 28.8' N 136° 52.2' E	Fl.(2)W. period 5s	29 9	11	ISOLATED DANGER BRB, beacon, topmark; 31.	
6304 <i>F 6047.8</i>	-Maruyama Saki.	34° 29.0' N 136° 52.0' E	Mo.(C)G. period 17s	32 10	11	PORT (B) G, beacon, topmark.	
6307 <i>F 6036.3</i>	Koka Ko.	34° 18.9' N 136° 53.6' E	Fl.G. period 3s	30 9	3	White tower; 16.	
6308 <i>F 6057.8</i>	Tosi Ko, N. breakwater, head.	34° 31.9' N 136° 54.3' E	Fl.G. period 4s	30 9	5	White tower; 17.	
6312 <i>F 6058</i>	Toshi Ko, S. breakwater, head.	34° 31.9' N 136° 54.3' E	Oc.G. period 4s lt. 3s, ec. 1s	46 14	9	White tower; 28.	
6316 <i>F 6059</i>	Toshi Wagu Ko, S. breakwater.	34° 31.1' N 136° 54.1' E	Fl.R. period 3s	30 9	7	Red round concrete structure; 19.	
6320 <i>F 6048.5</i>	Sugashima Ko, N. breakwater.	34° 30.0' N 136° 54.2' E	Fl.(2)G. period 6s	42 13	12	White tower; 31.	
6324 <i>F 6049</i>	-S. breakwater.	34° 30.0' N 136° 53.8' E	Iso.G. period 6s	36 11	4	White tower; 28.	
6328 <i>F 6048</i>	Suga Shima.	34° 30.0' N 136° 55.0' E	Fl.W. period 4s	181 55	20	White round brick tower; 32.	Visible 156°-008°.
6330 <i>F 6047.2</i>	Arasima, breakwater, S. head.	34° 27.5' N 136° 52.4' E	Fl.R. period 3s	26 8	7	Red tower; 19.	
6332 <i>F 6047</i>	Maenage Se.	34° 26.9' N 136° 53.2' E	Mo.(D)R. period 8s	30 9	6	STARBOARD (B) R, beacon, topmark; 28.	
6336 <i>F 6046</i>	Ijika.	34° 26.0' N 136° 56.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	125 38	17	White octagonal concrete structure; 31.	
6340 <i>F 6046.3</i>	-Breakwater.	34° 26.8' N 136° 55.4' E	Fl.G. period 3s	43 13	3	White tower; 31.	
6344 <i>F 6045</i>	Yoroi Zaki.	34° 25.0' N 136° 56.0' E	Iso.W. period 6s	89 27	15	White octagonal concrete tower; 31.	
6348 <i>F 6045.2</i>	Kusaki Ko, S. breakwater.	34° 24.5' N 136° 55.6' E	F.FI.R. period 5s	43 13	F. Fl. 6 12 27.	Red round concrete structure;	
6352 <i>F 6042.46</i>	Osatsu, breakwater.	34° 23.0' N 136° 55.0' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 31.	
6356 <i>F 6042</i>	Anori Saki.	34° 22.0' N 136° 55.0' E	Fl.W. period 15s	108 33	16	White square concrete tower; 43.	Visible 093°-033°. Storm signals.
6360 <i>F 6044.5</i>	-Matoya Ko, inside of Suga Saki.	34° 23.0' N 136° 54.0' E	F.G.	36 11	11	White tower; 33.	Visible 200°-084°.
6362 <i>F 6042.4</i>	-E. breakwater.	34° 21.6' N 136° 54.0' E	Iso.G. period 6s	39 12	11	White tower; 29.	
6364 <i>F 6042.46</i>	--W. breakwater, head.	34° 21.9' N 136° 53.8' E	Fl.R. period 4s	36 11	3	Red round concrete structure; 30.	
6368 <i>F 6042.6</i>	-Oki Se.	34° 22.0' N 136° 53.0' E	Fl.R. period 3s	39 12	9	STARBOARD (B) R, beacon, topmark.	
6372 <i>F 6044</i>	-Watakano Shima, breakwater.	34° 21.6' N 136° 52.6' E	Iso.R. period 6s	36 11	11	Red tower; 31.	
6374 <i>F 6042.25</i>	-SE. breakwater.	34° 21.9' N 136° 54.6' E	Fl.(2)G. period 6s	36 11	3	White tower; 31.	
6376 <i>F 6038</i>	Nakiri Ko, inner breakwater.	34° 16.7' N 136° 54.1' E	Fl.G. period 3s	43 13	6	White round concrete tower; 30.	
6378	-Outer breakwater, head.	34° 16.8' N 136° 54.4' E	Oc.G. period 4s	57 17	12	White tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6380 <i>F 6036.4</i>	Nada Miyauzi Sima.	34° 17.3' N 136° 53.8' E	F.W.	95 29	White round concrete structure; 32.	Illuminates white beacon on Miyauzi Sima.	
6384 <i>F 6036</i>	Daio Saki.	34° 16.4' N 136° 54.1' E	AI.FI.W.R. period 30s	151 46	18 White round concrete tower; 75.	Visible 199°-079°. Radiobeacon.	
			F.R.			Visible 043°-079°.	
	RAMARK						
6388	Daio Zaki, N.	34° 16.0' N 136° 54.0' E	F.W.	89 27	Concrete tower; 10.	Illuminates Daio Iwa about 720 meters ENE.	
6392 <i>F 6035</i>	Fukaya Suido, entrance.	34° 15.6' N 136° 51.9' E	Fl.W. period 3s	46 14	10 White round concrete structure; 33.	Visible 265°-095°.	
6394 <i>F 6035.2</i>	-N. entrance.	34° 16.1' N 136° 51.8' E	Iso.G. period 6s	36 11	6 White tower; 31.	Visible 010°-200°.	
6396 <i>F 6034.2</i>	Mugi Saki.	34° 14.6' N 136° 51.0' E	Iso.W. period 6s	92 28	15 White round concrete structure, quadrangular concrete base; 52.		
6400 <i>F 6034.5</i>	Katada Ko, S. breakwater.	34° 15.0' N 136° 50.6' E	F.FI.R. period 5s	46 14	F. 3 Red round concrete structure; 32.		
6404 <i>F 6033.8</i>	Onaga Iso.	34° 14.0' N 136° 50.0' E	Fl.(2)G. period 6s	52 16	10 PORT (B) G, beacon, topmark.		
6408 <i>F 6033.7</i>	Fuseda.	34° 14.0' N 136° 48.0' E	Mo.(C)G. period 13s	49 15	12 PORT (B) G, beacon, topmark.		
6412 <i>F 6033.5</i>	Wagu Ko, E. breakwater.	34° 14.9' N 136° 48.5' E	Oc.R. period 4s lt. 3s, ec. 1s	42 13	12 Red tower; 31.		
6414 <i>F 6033.6</i>	-Outer breakwater.	34° 14.8' N 136° 48.6' E	Fl.G. period 3s	42 13	6 White tower; 28.		
6416 <i>F 6033.46</i>	Iwai Misaki.	34° 15.0' N 136° 46.0' E	F.W.	121 37	White round concrete structure;	Illuminates Yasuri Saki, 550 meters WSW.	
6420 <i>F 6032.7</i>	Gozza Misaki.	34° 16.0' N 136° 45.3' E	Fl.W. period 10s	322 98	25 White round concrete structure;	Visible 295°-180°.	
6424 <i>F 6033.3</i>	Gozza Ko, W. breakwater.	34° 16.0' N 136° 46.0' E	Iso.R. period 8s	36 11	11 Red round concrete tower; 31.		
6428 <i>F 6033.31</i>	Yatorino Se, on rock.	34° 16.6' N 136° 48.8' E	Fl.(2)W. period 5s	30 9	3 ISOLATED DANGER BRB, beacon, topmark.		
6432 <i>F 6033.32</i>	O Hana.	34° 16.1' N 136° 50.2' E	Fl.W. period 3s	33 10	10 White round concrete structure; 31.		
6436 <i>F 6033.42</i>	Masaka Shima.	34° 17.0' N 136° 48.7' E	F.FI.R. period 4s	33 10	F. 6 Red round concrete structure; 31.		
6440 <i>F 6033</i>	Hamajima Ko, on Yatori Islet.	34° 17.0' N 136° 46.0' E	Fl.W. period 4s	66 20	14 White round concrete tower; 28.		
6444 <i>F 6033.2</i>	-Breakwater.	34° 17.7' N 136° 45.8' E	Oc.G. period 8s	39 12	11 White tower; 31.		
6448 <i>F 6032</i>	Taso Saki.	34° 17.0' N 136° 42.0' E	Fl.(2)W. period 6s	318 97	17 White round concrete tower; 39.		
6452 <i>F 6031</i>	-Katsurs, on breakwater.	34° 17.0' N 136° 41.0' E	Fl.(2)R. period 6s	46 14	9 Red round concrete structure; 33.		
6456 <i>F 6032.2</i>	Gokasho Ko, O Shima.	34° 18.0' N 136° 40.0' E	Fl.(3)W. period 12s	49 15	12 White round concrete structure 32.		
6460 <i>F 6032.4</i>	Mabana Shima.	34° 19.0' N 136° 41.0' E	Fl.W. period 4s	56 17	12 White round concrete structure; 33.		
6464 <i>F 6032.3</i>	Hazama Ura.	34° 19.0' N 136° 41.0' E	F.G.	36 11	11 White round concrete tower; 26.	Visible 031°-275°.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6468 F 6032.5	Gokasho Ko, Sone Se.	34° 20.0' N 136° 42.0' E	Mo.(A)R. period 8s	31 9	9	STARBOARD (B) R, beacon, topmark.	
6472 F 6032.6	Gokasyo Ura.	34° 20.6' N 136° 42.1' E	F.FI.R. period 5s	36 11	F. Fl	6 11	Red round concrete structure; 32.
6476 F 6028	Ogura Ko, W. side of bay, breakwater, head.	34° 17.4' N 136° 39.5' E	Iso.R. period 6s	25 8	7	Red round concrete structure; 17.	
6480	Tasikara Wan.	34° 16.0' N 136° 33.0' E	Oc.R. period 8s	39 12	11	Red tower; 33.	
6484 F 6027.6	Mieura Ko.	34° 16.0' N 136° 34.0' E	F.FI.R. period 5s	39 12	F. Fl	6 11	Red round concrete tower; 31.
6488 F 6027.5	Asoura Ko, jetty.	34° 16.3' N 136° 34.9' E	F.R.	36 11	10	Red tower; 33.	Visible 009°-253°.
6492 F 6027.4	Mie Shima.	34° 14.0' N 136° 33.0' E	Fl.W. period 5s	220 67	20	White quadrangular concrete tower; 23.	
6496 F 6027.2	Nayaura Naka-no-Sima.	34° 15.7' N 136° 32.2' E	Fl.(2)R. period 6s	27 8	3	Red tower; 13.	
6500 F 6027.15	Yosizu Ko.	34° 16.3' N 136° 32.5' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 33.	
6504 F 6027.17	-W. breakwater, head.	34° 16.0' N 136° 32.0' E	Iso.G. period 6s	39 12	11	White tower; 33.	
6508 F 6026.5	Mijojino Se, Kanzaki Wan.	34° 15.3' N 136° 31.3' E	Fl.(2)W. period 5s	42 13	12	ISOLATED DANGER BRB, beacon, topmark; 36.	
6512 F 6027	Yosizu.	34° 16.2' N 136° 30.5' E	Iso.W. period 6s	203 62	20	White tower; 33.	
6516 F 6026.4	Hoza Ko.	34° 15.1' N 136° 30.1' E	Dir.F.W.R.G.	135 41	W. R. G.	16 11 10	White tower; 23. R. 322.5°-327.5°, W.-329°, G.- 334°.
6520 F 6026.3	Kowa.	34° 14.6' N 136° 27.5' E	Iso.W. period 8s	36 11	11	White round concrete structure; 28.	
6522 F 6026.35	Kowaura Wan.	34° 15.0' N 136° 27.9' E	Fl.G. period 3s	30 9	6	White tower; 18.	
6524 F 6025	Nishiki.	34° 13.0' N 136° 23.0' E	Iso.W. period 8s	144 44	18	White round concrete tower; 33.	
6528 F 6025.6	-Breakwater.	34° 12.8' N 136° 24.0' E	Fl.(2)R. period 6s	46 14	7	Red tower; 28.	
6532 F 6025.8	-Training Wall.	34° 13.0' N 136° 24.0' E	Fl.G. period 3s	31 9	11	White round metal structure; 28.	
6536 F 6025.4	Nisiki Ko, E. outer breakwater.	34° 12.6' N 136° 23.6' E	Fl.R. period 3s	52 16	3	Red tower; 31.	
6537 F 6025.7	-W. breakwater, head.	34° 12.8' N 136° 23.8' E	Iso.G. period 6s	36 11	11	White tower; 28.	
6540 F 6024.8	Kome Shima.	34° 11.3' N 136° 24.3' E	Fl.(3)W. period 12s	75 23	12	White round concrete structure; 32.	
6544 F 6023.8	O Lsi.	34° 11.0' N 136° 22.0' E	Fl.(2)R. period 6s	69 21	9	White round concrete structure; 29.	
6548 F 6022	-Nagashima O Shima.	34° 09.0' N 136° 22.0' E	Fl.(3)W. period 18s	322 98	17	White round concrete structure; 31.	
6552 F 6024	Nagashima Ko, breakwater.	34° 11.8' N 136° 20.7' E	Iso.G. period 6s	49 15	12	White round concrete tower; 36.	
6558 F 6022.7	-Breakwater, head.	34° 09.6' N 136° 17.0' E	Fl.R. period 3s	39 12	11	Red tower; 28.	
6560 F 6022.4	Utaka Bana.	34° 07.7' N 136° 17.5' E	Iso.W. period 6s	157 48	19	White round concrete structure; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6564 F 6022.5	-Simakatu Ura.	34° 07.6' N 136° 17.4' E	Iso.G. period 6s	39 12	11	White structure; 31.	
6568 F 6022.2	Shimakatsu.	34° 06.9' N 136° 17.6' E	Fl.W. period 5s	174 53	19	White round concrete tower; 30.	
6572 F 6023.5	-S. breakwater.	34° 07.0' N 136° 18.0' E	Fl.R. period 3s	36 11	11	Red round concrete tower; 31.	
6576 F 6023	-No. "1" breakwater.	34° 06.6' N 136° 17.9' E	F.Fl.G. period 3s	39 12	F. 5 Fl 12	White round concrete structure; 33.	
OWASHI WAN:							
6580 F 6012	-Onaso Hana.	34° 05.0' N 136° 16.0' E	Fl.(3)W. period 12s	197 60	12	White round concrete tower; 26.	
6584 F 6021.5	Hikimoto Ura.	34° 05.0' N 136° 16.0' E	Fl.(2)R. period 6s	72 22	9	Red round concrete structure; 33.	
6588 F 6013	-Nage Isi.	34° 04.5' N 136° 15.1' E	Fl.W. period 5s	49 15	12	White square concrete tower; 25.	
6592 F 6021	-Sugari Ko.	34° 05.8' N 136° 15.8' E	F.Fl.W. period 3s	39 12	F. 8 Fl 11	White round concrete structure; 32.	
6596 F 6019	-Zingu Shima.	34° 05.5' N 136° 15.0' E	Mo.(A)R. period 8s	39 12	7	STARBOARD (B) R, beacon, topmark; 33.	
6600 F 6020	-Hikimoto Ko, breakwater.	34° 06.3' N 136° 14.6' E	Iso.G. period 4s	30 9	4	White octagonal concrete tower; 28.	
6604 F 6016	-Owashi Ko No. "1" breakwater.	34° 04.0' N 136° 13.0' E	Iso.R. period 6s	46 14	12	Red round concrete structure; 31.	
6608 F 6017	--No. "2" breakwater.	34° 04.3' N 136° 12.3' E	Iso.G. period 6s	46 14	5	White pyramidal concrete tower; 31.	
6612 F 6015	--Osone Ura, E. breakwater, head.	34° 03.9' N 136° 13.3' E	Fl.G. period 3s	43 13	3	White quadrangular metal framework structure; 32.	
6616 F 6014	-Yukina Ura, N. breakwater, head.	34° 03.8' N 136° 14.7' E	F.Fl.G. period 3s	43 13	F. 5 Fl 12	White quadrangular metal framework structure; 31.	
6620 F 6011	Togashira Shima.	34° 03.4' N 136° 15.9' E	Fl.W. period 4s	423 129	20	White round concrete structure;	F.W. about 480 meters 280° illuminates beacon 170 meters NW.
6624 F 6010.4	Kuki Ko Kutsu Saki.	34° 00.4' N 136° 15.7' E	Iso.W. period 6s	114 35	17	White round concrete tower; 28.	
6628 F 6009.2	Hobo Ko, breakwater.	33° 56.4' N 136° 12.3' E	Fl.G. period 3s	39 12	6	White round concrete structure; 33.	
6632 F 6009	Nikijima.	33° 55.7' N 136° 12.7' E	Iso.W. period 6s	148 45	17	White round concrete tower; 38.	
6636 F 6008.7	Yuki Ko, breakwater.	33° 55.3' N 136° 10.3' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 28.	
6640 F 6008.5	Ino Hana.	33° 53.0' N 136° 08.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	276 84	20	White octagonal concrete tower; 36.	
6644 F 6008	Kodomari Ko, breakwater, head.	33° 53.4' N 136° 07.7' E	F.Fl.R. period 6s	43 13	F. 6 Fl 12	Red round concrete tower; 31.	
6648 F 6009.6	Kajika Ko, N. breakwater.	33° 58.1' N 136° 13.1' E	Fl.R. period 4s	43 13	7	Red tower; 31.	
6652 F 6009.5	Kosugi Hana.	33° 58.3' N 136° 13.5' E	Fl.W. period 5s	98 30	16	White octagonal concrete tower; 32.	
6656 F 6009.54	Kata O Saki.	33° 58.0' N 136° 12.8' E	Iso.G. period 6s	49 15	12	White round concrete structure; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6660 F 6009.64	Hurue Ko.	33° 58.3' N 136° 12.6' E	Iso.R. period 6s	36 11	11 29.	Red round concrete structure;	
6664 F 6009.7	Kata Wan.	33° 58.9' N 136° 14.5' E	Fl.G. period 3s	26 8	6	Red concrete structure; 21.	
6668 F 6010	Miki Saki.	33° 58.2' N 136° 16.4' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	489 149	30	White round concrete tower; 46.	Visible 185°-055°.
6672 F 6010.2	Haita Entrance.	33° 59.6' N 136° 15.6' E	Oc.G. period 4s	151 46	12	White tower; 25.	
6676 F 6010.3	Haita Ko.	34° 59.6' N 136° 15.7' E	Fl.R. period 3s	39 12	7	Red tower; 31.	
6678 F 6007.5	Udono Ko, N. breakwater.	33° 44.0' N 136° 01.6' E	Fl.G. period 3s	52 16	8	White tower; 36.	
6680 F 6007.4	Udono Ko.	33° 43.9' N 136° 01.5' E	F.F.I.G. period 5s	43 13	F. Fl 5 12	White square metal framework tower; 28.	
6681 F 6007.35	Singū Ko, detached breakwater, N. head.	33° 40.4' N 135° 59.5' E	Fl.G. period 3s	46 14	8	White round concrete tower; 28.	
6682 F 6007.3	Singū Ko, detached breakwater, S. head.	33° 40.0' N 135° 59.4' E	Fl.(2)R. period 6s	52 16	9	Red tower; 33.	
6684 F 6007.2	Singū Ko, S. breakwater, head.	33° 40.0' N 135° 59.4' E	Iso.G. period 6s	43 13	12	White round concrete structure; 31.	
6688 F 6007	Ugui.	33° 38.8' N 135° 58.9' E	Fl.W. period 5s	174 53	19	White round concrete tower; 28.	
6692 F 6007.1	Ugui, entrance.	33° 38.9' N 135° 58.9' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 31.	
6696 F 6006.8	Obera Shima.	33° 38.1' N 135° 58.9' E	Fl.W. period 3s	62 19	5	White tower; 49.	
6700 F 6004	Oto Shima.	33° 37.0' N 135° 57.0' E	Fl.W. period 3s	52 16	13	White round concrete tower; 36.	
6704 F 6006	Ketano Hana, Naka Shima, E. side.	33° 37.0' N 135° 57.0' E	Iso.G. period 8s	39 12	11	White round concrete tower; 28.	
6708 F 6003	Katsuo Jima.	33° 36.2' N 135° 57.9' E	Fl.(2)W. period 7s	66 20	9	White round concrete structure; 49.	
6712 F 6003.4	Taizi Ko, N. breakwater.	33° 35.5' N 135° 57.0' E	F.F.I.R. period 6s	46 14	F. Fl 6 12	Red round concrete tower; 32.	Floodlight illuminates drying rock about 110 meters SSE.
6716 F 6002	Kantori Saki.	33° 34.7' N 135° 57.7' E	Fl.W. period 8s	135 41	18	White round concrete tower; 53.	F.W. illuminates Naminori Syo 630 meters SE.
6720 F 6001.5	Kusimoto Ko.	33° 34.0' N 135° 56.0' E	Iso.W.R. period 6s	184 56	17	White tower; 28.	R. 001°-031°, W.-001°. Red sector indicates sunken rocks and islets dangerous to navigation.
6724 F 6001	Urakami Ko Range, front.	33° 33.6' N 135° 54.5' E	F.G.	36 11	11	White round concrete tower, daymark; 33.	
6728 F 6001.1	-Rear, about 100 meters 259°18' from front.	33° 33.6' N 135° 54.4' E	F.G.	69 21	14	White round concrete tower, daymark; 66.	
6732 F 6000	Koza Kawaguchi.	33° 30.6' N 135° 49.9' E	Oc.R. period 8s	36 11	11	Red round concrete tower; 28.	
6736 F 5996.2	Kushimoto, S. breakwater.	33° 28.3' N 135° 47.3' E	Fl.G. period 3s	46 14	12	White tower; 33.	
6740 F 5996.05	-Kushimoto, 0.5 mile S.	33° 27.8' N 135° 47.3' E	Fl.(2)G. period 6s	39 12	8	White round concrete structure; 31.	
6742 F 5999	-O Shima Sue Ko, approach.	33° 27.1' N 135° 50.1' E	Fl.R. period 3s	36 11	6	Red tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6744 F 5997	Kii O Shima Ko S. Breakwater, about 1207 meters 224° from Kane Yama summit.	33° 28.1' N 135° 48.2' E	Oc.R. period 8s Lt. 6s, ec. 2s	39 12	11	Red round concrete tower; 31.	
6748 F 5996.4	Kusimoto Ko.	33° 27.8' N 135° 47.9' E	F.Fl.(2)R. period 6s	39 12	F. 6 Fl. 10	Red tower; 21.	F.W. spotlight illuminates rocks 46 meters WNW.
6750 F 5996.5	-Toziro Hana.	33° 27.6' N 135° 48.0' E	Fl.(2)R. period 6s	49 15	8	Red mast; 35.	
6752 F 5997.3	Tojima Saki, about 366 meters 30°15' from Kane Yama summit.	33° 29.0' N 135° 49.0' E	Fl.W. period 3s	36 11	11	White round concrete tower; 26.	
6756 F 5998	Kashino Saki.	33° 28.0' N 135° 52.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	154 47	18	White round stone tower; 49.	Visible 109°-033°.
6760 F 5997.6	Kashino Ko, breakwater, O Shima.	33° 28.2' N 135° 51.1' E	Iso.G. period 4s	39 12	6	White round structure; 22.	
6764 F 5995.8	Shirano Fishery Harbor, N. breakwater, head.	33° 27.1' N 135° 49.5' E	Iso.G. period 4s	28 9	10	White round concrete tower; 25.	
6768 F 5995	Uno Shima, NE.	33° 26.8' N 135° 48.2' E	Fl.(2)W. period 8s	69 21	9	White round concrete tower; 46.	
6772 F 5995.6	Myoga Sima.	33° 27.0' N 135° 48.0' E	Fl.W. period 3s	53 16	12	White round concrete structure; 46.	
6776 F 5994	Shiono Misaki.	33° 26.0' N 135° 45.4' E	Fl.W. period 15s	161 49	19	White round stone tower; 75.	Visible 278°-130°. Signal station.
RAMARK							
6780 F 5996	Kusimoto Ko, N. breakwater, head.	33° 28.0' N 135° 47.0' E	Fl.R. period 3s	42 13	12	Red round concrete structure; 31.	
6784 F 5997.2	-Kusimoto Ko, NE. breakwater, head.	33° 28.3' N 135° 48.4' E	F.Fl.G. period 5s	36 11	F. 5 Fl. 11	White round concrete structure; 28.	
6788 F 5991	Fukuro Ko Range No. "1", front.	33° 28.0' N 135° 47.0' E	F.G.	36 11	11	White round concrete tower, arrowhead topmark; 32.	
6792 F 5991.1	-Rear, about 30 meters 078°36' from front.	33° 27.9' N 135° 46.5' E	F.G.	52 16	12	White round concrete tower, arrowhead topmark; 39.	
6796 F 5992	-Range No. "2", front.	33° 29.0' N 135° 47.0' E	F.R.	29 9	8	White round concrete tower, arrowhead topmark; 31.	
6800 F 5992.1	--Rear, about 20 meters 017°06' from front.	33° 28.6' N 135° 46.5' E	F.R.	46 14	8	White round concrete tower, arrowhead topmark; 39.	
6802 F 5990	Arita Ko, breakwater, head.	33° 28.7' N 135° 44.3' E	Fl.R. period 3s	46 14	9	Red tower; 33.	
6804 F 5989	Esu Zaki.	33° 29.0' N 135° 36.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	108 33	16	White round concrete structure; 36.	
6808 F 5988	Susami Ko.	33° 32.4' N 135° 29.4' E	Fl.W. period 5s	190 58	20	White round concrete tower; 33.	
6812 F 5988.4	Susami Ko.	33° 33.0' N 135° 30.0' E	Dir.F.W.R.G.	82 25	15	White round concrete structure; 24.	W. 033°-036°50' (marks fairway with channel. centerline 035°), R. 027°30'-033°10' (starboard side of fairway), G. 036°50'-042°30' (Port side of fairway).
6816 F 5987	Hiki Ko.	33° 33.3' N 135° 26.9' E	Oc.R. period 8s	28 9	10	Red round concrete tower; 18.	
6820 F 5986	Itie Saki.	33° 35.1' N 135° 24.1' E	Fl.(2)W. period 30s	312 95	24	White round concrete tower; 36.	Visible 313°-145°.
6824 F 5984	Bansho Yama.	33° 41.4' N 135° 20.2' E	Oc.W. period 8s	122 37	17	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6828 F 5979	Siso Shima islet W. of Bansho Yama.	33° 41.4' N 135° 19.8' E	Fl.W. period 5s	46 14	12	White concrete structure; 40.	
6832 F 5978	Tanabe Oki-no-Shima.	33° 42.9' N 135° 19.7' E	Fl.W. period 3s	49 15	12	White tower; 49.	
6836 F 5977.7	Sima - Haya Wan.	33° 44.3' N 135° 20.2' E	Fl.G. period 3s	39 12	12	White tower; 28.	
TANABE KO:							
6840 F 5977.6	-Haya Ko, W. breakwater, head.	33° 44.2' N 135° 21.5' E	Iso.G. period 6s	36 11	11	White round concrete structure; 31.	
6844 F 5980	-Egawa, W. breakwater.	33° 43.4' N 135° 21.9' E	Iso.G. period 4s	46 14	12	White concrete structure; 32.	
6848 F 5980.9	-Minatoura, breakwater.	33° 42.9' N 135° 23.0' E	Iso.G. period 6s	39 12	12	White round concrete structure; 31.	
6850 F 5981.7	-Breakwater, S. head.	33° 42.7' N 135° 23.1' E	Fl.G. period 3s	29 9	6	White tower; 19.	
6852 F 5980.4	--E. breakwater.	33° 44.0' N 135° 22.0' E	Iso.R. period 4s	43 13	12	Red round concrete structure; 30.	
6858 F 5980.8	-Range, front.	33° 43.5' N 135° 22.6' E	F.Y.	46 14	12	White round tower, red bands, white triangular topmark; 34.	
6860 F 5980.61	--Rear, 183 meters 065°36' from front.	33° 43.6' N 135° 22.7' E	F.Y.	72 22	14	White round tower, red bands, white triangular topmark; 60.	
6864 F 5981	-Isoma Range, front.	33° 42.9' N 135° 23.0' E	F.Y.	26 8	10	White round tower, white triangular topmark; 22.	
6868 F 5981.1	--Rear, 060° from front.	33° 43.0' N 135° 23.2' E	F.Y.	39 12	11	White round tower, white triangular topmark; 35.	
6872 F 5981.6	-Mori, W. breakwater.	33° 42.7' N 135° 23.8' E	F.FI.G. period 6s	36 11	F. Fl	5 11	White round concrete tower; 28.
6876 F 5981.8	-Atonoura, breakwater.	33° 43.0' N 135° 24.0' E	Fl.R. period 3s	36 11	11	Red round concrete structure; 31.	
6880 F 5977.4	Inami Ko, E. breakwater.	33° 49.0' N 135° 13.0' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 31.	
6884 F 5977	Inami Ko Yokoshima, breakwater.	33° 48.0' N 135° 13.0' E	F.FI.R. period 6s	43 13	F. Fl	6 12	Red round concrete tower; 27.
6888 F 5974	Gobo Katuo Sima.	33° 51.2' N 135° 09.0' E	Fl.W. period 4s	59 18	9	White round concrete structure; 49.	
6892 F 5974.5	Gobo Ko, outer breakwater.	33° 52.0' N 135° 09.0' E	Fl.R. period 6s	69 21	7	Red round concrete structure; 46.	
6896 F 5975	Gobo Ko, Sioya Ko, S. breakwater, head.	33° 51.5' N 135° 09.6' E	Iso.R. period 4s	26 8	7	Red round concrete structure; 31.	

Section 5

Eastern Part of Seto Naikai

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
6900 F 5970	Hino Misaki.	33° 52.7' N 135° 03.8' E	Fl.(3)W. period 40s 3 fl. 15s, ec. 25s	460 140	29	White round concrete tower; 46.	Visible 273°-172°. Signal station. Storm signals shown about 0.5 mile NE.
RAMARK							
6904 F 5969.6	Ao Ko, N. breakwater, head.	33° 54.2' N 135° 04.8' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 32.	
6908 F 5969.7	-E. breakwater, head.	33° 54.2' N 135° 04.8' E	Iso.G. period 6s	42 13	12	White round concrete structure; 32.	
6912 F 5969.4	Naka Iso.	33° 54.7' N 135° 04.4' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 52.	
6918	Yura Ko.	33° 56.0' N 135° 04.0' E	Fl.(2)R. period 6s	56 17	8	Red tower; 35.	
6924 F 5969.2	Kii Yura Ko Range, front.	33° 56.3' N 135° 05.0' E	F.G.	131 40	5	Metal column, white triangular daymark; 39.	Private aid.
6928 F 5969.21	-Rear, 30 meters 097° from front.	33° 56.3' N 135° 05.1' E	F.G.	135 41	5	Metal column, white triangular daymark; 15.	Private aid.
6932 F 5969.08	Muronoki Hana.	33° 56.7' N 135° 05.5' E	Fl.R. period 3s	33 10	4	Red metal framework tower; 20.	
6936 F 5969.3	Kii Yura Ko Kasane Yama Range, front.	33° 57.3' N 135° 05.8' E	F.W.	226 69	5	Metal post, white triangular topmark; 25.	Private aid.
6940 F 5969.31	-Rear, 40 meters 041° from front.	33° 57.4' N 135° 05.8' E	F.W.	240 73	5	Metal post, white triangular topmark; 10.	Private aid.
6944 F 5968.6	Asika Sima.	33° 58.5' N 135° 03.7' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
6946 F 5968.5	Ena Ko.	33° 59.2' N 135° 06.6' E	Fl.(2)R. period 6s	29 9	7	Red tower; 20.	
6948 F 5968.3	Taka Sima.	34° 00.6' N 135° 07.7' E	Q.(6)+L.FI.W. period 15s	49 15	9	S. CARDINAL YB, beacon, topmark.	
6950 F 5968.4	Karao Ko.	34° 00.3' N 135° 08.7' E	Fl.R. period 5s	27 8	6	Red tower; 18.	
6952 F 5968	Yuasahiro Ko, jetty.	34° 01.6' N 135° 10.3' E	Oc.R. period 4s	43 13	12	Red round concrete tower; 32.	
6954 F 5967.9	-Tikko, breakwater.	34° 01.9' N 135° 10.2' E	F.FI.G. period 5s	42 13	F. 5 FI. 12	White tower; 28.	
6956 F 5967.84	-Suhara Ko, W. breakwater, head.	34° 02.3' N 135° 09.8' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 31.	
6958 F 5967.82	Oi Ko.	34° 04.0' N 135° 06.3' E	Fl.G. period 3s	46 14	5	White concrete tower; 31.	
6960 F 5967.8	Kii Myazakino Hana.	34° 04.2' N 135° 05.0' E	Oc.W. period 8s	265 81	20	White quadrangular concrete tower; 28.	
6964 F 5967.5	Arida Ku, breakwater, head.	34° 04.4' N 135° 05.4' E	Fl.G. period 4s	30 9	5	White tower; 18.	
6968 F 5967.4	Simoto Ko.	34° 06.8' N 135° 04.6' E	Fl.W. period 4s	308 94	7	White square concrete tower; 43.	
6972 F 5967.35	Arida Ku, sea berth.	34° 06.6' N 135° 06.8' E	Mo.(U)W. period 15s	89 27	14		Mo.(U)W. 15s marks N. and S. ends of berth.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
6976 F 5966.62	Huzi Kosan.	34° 07.8' N 135° 07.4' E	Mo.(U)W. period 10s	118 36	16		Mo.(U)W. 10s 11M auxiliary lights 240 meters NNE, and 220 meters S. Private aid. Horn: 1 bl. ev. 20s. Radar reflector.
OSAKI WAN:							
6980 F 5966.5	-Tubune Hana.	34° 07.6' N 135° 07.5' E	Iso.W. period 6s	95 29	15	White round concrete tower; 31.	F.W. auxiliary light illuminates shoal about 270 meters SSE.
6984 F 5967	-Simoto Ko Kamanosita, breakwater.	34° 06.9' N 135° 08.1' E	Oc.G. period 8s	39 12	11	White round concrete tower; 33.	
6988 F 5966.8	-Osaki Ura, breakwater.	34° 07.6' N 135° 08.1' E	Iso.R. period 4s	36 11	11	Red round concrete tower; 33.	
6992 F 5967.2	-Ushiga Kubi, breakwater.	34° 06.7' N 135° 08.6' E	Iso.R. period 4s	30 9	10	Red round concrete tower; 28.	
6996 F 5967.3	--W. breakwater, head.	34° 06.6' N 135° 08.4' E	Fl.R. period 3s	39 12	12	Red round concrete tower on square base; 31.	
KAINAN KU:							
7000 F 5966	-S. breakwater, head.	34° 08.5' N 135° 11.2' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 31.	
7004 F 5966.2	-N. breakwater, head.	34° 08.6' N 135° 11.1' E	Fl.G. period 3s	36 11	11	White round concrete tower; 33.	
WAKAYAMA KU:							
7008 F 5965.2	-Wakanoura Wan, W. breakwater.	34° 10.9' N 135° 09.9' E	F.FI.G. period 5s	43 13	F Fl	7 12	White round concrete tower; 32.
7012 F 5965.12	-Outer breakwater, E. head.	34° 10.9' N 135° 09.2' E	Fl.G. period 3s	33 10	3	White tower; 16.	
7016 F 5965.05	-Saigasaki Ko, breakwater.	34° 11.0' N 135° 08.9' E	Fl.(2)G. period 8s	43 13	12	White tower; 30.	
7018 F 5965	-Saika Saki.	34° 11.1' N 135° 08.6' E	Fl.W. period 8s	246 75	22	White round concrete tower; 25.	
7024 F 5962.4	-Minami Ku Auxiliary, breakwater, head.	34° 12.6' N 135° 08.1' E	Fl.R. period 3s	16 5	5	Red metal column; 10.	
7028 F 5963	-S. breakwater, head.	34° 12.9' N 135° 08.1' E	Fl.(2)R. period 7s	43 13	6	Red tower; 43.	
7032 F 5964	-N. breakwater, head.	34° 13.0' N 135° 07.7' E	Fl.(2)G. period 7s	52 16	9	White tower; 43.	
7034 F 5961.8	-Kita Ku, N. breakwater, head.	34° 14.1' N 135° 07.3' E	Iso.G. period 6s	56 17	13	White round concrete tower; 55.	
7036 F 5961.6	--W. breakwater, head.	34° 13.9' N 135° 07.3' E	Iso.R. period 6s	53 16	13	Red round concrete tower; 56.	
7040 F 5961	Takura Saki.	34° 15.7' N 135° 03.9' E	Iso.W. period 6s	161 49	19	White round concrete tower; 36.	F.W. close NNW. illuminates rock 300 meters NNW.
7044 F 5576	I Shima.	33° 50.5' N 134° 49.1' E	Fl.W. period 10s	472 144	29	White square concrete tower; 72.	
7048 F 5576.4	Isima Ko, W. breakwater.	33° 50.6' N 134° 48.5' E	F.FI.R. period 3s	46 14	F Fl	8 12	Red round concrete tower; 31.
7052 F 5577	Kamoda Misaki.	33° 49.8' N 134° 45.1' E	Fl.W. period 3s	157 48	17	White round concrete tower; 36.	F.W. illuminates Sirika Bae 1,200 meters SE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7056 F 5575.6	-Karimata Saki.	33° 50.5' N 134° 43.3' E	Oc.(2)W. period 8s lt. 2s, ec. 1s lt. 2s, ec. 3s	72 22	14	White round concrete tower; 31.	
7060 F 5575.4	-Tatibana Ko.	33° 52.6' N 134° 40.4' E	Iso.W. period 6s	125 38	5	White tower; 33.	
7064 F 5575	-Funai Iso.	33° 53.3' N 134° 42.5' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
7066 F 5572.5	Tomioka Ko.	33° 54.8' N 134° 42.3' E	Fl.G. period 5s	36 11	5	White tower; 18.	
7068 F 5574	Ao Sima.	33° 55.4' N 134° 43.2' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	190 58	17	White round concrete tower; 39.	
7072 F 5572	Tomioka Ko, Groin.	33° 55.3' N 134° 42.9' E	Fl.R. period 3s	39 12	9	Red round concrete tower; 28.	
7076 F 5571	Nakazima Ko, S. breakwater.	33° 57.1' N 134° 42.1' E	Iso.G. period 6s	39 12	11	White round concrete tower; 31.	
7078 F 5570.8	Awaimazu Ko, breakwater.	33° 58.1' N 134° 39.9' E	Fl.(2)G. period 6s	43 13	12	White concrete tower; 31.	
7080 F 5568	Wadano Hana, N. side of point.	34° 00.4' N 134° 38.3' E	Iso.W. period 6s	46 14	12	White square concrete tower; 36.	
7084 F 5555.4	Komatusima Ko, Offing, Wave Observation tower.	34° 02.2' N 134° 38.7' E	Mo.(U)W. period 8s	39 12	7	Metal framework tower.	Radar reflector.
7088 F 5555	Okame Se.	34° 02.1' N 134° 38.1' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 54.	
KOMATSUSHIMA KO:							
7092 F 5564	-S. breakwater.	34° 00.2' N 134° 36.0' E	Iso.G. period 6s	30 9	11	White round concrete tower; 28.	
7096 F 5565	-Detached breakwater, S. head.	34° 00.3' N 134° 36.1' E	Iso.R. period 6s	29 9	10	Red round concrete tower; 28.	
7100 F 5565.4	--N. head	34° 00.6' N 134° 36.1' E	Fl.G. period 4s	39 12	11	White tower; 43.	F.W. illuminates N. breakwater head.
7104 F 5561	Komatu Sima Ko.	34° 00.9' N 134° 35.9' E	Iso.W. period 8s	302 92	24	White round concrete tower; 39.	
7108 F 5562	-Taka Sone.	34° 00.9' N 134° 36.4' E	Mo.(A)R. period 8s	33 10	7	STARBOARD (B) R, beacon, topmark; 33.	
7112 F 5560	-Tuda, outer breakwater, E. head.	34° 02.6' N 134° 36.7' E	Fl.G. period 3s	43 13	11	White tower; 31.	
TOKUSHIMA KO:							
7116 F 5559	-Outer breakwater, S. head.	34° 02.1' N 134° 36.1' E	Fl.(3)R. period 12s	39 12	9	Red tower; 33.	
7118 F 5557	-Okinosu training wall, W. head.	34° 03.0' N 134° 35.8' E	Iso.R. period 4s	20 6	4	Red tower; 13.	
7120 F 5556	--E. head.	34° 03.0' N 134° 35.8' E	Fl.R. period 4s	36 11	3	Red tower; 31.	
7132 F 5554	Imagire Ko, N. training wall.	34° 06.0' N 134° 36.7' E	F.Fl.R. period 6s	36 11	F. 6 Fl. 11	Red tower; 28.	
7136 F 5553	Tokusima AVIATION LIGHT.	34° 07.8' N 134° 36.1' E	AI.FI.W.G. period 10s	89 27		Tower; 82.	
7140 F 5553.4	Awazu Ko, S. breakwater, head.	34° 08.3' N 134° 37.6' E	Iso.G. period 4s	43 13	12	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
	MUYANO SETO:						
7144 F 5551.8	-Oiso Saki.	34° 10.6' N 134° 38.6' E	Fl.(4)W. period 15s	125 38	17	White tower; 38.	
			F.W.			Same structure.	
7146	Muya Ko.	34° 10.9' N 134° 38.5' E	Mo.(B)G. period 8s	16 5	3	PORT (B) G, beacon, topmark; 18.	
7148 F 5552	Naka Se.	34° 10.7' N 134° 37.8' E	Mo.(A)R. period 8s	36 11	7	STARBOARD (B) R, beacon, topmark; 33.	
7152 F 5552.4	-Muye Ko Range, front.	34° 10.7' N 134° 37.6' E	F.G.	36 11	11	White round concrete tower, red bands; 32.	
7156 F 5552.41	--Rear, 50 meters 253.7° from front.	34° 10.2' N 134° 37.5' E	F.G.	62 19	13	White round concrete tower, red bands; 59.	
7158 F 5552.5	Muya Ko, pier.	34° 10.7' N 134° 37.6' E	Fl.G. period 3s	24 7	6	White tower; 19.	
7160 F 5552.6	-Seto Ko, Donoura, W. breakwater, head.	34° 12.9' N 134° 35.5' E	Fl.G. period 3s	33 10	11	White round concrete tower; 32.	
7162 F 5551.6	-Kameura Ko, breakwater, head.	34° 13.0' N 134° 37.9' E	Fl.G. period 3s	30 9	3		
	NARUTO KAIKO:						
7164 F 5551.75	-Tobi Shima.	34° 13.9' N 134° 38.9' E	Fl.W. period 3s	105 32	7	White tower; 75.	
7168 F 5551.5	-Mago Saki.	34° 14.2' N 134° 38.8' E	Fl.W. period 5s	167 51	19	White square concrete tower; 36.	
7172 F 5811.4	To Saki.	34° 14.3' N 134° 39.8' E	Fl.(2)W. period 8s	192 59	20	White square concrete tower; 36.	
7176 F 5812	Turusima Hana.	34° 14.3' N 134° 42.2' E	Fl.W. period 3s	85 26	15	White round concrete tower; 31.	
7180 F 5814	Hukura Ko, on NE. part of Kemuri Shima.	34° 14.7' N 134° 42.7' E	Fl.G. period 3s	30 9	8	White round concrete tower; 28.	
7182 F 5814.2	-Breakwater, head.	34° 13.6' N 134° 42.3' E	Mo.(U)W. period 8s	23 7	7		
7183 F 5814.25	Nikoro Ko.	34° 11.3' N 134° 44.9' E	Fl.G. period 3s	39 12	8	White concrete structure; 31.	
7184 F 5570	Nu Sima.	34° 09.9' N 134° 49.9' E	Fl.W. period 10s	437 133	28	White round concrete structure; 39.	
7188 F 5570.2	-Nusima Ko, W. breakwater, head.	34° 10.0' N 134° 49.2' E	F.FI.R. period 3s	36 11	F. 1 Fl 11	White tower; 28.	
7192 F 5570.5	-Tomari Ko, training wall, head.	34° 10.1' N 134° 49.3' E	Oc.R. period 8s lt. 6s, ec. 2s	46 14	12	Red tower; 32.	
7196 F 5814.3	Nada Ko, breakwater, head.	34° 11.7' N 134° 48.0' E	F.FI.G. period 3s	43 13	F. 5 Fl 12	White tower; 28.	
7200 F 5960	Tomoga Shima.	34° 16.7' N 135° 00.3' E	AI.FI.W.R. period 10s	197 60	20	White concrete tower; 39.	Visible 350°-232°. Reserve light range 16/13M.
7204 F 5959	Zino Sima, E. extremity.	34° 17.7' N 135° 03.7' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	180 55	14	White octagonal concrete tower; 31.	
7206 F 5960.5	Kada Ko, outer breakwater.	34° 16.6' N 135° 04.2' E	Iso.R. period 6s	42 13	12	Red tower; 34.	

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JAPAN-SETO NAIKAI-EASTERN PART (I)							
7208 F 5960.4	Kada Ko, S. breakwater.	34° 16.4' N 135° 04.4' E	Fl.R. period 3s	30 9	7	Red round concrete tower; 18.	
OSAKA WAN:							
7212 F 5958	-Fuke Ko, W. breakwater, head.	34° 19.0' N 135° 08.7' E	Iso.R. period 4s	39 12	12	Red round concrete tower; 33.	
7224 F 5958.2	-E. breakwater.	34° 19.3' N 135° 08.5' E	Iso.G. period 4s	42 13	12	White round concrete tower; 33.	
7228 F 5957.7	-Tannowa Ko, E. breakwater.	34° 20.1' N 135° 11.2' E	F.Fl.R. period 5s	43 13	F. Fl.	6	Red round concrete tower; 28.
7229 F 5957.8	-Simosyo Ko, breakwater.	34° 20.5' N 135° 12.7' E	Fl.(2)R. period 6s	23 7	3	White tower; 16.	
7230	-Ozaki Ko, outer breakwater.	34° 21.5' N 135° 14.1' E	Fl.Y. period 4s	15 5	3	Tower; 9.	
7230.1	--SW. head.	34° 21.4' N 135° 14.0' E	Fl.Y. period 4s	15 5	3	Tower; 9.	
7230.3 F 5957.69	--S. detached breakwater, off N. head.	34° 21.4' N 135° 14.0' E	Fl.Y. period 4s	13 4	3		
7230.5	--S. head.	34° 21.3' N 135° 13.9' E	Fl.Y. period 4s	13 4	3		
7230.6 F 5957.7	--Breakwater, N. Head.	34° 22.0' N 135° 14.6' E	Fl.R. period 3s	36 11	10	Red tower; 28.	
7231	-Tarui, N. breakwater.	34° 22.8' N 135° 15.8' E	Fl.R. period 3s	27 8	4	Red tower; 21.	
7231.1	--S. breakwater.	34° 22.7' N 135° 15.7' E	Fl.G. period 3s	27 8	4	White tower; 20.	
7232	-Sumoto Offing buoy.	34° 21.1' N 135° 00.6' E	Mo.(A)W. period 8s			SAFE WATER RW, buoy, topmark.	
	-RACON		OE(---*)		5		
7233 F 5957.61	-Okada, S. breakwater.	34° 23.5' N 135° 16.4' E	Fl.R. period 3s	21 6	4		
7233.5 F 5957.64	--N. breakwater.	34° 23.6' N 135° 16.5' E	Fl.G. period 3s	22 7	4		
7234 F 5957.5	Sano Gyoko, detached breakwater, head.	34° 25.2' N 135° 19.1' E	Fl.R. period 4s	16 5	4	STARBOARD (B) R, beacon, topmark; 12.	
7235 F 5957.52	Hannon Ko, outer breakwater.	34° 25.4' N 135° 18.6' E	Fl.(2)R. period 5s	43 13	5	Red tower; 28.	
7236 F 5957.4	Sano Gyoko.	34° 25.4' N 135° 18.9' E	Fl.G. period 4s	43 13	3	White tower; 28.	
7238 F 5957.65	Kanku, N.	34° 26.7' N 135° 15.5' E	Iso.R. period 4s	49 15	13	Red tower; 43.	Mo.(U)W. 8s 8M mark towers 0.45 mile ESE. and 2.7 miles SW.
7239 F 5957.6	-Entrance, S. side.	34° 26.6' N 135° 15.6' E	Iso.G. period 4s	39 12	11	White tower; 32.	
7240 F 5957.2	-Hannan Ko, offing, breakwater.	34° 26.1' N 135° 19.1' E	Fl.(2)R. period 7s	52 16	7	Red tower; 52.	
7242 F 5955.3	--N. breakwater, head.	34° 28.5' N 135° 20.3' E	Fl.R. period 3s	43 13	10	Red tower; 29.	
7244 F 5956.2	--Offing breakwater, SW. head.	34° 27.7' N 135° 21.2' E	Fl.(2)G. period 6s	43 13	5	White tower; 33.	
7248 F 5955.5	--Detached breakwater, S. head.	34° 28.1' N 135° 20.9' E	Fl.G. period 3s	49 15	11	White round concrete tower; 36.	

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JAPAN-SETO NAIKAI-EASTERN PART (I)							
7250 <i>F 5955.06</i>	--N., head.	34° 29.1' N 135° 21.5' E	Fl.R. period 4s	20 6	5	Red tower; 12.	
7252 <i>F 5956.4</i>	--Kaizuka, breakwater, head.	34° 27.8' N 135° 21.1' E	Fl.(2)R. period 6s	33 10	6	Red tower; 22.	
7256 <i>F 5956.25</i>	--Kishiwada, W. breakwater	34° 28.1' N 135° 21.9' E	Fl.R. period 3s	27 8	4	Red round tower; 18.	
7260 <i>F 5955</i>	--W. breakwater, N.	34° 29.5' N 135° 22.0' E	Fl.(3)R. period 13s	52 16	7	Red tower; 52.	
7264 <i>F 5955.04</i>	--S. head.	34° 28.9' N 135° 21.9' E	Fl.G. period 4s	43 13	6	White tower; 36.	
7268 <i>F 5955.2</i>	--E. breakwater, head.	34° 29.4' N 135° 22.2' E	Fl.(3)G. period 13s	36 11	6	White round concrete tower; 33.	
7271 <i>F 5954</i>	--Approach.	34° 29.5' N 135° 20.9' E	Mo.(U)W. period 8s	52 16	12		Reserve light range 7M.
	--RACON		K(- • -)		7		
7271.9 <i>F 5953.7</i>	-Senboku, new wharf, N. corner.	34° 32.0' N 135° 22.7' E	Fl.R. period 4s	26 8	6	Red tower; 12.	
7271.95 <i>F 5953.75</i>	--SW. corner.	34° 30.8' N 135° 22.2' E	Fl.Y. period 4s	26 8	6	Yellow mast; 12.	
7272 <i>F 5953.6</i>	--NE. corner.	34° 31.6' N 135° 23.0' E	Fl.R. period 3s	59 18	13	Red round concrete tower; 52.	
7280 <i>F 5953</i>	--E. breakwater, head.	34° 31.3' N 135° 23.4' E	Fl.G. period 5s	40 12	11	White tower; 28.	
7284 <i>F 5950</i>	-Sakai Hamadera, N. breakwater.	34° 33.3' N 135° 24.7' E	Iso.G. period 6s	59 18	13	White round concrete tower; 46.	
7288 <i>F 5951</i>	--S. breakwater.	34° 33.1' N 135° 24.7' E	Iso.R. period 6s	59 18	13	Red round concrete tower; 52.	
7289 <i>F 5952</i>	--W. breakwater.	34° 33.4' N 135° 26.6' E	Fl.R. period 3s	23 7	4	Red tower; 12.	
7289.1 <i>F 5952.1</i>	--E. breakwater.	34° 33.4' N 135° 26.6' E	Fl.G. period 3s	23 7	4	White tower; 12.	
7292 <i>F 5939.8</i>	-Detached breakwater, S. head.	34° 35.5' N 135° 24.0' E	Fl.G. period 4s	46 14	8	White round concrete tower; 32.	
7296 <i>F 5939.7</i>	--N. head.	34° 36.1' N 135° 23.5' E	Iso.R. period 4s	72 22	13	Red tower; 62.	
7304 <i>F 5940</i>	-S. harbor, N. breakwater.	34° 36.5' N 135° 24.2' E	Iso.G. period 4s	49 15	12	White tower; 39.	
7308 <i>F 5945</i>	-S. harbor offing, breakwater.	34° 36.5' N 135° 25.4' E	Fl.(2)G. period 6s	39 12	11	White tower; 31.	
7310 <i>F 5939.6</i>	-Tower.	34° 36.7' N 135° 22.7' E	Mo.(U)W. period 8s	36 11	5		
7312 <i>F 5939</i>	-S. harbor Gaiko, N. breakwater.	34° 37.5' N 135° 24.0' E	Fl.(2)G. period 7s	69 21	14	White round concrete tower; 62.	
7316 <i>F 5939.4</i>	--Gaiko, S. breakwater.	34° 37.5' N 135° 23.5' E	Fl.(2)R. period 7s	69 21	14	Red round concrete tower; 62.	
7332 <i>F 5906</i>	-N. harbor, N. head.	34° 40.4' N 135° 24.1' E	Fl.(3)R. period 12s	33 10	5	Red tower; 28.	
7336 <i>F 5907</i>	--Middle breakwater, N. head.	34° 40.3' N 135° 24.5' E	Fl.R. period 4s	39 12	9	Red metal framework tower; 29.	
7344 <i>F 5920</i>	-N. harbor entrance, breakwater, head.	34° 38.9' N 135° 25.0' E	F.Fl.G. period 5s	39 12	F 5 Fl 11	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7348 F 5932	-Radar Tower.	34° 38.4' N 135° 22.9' E	Fl.W. period 5s	171 52	19	White concrete tower; 164.	
7352 F 5928	-N. Bund Basin, detached breakwater.	34° 39.1' N 135° 25.8' E	Fl.R. period 6s	43 13	12	Red tower; 31.	
7356 F 5930	--Detached breakwater, S. head.	34° 39.0' N 135° 25.9' E	Fl.G. period 6s	43 13	12	White tower; 31.	
7384 F 5894	-W. breakwater, head.	34° 40.9' N 135° 22.8' E	Fl.G. period 5s	33 10	8	White tower; 25.	
7398 F 5899.5	-Nisinomiya, breakwater, N.	34° 42.0' N 135° 20.6' E	Fl.G. period 3s	36 11	8	White tower; 33.	
7400 F 5899	--SE. breakwater.	34° 40.1' N 135° 21.7' E	Fl.G. period 5s	52 16	12	White tower; 52.	
7402 F 5899.3	--Naruhama breakwater.	34° 41.0' N 135° 21.9' E	Fl.(2)G. period 6s	39 12	8	White tower; 31.	
7404 F 5886	Ozekisyuzo.	34° 43.0' N 135° 20.9' E	F.G.	25 8	10	Black quadrangular structure; 22.	
7408 F 5854	-Naka.	34° 40.6' N 135° 11.5' E	Al.Fl.R.G. period 10s	177 54	19	White tower; 16.	Private aid.
7414 F 5865	-Wave observation tower.	34° 38.9' N 135° 16.6' E	Mo.(U)W. period 10s	36 11	8		Radar reflector.
7416 F 5866	-Breakwater No. "6", E. head.	34° 40.0' N 135° 14.9' E	Fl.G. period 3s	59 18	13	White round concrete tower; 62.	
7420 F 5866.3	--S. head.	34° 39.6' N 135° 15.2' E	Oc.G. period 4s	62 19	13	White tower; 62.	
7424 F 5867	-Breakwater No. "7", SW. head.	34° 39.9' N 135° 15.4' E	Fl.R. period 3s	62 19	13	Red round concrete tower; 62.	
7428 F 5867.2	--NE. head.	34° 40.6' N 135° 17.7' E	Fl.G. period 3s	66 20	7	White tower; 65.	
7430 F 5899.2	-Nisinomiya, breakwater, W. head.	34° 40.5' N 135° 19.0' E	Fl.R. period 3s	52 16	13	Red tower; 56.	
7436 F 5870	-Breakwater No. "5", E. head.	34° 41.1' N 135° 14.4' E	Fl.G. period 5s	52 16	7	White round concrete tower; 52.	
7440	-Range, front.	34° 42.0' N 135° 14.6' E	F.G.	72 22	6		
7440.5	--Rear, 150 meters 358°00' from front.	34° 42.1' N 135° 14.6' E	F.G.	141 43	6		
7448 F 5872	No. "4" breakwater middle light.	34° 41.2' N 135° 13.6' E	Fl.R. period 3s	13 4	8	Red square concrete tower; 15.	
7452 F 5868	-Breakwater No. "3", E. head.	34° 40.7' N 135° 13.5' E	Fl.(2)G. period 7s	56 17	13	White tower; 62.	
7456 F 5862	-Breakwater No. "2", S. head.	34° 39.2' N 135° 12.4' E	Oc.R. period 8s lt. 6s, ec. 2s	59 18	13	Red round concrete tower; 62.	
7460 F 5861	-S. breakwater No. "1", S. head.	34° 38.9' N 135° 12.4' E	Iso.G. period 4s	59 18	13	White tower; 62.	
7464 F 5860	-Breakwater No. "1", E. head.	34° 39.1' N 135° 12.3' E	Oc.G. period 8s lt. 6s, ec. 2s	62 19	13	White round concrete tower; 62.	
7472 F 5857	-Wada, breakwater, head.	34° 39.2' N 135° 11.2' E	Iso.G. period 6s	39 12	12	White tower; 39.	
7472.5 F 5857.5	-No. "1" breakwater, W. head.	34° 39.2' N 135° 11.4' E	Iso.R. period 6s	43 13	11	Red tower; 36.	
7476 F 5852	-Kobe.	34° 38.9' N 135° 10.1' E	Fl.W. period 8s	85 26	15	White round concrete tower; 95.	Visible 263°-083°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7482 <i>F 5848</i>	-Minami Komaei, breakwater.	34° 38.8' N 135° 09.4' E	Fl.G. period 4s	46 14	6	White tower; 31.	
7488 <i>F 5844</i>	-Nagata, breakwater.	34° 38.7' N 135° 09.0' E	Iso.G. period 4s	39 12	6	White round tower; 35.	
7490	-E. oil terminal pier.	34° 38.4' N 135° 08.7' E	Mo.(U)W. period 8s	39 12	6		
7491 <i>F 5843.2</i>	-W. oil terminal pier.	34° 38.5' N 135° 08.5' E	Mo.(U)W. period 8s	23 7	7		
7492 <i>F 5843</i>	-Suma, offing, breakwater, E. head.	34° 38.4' N 135° 08.2' E	Fl.G. period 3s	33 10	5	White round concrete tower; 28.	
7494 <i>F 5843.1</i>	-Wakamiya, outer breakwater, head.	34° 38.2' N 135° 08.1' E	Fl.(2)G. period 6s	39 12	6	White tower; 22.	
7496 <i>F 5843.4</i>	-Outer Suma Recreation Ground Light.	34° 37.9' N 135° 06.4' E	Mo.(U)W. period 15s	62 19	13	Tower.	
7500 <i>F 5840</i>	Hira Iso.	34° 37.3' N 135° 03.9' E	Q.(6)+L.FI.W. period 15s	46 14	7	S. CARDINAL YB, beacon, topmark; 50.	
7504 <i>F 5838.6</i>	Tarumi Ko, S. breakwater, E. side.	34° 37.2' N 135° 03.5' E	Fl.G. period 3s	43 13	8	White round concrete tower; 39.	
7508 <i>F 5838.7</i>	-S. breakwater, W. side.	34° 37.3' N 135° 02.9' E	Fl.(2)R. period 6s	26 8	3	Red tower; 16.	
AWAJI SHIMA:							
7516 <i>F 5814.6</i>	-Oisino Hana.	34° 15.9' N 134° 57.2' E	Fl.W. period 5s	387 118	20	White round concrete tower; 33.	F. obstruction light illuminates reef close SE.
7520 <i>F 5815</i>	Takasaki.	34° 16.4' N 134° 57.6' E	Oc.W. period 4s	92 28	15	White round concrete tower; 33.	
7524 <i>F 5815.5</i>	Naruyama Shima.	34° 17.3' N 134° 57.7' E	Q.(3)W. period 10s	62 19	10	E. CARDINAL BYB, beacon, topmark; 56.	
AWAJI SHIMA:							
7528 <i>F 5816</i>	-Yura Ko, breakwater, head.	34° 17.9' N 134° 56.7' E	F.FI.G. period 6s	37 11	F. Fl	5	White tower; 28.
7536 <i>F 5818.4</i>	-Sumoto Ko, outer harbor, S. breakwater.	34° 20.6' N 134° 54.4' E	F.FI.(2)G. period 10s 2 fl. 3s, ec. 7s	42 13	F. Fl	5	White round concrete tower; 33.
7548 <i>F 5819.5</i>	--N. breakwater.	34° 21.0' N 134° 54.1' E	Fl.R. period 3s	42 13	12	Red tower; 33.	
7592 <i>F 5821</i>	--Takeno Kuti, N. breakwater, head.	34° 21.2' N 134° 53.7' E	Oc.R. period 4s	39 12	7	Red tower; 24.	
7596 <i>F 5822</i>	-Tuna Ko, Siota Kita, N. breakwater, head.	34° 24.6' N 134° 54.1' E	Fl.R. period 3s	21 6	3	Red tower; 16.	
7600 <i>F 5822.12</i>	--Sioto, S. breakwater, head.	34° 24.6' N 134° 54.2' E	F.FI.(3)G. period 13s	39 12	F. Fl	5	White round concrete tower; 28.
7604 <i>F 5822.16</i>	--Shizuki, S. breakwater, head.	34° 25.9' N 134° 55.0' E	Fl.(2)G. period 7s	33 10	11	White tower; 28.	
7610 <i>F 5822.22</i>	Tsuna Ko, breakwater.	34° 25.8' N 134° 55.1' E	Fl.(2)R. period 6s	36 11	6	Red concrete structure; 28.	
7612 <i>F 5822.3</i>	-Ikuho Gyoko Higasi, E. breakwater.	34° 26.6' N 134° 55.4' E	F.FI.R. period 7s	40 12	F. Fl	6	Red round concrete tower; 28.
7616 <i>F 5822.4</i>	-Sano Minami, S. breakwater.	34° 27.4' N 134° 56.4' E	Oc.G. period 4s	36 11	11	White round concrete tower; 28.	
7618 <i>F 5822.5</i>	Kamaguti Ko, breakwater.	34° 29.3' N 134° 58.0' E	Fl.G. period 5s	32 10	5	White concrete tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7620 <i>F 5822.6</i>	-Karia Ko, S. breakwater.	34° 30.7' N 134° 59.3' E	Iso.G. period 6s	39 12	11	White tower; 28.	
7624 <i>F 5822.8</i>	--E. breakwater.	34° 30.8' N 134° 59.7' E	Fl.G. period 3s	43 13	8	White round concrete tower; 28.	
7626 <i>F 5823</i>	-Kariya Ko, breakwater, N. head.	34° 31.3' N 134° 59.9' E	Fl.(2)G. period 6s	30 9	5	White tower; 18.	
7628 <i>F 5828</i>	-Ura Ko, S. breakwater.	34° 32.4' N 135° 00.0' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White round concrete tower; 26.	
7632 <i>F 5829</i>	--N. breakwater, N. head.	34° 32.4' N 134° 59.9' E	F.R.	24 7	10	Red wooden tower; 19.	
7640 <i>F 5834</i>	-Iwaya Ko, inner breakwater, E. head.	34° 35.3' N 135° 01.3' E	Fl.R. period 4s	42 13	12	Red tower; 31.	
7644 <i>F 5834.2</i>	--W. breakwater.	34° 35.5' N 135° 01.1' E	Fl.G. period 3s	39 12	8	White tower; 32.	
7648 <i>F 5796</i>	-E. Saki.	34° 36.4' N 134° 59.6' E	AI.W.R. period 10s	161 49	19	White tower; 26.	Visible 061°-079° and 098°-266°. Reserve light Q.W. 16M.
			F.R.				Visible 079°-098°.
7650 <i>F 5836</i>	Akashi Kaikyo Bridge, 2P, E.	34° 37.4' N 135° 01.6' E	F.Y.	39 12	9		Visible 165°-084°.
7650.5 <i>F 5836.2</i>	-W.	34° 37.5' N 135° 01.6' E	F.Y.	39 12	9		Visible 345°-264°.
7651 <i>F 5836.4</i>	-3P, E.	34° 36.6' N 135° 00.9' E	F.Y.	39 12	9		Visible 168°-081°.
7651.5 <i>F 5836.6</i>	--W.	34° 36.6' N 135° 00.9' E	F.Y.	39 12	9		Visible 348°-261°.
7651.6	-Center span of bridge.	34° 36.8' N 135° 01.4' E	F.W.	272 83	11		Visible 093°-159° and 273°-339°. F.R. 7M, F.G. 12M mark channel limits.
HIGASHI-HARIMA KO:							
7652 <i>F 5783</i>	-Agashi Gaiko, outer harbor, S. breakwater.	34° 38.3' N 134° 59.6' E	F.FI.R. period 5s	43 13	F. 6 Fl 12	Red tower; 29.	
7656 <i>F 5785</i>	--Outer Harbor, W. breakwater.	34° 38.5' N 134° 59.4' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White tower; 29.	
7660 <i>F 5784</i>	-Akasi Ko.	34° 38.3' N 134° 59.5' E	Iso.R. period 6s	36 11	11	Red tower; 29.	
7664 <i>F 5782.6</i>	-W. outer harbor, W. breakwater.	34° 38.2' N 134° 59.1' E	Iso.G. period 6s	39 12	11	White tower; 29.	
7666 <i>F 5782.8</i>	-W. breakwater.	34° 38.2' N 134° 59.2' E	Fl.(2)G. period 6s	43 13	8	White tower; 33.	
7668 <i>F 5782</i>	-W. breakwater.	34° 38.5' N 134° 58.1' E	F.FI.G. period 3s	39 12	F. 5 Fl 11	White round concrete tower; 28.	
7670	Akashi-Kaikyo, W. buoy.	34° 36.3' N 134° 56.9' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		(---•)			5	
7672 <i>F 5781</i>	Eigishima Ko, W. breakwater.	34° 40.2' N 134° 54.8' E	F.Fl.G. period 7s	43 13	F. 5 Fl 11	White round concrete tower; 32.	
HIGASI-HARIMA KO:							
7676	-Futami Ko.	34° 41.2' N 134° 53.3' E	Fl.G. period 3s	39 12	8	White tower; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7680 <i>F 5774.4</i>	--E. breakwater.	34° 41.6' N 134° 50.4' E	Iso.R. period 4s	56 17	13	Red round concrete tower; 52.	
7684 <i>F 5774</i>	-Kakokawa Behu, W. breakwater.	34° 41.7' N 134° 50.1' E	Iso.G. period 4s	56 17	13	White round concrete tower; 52.	
7688 <i>F 5776</i>	-Behu, W. breakwater, head.	34° 42.7' N 134° 50.9' E	Fl.W. period 4s	30 9	10	White round concrete tower; 28.	
7692 <i>F 5775</i>	--Directional light 022°20'.	34° 43.0' N 134° 50.9' E	Dir.F.W.R.G.	56 17	W. 11 R. 9 G. 9	White tower; 49.	R. 018°50'-021°20', W.-023°20', G.-025°50'.
7700 <i>F 5773</i>	-Behu Nisiko, W. breakwater, head.	34° 42.6' N 134° 48.5' E	Fl.(2)G. period 7s 2 fl. 3s, ec. 4s	36 11	8	White tower; 28.	
7704 <i>F 5772.5</i>	Takasago Ko, E. breakwater.	34° 43.6' N 134° 48.1' E	Oc.R. period 8s lt. 6s, ec. 2s	43 13	12	Red round concrete tower; 33.	
7708 <i>F 5772</i>	-W. breakwater	34° 43.6' N 134° 48.0' E	Oc.G. period 8s lt. 6s, ec. 2s	43 13	12	White round concrete tower; 33.	
7712 <i>F 5771.6</i>	--Nisiko, W. breakwater, head	34° 44.2' N 134° 47.3' E	Fl.G. period 4s	39 12	11	White tower; 33.	
7716 <i>F 5770</i>	-Ibo Ko, entrance, W. side.	34° 44.7' N 134° 46.0' E	Iso.G. period 6s	43 13	12	White round concrete tower; 28.	
7720 <i>F 5771</i>	--E. breakwater.	34° 45.0' N 134° 46.1' E	Fl.(3)R. period 13s	33 10	5	Red tower; 28.	
7724 <i>F 5769</i>	Yagi Ko, W. breakwater.	34° 46.1' N 134° 43.5' E	Iso.G. period 6s	36 11	11	White round concrete tower on square base; 28.	
7726 <i>F 5767</i>	Mega Gyoko, breakwater, head.	34° 46.2' N 134° 42.4' E	Iso.R. period 4s	43 13	12	Red tower; 32.	
HIMEJI KO:							
7728 <i>F 5766.3</i>	-Mega Ko, E. breakwater.	34° 45.5' N 134° 41.2' E	Fl.R. period 4s	65 20	7	Red round concrete tower; 62.	
7732 <i>F 5766</i>	-W. breakwater, head.	34° 46.0' N 134° 40.9' E	Fl.G. period 3s	56 17	3	White round concrete tower; 52.	
7736 <i>F 5766.5</i>	-W. breakwater, SE. head.	34° 45.4' N 134° 41.0' E	Fl.G. period 3s	65 20	4	White tower; 65.	
7740 <i>F 5764.6</i>	-Sikama Ko, E. breakwater.	34° 45.6' N 134° 39.3' E	Fl.(2)R. period 6s 2 fl. 2s, ec. 4s	49 15	10	Red round concrete tower; 46.	
SIKAMA KO:							
7744 <i>F 5764.8</i>	--W. breakwater, SE. head.	34° 45.7' N 134° 39.0' E	Fl.(2)G. period 6s	49 15	10	White round concrete tower; 46.	
7748 <i>F 5764</i>	--E. breakwater No. "2".	34° 46.2' N 134° 39.2' E	Oc.R. period 4s	43 13	7	Red round concrete tower; 33.	
7752 <i>F 5762</i>	Hirohata, E. breakwater.	34° 45.6' N 134° 37.9' E	Iso.R. period 4s	56 17	13	Red round metal tower; 56.	
7756 <i>F 5763.5</i>	-Range No. "2", front.	34° 47.1' N 134° 37.8' E	F.R.	98 30	7	White metal framework tower, white triangular daymark; 92.	
7760 <i>F 5763.6</i>	--Rear, 510 meters 000° from front	34° 47.4' N 134° 37.8' E	F.R.	154 47	7	White metal framework tower, white triangular daymark; 148.	
7764 <i>F 5761</i>	Abosi Ko.	34° 46.1' N 134° 36.4' E	Fl.G. period 4s	36 11	10	White round concrete tower; 28.	

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JAPAN-SETO NAIKAI-EASTERN PART (I)							
7768 F 5760	-W.	34° 45.7' N 134° 35.2' E	Fl.(2)G. period 5s	33 10	4	White tower; 24.	
7772 F 5759.7	Himezi Ko, E. breakwater.	34° 45.3' N 134° 34.4' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 31.	
7776 F 5759.6	-Naka, W. breakwater.	34° 45.2' N 134° 34.1' E	Iso.G. period 6s	42 13	12	White round concrete tower; 33.	
7780 F 5756.7	Iwami Ko.	34° 46.6' N 134° 31.8' E	F.FI.R. period 3s	39 12	F. FI	6 11	Red round concrete structure; 31.
7784 F 5756.8	Murotsu Ko, S.	34° 45.9' N 134° 30.3' E	Fl.R. period 3s	36 11	11	Red round concrete structure; 28.	
7788	Kazura Sima.	34° 44.7' N 134° 28.0' E	Fl.(3)W. period 13s	173 53	17	White round concrete tower; 42.	
7790 F 5763.3	Sakosi Ko.	34° 45.8' N 134° 27.4' E	Fl.G. period 3s	24 7	5	White tower; 18.	
7792 F 5756.6	Aioi Ko Range, front.	34° 47.3' N 134° 27.8' E	F.R.	308 94	5		
7796 F 5756.61	-Rear, 120 meters 350° 30' from front.	34° 47.3' N 134° 27.8' E	F.R.	348 106	5		
7800 F 5755.6	Ako Misaki.	34° 43.6' N 134° 24.7' E	Fl.W. period 10s	276 84	23	White octagonal concrete tower; 52.	
7804 F 5756	Ako.	34° 43.2' N 134° 24.6' E	Q.(6)+L.FI.W. period 15s	28 9	9	S. CARDINAL YB, beacon, topmark; 23.	
7806 F 5756.1	-Ako Ko, breakwater, W. head.	34° 43.9' N 134° 22.4' E	Fl.R. period 4s	28 9	6	Red tower, 18.	
7808 F 5756.2	-Range, front.	34° 44.7' N 134° 22.0' E	F.G.	67 20	13	Metal post, red and white band; 59.	
7812 F 5756.21	--Rear, about 575 meters 360° from front.	34° 44.8' N 134° 22.0' E	F.G.	89 27	13	Metal post, red and white band; 72.	
7816 F 5755.3	Unoisi Hana.	34° 42.0' N 134° 20.6' E	Fl.(3)W. period 14s 3 fl. 4s, ec. 10s	79 24	12	White round concrete tower; 28.	
7820 F 5755	Hinase Ko.	34° 43.3' N 134° 16.4' E	Fl.R. period 3s	39 12	9	Red tower; 28. .	
7822 F 5754.7	Otabu Ko.	34° 41.0' N 134° 18.0' E	Fl.G. period 3s	24 7	5	White tower; 20.	
7824 F 5754.5	Kasirazima Ko.	34° 41.8' N 134° 17.0' E	Oc.R. period 4s	23 7	7	Red tower; 18.	
7826 F 5754.85	Otabu Sima.	34° 40.6' N 134° 17.9' E	Iso.W. period 6s	102 31	16	White tower; 36.	
7828 F 5754	Takagono Syo.	34° 42.8' N 134° 13.2' E	Fl.(2)W. period 5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark.	
7832 F 5753.3	Musige Ko.	34° 40.8' N 134° 13.4' E	F.FI.G. period 4s	36 11	F. FI	5 11	White square structure; 31.
7836 F 5753	-No. "1" breakwater.	34° 40.8' N 134° 13.0' E	Iso.G. period 6s	36 11	11	White round concrete tower; 33.	
7840 F 5752.4	Kami-Ikada.	34° 38.0' N 134° 12.4' E	Mo.(A)G. period 8s	32 10	5	PORT (B) G, beacon, topmark.	
7844 F 5752.2	Ki Sima.	34° 35.6' N 134° 12.1' E	Fl.W. period 4s	56 17	13	White round concrete structure; 39.	
7848 F 5751.8	Usimado Ko.	34° 36.6' N 134° 10.6' E	F.FI.W. period 3s	43 13	8	White round concrete structure; 36.	
7852 F 5752	-Breakwater, E. head.	34° 36.7' N 134° 10.0' E	Fl.G. period 3s	39 12	5	White round concrete tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
HARIMA NADA, NORTH PASSAGE:							
7856 F 5751.6	-Yomogi Saki.	34° 35.8' N 134° 08.5' E	Fl.W. period 5s	32 10	11	White round tower; 27.	
7860 F 5768	Kami Sima.	34° 41.0' N 134° 43.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	197 60	20	White hexagonal metal framework structure; 39.	
7864 F 5758.4	Kurakake Sima.	34° 41.0' N 134° 38.4' E	Fl.(4)W. period 16s 4 fl. 8s, ec. 8s	220 67	17	Round concrete tower, red and white bands; 52.	
7868 F 5758	Tanga Sima.	34° 39.5' N 134° 35.0' E	Fl.W. period 6s	249 76	20	White tower; 39.	
7872 F 5757.8	Iesima Ko, E. breakwater, head.	34° 40.6' N 134° 32.3' E	Fl.G. period 3s	36 11	11	White round concrete structure; 31.	
7876 F 5757.9	-N. breakwater, E. head.	34° 41.0' N 134° 32.5' E	Fl.R. period 3s	28 8	6	Red tower; 18.	
7880 F 5757.6	Osaki Hana.	34° 40.9' N 134° 32.3' E	Iso.W. period 6s	230 70	20	White round concrete tower, square base; 28.	R. light marks head of breakwater close ESE.
7880.5 F 5757.41	-Breakwater, head.	34° 39.9' N 134° 31.4' E	Fl.(2)G. period 6s	28 9	6	White tower; 18.	
7882	Boze Shima, N. head.	34° 39.2' N 134° 31.2' E	Fl.G. period 3s	28 9	5	White tower; 18.	
7884 F 5757.4	Boze Ko, breakwater, head.	34° 39.2' N 134° 30.6' E	F.FI.G. period 4s	43 13	F. Fl	5 11	White round concrete structure; 31.
7885 F 5757.45	Boze Ko, W. breakwater.	34° 39.0' N 134° 30.7' E	Fl.R. period 3s	24 7	6	Red tower; 19.	
7886 F 5757.5	Boze Sima.	34° 38.7' N 134° 31.3' E	Fl.(2)G. period 7s	43 13	8	White tower; 30.	
7888 F 5757.3	Inge Sima.	34° 39.1' N 134° 26.1' E	Fl.(2)W. period 10s 2 fl. 3s, ec. 7s	240 73	7	White tower; 36.	
7892 F 5757	Matu Sima.	34° 35.4' N 134° 28.8' E	Fl.W. period 3s	167 51	19	White round concrete structure; 29.	
7896 F 5548	Okado Hana.	34° 25.8' N 134° 20.4' E	Iso.W. period 6s	209 64	21	White octagonal concrete tower on quadrangular base; 43.	Visible 209°-116°. Partially obscured by Funoko Shima.
7900 F 5547.8	Sanuki Tatibana Ko.	34° 29.2' N 134° 20.9' E	Fl.R. period 3s	33 10	7	Red tower; 19.	
7904 F 5547.55	Oiso.	34° 33.2' N 134° 23.3' E	Fl.(2)W. period 5s	49 15	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
7908 F 5547.6	Hukuda Ko, N. breakwater.	34° 32.5' N 134° 20.9' E	F.FI.R. period 5s	36 11	F. Fl	6 11	Red round concrete tower; 28.
7912 F 5547.5	Obe Ko, breakwater.	34° 32.7' N 134° 17.2' E	Oc.G. period 4s lt. 3s, ec. 1s	43 13	12	White round concrete structure; 31.	
7916 F 5547	Sanuki Tiburi Sima,	34° 31.6' N 134° 09.9' E	Fl.(2)W. period 7s	72 22	12	White round concrete tower; 28.	
7920 F 5547.4	SiKai Ko, breakwater No. "2".	34° 30.8' N 134° 10.0' E	Oc.G. period 4s lt. 3s, ec. 1s	36 11	11	White round concrete tower; 28.	
7922 F 5549.3	Tonosyo, breakwater.	34° 28.6' N 134° 11.7' E	Fl.G. period 5s	23 7	3	White tower; 16.	
7924 F 5549.2	Ikeda Ko, breakwater, head.	34° 28.5' N 134° 13.8' E	Iso.G. period 6s	36 11	11	White round concrete structure; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7928 F 5549	Zizo Saki.	34° 24.7' N 134° 14.3' E	Fl.(2)W. period 7s	220 67	21	White tower; 42.	Visible 259°-113°.
	RACON		Y(-•--)		9		Azimuth coverage 259°-114°.
7932 F 5548.2	Sakate Ko.	34° 27.2' N 134° 19.4' E	Oc.W. period 4s	25 8	10	White tower; 21.	
7936 F 5797	-Tosima Ko, N. breakwater.	34° 32.9' N 134° 56.1' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 31.	
7940 F 5798.4	-Asano Ko, N. breakwater.	34° 32.1' N 134° 54.7' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	
7944 F 5798.6	-Ikuha Ko, W. breakwater.	34° 31.9' N 134° 53.7' E	Fl.R. period 5s	39 12	3	Red tower; 28.	
7946 F 5798.8	Ikuha Ko.	34° 31.9' N 134° 53.6' E	Fl.R. period 3s	30 9	5	Red tower; 18.	
7948 F 5799	--Awazi Murotu Ko, W. breakwater.	34° 31.4' N 134° 52.8' E	F.Fl.R. period 7s	39 12	F. Fl.	6 11	Red round concrete tower; 28.
7952 F 5800	-Gunge Ko, W. breakwater, head.	34° 28.4' N 134° 50.8' E	F.Fl.R. period 3s	39 12	F. Fl.	6 11	Red round concrete structure; 28.
7956 F 5799.5	-Ozaki Ko.	34° 29.7' N 134° 51.6' E	Iso.R. period 4s	39 12	11	Red round concrete structure; 28.	
7960 F 5802	-Ei Ko, W. breakwater, head.	34° 28.0' N 134° 49.9' E	Iso.R. period 6s	33 10	7	Red round concrete tower; 22.	
7962 F 5803	-Harima Nada Light Buoy "4".	34° 30.1' N 134° 38.7' E	L.Fl.W. period 10s				SAFE WATER RW, pillar, topmark.
	-RACON		K(-•-)				
7964 F 5803	-Awazi Yamada Ko.	34° 26.8' N 134° 48.2' E	Oc.R. period 4s	28 9	7	Red tower; 19.	
JAPAN-SETO NAIKAI-EASTERN PART (II)							
7968 F 5804	-Tusi Ko, breakwater, head.	34° 24.9' N 134° 46.8' E	Fl.R. period 4s	43 13	12	Red tower; 32.	
7972 F 5806	-Torikai Ko, breakwater.	34° 22.2' N 134° 45.1' E	Iso.G. period 4s	39 12	11	White tower; 31.	
7976 F 5809.2	-Minato Ko, E. breakwater, head.	34° 19.8' N 134° 43.7' E	Fl.(2)G. period 7s	36 11	11	White tower; 31.	
7980 F 5809	--W. breakwater.	34° 19.8' N 134° 43.6' E	Fl.(2)R. period 7s	39 12	11	Red round concrete structure; 31.	
7984 F 5811	-Muruyama Ko, W. breakwater, head.	34° 17.3' N 134° 39.7' E	Iso.W. period 4s	36 11	11	White round concrete tower; 28.	
7986	Ibi Ko.	34° 15.3' N 134° 40.4' E	Fl.R. period 3s	24 7	3	Red tower; 16.	
7988 F 5551.3	Kameura Ko.	34° 13.8' N 134° 37.6' E	Fl.R. period 5s	39 12	9	Red tower; 32.	
7988.5 F 5551.6	-W. breakwater, head.	34° 14.1' N 134° 38.1' E	Fl.G. period 3s	28 8	3	White tower; 16.	
7994 F 5551	Kitadomari.	34° 14.2' N 134° 35.5' E	Fl.R. period 4s	36 11	11	Red tower; 28.	
7996 F 5550.9	Awata Ko, breakwater.	34° 13.3' N 134° 33.0' E	Fl.R. period 3s	46 14	12	Red tower; 33.	
8000 F 5550.85	Awa Oura.	34° 13.4' N 134° 31.6' E	Fl.(2)R. period 6s	33 10	6	Red tower; 21.	

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JAPAN-SETO NAIKAI-EASTERN PART (II)							
8004 <i>F 5550.8</i>	Orino Ko, breakwater.	34° 12.7' N 134° 28.9' E	Fl.G. period 3s	43 13	12	White round concrete structure; 28.	
8008 <i>F 5550.5</i>	Hiketa Hana.	34° 13.9' N 134° 24.8' E	Iso.W. period 6s	246 75	17	White round concrete tower; 26.	
8012 <i>F 5550.7</i>	Hiketa Ko.	34° 13.6' N 134° 24.7' E	F.Fl.G. period 5s	33 10	5	White round concrete tower; 28.	
8016 <i>F 5550.6</i>	-Breakwater.	34° 13.3' N 134° 24.8' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 28.	
8024 <i>F 5550.2</i>	Sanbonmatu Ko, W. breakwater.	34° 15.2' N 134° 20.7' E	Oc.R. period 4s	36 11	11	Red round concrete structure; 36.	
8028 <i>F 5550.3</i>	-Detached breakwater, NW. head.	34° 15.3' N 134° 20.8' E	Fl.G. period 3s	36 11	5	White round concrete structure on square base; 28.	
8030 <i>F 5549.7</i>	Wakimoto Ko.	34° 16.8' N 134° 16.8' E	Fl.R. period 3s	33 10	6	Red tower; 20.	
8031 <i>F 5550</i>	Tuda Ko, breakwater, head.	34° 17.6' N 134° 15.3' E	Iso.R. period 6s	36 11	11	Red concrete tower; 28.	
8031.5 <i>F 5549.95</i>	Tuda Wan, breakwater.	34° 19.1' N 134° 15.7' E	Fl.(2)R. period 6s	26 8	3	Red tower; 16.	
8032 <i>F 5549.6</i>	Umaga Hana.	34° 20.9' N 134° 15.2' E	Fl.W. period 10s	187 57	20	White quadrangular concrete tower; 36.	Visible 073°-309°.
8033 <i>F 5549.5</i>	Oda Wan, breakwater, head.	34° 20.1' N 134° 14.2' E	Fl.G. period 3s	23 7	3	White tower; 16.	
8034 <i>F 5549.55</i>	Oda Wan.	34° 22.2' N 134° 12.7' E	Mo.(A)R. period 8s	26 8	6	STARBOARD (B) R, beacon, topmark; 18.	
8036 <i>F 5751.4</i>	Inusima Siroisi.	34° 33.6' N 134° 07.0' E	Q.(3)W. period 10s	33 10	9	E. CARDINAL BYB, beacon, topmark.	
8038 <i>F 5751.5</i>	Asahi Ko.	34° 34.9' N 134° 06.3' E	Fl.R. period 5s	26 8	6	Red tower; 18.	
8040 <i>F 5748.6</i>	Kome Saki.	34° 34.4' N 134° 03.0' E	Iso.W. period 6s	82 25	15	White round concrete tower; 33.	
8044 <i>F 5750</i>	Bisyago Iwa.	34° 36.3' N 134° 02.5' E	Mo.(A)G. period 8s	33 10	5	PORT (B) G, beacon, topmark; 26.	
8048 <i>F 5749</i>	Saidaizi Ko.	34° 36.1' N 134° 02.0' E	Iso.R. period 6s	42 13	12	Red round concrete pillar; 31.	
8052 <i>F 5751</i>	Tubusi Syo.	34° 35.6' N 134° 01.0' E	Mo.(A)R. period 8s	36 11	7	STARBOARD (B) R, beacon, topmark.	
8056 <i>F 5751.2</i>	Okayama Ko, W. breakwater.	34° 35.6' N 133° 57.4' E	Iso.G. period 4s	33 10	11	White round concrete tower; 28.	
8058 <i>F 5748.5</i>	-Breakwater, W. head.	34° 29.2' N 134° 06.0' E	Fl.G. period 3s	28 9	5	White concrete structure; 18.	
8060 <i>F 5748.3</i>	Ieura Ko.	34° 29.3' N 134° 03.7' E	Fl.(2)G. period 6s	39 12	8	White tower; 28.	
8064 <i>F 5747.6</i>	Kurakake Hana,	34° 28.6' N 134° 01.4' E	Iso.W. period 6s	187 57	20	White round structure; 36.	
8070 <i>F 5748</i>	Ohirusima.	34° 30.5' N 134° 01.1' E	Fl.W. period 5s	115 35	12	White metal post on concrete base; 46.	
8072 <i>F 5741.7</i>	Desaki Uti.	34° 30.7' N 133° 58.2' E	Mo.(D)Y. period 8s	17 5	7	SPECIAL Y, beacon, topmark; 17.	
8074 <i>F 5747</i>	Kyonozyoro Sima.	34° 29.2' N 133° 59.2' E	Fl.W. period 4s	39 12	9	White round concrete structure; 21.	
8078 <i>F 5743</i>	Tera Sima.	34° 28.6' N 133° 58.5' E	Fl.W. period 3s	33 10	11	White tower; 30.	

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JAPAN-SETO NAIKAI-EASTERN PART (II)							
8082 F 5740	Uno Ko Tobi su.	34° 28.2' N 133° 57.0' E	Fl.W. period 3s	36 11	11	White tower; 30.	Visible 311°-219°.
8086 F 5739	Kazura Sima.	34° 27.9' N 133° 57.7' E	Fl.(2)W. period 6s	76 23	12	White round concrete tower; 36.	
8088	Honnura.	34° 27.6' N 134° 00.0' E	Fl.G. period 3s	26 8	5		
8088.5	Naoshima-ko.	34° 27.3' N 134° 00.2' E	Iso.G. period 4s	26 8	4		
8090 F 5744	Usinoko Syo.	34° 27.2' N 133° 58.4' E	Mo.(A)R. period 8s	36 11	9	STARBOARD (B) R, beacon, topmark; 36.	
8094 F 5746	Manaitaisi.	34° 26.7' N 133° 58.3' E	Mo.(A)G. period 8s	43 13	8	PORT (B) G, beacon, topmark; 36.	
8098 F 5738	Inumodori Hana.	34° 27.1' N 133° 56.8' E	Mo.(D)G. period 13s	39 12	11	PORT (B) G, beacon, topmark; 27.	
8102 F 5737.7	Hibi Ko, E. breakwater.	34° 27.0' N 133° 56.0' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 31.	
8106 F 5737.8	W. breakwater No. "3".	34° 27.1' N 133° 55.8' E	Fl.G. period 3s	39 12	11	White tower; 32.	
8110 F 5737.5	Kotoura Ko, E. breakwater.	34° 28.1' N 133° 50.3' E	Iso.R. period 6s	36 11	11	Red round concrete tower; 30.	
8114 F 5737	Kusumi Hana.	34° 25.5' N 133° 49.4' E	Mo.(A)G. period 11s	39 12	11	PORT (B) G, beacon, topmark; 36.	
8118 F 5735	Simotui Ko.	34° 26.1' N 133° 47.7' E	F.Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	32 10	F. Fl.	6	Red round concrete tower; 28.
8119 F 5549.9	Sirakata Ko, breakwater.	34° 20.5' N 134° 11.8' E	Iso.G. period 6s	27 8	6	White concrete tower; 19.	
8120 F 5546.8	Sido Ko, breakwater, E.	34° 19.3' N 134° 10.8' E	Iso.R. period 4s	36 11	11	Red round concrete structure; 29.	
8124 F 5546.5	Mure Ko, breakwater.	34° 20.6' N 134° 09.4' E	Oc.R. period 5s lt. 4s, ec. 1s	36 11	11	Red quadrangular concrete tower; 28.	
8128 F 5545.6	Inagi Sima.	34° 24.4' N 134° 08.5' E	Fl.W. period 3s	109 33	12	White round concrete structure; 39.	F.W. located 223°40' 2,240 meters from light illuminates Siraishi Suo about 280 meters W.
8132 F 5546	Kanawa Iwa.	34° 25.1' N 134° 08.0' E	Mo.(A)R. period 8s	46 14	9	STARBOARD (B) R, beacon, topmark; 38.	
8136 F 5545	Azi Ko, breakwater.	34° 23.0' N 134° 07.5' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 31.	
8144 F 5538	Ogi Sima.	34° 25.8' N 134° 03.8' E	Fl.W.R.G. period 10s	52 16	12	White round granite tower; 46.	G. 052°-073°, W.-081°, R.-092°, W.-280°.
8150 F 5538.7	-Ogi Gyoko.	34° 24.9' N 134° 03.6' E	Fl.R. period 3s	27 8	6	Red structure; 19.	
8152 F 5538.6	--Outer breakwater.	34° 25.1' N 134° 03.3' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	11	White round concrete structure; 32.	
8155 F 5539.25	Megi Sima, breakwater.	34° 23.3' N 134° 03.2' E	Fl.G. period 3s	23 7	6	White tower; 10.	
8156 F 5539.2	Megi Ko, breakwater.	34° 23.1' N 134° 03.2' E	Iso.R. period 4s	36 11	11	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
TAKAMATSU KO:							
8160 F 5539	-Megi Sima.	34° 22.6' N 134° 02.4' E	Iso.W. period 6s	151 46	18	White round concrete tower; 33.	
8164 F 5540.8	-Detached breakwater, NE. head.	34° 21.8' N 134° 03.8' E	Oc.R. period 8s	52 16	12	Red round concrete structure; 46.	
8168 F 5540.9	--SW.	34° 21.5' N 134° 03.5' E	Iso.G. period 6s	42 13	12	Red round concrete structure; 36.	
8172 F 5541	-Asahimachi, breakwater, head.	34° 21.5' N 134° 03.7' E	Oc.(2)R. period 6s	39 12	11	Red round concrete structure; 31.	
8176 F 5541.6	-Breakwater, N. head.	34° 21.5' N 134° 03.3' E	Iso.R. period 6s	56 17	13	Red tower; 46.	
8181 F 5732.17	-Aosa Hana, breakwater.	34° 27.7' N 133° 33.7' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
8188 F 5542.12	-E. breakwater.	34° 21.2' N 134° 03.5' E	Fl.G. period 3s	39 12	11	White round concrete structure; 31.	
8196 F 5540.6	-Breakwater No. "8".	34° 21.0' N 134° 02.2' E	Oc.R. period 4s	36 11	11	Red round concrete structure; 32.	
8204 F 5540	Turuuti Ko, E. breakwater.	34° 21.4' N 134° 01.1' E	Oc.G. period 4s lt. 3s, ec. 1s	36 11	11	White tower; 31.	
8205 F 5539.6	-Kagawaken.	34° 21.4' N 134° 00.2' E	Fl.R. period 3s	26 8	6	Red tower; 11.	
8206 F 5539.5	-Kozai Ko, breakwater, head.	34° 21.2' N 134° 00.2' E	Oc.R. period 5s lt. 4s, ec. 1s	36 11	11	Red round concrete tower; 30.	
8208 F 5536	Kozuti Sima.	34° 23.6' N 133° 55.5' E	Iso.W. period 6s	49 15	12	White round concrete structure; 42.	
8212 F 5535	Kosei Sima.	34° 22.2' N 133° 51.3' E	Fl.W. period 3s	89 27	15	White round concrete structure; 39.	
8216 F 5533	Nabe Sima.	34° 22.7' N 133° 49.6' E	Al.R.G. period 16s	95 29	R. 15 G. 11	White round granite tower; 32.	Visible 191°-091°.
8220 F 5534	Yosima Ko, breakwater No. "3".	34° 22.8' N 133° 49.6' E	Iso.G. period 6s	39 12	11	White round concrete tower; 29.	
8228 F 5507	Honsima Ko, W. breakwater.	34° 22.7' N 133° 47.3' E	F.Fl.G. period 5s	36 11	F. 5 Fl. 11	White round concrete structure; 29.	
8232 F 5506	Usi Sima.	34° 21.8' N 133° 46.9' E	Mo.(D)R. period 10s	46 14	12	STARBOARD (B) R, topmark.	Visible 048°-301°.
8236 F 5504.5	Eonoura Ko.	34° 21.4' N 133° 43.3' E	Iso.G. period 6s	39 12	11	White round concrete tower, square base; 31.	
8240 F 5504	Habusi Iwa.	34° 20.5' N 133° 42.9' E	Fl.(2)W. period 5s	49 15	12	ISOLATED DANGER BRB, topmark.	
RACON				OE(--- •)			
8244 F 5503.5	Takami Ko.	34° 18.3' N 133° 41.1' E	F.Fl.G. period 4s	39 12	F. 5 Fl. 11	White round concrete structure.	
8248 F 5503	Itamoti Hana.	34° 19.3' N 133° 40.0' E	Oc.W. period 4s	36 11	11	White round concrete structure; 27.	
8252 F 5502	Hutaomote Sima	34° 17.9' N 133° 37.5' E	Fl.W. period 3s	98 30	16	White round concrete structure; 33.	
8256 F 5734	Mukuti Sima.	34° 25.7' N 133° 45.8' E	Q.W.	43 13	12	N. CARDINAL BY, beacon, topmark; 35.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8260 <i>F 5505</i>	Aoki Ko, breakwater No. "1".	34° 21.8' N 133° 41.4' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	11	Red tower; 28.	
8264 <i>F 5502.5</i>	Sanagi Ko, N. breakwater, S. head.	34° 20.8' N 133° 37.6' E	F.FI.R. period 4s	39 12	F. 6 Fl 11	Red round concrete structure; 28.	
8268 <i>F 5502.7</i>	-S. breakwater, N. head.	34° 19.9' N 133° 38.0' E	Oc.G. period 4s	30 9	6	White tower; 18.	
8272 <i>F 5733</i>	Mizusima Ko, breakwater.	34° 27.9' N 133° 44.2' E	Iso.G. period 4s	42 13	12	White round concrete structure; 33.	
8274 <i>F 5732.2</i>	Otosima Ko, breakwater	34° 31.2' N 133° 41.6' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 30.	
8276 <i>F 5732.7</i>	-Hachiman, breakwater, S. head.	34° 30.6' N 133° 40.1' E	FI.G. period 4s	30 9	5	White square metal framework; 24.	
8280 <i>F 5732.3</i>	-Tamasima, outer breakwater.	34° 29.6' N 133° 40.0' E	FI.G. period 3s	39 12	11	White round concrete tower.	
8282 <i>F 5732.18</i>	-Sami Ko.	34° 29.9' N 133° 38.6' E	FI.R. period 3s	28 9	6	Red concrete structure; 18.	
8283	Yorisima Ko.	34° 29.3' N 133° 35.7' E	FI.(2)R. period 6s	26 8	6	Red tower; 19.	
8284 <i>F 5732.15</i>	Manabesima Ko.	34° 21.2' N 133° 34.9' E	F.FI.R. period 6s	42 13	F. 6 Fl 12	Red round concrete, structure; 31.	
8288 <i>F 5732.04</i>	Kitagisima Ko.	34° 22.5' N 133° 33.1' E	Iso.R. period 6s	42 13	12	Red round concrete tower; 31.	
8292 <i>F 5732.08</i>	Toyoura Ko, breakwater, head.	34° 23.6' N 133° 32.3' E	Oc.R. period 4s	30 9	7	Red tower; 19.	
8294 <i>F 5732.11</i>	Kanahuro Ko, breakwater.	34° 23.3' N 133° 31.9' E	FI.G. period 3s	30 9	5	White concrete structure; 18.	
8296 <i>F 5732.02</i>	Siraesisima Ko.	34° 24.5' N 133° 31.3' E	F.FI.R. period 5s	40 12	F. 6 Fl 11	Red round concrete structure on square base; 28.	
8300 <i>F 5732</i>	Okinosiraisi.	34° 24.8' N 133° 31.0' E	FI.W. period 3s fl. 1s, ec. 2s	49 15	12	White round concrete tower; 46.	
8304 <i>F 5731.9</i>	Hyakken Zowai.	34° 25.1' N 133° 29.9' E	Mo.(A)G. period 8s	43 13	8	PORT (B) G, beacon, topmark; 33.	
8306 <i>F 5731.85</i>	Bittyu Takasima Ko.	34° 25.7' N 133° 30.4' E	Iso.G. period 6s	26 8	6	White tower; 19.	
8308 <i>F 5731.8</i>	Konosimasoto Ko.	34° 26.8' N 133° 30.7' E	F.FI.(2)G. period 6s 2 fl. 2s, ec. 4s	39 12	F. 5 Fl 11	White round concrete tower; 31.	
8310 <i>F 5507.5</i>	Awa Sina, breakwater, S. head.	34° 16.4' N 133° 39.5' E	FI.R. period 6s	23 7	6	Red tower; 18.	
8312 <i>F 5731.7</i>	Kata Sima.	34° 28.8' N 133° 31.1' E	Mo.(A)G. period 9s	26 8	5	Black round concrete tower; 32.	
8316 <i>F 5731.4</i>	Kasaoka Ko, E.	34° 29.9' N 133° 30.4' E	Iso.R. period 6s	33 10	11	Red round concrete tower; 29.	
8320 <i>F 5524</i>	Sakaide Ko, W. breakwater, head.	34° 19.6' N 133° 51.2' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	11	Red round concrete structure; 28.	
8324 <i>F 5525</i>	-Mitubisikasei Sakaide Range, front.	34° 20.9' N 133° 50.8' E	F.G.	112 34	16	White metal framework structure; 105.	
8328 <i>F 5525.1</i>	--Rear, 700 meters 181°18' from front.	34° 20.5' N 133° 50.8' E	F.G.	184 56	17	White metal framework structure; 174.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8332 F 5530	-Sea berth.	34° 21.5' N 133° 50.4' E	Mo.(U)W. period 14s	115 35	16		Mo.(U)W. 8s 12m 9M Siren 200 meters NE. and 230 meters SW. Private light. Radar reflector.
8336 F 5527	Utazu Kitaura, breakwater, head.	34° 19.3' N 133° 49.5' E	Oc.G. period 4s lt. 3s, ec. 1s	43 13	12	White round concrete structure; 31.	
8340 F 5520.8	Marugame Ko, breakwater, head.	34° 18.4' N 133° 47.1' E	Iso.R. period 4s	39 12	11	Red round concrete structure; 28.	
8344 F 5518	Syowamati, breakwater, head.	34° 18.1' N 133° 46.3' E	Oc.(2)R. period 6s	39 12	11	Red round concrete structure; 31.	
8348 F 5515	Tadotu Ko.	34° 16.4' N 133° 44.7' E	Iso.G. period 6s	33 10	11	White round concrete tower; 29.	
8352 F 5514	-Inner harbor, W. breakwater, N. head.	34° 16.4' N 133° 44.6' E	Fl.R. period 3s	43 13	7	Red tower; 31.	
8356 F 5512	-Outer breakwater, head.	34° 16.8' N 133° 44.3' E	Oc.R. period 4s	36 11	11	Red round concrete structure; 26.	
8364 F 5509	Mitawa Iwa.	34° 14.7' N 133° 40.5' E	Mo.(A)R. period 8s	33 10	9	STARBOARD (B) R, topmark.	
8368 F 5508	-Suda.	34° 13.9' N 133° 39.4' E	Fl.R. period 3s	30 9	6	Red tower; 18.	
8372 F 5501	Hako Saki.	34° 15.4' N 133° 35.6' E	Fl.W. period 3s	82 25	15	White round concrete tower; 26.	
8376 F 5499	Sanuka Misaki.	34° 15.7' N 133° 33.5' E	Iso.W. period 8s	226 69	17	White tower; 36.	
8380 F 5500	Mu Sima.	34° 17.8' N 133° 32.2' E	Iso.W. period 6s	230 70	22	White tower; 43.	Visible 204°-099°.
RACON				(- - - - -)		15	
8380.5 F 5499.9	-Breakwater, head.	34° 18.5' N 133° 32.2' E	Fl.G. period 3s	31 9	3	White tower; 16.	Azimuth coverage 022°-290°.
8384 F 5482	Taki kami Sima.	34° 11.5' N 133° 16.2' E	Al.Fl.(2+1)W.R. period 20s	443 135	28	White tower; 39.	Visible 034°-279°.
RACON				(- - - - -)		15	
8386 F 5500.5	Obi Shima, breakwater.	34° 20.4' N 133° 30.6' E	Fl.G. period 3s	29 9	5	White concrete structure; 18.	Azimuth coverage 207°-105°.
8388 F 5731	Hasiri Ko, W.	34° 20.8' N 133° 26.1' E	F.FI.(2)R. period 9s 2 fl. 3s, ec. 6s	39 12	F Fl	6 11	Red round concrete tower; 28.
8388.5 F 5731.2	-N. side.	34° 20.6' N 133° 26.9' E	Fl.(2)G. period 6s	29 9	3	White tower; 16.	
8392 F 5730	Kono Isi.	34° 21.8' N 133° 25.8' E	Fl.(2)W. period 5s	46 14	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
8396 F 5729.8	Nihonokan Hukuyama Ko Range, Front.	34° 28.5' N 133° 27.0' E	F.R.	72 22	7	White structure; 69.	
8400 F 5729.81	-Rear, 300 meters 000° 30' from front.	34° 28.6' N 133° 27.0' E	F.R.	125 38	7	White metal pole; 118.	
HUKUYAMA KO:							
8404 F 5729.7	-Range, front.	34° 27.3' N 133° 24.6' E	F.R.	46 14	7	Red metal post, triangular topmark; 49.	
8408 F 5729.71	-Rear, about 130 meters 300° from front.	34° 27.4' N 133° 24.5' E	F.R.	56 17	7	White metal post, triangular topmark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8410 F 5729.5	-Light beacon.	33° 22.6' N 133° 23.4' E	Mo.(A)R. period 8s	32 10	4	STARBOARD (B) R, beacon, topmark; 25.	
8412 F 5729.4	Tomo Ko, detached breakwater, E. head.	34° 22.5' N 133° 23.1' E	Fl.G. period 3s	39 12	8	White tower; 28.	
8416 F 5729.6	-Tamatsu Sima, breakwater, head.	34° 22.3' N 133° 23.1' E	Iso.G. period 6s	39 12	11	White round concrete structure, quadrangular base; 28.	
8420 F 5729	Abura Syo.	34° 21.7' N 133° 21.8' E	Fl.(2)W. period 5s	26 8	9	ISOLATED DANGER BRB, beacon, topmark; 31.	
8424 F 5728.5	Abuto Saki.	34° 21.8' N 133° 21.0' E	Iso.W. period 6s	289 88	17	White round concrete tower; 30.	
8428 F 5728.7	Hakosaki Ko, breakwater.	34° 21.3' N 133° 20.5' E	Fl.R. period 3s	46 14	9	Red concrete structure; 28.	
BINGO NADA:							
8436 F 5727	-Ono Zowai.	34° 22.4' N 133° 18.4' E	Mo.(D)R. period 8s	33 10	7	STARBOARD (B) R, beacon, topmark; 33.	
8440 F 5726	-Kurikuwa Zowai.	34° 22.7' N 133° 17.7' E	Mo.(D)G. period 8s	31 9	5	PORT (B) G, beacon, topmark; 22.	
8444 F 5725	-Katabira Zowai.	34° 22.1' N 133° 17.2' E	Fl.(2)W. period 5s	31 9	9	ISOLATED DANGER BRB, beacon, topmark; 39.	
8448 F 5725.4	Yokota Ko, breakwater.	34° 20.8' N 133° 17.5' E	Oc.R. period 4s	46 14	12	White round concrete tower; 33.	
8450 F 5724.9	Ebi Ko, breakwater.	34° 23.4' N 133° 15.8' E	Fl.G. period 3s	30 9	5	White concrete structure; 18.	
8450.5 F 5723.7	Breakwater, head.	34° 24.0' N 133° 14.8' E	Fl.G. period 5s	29 9	6	White tower; 18.	
8452 F 5722	Onomiti.	34° 23.9' N 133° 11.9' E	Fl.W. period 4s	108 33	16	White round concrete tower; 36.	
8456 F 5723	Usino Ura.	34° 23.5' N 133° 10.8' E	Iso.W. period 6s	92 28	15	White round concrete tower; 36.	
8458 F 5723.4	Itozaki Ko.	34° 23.5' N 133° 10.1' E	Iso.G. period 6s	26 8	6	White tower; 19.	
8460 F 5728	Hyakkan Sima.	34° 17.8' N 133° 16.7' E	Fl.W. period 10s	246 75	22	White round stone tower; 30.	
8464 F 5724.4	Hosaki, breakwater, head.	34° 17.8' N 133° 11.9' E	Iso.G. period 6s	43 13	12	White round concrete structure; 31.	
8468 F 5724	Ohama Saki.	34° 21.3' N 133° 10.6' E	Iso.W.R. period 6s	59 18	13	White round stone tower; 30.	W. 120°-125°, R.-130°, W.-312°.
8472 F 5720	Tyodayu.	34° 22.2' N 133° 08.5' E	Q.W.	28 9	9	N. CARDINAL BY, beacon, topmark; 36.	
8474 F 5723.3	Hoso Sima.	34° 21.6' N 133° 08.3' E	Fl.(2)G. period 6s	28 8	6	White tower; 18.	
8476 F 5719	Hakan Sima.	34° 21.4' N 133° 07.7' E	Q.(9)W. period 15s	33 10	9	W. CARDINAL YBY, beacon, topmark; 26.	
8478 F 5719.5	Sheigei Ko.	34° 20.3' N 133° 08.4' E	Fl.R. period 3s	26 8	6	Red tower; 20.	
8479	Sagi Ko, breakwater.	34° 21.3' N 133° 07.3' E	Fl.G. period 3s	26 8	5	White round tower; 18.	
8480 F 5718	Sagi Sima.	34° 21.4' N 133° 07.2' E	Oc.W. period 8s	89 27	15	White round concrete tower; 23.	
8484 F 5717.4	-Ko Sagi, SE part of Island.	34° 21.5' N 133° 06.5' E	F.W.	62 19		Round concrete structure; 34.	Illuminates beacon about 130 meters E.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8488 F 5716	Kosagi Sima,	34° 21.7' N 133° 06.1' E	Fl.W. period 4s	79 24	14	White round stone tower; 21.	Visible 020°-236°.
8490 F 5715.5	Sunami Ko, breakwater.	34° 21.4' N 133° 05.3' E	Fl.R. period 3s	27 8	6	Red concrete tower; 19.	
8492 F 5715	Toramaru Syo.	34° 20.3' N 133° 05.9' E	Mo.(A)R. period 8s	33 10	7	STARBOARD (B) R, beacon, topmark; 19.	
8496 F 5714	Kone Sima.	34° 19.8' N 133° 04.8' E	Iso.W. period 8s	148 45	17	White round stone tower; 14.	Visible 053°-279°.
8500 F 5713	Tadanoumi Ko.	34° 20.0' N 132° 59.8' E	Iso.R. period 4s	30 9	11	Red round concrete tower; 22.	
8504 F 5712	Okuno Sima.	34° 18.0' N 132° 59.8' E	Iso.W.R. period 6s	69 21	13	White round stone tower; 28.	W. 231°-035°, R.-056°, W.-100°, obscured elsewhere.
8508 F 5704	Mebaru Saki.	34° 16.4' N 132° 56.6' E	F.W.R.	180 55	15	White round concrete tower; 15.	W. 204°-246°, R.-275°, W.-013°, obscured elsewhere.
8512 F 5706	-Breakwater, head.	34° 16.6' N 132° 56.5' E	Fl.G. period 3s	49 15	3	White tower; 36.	
8516 F 5703	Kinoe Ko, breakwater.	34° 13.9' N 132° 55.2' E	Fl.R. period 3s	28 9	6	Red tower; 26.	
8520 F 5702	Nakano Hana,	34° 12.7' N 132° 55.4' E	Fl.(3)W.R. period 13s	148 45	18	White round stone tower; 17.	W. 170°-205°, R.-215°, W.-051°.
8524 F 5700	Oge Sima.	34° 11.3' N 132° 55.1' E	Fl.W. period 5s	115 35	14	White octagonal stone tower; 31.	Visible 356°-186°.
8526 F 5721	Onomiti Itozaki Ko, detached breakwater, S. head.	34° 22.9' N 133° 06.9' E	Fl.G. period 5s	43 13	8	White tower; 31.	
8528 F 5710.8	Inokuti Ko.	34° 15.8' N 133° 02.8' E	Fl.R. period 4s	31 9	6	Red tower; 18.	
8536 F 5711.2	Okogi Ko, breakwater, head.	34° 16.5' N 133° 08.8' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 29.	
8540 F 5711.4	Mitoko Iso.	34° 15.3' N 133° 07.8' E	Mo.(A)R. period 8s	31 9	7	STARBOARD (B) R, beacon, topmark; 26.	
8542 F 5475.7	Tayudo Saki, breakwater.	34° 14.3' N 133° 05.9' E	Fl.G. period 4s	26 8	3	White tower; 16.	
8544 F 5711.5	Iwagi Ko, breakwater, head.	34° 14.5' N 133° 09.0' E	Fl.G. period 3s	31 9	5	White round metal structure; 18.	
8548 F 5711.6	Iwagi.	34° 14.5' N 133° 09.2' E	Mo.(A)G. period 9s	31 9	11	PORT (B) G, beacon, topmark; 23.	
8550 F 5711.8	Nagae Ko, breakwater.	34° 16.2' N 133° 09.7' E	Oc.R. period 4s	29 9	7	Red concrete structure; 18.	
8552 F 5724.2	Habu Ko, breakwater.	34° 17.4' N 133° 10.5' E	Iso.G. period 4s	39 12	11	White round concrete structure; 32.	
8556 F 5724.8	Ikina Ko, breakwater, S. head.	34° 15.7' N 133° 11.4' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	5	White tower; 18.	
8560 F 5724.6	Yuge Ko.	34° 15.3' N 133° 12.2' E	Fl.G. period 3s	39 12	11	White tower; 28.	
8564 F 5476	Hakata Ko, E. breakwater, head.	34° 12.1' N 133° 07.5' E	Oc.G. period 4s	36 11	11	White round metal structure; 29.	
8566	-Detached breakwater, N. head.	34° 12.1' N 133° 08.0' E	Fl.(2)G. period 6s	32 10	5	White tower; 22.	
8568 F 5477	Muttu Se.	34° 11.5' N 133° 07.9' E	Q.(3)W. period 10s	36 11	11	E. CARDINAL BYB, beacon, topmark; 39.	
8572 F 5478	Hunaore Iwa.	34° 11.6' N 133° 05.6' E	Mo.(A)R. period 8s	39 12	7	STARBOARD (B) R, beacon, topmark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8576 F 5479	Niwatori Ko Sima.	34° 11.3' N 133° 05.0' E	Fl.W. period 4s	49 15	9	White round concrete tower; 19.	
8577 F 5477.5	Miyakubo Ko, breakwater.	34° 10.1' N 133° 05.1' E	Fl.G. period 3s	32 10	5	White tower; 22.	
8578 F 5481.5	Hanaguri Seto, breakwater, head.	34° 13.0' N 133° 04.0' E	Iso.R. period 6s	25 8	7	Red tower; 19.	
8580 F 5481	Simo Komaru Kosima.	34° 12.9' N 133° 03.6' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	69 21	14	White round concrete structure; 28.	
8582 F 5479.5	Edagosi Ko.	34° 12.1' N 133° 04.5' E	Fl.G. period 3s	30 9	5	White tower; 18.	
8583	Hayakawa Ko.	34° 11.5' N 133° 02.6' E	Fl.(2)R. period 6s	28 9	6	Red round tower; 19.	
8584 F 5480	Kayatomari Hana.	34° 11.6' N 133° 01.8' E	Fl.W. period 4s	102 31	11	White tower; 26.	
8588 F 5480.4	Watamaki Iso.	34° 09.4' N 133° 01.9' E	Fl.(2)W. period 5s	28 9	9	ISOLATED DANGER BRB, beacon, topmark; 29.	
8592 F 5498	Namari Ko, middle breakwater.	34° 14.8' N 133° 34.7' E	F.Fl.G. period 6s	43 13	F. 5 Fl 12	White tower; 29.	
8596 F 5497.6	Nio Ko, breakwater, head.	34° 12.0' N 133° 38.2' E	Fl.W. period 4s	39 12	11	White tower; 27.	
8600 F 5497	Muromoto Ko,	34° 09.2' N 133° 38.7' E	Fl.(2)G. period 6s	39 12	11	White round concrete tower; 29.	
KAN ONZI KO:							
8604 F 5492	-Breakwater, head.	34° 07.4' N 133° 38.2' E	F.G.	27 8	10	White round concrete structure; 22.	
8608 F 5494	-N. breakwater, head.	34° 07.3' N 133° 38.0' E	Iso.G. period 6s	31 9	6	White tower; 19.	
8612 F 5495	-S. breakwater, head.	34° 07.2' N 133° 38.1' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 30.	
8616 F 5496	-Ichimonjii, breakwater, S. head.	34° 07.2' N 133° 37.9' E	Fl.G. period 4s	36 11	8	White tower; 30.	
8620 F 5484	Ibuki Ko, breakwater.	34° 07.8' N 133° 32.3' E	Fl.R. period 4s	43 13	12	Red round concrete structure; 28.	
8624 F 5483	Aka Saki.	34° 07.3' N 133° 32.1' E	Fl.W. period 3s	43 13	12	White round concrete tower; 36.	
8628 F 5482.5	Uo Sima, E. breakwater, head.	34° 10.6' N 133° 19.4' E	Fl.G. period 3s	43 13	5	White tower; 29.	
8632 F 5482.6	-Sinozuka Ko, W. breakwater, head.	34° 10.7' N 133° 19.4' E	Fl.R. period 3s	28 9	5	Red tower; 19.	
8636 F 5490	Sanuki Toyohama Ko, W. breakwater.	34° 04.6' N 133° 38.1' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	11	Red round concrete tower; 26.	
8640 F 5487	Kawanoe Ko,breakwater No. "4", head.	34° 01.2' N 133° 34.5' E	Fl.G. period 3s	43 13	12	White round concrete structure; 32.	
8644 F 5488	-W. breakwater, head.	34° 01.3' N 133° 34.4' E	Fl.R. period 4s	43 13	12	Red round structure on square concrete base; 39.	
8645 F 5488.5	-Outer breakwater, NE. head.	34° 01.5' N 133° 34.4' E	Fl.(2)R. period 5s	43 13	9	Red tower; 28.	
8647 F 5484.6	Mishima, outer breakwater, N. head.	34° 00.0' N 133° 32.2' E	Fl.(2)R. period 6s	39 12	9	Red concrete structure; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8648 F 5486	-W. breakwater, head.	33° 59.7' N 133° 32.7' E	Iso.R. period 6s	49 15	12 43.	Red round concrete structure;	
8652 F 5485	-W. inner breakwater, head.	33° 59.4' N 133° 32.8' E	Fl.R. period 3s	36 11	11 33.	Red round concrete structure;	
8653 F 5484.4	-Sangawa Ko.	33° 58.2' N 133° 31.0' E	Fl.R. period 4s	36 11	6	Red tower; 19.	
8654 F 5475.5	-Oshima Gyoko, breakwater, S. head.	33° 59.3' N 133° 22.2' E	Fl.R. period 5s	31 9	6	Red tower; 18.	
NIIHAMA KO:							
8656 F 5472	-E. breakwater, head.	33° 58.6' N 133° 16.1' E	Iso.G. period 6s	43 13	12	White hexagonal metal framework structure; 36.	
8660 F 5473	-W. breakwater, head.	33° 58.6' N 133° 15.9' E	Iso.R. period 6s	43 13	12	Red hexagonal iron framework structure; 36.	
8664 F 5474.2	-W. basin, E. breakwater, head.	33° 57.6' N 133° 15.5' E	F.G.	36 11	4	White hexagonal metal framework structure; 12.	
8668 F 5474	-W. basin, W. breakwater, head.	33° 57.6' N 133° 15.5' E	F.R.	23 7	4	Red hexagonal metal framework structure; 12.	
8672 F 5471	-Hunagami Iwa.	33° 58.2' N 133° 14.4' E	Fl.(2)W. period 5s	33 10	9	ISOLATED DANGER BRB, beacon, topmark; 26.	
8676 F 5470.7	Saizjo Ko Range, front.	33° 55.6' N 133° 10.7' E	F.R.	23 7	8	White round concrete tower, conical topmark; 22.	
8680 F 5470.71	-Rear, about 100 meters 155° from front.	33° 55.5' N 133° 10.7' E	F.R.	33 10	8	White round concrete tower, conical topmark; 32.	
8682 F 5474.8	Matsunoki, breakwater.	33° 58.9' N 133° 17.6' E	Fl.G. period 4s	33 10	5	White concrete tower; 18.	
8684 F 5475	Habu Saki.	33° 59.4' N 133° 19.5' E	Fl.(3)W. period 13s	174 53	19	White round concrete structure; 36.	
8686 F 5475.7	Takihama Ku.	33° 59.3' N 133° 20.3' E	Fl.(2)G. period 7s	39 12	F. 5 Fl 11	White tower; 28.	
8686.5 F 5475.2	-W. breakwater.	33° 59.4' N 133° 20.2' E	Iso.R. period 4s	39 12	11	Red tower; 28.	
8687 F 5470.6	Nyugama Ko, E. breakwater, W. head.	33° 57.1' N 133° 06.9' E	Fl.(3)G. period 12s	43 13	8	White tower; 28.	
8688 F 5470.5	Nyugawa Ko, W. breakwater, head.	33° 57.2' N 133° 06.8' E	Iso.R. period 6s	39 12	12	Red round concrete structure; 31.	
8692 F 5470	Higi Sima.	34° 03.3' N 133° 06.0' E	Fl.W. period 3s	233 71	12	White round concrete structure; 46.	
8696 F 5470.3	Hiuti Nada.	34° 06.1' N 133° 06.5' E	Fl.(2)W. period 5s	49 15	12	ISOLATED DANGER BRB, beacon, topmark; 52.	

Section 6

Western Part of Seto Naikai and Shikoku Including Kii Suido and Bungo Suido

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8700 F 5467	Imabari Ko, E. breakwater, head.	34° 04.3' N 133° 00.5' E	Iso.G. period 6s	59 18	13	White round concrete structure; 59.	
8704 F 5468	-N. breakwater, head.	34° 04.3' N 133° 00.3' E	Fl.(2)G. period 6s	32 10	5	White round concrete tower; 18.	
8708 F 5458.5	-Breakwater, head.	34° 03.7' N 133° 01.4' E	Fl.G. period 4s	52 16	13	White round concrete structure; 46.	
8712 F 5464	Ryuzin Sima.	34° 06.1' N 133° 01.8' E	Fl.W. period 3s	52 16	12	White round concrete tower; 30.	
8716 F 5456	Hinai Hana Range, front.	34° 07.5' N 133° 01.1' E	Oc.W. period 5s lt. 4s, ec. 1s	128 39	17	White round concrete tower; 24.	
8720 F 5456.1	-Rear, about 55 meters 122° from front.	34° 07.5' N 133° 01.1' E	Oc.W. period 5s lt. 4s, ec. 1s	151 46	17	White round concrete tower; 31.	
8724 F 5462	Kuru Sima.	34° 06.2' N 132° 59.2' E	Mo.(A)R. period 8s	46 14	7	STARBOARD (B) R, beacon, topmark; 33.	
8728 F 5463	Ama Se.	34° 06.5' N 132° 59.0' E	Mo.(A)R. period 8s	32 10	7	STARBOARD (B) R, beacon, topmark; 33.	
8732 F 5460	Uzu Hana.	34° 06.6' N 132° 59.6' E	Fl.(2)W. period 6s	102 31	16	White round concrete structure; 46.	
8736 F 5497.7	Koura Saki.	34° 06.9' N 132° 59.5' E	Oc.W. period 4s	86 26	15	White round concrete tower; 28.	
8740 F 5461	Nagase Hana.	34° 06.9' N 132° 59.0' E	Iso.W. period 6s	115 35	16	White quadrangular concrete structure; 26.	
8744 F 5458	O Sima.	34° 07.5' N 132° 59.2' E	Mo.(C)R. period 13s	56 17	13	STARBOARD (B) R, beacon, topmark; 43.	
8746 F 5700.5	Ago No Hana, Oge Shima, S. point.	34° 10.7' N 132° 56.1' E	Iso.W. period 6s	56 17	13	White tower; 49.	Visible 237°-100°.
8748 F 5459.3	Nakano Iso.	34° 07.1' N 132° 58.5' E	Mo.(A)G. period 8s	36 11	8	PORT (B) G, beacon, topmark; 26.	
Namikata Ko:							
8752 F 5459.4	-Hiro Se.	34° 07.3' N 132° 57.6' E	Fl.(2)W. period 5s	33 10	11	ISOLATED DANGER BRB, beacon, topmark; 26.	
8756 F 5459.44	-E. breakwater.	34° 07.2' N 132° 57.6' E	Fl.G. period 3s	36 11	11	White round concrete structure; 28.	
8760 F 5454	Ikada Iso,	34° 08.5' N 132° 56.2' E	Mo.(D)R. period 8s	43 13	9	STARBOARD (B) R, beacon, topmark; 36.	
8764 F 5452	Nisiura Oki.	34° 07.9' N 132° 56.3' E	Mo.(A)R. period 8s	33 10	7	STARBOARD (B) R, beacon, topmark; 31.	
8768 F 5451	Kazitora Hana Sea Berth.	34° 07.1' N 132° 54.6' E	Mo.(U)W. period 15s	108 33	14		Mo.(U)W. 15s 10m 10M on piers 650 meters E. and 665 meters W.
8772 F 5450	Kuru Sima.	34° 07.1' N 132° 53.5' E	Fl.(2)W. period 7s	207 63	13	White tower; 36.	
8774	Kurushima Kaikyo Buoy No. "7".	34° 05.7' N 133° 02.3' E	Fl.(2)G. period 6s			PORT (B) G, pillar, topmark.	
RACON		OE(--- •)		5			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8776 F 5652	Nokutuna Sima.	33° 57.8' N 132° 42.0' E	Iso.W. period 6s	43 13	12 21.	White round concrete structure;	
8778 F 5652.5	-Breakwater.	33° 58.5' N 132° 41.2' E	Fl.G. period 3s	30 9	6	White tower; 19.	
8780 F 5651.8	Ho Saki.	33° 56.9' N 132° 40.7' E	Mo.(A)G. period 8s	39 12	8	PORT (B) G, beacon, topmark; 29.	
8784 F 5653	Iyo Nakasima Ko, S. breakwater, head.	33° 58.2' N 132° 38.2' E	Iso.G. period 6s	39 12	11	White round concrete structure on square base; 26.	
8788 F 5448	Kikuma Sea berth.	34° 03.0' N 132° 51.4' E	Mo.(U)R. period 14s	95 29	14	Sea berth terminal.	Auxiliary lights Mo.(U)R. located 150 meters NE and 170 meters SW of main light.
8790 F 5446	Kikuma Ko, breakwater, head.	34° 02.1' N 132° 50.4' E	Fl.(2)R. period 6s	36 11	11 31.	Red round concrete structure;	
8792 F 5447	Siode Iso.	34° 00.7' N 132° 47.6' E	Mo.(A)R. period 8s	49 15	9	STARBOARD (B) R, beacon, topmark; 39.	
8796 F 5444	Hazumano Hana.	33° 59.8' N 132° 46.2' E	Oc.W. period 8s	203 62	20	White round concrete tower; 33.	
8800 F 5442	Hozyo Ko, N. jetty, head.	33° 58.4' N 132° 46.4' E	Fl.(3)G. period 7s 3 fl. 3s, ec. 4s	39 12	11	White round concrete tower; 32.	
8804 F 5441	-Ka Sima, breakwater.	33° 58.4' N 132° 46.1' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 32.	
8806 F 5439.8	Yanagihara Ko, breakwater.	33° 57.3' N 132° 46.3' E	Iso.G. period 6s	31 9	6	White concrete structure; 20.	
8808 F 5439.4	Horie Ko, breakwater, W.	33° 54.3' N 132° 45.1' E	Iso.G. period 4s	39 12	11	White round concrete structure, quadrangular concrete base; 31.	
8810 F 5439	Horie Ko, breakwater, W.	33° 54.3' N 132° 45.0' E	Fl.G. period 4s	36 11	8	White round concrete structure; 28.	
8812 F 5437	Tumuri Saki.	33° 55.4' N 132° 42.3' E	Fl.(2)W. period 6s	154 47	17	White round concrete structure; 36.	
8816 F 5710	Takehara Ko, breakwater, head.	34° 19.5' N 132° 55.0' E	Oc.G. period 4s lt. 3s, ec. 1s	36 11	11	White round structure; 28.	
8820 F 5708	Sakaridani, breakwater.	34° 16.2' N 132° 55.1' E	Iso.G. period 6s	39 12	11	White round concrete structure; 32.	
8822 F 5709	Onisi Ko.	34° 14.8' N 132° 52.7' E	Fl.G. period 3s	30 9	5	White concrete tower; 19.	
8824 F 5710.6	Ikari Sima.	34° 17.8' N 132° 52.7' E	Mo.(A)G. period 8s	36 11	8	PORT (B) G, beacon, topmark; 26.	
8828 F 5698.4	Tukuga Sima.	34° 15.4' N 132° 50.3' E	Mo.(A)R. period 8s	33 10	9	STARBOARD (B) R, beacon, topmark; 27.	
8830 F 5699.4	Akitu Ko, E. harbor, breakwater.	34° 18.7' N 132° 49.7' E	Fl.(2)G. period 6s	30 9	5	White concrete structure; 18.	
8832 F 5699	Akitu Ko, breakwater.	34° 18.7' N 132° 49.3' E	F.FI.G. period 5s	36 11	F FI 5 11	White round concrete tower; 28.	
8834 F 5697.9	Mituguti Wan Bridge.	34° 16.4' N 132° 47.6' E	Iso.R. period 4s	75 23	4		
			Iso.G. period 4s	66 20	4		F.Y. mark extremity of bridge.
8836 F 5698	Simoikari Iso.	34° 15.1' N 132° 47.4' E	Fl.(2)W. period 5s	31 9	9	ISOLATED DANGER BRB, beacon, topmark; 24.	
8840 F 5697.5	Kinoe Sea berth.	34° 12.4' N 132° 51.3' E	Mo.(U)R. period 15s	46 14	12		Mo.(U)R. 15s 6M marks end of pier.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8844 F 5697.6	Okiura Ko, breakwater, head.	34° 12.1' N 132° 52.7' E	Iso.G. period 4s	43 13	12	White round concrete structure; 31.	
8846 F 5697.7	Okamura Ko, breakwater.	34° 10.8' N 132° 53.3' E	Oc.G. period 4s	32 10	6	White concrete structure; 18.	
8848 F 5697	Mitarai Ko, breakwater, head.	34° 10.5' N 132° 52.3' E	Iso.G. period 6s	43 13	12	White round concrete structure; 36.	
8852 F 5697.1	-Otyo, breakwater.	34° 10.8' N 132° 51.9' E	F.FIG. period 4s	39 12	F. Fl 11	White round metal structure; 32.	
8856 F 5697.2	O Sima, Mitarai approach.	34° 11.5' N 132° 51.5' E	FI.W. period 3s	36 11	9	White round concrete structure on quadrangular concrete base; 29.	
8860 F 5697.4	Kubi Ura, breakwater, W. head.	34° 11.0' N 132° 49.9' E	FI.G. period 4s	39 12	8	White round metal structure; 28.	
8864 F 5696.4	Toyosima Ko, No. "1" breakwater.	34° 10.5' N 132° 48.0' E	Oc.G. period 4s	46 14	9	White tower; 33.	F.R., F.G. and F.Y. lights mark bridge 0.5 mile S.
8868 F 5695.8	Kamagarin Sima.	34° 11.4' N 132° 45.9' E	FI.W. period 4s	31 9	11	White quadrangular concrete structure; 26.	
8872 F 5695.7	Kamagari Ko, E. breakwater.	34° 11.6' N 132° 44.3' E	Oc.G. period 6s lt. 4s, ec. 2s	42 13	12	White round concrete structure; 31.	
8876 F 5695.6	-Tado, breakwater.	34° 11.7' N 132° 43.5' E	F.FIG. period 5s	33 10	F. Fl 11	White round metal structure; 29.	
8880 F 5697.8	Kawaziri Ko, breakwater, head.	34° 13.8' N 132° 42.1' E	FI.R. period 3s	29 9	7	Red tower; 18.	
8884 F 5695.4	Meneko Sima.	34° 12.3' N 132° 41.0' E	FI.W. period 3s	39 12	9	White round concrete tower; 32.	
8886 F 5695.5	Kamagari Ko, N. breakwater.	34° 11.5' N 132° 41.0' E	FI.(2)R. period 6s	23 7	3	Red tower; 16.	
8888 F 5695	Kasane Iwa.	34° 12.3' N 132° 39.8' E	FI.W. period 4s	26 8	10	White cylindrical concrete structure; 16.	
8890	Hayase Ohasi, bridge.	34° 10.9' N 132° 41.2' E	2 F.W.	79 24	7		F.G., F.R., F.Y. mark bridge.
8892 F 5696	Kamo Se.	34° 08.5' N 132° 45.6' E	FI.W. period 4s	69 21	9	White square concrete tower; 21.	
8896 F 5445	Ai Sima.	34° 04.0' N 132° 42.8' E	Oc.W. period 4s	213 65	20	White round concrete structure; 36.	
8900 F 5651.3	Uta Saki.	34° 00.9' N 132° 38.9' E	FI.W. period 4s	45 14	12	White round concrete structure; 39.	
8902 F 5651.2	Nisinaka Ko, breakwater.	33° 58.9' N 132° 36.4' E	Iso.R. period 6s	32 10	7	Red concrete structure; 22.	
8904 F 5654	Mitu Isi.	34° 01.5' N 132° 33.4' E	FI.W. period 3s	52 16	12	White round structure; 32.	
8908 F 5656	Aki Sengai.	34° 04.1' N 132° 34.0' E	Q.(3)W. period 10s	33 10	9	E. CARDINAL BYB, beacon, topmark; 36.	
8912 F 5655	Kurahasi Ko, breakwater.	34° 04.0' N 132° 32.5' E	Iso.G. period 6s	46 14	12	White round concrete structure; 28.	F.W., F.R., F.G. and F.Y. mark bridge 200 meters SE.
8914 F 5654.5	Aki Manaita Isi.	34° 02.1' N 132° 32.1' E	FI.(2)W. period 5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark; 26.	
8916 F 5664	Nisigobanno Hana.	34° 03.7' N 132° 26.6' E	Q.(9)W. period 15s	49 15	12	W. CARDINAL YBY, beacon, topmark; 56.	
8920 F 5662	Hasirazima Ko, E. breakwater.	34° 01.4' N 132° 25.3' E	Iso.G. period 4s	52 16	12	White tower; 33.	
8924 F 5668	Aki Siraisi.	34° 10.5' N 132° 21.1' E	FI.(2)W. period 5s	62 19	12	ISOLATED DANGER BRB, beacon, topmark; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8928 <i>F 5677.4</i>	Kanokawa Ko, breakwater.	34° 11.3' N 132° 26.6' E	Fl.(2)R. period 6s	29 9	6	Red tower; 19.	
8932 <i>F 5677.2</i>	-Mitubisi Syozi Sea berth.	34° 10.5' N 132° 26.2' E	Mo.(U)R. period 15s	46 14	12		
8936 <i>F 5678</i>	Hata Ko, W. breakwater.	34° 11.9' N 132° 24.7' E	Oc.G. period 5s lt. 4s, ec. 1s	43 13	12	White round concrete tower; 31.	
8940 <i>F 5678.4</i>	-Korenage, breakwater.	34° 12.7' N 132° 23.8' E	Fl.G period 3s	39 12	11	White round concrete structure; 32.	
8944 <i>F 5675.7</i>	Kuba Ko, breakwater.	34° 15.2' N 132° 14.2' E	F.FI.G. period 4s	39 12	F Fl 5 11	White round concrete structure, quadrangular concrete base; 28.	
8948 <i>F 5675.4</i>	Otake Ko, breakwater, head.	34° 13.8' N 132° 13.5' E	Oc.(2)R. period 10s lt. 3s, ec. 1s lt. 3s, ec. 3s	39 12	11	Red round concrete tower; 31.	
8949	-Detached breakwater.	34° 14.0' N 132° 13.8' E	Fl.(2)R. period 6s	31 9	6	Red tower; 19.	
8952 <i>F 5671</i>	Iwakuni Ko, N. breakwater, head.	34° 11.4' N 132° 14.2' E	Fl.R. period 3s	26 8	6	Red octagonal concrete tower; 21.	
8956 <i>F 5669</i>	Atada Ko.	34° 11.5' N 132° 19.1' E	Fl.R. period 3s	30 9	7	Red tower; 18.	
8958 <i>F 5670</i>	-S. breakwater, head.	34° 11.7' N 132° 19.1' E	Fl.(2)R. period 8s	29 9	6	Red round tower; 19.	
8960 <i>F 5667</i>	-AVIATION LIGHT.	34° 08.8' N 132° 13.7' E	Al.FI.(2+1)W.G. period 10s	85 26		Steel framework tower; 69.	
8964 <i>F 5679</i>	Manaita Syo.	34° 14.9' N 132° 21.7' E	Fl.(2)W. period 5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark; 30.	
8968 <i>F 5680.6</i>	Mino Ko, breakwater, E. head.	34° 15.3' N 132° 23.0' E	Oc.R. period 4s	39 12	11	Red round concrete structure; 31.	
8972 <i>F 5680.8</i>	Mitaka Ko, W. breakwater, head.	34° 15.4' N 132° 24.6' E	F.FI.R. period 4s	39 12	F Fl 6 11	Red round concrete tower; 31.	
8976 <i>F 5680.9</i>	Kasa Iso.	34° 15.6' N 132° 24.9' E	Fl.(2)W. period 5s	31 9	9	ISOLATED DANGER BRB, beacon, topmark; 33.	
8977 <i>F 5678.6</i>	Eta Uti.	34° 14.0' N 132° 26.3' E	Fl.(2)R. period 6s	27 8	6	Red tower; 19.	
8978 <i>F 5680.95</i>	Sezyo Ko.	34° 14.9' N 132° 27.7' E	Fl.R. period 3s	27 8	6	Red concrete tower; 19.	
8980 <i>F 5680</i>	Nakano Se.	34° 16.1' N 132° 22.6' E	Mo.(D)G. period 8s	39 12	8	PORT (B) G, beacon, topmark; 49.	
8984 <i>F 5681</i>	Aki Enosima.	34° 17.3' N 132° 21.9' E	Fl.W. period 4s	161 49	12	White round concrete structure; 46.	
8988 <i>F 5680.4</i>	Ando Sima.	34° 16.4' N 132° 24.4' E	Fl.W. period 4s	59 18	12	White round concrete tower; 28.	
8992 <i>F 5689</i>	Dogen Isi.	34° 17.8' N 132° 27.0' E	Mo.(A)G. period 8s	26 8	6	PORT (B) G, beacon, topmark; 30.	
8994 <i>F 5688.4</i>	Nino Sima Ko, N. breakwater, head.	34° 18.9' N 132° 25.9' E	Fl.R. period 3s	27 8	3	Red tower; 19.	
8996 <i>F 5691</i>	Eta Sima.	34° 16.9' N 132° 28.6' E	Fl.R. period 4s	39 12	11	Red tower; 31.	
9000 <i>F 5690</i>	Yakataisi.	34° 17.7' N 132° 28.9' E	Q.W.	25 8	10	N. CARDINAL BY, beacon, topmark; 36.	
9004 <i>F 5687</i>	Uzina.	34° 20.2' N 132° 27.9' E	Al.FI.W.R. period 10s	151 46	18	White round concrete structure on square base; 69.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9005 F 5687.1	-NE.	34° 20.8' N 132° 28.0' E	Fl.(2)G. period 6s	30 9	6		R. and G. lights on end of jetties 300m and 400m S.
9008 F 5687.5	-Harbor, E. breakwater.	34° 20.5' N 132° 27.5' E	Oc.R. period 4s	56 17	13	Red round concrete structure; 62.	
9012 F 5687.4	--W. breakwater.	34° 20.5' N 132° 27.4' E	Oc.G. period 4s lt. 3s, ec. 1s	56 17	13	White round concrete structure; 62.	
9020 F 5686	-AVIATION LIGHT.	34° 22.0' N 132° 25.3' E	Al.Fl.W.G. period 8.6s	82 25		Metal framework structure; 70.	
9022 F 5685	-Tower.	34° 21.0' N 132° 24.9' E	Mo.(U)W. period 12s	29 9	5		
9023 F 5684.2	-Mitsubishi Shipyard, detached breakwater, E. head.	34° 21.2' N 132° 25.0' E	Fl.G. period 3s	23 7	4	White tower; 12.	
9023.5 F 5684.4	--W. head.	34° 21.2' N 132° 25.0' E	Fl.R. period 3s	23 7	4	Red tower; 12.	
9024 F 5684	-Kusatu Gyoko.	34° 21.4' N 132° 24.3' E	F.Fl.R. period 5s	39 12	F. 6 Fl 11	White round concrete tower; 31. Visible 300°-210°.	
9028 F 5683	-Breakwater, head.	34° 21.5' N 132° 24.0' E	Iso.G. period 4s	36 11	11	White round concrete tower; 27.	
9034 F 5681.2	Hirosima Ko Sea berth.	34° 20.1' N 132° 20.5' E	Mo.(U)W. period 10s	39 12	11	Terminal.	Auxiliary lights Mo.(U)W. 10s located 110 meters NE. and 130 meters SW. of main light.
9036 F 5681.2	-Zigozen Ko, W. breakwater.	34° 20.1' N 132° 19.5' E	Iso.G. period 6s	39 12	12	White round concrete structure; 31.	
9040 F 5677	Kame Iso.	34° 17.5' N 132° 17.9' E	Mo.(A)G. period 8s	33 10	5	PORT (B) G, beacon, topmark; 26.	Two F.R. lights are shown on NW. side of Itsuku Shima.
9044 F 5676.4	Kaminohama Ko, breakwater, head.	34° 17.2' N 132° 17.2' E	Fl.G. period 3s	26 8	5	White tower; 18.	
9048 F 5676	Sinkai Hana.	34° 17.0' N 132° 17.1' E	Iso.W. period 6s	33 10	11	White round concrete tower; 25.	
9050 F 5692.5	Koyo Ko, breakwater.	34° 14.8' N 132° 29.8' E	Fl.(2)G. period 6s	30 9	5	White concrete structure; 18.	
9052 F 5692	Kourume Sima.	34° 14.4' N 132° 31.1' E	Fl.W. period 4s	72 22	11	White concrete structure; 36.	
9054 F 5692.7	Akizuki, breakwater, head.	34° 13.7' N 132° 29.6' E	Fl.(2)R. period 6s	27 8	3	Red tower; 16.	
9056 F 5693	Ondo.	34° 11.8' N 132° 32.4' E	Iso.W. period 6s	125 38	17	White round concrete tower; 31. Bridge marked by 2 F.R., 2 F.W., and 2 F.G.	
9060 F 5694	Hiro Wan Range, front.	34° 13.3' N 132° 37.1' E	F.R.	79 24	11	White metal post, triangular topmark; 62.	
9064 F 5694.1	-Rear, 127 meters 029°06' from front.	34° 13.3' N 132° 37.1' E	F.R.	89 27	11	White metal post, triangular daymark; 80.	
9068 F 5694.5	Hiro Wan Aga Oki, W. breakwater, head.	34° 13.0' N 132° 35.9' E	F.I.R. period 3s	39 12	9	Red quadrangular metal framework tower; 30.	
9072 F 5666.5	Kakiura Ko, breakwater, head.	34° 10.6' N 132° 28.6' E	Fl.G. period 3s	42 13	8	White round concrete tower; 30.	
9076 F 5666	Ogaki Ko, N. breakwater, head.	34° 10.4' N 132° 29.1' E	Fl.G. period 3s	36 11	8	White round concrete tower on square base; 29.	
9080 F 5665.5	Akitahara Ko, S. breakwater.	34° 10.2' N 132° 30.0' E	F.Fl.R. period 5s	42 13	F. 6 Fl 12	Red tower; 31.	
9088 F 5664.7	Ryosida Ko, S. breakwater.	34° 08.5' N 132° 30.4' E	F.F.I.R. period 3s	36 11	F. 6 Fl 11	Red tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9092 <i>F 5664.4</i>	Dentarohana.	34° 06.3' N 132° 27.0' E	Fl.W. period 4s	56 17	13	White round concrete structure on square base; 28.	
9096 <i>F 5663</i>	Yuu Ko, breakwater.	34° 02.4' N 132° 13.4' E	Iso.R. period 6s	39 12	12	Red round concrete structure; 32.	
9100 <i>F 5658</i>	Kuka Ko.	33° 57.1' N 132° 17.1' E	Fl.(2)W. period 8s	118 36	17	White round concrete structure; 36.	
9102 <i>F 5660</i>	-E. breakwater, head.	33° 57.0' N 132° 16.5' E	Fl.(2)G. period 6s	26 8	5	White tower; 18.	
9104 <i>F 5659</i>	Kuka Ko, breakwater.	33° 56.8' N 132° 16.1' E	Fl.G. period 4s	39 12	11	White round concrete tower; 29.	
9108 <i>F 5657</i>	Ihota Ko.	33° 56.5' N 132° 26.6' E	Fl.R. period 4s	42 13	9	Red round reinforced fiberglass structure; 33.	
9110 <i>F 5638</i>	Osima Bridge.	33° 57.3' N 132° 11.3' E	2 F.W.	105 32	9	On bridge.	Marks center of channel. Vertical clearance 30 meters. F.G. and F.R. mark edges of channel. Siren: 1 bl. ev. 18s (bl. 3s, si. 15s).
9112 <i>F 5636</i>	O Iso.	33° 57.1' N 132° 10.8' E	Fl.W. period 3s	46 14	9	Red round concrete structure, black bands; 52.	
9116 <i>F 5634.5</i>	Yanai Ko.	33° 57.0' N 132° 08.4' E	Fl.(2)R. period 6s	43 13	9	Red tower; 29.	
9120 <i>F 5632</i>	-E. breakwater, head.	33° 57.0' N 132° 08.3' E	Fl.(2)G. period 6s	36 11	8	White round concrete structure on quadrangular base; 28.	
9124 <i>F 5634</i>	-W. breakwater, head.	33° 56.9' N 132° 08.2' E	Fl.R. period 3s	40 12	9	Red round concrete structure on quadrangular base; 28.	
9128 <i>F 5436</i>	Turu Shima.	33° 53.4' N 132° 38.5' E	Al.Fl.W.R. period 16s	190 58	20	White round granite tower; 33.	Visible 007°-250°.
RACON				(- - - - -)		9	Azimuth coverage 172°-072°.
9130 <i>F 5651.75</i>	Iyokounoura Ko.	33° 56.8' N 132° 36.5' E	Fl.G. period 3s	30 9	5	White tower; 18.	
9132 <i>F 5651.7</i>	Huguri Iwa.	33° 55.9' N 132° 36.6' E	Q.(6)+L.FI. period 15s	46 14	12	S. CARDINAL YB, beacon, topmark; 36.	
9136 <i>F 5651.6</i>	Koti Sima.	33° 54.4' N 132° 35.4' E	Fl.W. period 3s	43 13	12	White round concrete structure; 39.	
9140 <i>F 5645</i>	Yuri Sima.	33° 50.5' N 132° 32.1' E	Fl.(3)W. period 12s	105 32	12	White round concrete tower; 39.	
9144 <i>F 5644.4</i>	Ao Sima.	33° 43.9' N 132° 28.8' E	Fl.(2)W. period 8s	335 102	20	White round concrete structure; 39.	
9148 <i>F 5644</i>	Kominase Sima.	33° 46.5' N 132° 23.7' E	Fl.W. period 4s	66 20	12	White round concrete structure; 49.	
9152 <i>F 5418.5</i>	Heigon Ko.	33° 46.7' N 132° 15.7' E	Fl.R. period 4s	29 9	6	Red tower; 18.	
9156 <i>F 5418</i>	Okino Se.	33° 45.7' N 132° 15.4' E	Mo.(A)G. period 8s	39 12	8	PORT (B) G, beacon, topmark; 39.	
9160 <i>F 5414</i>	Ya Shima.	33° 42.6' N 132° 08.2' E	Fl.W. period 10s	193 59	20	White tower; 37.	
9162 <i>F 5412</i>	Iyo Nada, buoy No. "5".	33° 41.4' N 132° 08.2' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
RACON				G(- - -)		5	
9164 <i>F 5412</i>	Hoziro Sima.	33° 43.8' N 132° 01.0' E	Fl.W. period 3s	128 39	16	White round concrete tower; 23.	
9168 <i>F 5647</i>	Okozeiwa.	33° 59.3' N 132° 32.2' E	Mo.(A)R. period 8s	36 11	7	STARBOARD (B) R, beacon, topmark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9172 F 5649	Kazakiri Hana.	33° 59.5' N 132° 34.2' E	Oc.(2)W. period 6s	39 12	11	White round concrete structure on quadrangular concrete base; 28.	
9176 F 5650	Kudako Sima.	33° 58.0' N 132° 34.0' E	Iso.W. period 6s	187 57	19	White round stone tower; 36.	
9180 F 5651	Heyano Hana.	33° 58.0' N 132° 35.0' E	Fl.(3)W. period 13s	174 53	17	White round concrete structure; 36.	
9184 F 5646.5	Aburatori Se.	33° 58.3' N 132° 31.0' E	Mo.(A)G. period 8s	40 12	8	PORT (B) G, beacon, topmark; 29.	
9186 F 5646.7	Nuwazima Suido, breakwater, head.	33° 58.7' N 132° 31.1' E	Fl.(3)G. period 12s	30 9	5	White tower; 22.	
9188 F 5646	Nenasi Syo.	33° 56.6' N 132° 30.0' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 56.	
9190	Nasake Sima.	33° 57.0' N 132° 28.6' E	Fl.W. period 3s	39 12	9	White tower; 31.	
9192 F 5645.4	Oisi.	33° 55.0' N 132° 28.5' E	Mo.(D)G. period 8s	43 13	8	PORT (B) G, beacon, topmark; 33.	
9196 F 5645.6	Yuta Ko, "A" breakwater.	33° 55.7' N 132° 26.3' E	Iso.G. period 6s	43 13	12	White round concrete structure; 32.	
9200 F 5640	Setono Isi.	33° 51.4' N 132° 21.8' E	Mo.(A)G. period 8s	32 10	5	PORT (B) G, beacon, topmark; 29.	
9202 F 5641	Okikamuro Sima.	33° 50.7' N 132° 21.9' E	Mo.(C)G. period 13s	49 15	10	PORT (B) G, beacon, topmark; 36.	
9204 F 5642	Sengai Se.	33° 49.2' N 132° 22.1' E	Fl.(2)W. period 5s	36 11	11	ISOLATED DANGER BRB, beacon, topmark; 30.	
9208 F 5639.4	Siraki Ko, breakwater.	33° 52.9' N 132° 20.1' E	Iso.G. period 6s	39 12	11	White round concrete tower; 28.	
9210 F 5639.2	-Breakwater.	33° 53.9' N 132° 17.5' E	Fl.G. period 3s	33 10	5	White round tower; 18.	
9212 F 5639	Agenosyoko, W. breakwater, head.	33° 53.8' N 132° 17.1' E	F.FI.R. period 5s	36 11	F. Fl	6 Red round concrete tower; 28.	
9216 F 5628	Simo-Ninai Sima, on summit.	33° 50.7' N 132° 11.1' E	Fl.(4)W. period 14s	387 118	12	White round concrete tower; 39.	
9220 F 5627	Kazikake Iwa.	33° 49.8' N 132° 09.0' E	Mo.(A)G. period 8s	43 13	5	PORT (B) G, beacon, topmark; 36.	
9224 F 5415	Yasima Ko, breakwater.	33° 43.7' N 132° 08.7' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 32.	
9228 F 5413	Amata Sima.	33° 46.3' N 132° 03.1' E	Fl.(2)W. period 6s	49 15	12	White round metal structure; 32.	
9232 F 5410	Hanaguri Sima.	33° 46.9' N 132° 01.5' E	Fl.W. period 5s	95 29	12	White round concrete tower; 33.	
9236 F 5435	Mutuyama Ko.	33° 53.4' N 132° 42.6' E	Fl.R. period 3s	33 10	7	Red tower; 18.	
9240 F 5433.8	Outer Harbor, breakwater No. "2", N. head.	33° 51.9' N 132° 42.1' E	Fl.(2)R. period 7s	59 18	13	Red structure; 30.	
9244 F 5434	Breakwater, N. head.	33° 52.0' N 132° 42.5' E	Iso.R. period 4s	36 11	3	Red tower; 28.	
9246 F 5432.9	-Offshore, S. beacon.	33° 50.2' N 132° 41.1' E	Mo.(D)Y. period 8s	36 11	7	SPECIAL Y, beacon, topmark; 36.	
9247 F 5432.95	--N. beacon.	32° 50.5' N 132° 40.7' E	Mo.(N)Y. period 8s	36 11	7	SPECIAL Y, beacon, topmark; 36.	
9248 F 5433	Yosidahama, breakwater.	33° 50.4' N 132° 42.0' E	F.FI.R. period 5s	36 11	F. Fl	6 Red round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9252 <i>F 5432.6</i>	AVIATION LIGHT.	33° 49.7' N 132° 42.1' E	Al.FI.W.G. period 4.3s	66 20		Metal framework tower.	
9256 <i>F 5432.8</i>	Breakwater.	33° 49.1' N 132° 41.0' E	Fl.R. period 3s	43 13	6	Red tower; 36.	
9260 <i>F 5432</i>	Masaki Ko, W. breakwater.	33° 47.0' N 132° 41.7' E	Fl.R. period 3s	36 11	11	Red tower; 28.	
9264 <i>F 5431</i>	Guntyu Ko, W. breakwater, head.	33° 45.3' N 132° 41.8' E	Fl.(2)R. period 7s	43 13	12	Red tower; 31.	
9268 <i>F 5430.5</i>	Kaminada Ko, breakwater, N. head.	33° 41.2' N 132° 38.3' E	Iso.R. period 4s	43 13	12	Red round concrete tower; 31.	Spotlight illuminates W. head of breakwater.
9270 <i>F 5430</i>	Iyotoyota Ko, W. breakwater.	33° 39.1' N 132° 34.9' E	F.FI.R. period 6s	52 16	F. Fl	6	Red tower; 31.
9272 <i>F 5428</i>	Nagahama Ko, N. breakwater.	33° 37.0' N 132° 29.5' E	Iso.R. period 6s	36 11		11	Red round concrete tower; 28.
9276 <i>F 5429</i>	-E. breakwater, N. head.	33° 36.9' N 132° 29.5' E	Iso.G. period 6s	39 12	11	White round concrete structure; 32.	
9280 <i>F 5427.8</i>	Kusu Ko, W. breakwater, head.	33° 34.3' N 132° 26.5' E	F.FI.R. period 4s	39 12	F. Fl	6	Red round concrete structure; 32.
9284 <i>F 5427.5</i>	Husuma Hana.	33° 28.2' N 132° 15.7' E	Fl.W. period 10s	197 60	20	White tower; 29.	Visible 040°-253°.
9288 <i>F 5427</i>	Mitukue Ko.	33° 27.3' N 132° 15.3' E	Iso.R. period 6s	43 13	12	Red square framework tower; 24.	
9292 <i>F 5426</i>	Mimai Saki.	33° 24.9' N 132° 07.5' E	Iso.W. period 6s	240 73	22	White round concrete structure; 33.	
9296 <i>F 5424</i>	Sada Misaki.	33° 20.4' N 132° 01.0' E	Fl.(3)W. period 20s	161 49	19	White octagonal concrete structure; 59.	Visible 265°-214°. Signal station (day only).
F.W.				121 37		Close to above tower.	Illuminate beacon on Ogon Bac, 650 meters SSW.
RAMARK							
9300 <i>F 4947</i>	Bungo Hira Se.	33° 16.4' N 131° 54.6' E	Fl.(2)W. period 5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
9304 <i>F 4947.04</i>	Asike Bae.	33° 16.6' N 131° 57.9' E	Fl.W. period 3s	69 21	14	White round concrete structure;	Visible 089°-054°.
9308 <i>F 4946</i>	Seki Saki.	33° 15.8' N 131° 54.3' E	Iso.W. period 8s	226 69	22	White round metal tower; 33.	Visible 094°-360°.
9310 <i>F 4945.5</i>	Koguro Ko.	33° 15.0' N 131° 53.9' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
9312 <i>F 4945</i>	Saganoseki Gyoko.	33° 14.4' N 131° 53.2' E	Iso.R. period 4s	43 13	12	Red tower; 31.	
9316 <i>F 4944</i>	Fishery Harbor, E. breakwater.	33° 14.4' N 131° 52.9' E	F.FI.R. period 6s	36 11	F. Fl	6	Red round concrete tower; 28.
9320 <i>F 4946.6</i>	-W. breakwater.	33° 14.9' N 131° 52.1' E	Fl.R. period 3s	36 11	11	Red round concrete structure; 28.	
9321 <i>F 4947.06</i>	Kozaki Ko, breakwater.	33° 14.5' N 131° 47.4' E	Fl.G. period 3s	33 10	5	White concrete tower; 22.	
9322 <i>F 4947.08</i>	Hiyosibaru Hakuti, E. breakwater, head.	33° 15.3' N 131° 46.4' E	Iso.G. period 6s	59 18	13	White tower; 62.	
9324 <i>F 4947.12</i>	Oita Ko, breakwater, head.	33° 15.1' N 131° 46.9' E	Fl.R. period 4s	30 9	4	Red tower; 25.	
9328 <i>F 4947.11</i>	-Sea Berth.	33° 14.9' N 131° 46.9' E	Mo.(U)R. period 12s	30 9	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9332 F 4947.1	Ekikagasu Bitiku.	33° 15.2' N 131° 46.7' E	Mo.(U)W. period 12s	102 31	15		Mo.(U)W. 12s 180 meters W. and 190 meters ESE.
9336 F 4947.15	-	33° 15.2' N 131° 46.6' E	Dir.F.W.R.G.	49 15	W. R. G.	3 1 1	White tower; 36. R. 188°-190°30', W.-195°30', G.-198°.
9338 F 4947.09	-Breakwater, NE. head.	33° 15.5' N 131° 46.2' E	Fl.(2)R. period 6s	39 12	11	Red tower; 28.	
9340 F 4947.18	-Breakwater, W. head.	33° 15.4' N 131° 44.5' E	Fl.(2)G. period 6s	43 13	8	White tower; 33.	
9341 F 4947.19	-E. head.	33° 15.6' N 131° 44.2' E	Fl.(2)R. period 6s	39 12	6	Red tower; 29.	
9342 F 4947.3	Oita Ko, LNG berth.	33° 16.4' N 131° 42.8' E	Mo.(U)W. period 12s	82 25	14	Dolphin.	Mo.(U)W. 12s 7M on dolphins 220 meters SE. and 200 meters NW.
9344 F 4947.26	-No. "1".	33° 16.6' N 131° 41.6' E	Mo.(U)R. period 8s	30 9	10	Dolphin.	Auxiliary Mo.(U)R. 8s, 250 meters WNW. and 480 meters W.
9348 F 4947.4	-Tsurasaki, E. breakwater, head.	33° 16.8' N 131° 40.8' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 28.	
9352 F 4947.5	-Misa, W. breakwater.	33° 16.6' N 131° 40.8' E	Fl.(2)R. period 7s	39 12	11	Red round concrete tower; 28.	
9356 F 4947.6	-Showa Yuka, oil terminal sea berth.	33° 16.6' N 131° 40.4' E	Mo.(U)R. period 12s	98 30	14	Dolphin.	Auxiliary lights Mo.(U)R. 12s shown 190 and 220 meters E. and W. respectively from main light. Radar reflector.
9360 F 4947.74	-E. breakwater.	33° 16.7' N 131° 39.8' E	Fl.G. period 3s	59 18	4	White round metal structure; 49.	
9364 F 4947.7	-Otozu, W. breakwater.	33° 16.4' N 131° 39.7' E	F.FI.R. period 3s	59 18	F. Fl.	10 13	Red round concrete structure; 52.
9368 F 4947.8	Heavy oil sea berth.	33° 16.3' N 131° 39.8' E	Mo.(U)R. period 8s	25 8	10		Visible 159°-019° Auxiliary light Mo.(U)R. 8s. vis. 159°-019° located 60 meters SSW.
9372 F 4948	Oita Ko, Sin Nippon Seitetsu Sea Berth.	33° 16.2' N 131° 38.1' E	Mo.(U)R. period 8s	39 12	11		Auxiliary lights Mo.(U)R. 8s located 140, 730, and 870 meters SW.
9376 F 4947.9		33° 15.8' N 131° 37.8' E	Dir.F.W.R.G.	36 11	11	Bridge tower at material berth.	R. 223°06'-230°06', W.- 235°54', G.-242°54'. Center of fairway is 233°.
9380 F 4948.4	--E. breakwater.	33° 15.0' N 131° 36.1' E	Iso.G. period 6s	46 14	12	White round concrete structure on square base; 31.	
9384 F 4948.6	Sumiyosi, W. breakwater.	33° 15.1' N 131° 36.0' E	Fl.(3)R. period 7s 3 fl. 2.5s	42 13	9	Red round concrete structure; 31.	
9388 F 4950	Oita Ko, N. breakwater, head.	33° 15.1' N 131° 35.2' E	F.FI.G. period 4s	43 13	F. Fl.	12 6	White round concrete tower; 32.
9392 F 4951	W. breakwater, head.	33° 15.1' N 131° 35.1' E	F.FI.R. period 4s	43 13	F. Fl.	12 8	Red round concrete tower; 32.
9396 F 4953	Beppu Kanko Ko.	33° 17.8' N 131° 30.5' E	Fl.G. period 3s	24 7	10	White round concrete tower; 21.	
9400 F 4954	-Offing breakwater.	33° 17.8' N 131° 30.6' E	FI.R. period 3s	52 16	13	Red round concrete structure; 52.	
9404 F 4954.5	-Offing breakwater, N. head.	33° 18.3' N 131° 30.6' E	Iso.G. period 4s	52 16	13	White round concrete structure; 52.	
9408 F 4955	-Breakwater, head.	33° 19.7' N 131° 30.0' E	Fl.(2)G. period 8s	46 14	12	White tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9412 <i>F 4955.5</i>	Hizi Ko, E. breakwater, head.	33° 21.7' N 131° 32.4' E	Oc.R. period 8s	30 9	7	Red tower; 19.	
9414 <i>F 4955.57</i>	Kanuki Ko.	33° 22.2' N 131° 38.4' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
9416 <i>F 4956</i>	Morie Ko.	33° 24.5' N 131° 39.6' E	Mo.(A)R. period 8s	36 11	6	STARBOARD (B) R, beacon, topmark; 30.	
9421 <i>F 4962</i>	Usuisi Hana.	33° 24.2' N 131° 42.3' E	L.FI.W. period 15s	98 30	16	White concrete structure; 56.	Visible 190°-057°.
9422	Musasi, breakwater, SE. head.	33° 30.0' N 131° 44.2' E	Fl.R. period 3s	36 11	6	Red tower; 28.	
9424 <i>F 4964</i>	Kunisaki Ko, S. breakwater.	33° 33.8' N 131° 44.5' E	Oc.G. period 5s	33 10	6	White tower; 26.	
9428 <i>F 4965</i>	Kunisaki Ko, E. breakwater.	33° 34.1' N 131° 44.4' E	Fl.R. period 5s	46 14	12	Red round tower; 33.	
9432 <i>F 4966</i>	Tomiku Ko.	33° 36.1' N 131° 43.4' E	Fl.R. period 3s	43 13	12	Red round concrete tower; 31.	
9434	Suo Nada Buoy No. "4".	33° 51.4' N 131° 12.0' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
RACON				OE(--- •)		5	
9436 <i>F 5626</i>	Murotu.	33° 49.7' N 132° 07.2' E	Iso.W.R. period 6s	49 15	12	White round concrete structure;	R. 250°-274°, W.-105°, obsc.- 43. 250°.
9440 <i>F 5626.2</i>	Murotu Ko, breakwater.	33° 50.1' N 132° 07.1' E	Fl.G. period 2s	39 12	11	White round concrete tower; 31.	
9444 <i>F 5409</i>	-Kaminoseki Range, front.	33° 49.6' N 132° 07.0' E	F.R.	118 36	8	White concrete post, triangular topmark; 36.	
9448 <i>F 5409.1</i>	--Rear, 58 meters 154°18' from front.	33° 49.6' N 132° 07.0' E	F.R.	138 42	8	White concrete post, triangular topmark; 23.	
9452 <i>F 5409.4</i>	Kaminoseki Ko, "A" breakwater.	33° 49.7' N 132° 06.9' E	F.FI.R. period 3s	36 11	F. Fl	6	Red round concrete tower; 28.
9456 <i>F 5408</i>	Kame Iwa.	33° 51.5' N 132° 04.7' E	Mo.(A)R. period 8s	46 14	9	STARBOARD (B) R, beacon, topmark; 49.	
9460 <i>F 5407.4</i>	Siraida, breakwater, head.	33° 49.2' N 132° 04.3' E	Iso.R. period 4s	39 12	11	Red round concrete structure.	
9464 <i>F 5407</i>	Suo Ikada Se.	33° 51.7' N 132° 03.5' E	Mo.(A)G. period 8s	46 14	8	PORT (B) G, beacon, topmark; 31.	
9468 <i>F 5408.5</i>	Hiraosaga Ko.	33° 53.3' N 132° 04.9' E	F.FI.R. period 5s	39 12	F. Fl	6	Red round tower on square concrete base; 32.
9472 <i>F 5406.5</i>	Maru Iwa.	33° 53.9' N 132° 02.2' E	Mo.(A)R. period 8s	36 11	9	STARBOARD (B) R, beacon, topmark; 26.	
9474 <i>F 5406.55</i>	Hirao Ko, breakwater, head.	33° 54.6' N 132° 02.9' E	Fl.R. period 3s	26 8	6	Red tower; 19.	
9476 <i>F 5406.7</i>	Suo Usi Sima.	33° 52.1' N 132° 01.2' E	Mo.(A)R. period 8s	33 10	7	STARBOARD (B) R, beacon, topmark; 26.	
9480 <i>F 5406.8</i>	Ujisima Ko, breakwater.	33° 51.4' N 132° 00.6' E	Oc.R. period 4s	39 12	11	Red tower; 29.	
9484 <i>F 5406</i>	Murozumi Ko.	33° 55.2' N 131° 58.8' E	Iso.W. period 6s	39 12	11	White round concrete tower; 30.	
9486 <i>F 5406.2</i>	-Breakwater, W. head.	33° 55.4' N 131° 58.6' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
9488 <i>F 5405</i>	Ominase Sima.	33° 55.9' N 131° 56.0' E	Fl.W. period 3s	36 11	11	White round concrete tower; 26.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9492 F 5405.4	Hikari Ko, S. breakwater.	33° 56.7' N 131° 57.1' E	Iso.G. period 6s	39 12	11	White round concrete structure; 31.	
9494 F 5405.2	Shimada Quay, breakwater.	33° 56.9' N 131° 55.7' E	F.FIG. period 3s	39 12	F. 5 Fl 11	White concrete structure; 31.	
9496 F 5404.5	Sekiyu Seisei.	33° 58.5' N 131° 53.4' E	Mo.(U)W. period 15s	108 33	16	Sea berth.	Mo.(U)W. 15s 10m 10M 210 meters E. and 220 meters WNW.
9500 F 5404.7	Kudamatsu, public wharf, breakwater.	34° 00.0' N 131° 51.8' E	Oc.G. period 4s lt. 3s, ec. 1s	43 13	12	White round concrete tower; 31.	Bridge 0.9 mile S. marked by F.W., F.R., and F.G. lights.
9504 F 5404.8	Tokuyama Gyoko, W. breakwater.	34° 00.2' N 131° 50.2' E	Iso.G. period 4s	39 12	11	White round metal structure; 31.	
9508 F 5404.4	Hiburi Saki.	33° 55.8' N 131° 49.1' E	Fl.W. period 4s	121 37	12	White round concrete tower; 25.	
9512 F 5398.5	No Sima.	33° 56.0' N 131° 41.8' E	Iso.W. period 6s	285 87	22	White quadrangular concrete tower; 62.	F.W. illuminates beacon on Omo Se.
	RACON		(-----)		9		Azimuth coverage 224°-206°.
9512.3 F 5397.5	-Omo Ze.	33° 55.6' N 131° 41.2' E	Fl.(2)W. period 5s	30 9	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
9516 F 5399	Nosima Ko, W. breakwater.	33° 56.6' N 131° 41.7' E	Iso.R. period 6s	40 12	11	Red round concrete structure on a quadrangular base; 28.	
9520 F 5400	Iwa Sima, Tokuyama Wan, entrance.	33° 58.8' N 131° 45.3' E	Fl.(3)W. period 12s	75 23	12	White round stone tower; 31.	
TOKUYAMA WAN:							
9524 F 5400.5	-Nishiga Mori, on pier.	33° 59.0' N 131° 46.9' E	F.R.	30 9	3	Framework tower, red metal pole; 18.	
9528 F 5400.4	-Kudamatu Ko, oil terminal jetty No. "6".	33° 59.7' N 131° 47.3' E	Mo.(U)R. period 8s	31 9	8		
9532 F 5400.3	--No. "7".	33° 59.6' N 131° 47.1' E	Mo.(U)R. period 13s	89 27	8		F.R. 9m 4M 170 meters NE. and 180 meters SW.
9536 F 5404	-Tikko, breakwater.	34° 02.8' N 131° 47.9' E	Iso.G. period 4s	43 13	12	White round concrete structure; 36.	
9540 F 5402	-Toyo Soda Company Wharf.	34° 03.1' N 131° 47.7' E	Fl.G. period 5s	36 11	10	White round concrete tower; 18.	
9544 F 5401.6	-Oki-no-Ikada.	34° 02.7' N 131° 47.1' E	Fl.W. period 4s	36 11	11	White round concrete tower; 26.	
9548 F 5402.5	-Soda Nanyo Range, front.	34° 03.3' N 131° 47.1' E	F.R.	20 6	6	White round metal structure, triangular topmark; 20.	
9552 F 5402.51	--Rear, 245 meters 004°42' from front.	34° 03.5' N 131° 47.1' E	F.R.	33 10	6	White round metal structure, triangular topmark; 19.	
9556 F 5401	-Toyosoda, W.	34° 03.2' N 131° 45.9' E	F.G.	33 10	5	White triangular metal framework tower; 17.	
9568 F 5400.8	-Soda No. "4" Range, front.	34° 03.2' N 131° 45.8' E	F.Y.	56 17	9	Metal framework structure, white triangular daymark; 49.	
9572 F 5400.81	--Rear, 40 meters 311°36' from front.	34° 03.2' N 131° 45.8' E	F.Y.	62 19	9	White triangular daymark, point down; 54.	
9574 F 5397	-Otusima Ko, breakwater.	34° 00.3' N 131° 42.4' E	Iso.R. period 6s	29 9	7	Red concrete structure; 18.	
9577 F 5396	Mitaziri Nakanoseki Ko.	34° 00.9' N 131° 36.7' E	Fl.R. period 3s	46 14	12	Red tower; 31.	
9580 F 5394.5	Muko Sima, breakwater, head.	34° 01.3' N 131° 35.3' E	F.FIG. period 5s	46 14	F. 5 Fl 12	White round concrete tower; 32.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9584 F 5394	Nakanoseki.	33° 59.8' N 131° 32.8' E	Oc.W. period 4s	217 66	17 39.	White square concrete tower;	
9588 F 5393	Hofu AVIATION LIGHT.	34° 01.1' N 131° 32.1' E	Al.FI.W.G. period 10s	777 237		Metal framework tower; 49.	
9592 F 5392	Nisiura Ko, breakwater, head.	34° 00.5' N 131° 30.7' E	Fl.(2)R. period 7s	43 13	12 31.	Red round concrete structure;	
9596 F 5391.4	Aio Gyoko, Fishery harbor, Omi breakwater.	34° 01.6' N 131° 28.2' E	F.FI.G. period 3s	43 13	F. 5 Fl 12	White round concrete structure;	
9604 F 5390.6	Sabasima.	33° 57.8' N 131° 30.8' E	Fl.W. period 3s	154 47	12	White quadrangular concrete structure; 43.	
9608 F 5390	Kusayama Saki.	33° 58.9' N 131° 26.6' E	Iso.W. period 6s	420 128	22	White round concrete tower; 39.	Spotlight.
9612 F 5390.4	Aio Ko, S. breakwater, head.	33° 59.6' N 131° 25.7' E	F.FI.R. period 4s	33 10	F. 5 Fl 11	Red round concrete structure;	
9616 F 5390.45	-Ura, breakwater, head.	34° 00.4' N 131° 25.8' E	Iso.R. period 4s	39 12	11 28.	Red round concrete structure;	
9620	Iwayano Hana.	33° 58.9' N 131° 23.9' E	F.W.	73 22		White round concrete tower; 20.	
9624 F 5389	Ta teisi.	33° 59.0' N 131° 22.9' E	Fl.W. period 4s	39 12	11 26.	White round concrete structure;	
9628 F 5388	Maruo Ko, breakwater, head.	33° 58.0' N 131° 21.5' E	Iso.G. period 8s	29 9	10	White round concrete tower; 21.	
9632 F 5387.5	Tokonami Ko, breakwater.	33° 56.6' N 131° 18.7' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 29.	
9636 F 5386	Kamega Se.	33° 54.7' N 131° 17.3' E	Fl.W. period 4s	39 12	11	White tower; 46.	
9640 F 5382	Ubemisaki Ko, fishing harbor, W. breakwater.	33° 55.2' N 131° 15.8' E	F.FI.G. period 5s	39 12	F. 5 Fl 11	White round concrete structure on square base; 28.	
9648 F 5387	Motoyama.	33° 52.7' N 131° 15.1' E	Fl.W. period 3s	49 15	12	Concrete tower, black and white bands; 49.	
UBE KO:							
9652 F 5387.3	-Seibu Sekiyu Seaberth.	33° 49.8' N 131° 12.8' E	Mo.(U)W. period 8s		9	Red and white striped mooring buoy.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
9656 F 5380	-E. Range, front.	33° 56.0' N 131° 15.3' E	F.R.	43 13	10	White round concrete tower; 39.	
9660 F 5380.1	--Rear, 240 meters 58° 12' from front.	33° 56.0' N 131° 15.5' E	F.R.	62 19	10	White round concrete tower; 52.	
9664 F 5376	-W. breakwater.	33° 56.1' N 131° 14.0' E	Iso.G. period 6s	39 12	11	White round concrete structure;	
9668 F 5372	Onoda Ko, N. breakwater, head.	33° 58.4' N 131° 09.9' E	Iso.G. period 6s	36 11	11	White tower; 28.	
9672 F 5366	Ozuki AVIATION LIGHT.	34° 02.8' N 131° 03.7' E	Al.FI.G.W. period 10s	246 75		Metal framework tower; 49.	
9676 F 4968	Hime Sima.	33° 43.6' N 131° 42.2' E	Fl.(4)W. period 30s	187 57	20	White tower; 40.	Visible 116°-064°.
RACON				(- - - - -)		9	
9678	-Higasiura Ko.	33° 44.1' N 131° 41.2' E	Fl.G. period 3s	29 9	3	White tower; 16.	
9680 F 4968.4	Kitaura Ko, S. breakwater.	33° 43.7' N 131° 39.0' E	Iso.R. period 6s	39 12	12	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9684 F 4968.6	Himesima Ko, E. breakwater.	33° 42.9' N 131° 39.1' E	F.FI.R. period 3s	43 13	F. 6 Fl 12	Red round concrete tower on quadrangular base; 32.	
9688 F 4969	Imi Ko, N. breakwater.	33° 41.1' N 131° 36.3' E	F.FI.R. period 5s	43 13	F. 6 Fl 12	Red round concrete tower; 28.	
9692 F 4972	Taketazu Ko, N. breakwater.	33° 40.5' N 131° 34.3' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	
9696 F 4971	Biwa Saki.	33° 40.9' N 131° 33.8' E	FI.W. period 5s	164 50	19	White round concrete tower; 32.	
9700 F 4974	Kak Azi.	33° 40.9' N 131° 31.5' E	Iso.W. period 8s	79 24	14	White round concrete tower; 27.	
9704 F 4974.2	Kakazi Ko, N. breakwater.	33° 40.3' N 131° 31.5' E	F.FI.R. period 6s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
9708 F 4974.6	Bungo Takada Ko, training wall.	33° 35.7' N 131° 25.4' E	FI.(2)R. period 8s 2 fl. 3s, ec. 5s	36 11	4	Red round concrete tower; 28.	
9712 F 4975	Buzen Nagasu Ko, training wall.	33° 34.6' N 131° 22.4' E	Iso.W. period 8s	36 11	11	White round structure on square base; 26.	
9714 F 4975.5	Buzen Imazu Ko.	33° 35.0' N 131° 16.4' E	Iso.R. period 4s	39 12	11	Red tower; 28.	
9716 F 4976.2	Imazu.	33° 35.9' N 131° 16.6' E	FI.(2)W. period 5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
9720 F 4978	Nakatu Ko.	33° 36.8' N 131° 15.1' E	FI.R. period 3s	39 12	9	Red round tower on square concrete base; 30.	
9724 F 4978.5	Koiwai Ko, breakwater, head.	33° 37.0' N 131° 11.4' E	FI.R. period 5s	46 14	12	Red tower; 33.	
9726 F 4977	Nakatu Ko, W. training wall, head.	33° 37.9' N 131° 11.7' E	Mo.(A)R. period 8s	39 12	9	STARBOARD (B) R, beacon, topmark; 31.	
9728 F 4977.3	Yositomi Ko.	33° 37.0' N 131° 10.9' E	Iso.G. period 6s	32 10	6	White concrete structure; 22.	
9730 F 4979	Unosima Ko.	33° 37.8' N 131° 07.6' E	FI.(2)R. period 8s 2 fl. 3s, ec. 5s	43 13	11	Red round concrete tower; 31.	
9734 F 4976.6	Tuiki AVIATION LIGHT.	33° 40.4' N 131° 02.5' E	AI.FI.W.G. period 10s	125 38		Metal framework tower.	
9736 F 4982.5	-S. breakwater, S. head.	33° 47.0' N 131° 00.7' E	FI.R. period 3s	31 9	6	Red tower; 19.	
9738 F 4981	Kando Ko, E. breakwater.	33° 47.6' N 131° 00.9' E	F.FI.(2)G. period 8s	36 11	F. 7 Fl 11	White round tower; 25.	
9742 F 4982	-N. breakwater.	33° 47.8' N 131° 00.9' E	FI.(2)R. period 8s	36 11	11	Red round structure on square base; 28.	
9744 F 4982.3	-Observation tower.	33° 47.8' N 131° 04.5' E	Mo.(U)W. period 8s	33 10	7		Auxiliary light Mo.(U)W. 8s 8m 7M. Radar Reflector.
9746 F 4983	Kitakyushu AVIATION LIGHT.	33° 50.0' N 130° 56.5' E	AI.FI.W.G. period 4.3s	62 19		Iron framework tower.	
9750 F 4984	Inoura Ko, breakwater.	33° 50.6' N 130° 59.6' E	FI.(2)G. period 8s	43 13	8	White tower; 32.	
9754 F 4985	Sinmozi, breakwater.	33° 52.2' N 131° 00.8' E	FI.G. period 5s	59 18	13	White tower; 53.	
9756 F 4985.5	-W. breakwater.	33° 52.5' N 131° 00.2' E	FI.R. period 5s	46 14	7	Red tower; 31.	
9758 F 4986	Hisyakuda Ko, breakwater.	33° 53.9' N 131° 00.1' E	F.FI.(2)R. period 8s fl. 3s, ec. 5s	39 12	F. 6 Fl 11	Red round concrete tower on quadrangular base; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (II)							
9762 F 5360	Manzyu Sima.	33° 59.5' N 131° 01.7' E	Fl.W. period 4s	52 16	13	White round concrete structure; 52.	Visible 245°-092°.
9766 F 5312	He Saki.	33° 57.6' N 131° 01.4' E	F.Fl.W. period 15s	128 39	17	White round granite tower; 33.	
9770 F 5358	Tyohu.	33° 59.7' N 130° 59.8' E	Iso.G. period 6s	39 12	3	White tower; 28.	
9774 F 5306	Mozi Saki.	33° 57.5' N 130° 57.9' E	Oc.W. period 8s	33 10	11	White round concrete tower; 21.	Visible 029°-268°. Two F.R. lights are shown from outer corners of pier head at Moji Ko.
9778 F 5356	Simonoseki Range, front.	33° 57.7' N 130° 57.2' E	F.Y.	43 13	13	White round metal tower on masonry base; 39.	
9782 F 5356.1	--Rear, 163 meters 240°06' from front.	33° 57.7' N 130° 57.1' E	F.Y.	69 21	13	White metal framework tower, diamond daymark; 17.	
9786 F 5353	Sotohama, breakwater.	33° 57.3' N 130° 56.7' E	Fl.R. period 4s	26 8	6	Red square metal framework tower; 20.	
9788 F 5352	Kannonzaki.	33° 57.1' N 130° 56.8' E	Fl.G. period 4s	27 8	7	White tower; 20.	
9790 F 5354	Mozi No. "2" basin, breakwater.	33° 57.3' N 130° 57.7' E	Fl.G. period 3s	33 10	3	White concrete tower; 30.	
9792 F 5355.2	-No. "1" basin, breakwater.	33° 56.6' N 130° 57.7' E	Iso.R. period 6s	24 7	7	Red tower; 23.	
9794 F 5351	-Simonoseki ku on Hananotoyo Wharf, breakwater.	33° 56.9' N 130° 56.0' E	Fl.R. period 5s	32 10	3	Red round concrete structure; 28.	
9799 F 5348	Hiko Sima Range, front.	33° 55.9' N 130° 55.6' E	F.Y.	89 27	13	White tower; 85.	
9799.5 F 5340.6	-Rear, 90 meters 220° from front.	33° 55.9' N 130° 55.5' E	F.Y.	115 35	13	White tower; 46.	
9800 F 5340.6	Mozi No. "4" Basin, at breakwater elbow.	33° 55.3' N 130° 56.5' E	Fl.R. period 5s	23 7	10	Red round concrete structure; 18.	
9804 F 5340.6	Oseto No. "3" Range, front.	33° 55.0' N 130° 56.4' E	F.Y.	85 26	13	White round concrete tower, triangular topmark; 61.	
9808 F 5340.61	-Rear, 340 meters 059° from front.	33° 55.0' N 130° 56.5' E	F.Y.	138 42	13	White round concrete tower, triangular daymark; 42.	
9816 F 5347	Mozi Dairi, breakwater.	33° 54.6' N 130° 56.0' E	Fl.(2)R. period 6s	39 12	5	Red round concrete tower; 31.	
9820 F 5340.3	No. "2" Range, front.	33° 53.7' N 130° 55.3' E	F.Y.	66 20	13	White round concrete tower, triangular daymark; 60.	
9824 F 5340.31	-Rear, 140 meters 112° from front.	33° 53.9' N 130° 55.3' E	F.Y.	98 30	13	White round concrete tower, triangular daymark; 92.	
9836 F 5340	No. "1" Range, front.	33° 53.3' N 130° 54.9' E	F.Y.	131 40	17	White round concrete tower, triangular daymark; 59.	
9840 F 5340.1	-Rear, 260 meters 141° from front.	33° 53.2' N 130° 55.0' E	F.Y.	259 79	20	White cylindrical metal tower, triangular daymark; 38.	
9844 F 5345	Sunatu, breakwater.	33° 53.6' N 130° 53.6' E	Fl.R. period 5s	39 12	5	Red round concrete tower on square base; 36.	
9848 F 5344	Sunatu Fairway Range, front.	33° 53.3' N 130° 53.8' E	F.G.	30 9	10	White round concrete structure, arrowhead topmark; 28.	
9852 F 5344.1	-Rear, 780 meters 232°12' from front.	33° 53.1' N 130° 53.4' E	F.G.	46 14	12	White round concrete structure, arrowhead topmark; 42.	
9860 F 5339	Simonoseki, basin, breakwater.	33° 55.0' N 130° 54.1' E	F.Fl.(2)G. period 8s 2 fl. 3s, ec. 5s	33 10	F. 5 Fl 11	White round tower, quadrangular base; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (II)							
9864 F 5338.4	Arata, breakwater, head.	33° 55.3' N 130° 54.0' E	Oc.G. period 4s	43 13	12	White round concrete structure; 32.	
9868 F 5343.7	Kokura, detached breakwater.	33° 54.4' N 130° 53.2' E	F.FI.(3)R. period 12s	36 11	F. Fl.	8 11	Red tower; 30.
9872 F 5343	Hiagari, No. "1" breakwater.	33° 54.6' N 130° 52.8' E	Fl.(2)R. period 6s	39 12	5	Red tower; 31.	
9876 F 5343.4	--No. "2" breakwater.	33° 54.7' N 130° 52.7' E	Fl.R. period 4s	40 12	5	Red tower; 31.	
9880 F 5302	Sakai Kawa Mouth Basin, breakwater.	33° 54.3' N 130° 51.4' E	Iso.G. period 6s	30 9	6	White tower; 24.	
9888 F 5300	Tobata Koro Passage Range , front.	33° 55.1' N 130° 51.6' E	F.G.	82 25	15	White quadrangular metal framework tower, triangular topmark, point up; 79.	
9892 F 5300.1	-Rear, 63 meters 213° from front.	33° 55.1' N 130° 51.6' E	F.G.	102 31	15	White quadrangular metal framework tower, triangular topmark, point down; 98.	
9896 F 5301	-Seitetsu Tobata Range, front.	33° 54.8' N 130° 51.1' E	F.G.	59 18	13	White metal post, triangular topmark; 52.	
9900 F 5301.1	--Rear, 360 meters 246°18' from front.	33° 54.7' N 130° 50.9' E	F.G.	95 29	14	White triangular tower; 85.	
9912 F 5297	-Dokai Wan Entrance, breakwater.	33° 56.5' N 130° 51.0' E	Fl.R. period 6s	39 12	6	Red tower; 31.	
9916	-Passage, bridge.	33° 54.0' N 130° 49.1' E	F.W.	141 43	11		F.R. and F.G. lights mark either end of bridge.
9920 F 5335.6	Daiba Hana.	33° 56.8' N 130° 52.6' E	Fl.W. period 4s	75 23	14	White round brick tower; 36.	Visible 332°-065°. Tidal stream signals.
9924.5 F 5335.2	-Outer breakwater, E. side.	33° 57.3' N 130° 53.0' E	Fl.R. period 3s	30 9	6		
9928 F 5335.4	-E. breakwater, head.	33° 57.0' N 130° 53.1' E	Fl.G. period 3s	39 12	6	White tower; 31.	
9932 F 5337	Koseto Range, front.	33° 56.8' N 130° 54.7' E	F.Y.	66 20	13	White tower, white rectangular daymark; 29.	
9936 F 5337.1	-Rear, 57 meters 130° from front.	33° 56.8' N 130° 54.7' E	F.Y.	85 26	15	White tower, white rectangular daymark; 30.	
9940 F 5336	Taroga Se Hana.	33° 57.1' N 130° 54.3' E	Fl.W. period 3s	20 6	3	White tower; 29.	
9942 F 5334.5	Masima Ko.	33° 57.7' N 130° 51.4' E	Iso.G. period 8s	26 8	6	White tower; 19.	
9944 F 5334	Miture Sima.	33° 58.5' N 130° 52.2' E	Fl.W. period 10s	92 28	15	White round granite tower; 36.	Visible 140°-12°. Signal station.
9946 F 5334.2	-Breakwater, head.	33° 58.3' N 130° 52.2' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
9948 F 5332	Yasuoka Ko, breakwater.	34° 01.2' N 130° 54.7' E	Iso.G. period 6s	26 8	6	White tower; 19.	
9952 F 5326	Omozi Iwa.	34° 00.6' N 130° 48.7' E	Fl.W. period 3s	49 15	5	White tower; 49.	Visible 031°-330.
9953 F 5327.6	-Breakwater, head.	33° 59.6' N 130° 48.9' E	Fl.G. period 3s	30 9	5	White tower; 20.	
9954 F 5327.2	Ainosima Ko.	33° 59.5' N 130° 49.3' E	Fl.R. period 6s	33 10	7	Red tower; 19.	
9956 F 5327	Ainosima Ko, E. breakwater, head.	33° 59.2' N 130° 49.1' E	Fl.(2)G. period 6s	33 10	6	White tower; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (II)							
9960 F 5328	Sirasu.	33° 58.8' N 130° 47.6' E	Fl.W. period 4s	52 16	12	Round metal and stone structure, black and white bands; 56.	
9962 F 5324	Sirasima.	34° 01.1' N 130° 44.4' E	Mo.(U)W. period 12s	128 39	15	Oil storage seabirth.	Mo.(U)W. 12s 140 meters and 240 meters NNW., 160 meters and 260 meters SSW. Horn: Mo.(U) ev. 30s.
9962.2 F 5324.4	-S. breakwater.	34° 00.2' N 130° 43.9' E	Fl.G. period 4s	43 13	12	White tower; 36.	Horn: 1 bl. ev. 20s.
9962.4 F 5324.5	--Inner breakwater.	34° 00.2' N 130° 43.9' E	Fl.R. period 4s	26 8	9	Red mast; 16.	
9962.6 F 5324.7	-Outer breakwater, S. corner.	34° 00.2' N 130° 44.2' E	Fl.W. period 3s	59 18	10		
9962.8 F 5324.8	--N. corner.	34° 00.7' N 130° 44.4' E	Fl.W. period 5s	59 18	10		
JAPAN-SHIKOKU							
9964 F 5577.06	Izarki Ko.	33° 47.9' N 134° 40.3' E	Oc.R. period 4s	40 12	7	Red tower; 19.	
9983 F 5577.1	Yuki Ko, breakwater.	33° 47.1' N 134° 38.7' E	F.FI.(2)R. period 6s	46 14	F. Fl	6 12	Red tower; 31.
9984 F 5577.15	Breakwater, head.	33° 46.5' N 134° 36.7' E	Fl.R. period 5s	52 16	12	Red tower; 33.	
9988 F 5577.2	Yuki Ko, E. breakwater.	33° 46.0' N 134° 36.0' E	F.FI.R. period 3s	33 10	F. Fl	6 11	Red round concrete structure; 28.
9996 F 5578	-Kiki, E. breakwater.	33° 45.6' N 134° 34.5' E	Fl.R. period 4s	43 13	12	Red round concrete structure; 31.	
10000 F 5578.5	Asebino Hana.	33° 44.1' N 134° 33.9' E	Fl.W. period 5s	545 166	19	White tower; 39.	Visible 210°-091°.
10004 F 5578.8	Hiwasa Ko, N. breakwater.	33° 43.6' N 134° 32.7' E	F.FI.(2)R. period 10s 2 fl. 3s, ec. 7s	33 10	F. Fl	6 11	Red round concrete tower; 28.
10008 F 5579	Hiwasa Ko, N. Jetty.	33° 44.0' N 134° 33.0' E	Iso.R. period 6s	28 9	10	Red round concrete structure; 21.	
10012 F 5578.6	Hiwasa Ko, offing breakwater, N. head.	33° 43.6' N 134° 32.8' E	Fl.G. period 3s	43 13	8	White round concrete structure; 28.	
10016 F 5579.4	Mugi ko.	33° 39.6' N 134° 26.7' E	Fl.R. period 3s	49 15	12	Red tower; 32.	
10024 F 5579.6	-E. Breakwater.	33° 40.0' N 134° 25.0' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 36.	
10028 F 5579.7	-W. Breakwater.	33° 39.5' N 134° 25.4' E	Iso.W. period 6s	46 14	12	White round concrete structure; 31.	
10032 F 5581	Deba Jima.	33° 37.7' N 134° 25.6' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	279 85	20	White octagonal concrete structure; 36.	
10036 F 5581.1	-E. Breakwater, N. end of island.	33° 38.3' N 134° 25.3' E	Fl.G. period 3s	33 10	11	White round concrete structure.	
10040 F 5581.2	Asakawa Ko, E. breakwater.	33° 37.0' N 134° 22.0' E	F.FI.R. period 6s	43 13	F. Fl	6 12	Red round concrete tower; 33.
10044 F 5581.4	Tomoura, breakwater.	33° 35.3' N 134° 22.0' E	Fl.R. period 4s	39 12	11	Red round concrete tower; 31.	
10048 F 5581.6	Shishikui Ko, S. Breakwater.	33° 33.5' N 134° 18.9' E	F.FI.G. period 5s	36 11	F. Fl	5 11	White round concrete tower; 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10052 <i>F 5581.8</i>	Awa Take-ga-Sima.	33° 32.0' N 134° 18.0' E	Fl.W. period 8s	315 96	25	Round concrete structure, red and white bands; 43.	
10056 <i>F 5584</i>	Kannoura.	33° 32.4' N 134° 18.2' E	Iso.W. period 6s	138 42	18	White octagonal brick structure; 27.	Visible 211°-031°.
10060 <i>F 5584.3</i>	-N. breakwater.	33° 32.3' N 134° 18.5' E	Fl.G. period 3s	26 8	3	White tower; 16.	
10064 <i>F 5585</i>	-Hasu Bae.	33° 32.0' N 134° 19.0' E	Fl.R. period 5s	59 18	7	Red round concrete tower; 46.	
10065 <i>F 5585.3</i>	None Ko.	33° 29.6' N 134° 16.5' E	Fl.G. period 3s	43 13	5	White tower; 23.	
10066 <i>F 5585.65</i>	Sakihama.	33° 23.3' N 134° 13.1' E	Fl.G. period 3s	49 15	8	White tower; 32.	
10068 <i>F 5585.5</i>	Sakihama Range, front.	33° 23.0' N 134° 13.0' E	F.R.	49 15	12	White round concrete tower; 49.	
10072 <i>F 5585.6</i>	-Rear, 40 meters 237°36' from front.	33° 23.2' N 134° 12.8' E	Oc.W. period 8s Lt. 6s, ec. 2s	85 26	15	White round concrete tower; 23.	
10076 <i>F 5585.8</i>	Mitu Ko, N. breakwater.	33° 17.0' N 134° 11.0' E	F.FI.R. period 6s	43 13	F. 6 Fl 12	Red round concrete tower; 33.	
10080 <i>F 5585.7</i>	Shiina Ko, E. breakwater.	33° 19.0' N 134° 12.0' E	Iso.R. period 6s	49 15	12	Red round concrete tower; 33.	
10084 <i>F 5586</i>	Muroto Zaki.	33° 14.8' N 134° 10.5' E	Fl.W. period 10s	509 155	30	White round metal tower; 50.	Radiobeacon 741 meters N. DGPS Station 741 meters N.
RAMARK				22			
MUROTOMISAKI KO:							
10088 <i>F 5587</i>	-W. breakwater.	33° 15.6' N 134° 10.0' E	F.FIG. period 4s	46 14	F. 5 Fl 12	White tower; 36.	
10092 <i>F 5587.2</i>	-W. breakwater extension.	33° 15.6' N 134° 09.9' E	F.FI.R. period 4s	56 17	F. 8 Fl 13	Red round concrete structure; 43.	
10096 <i>F 5587.3</i>	-S. breakwater.	33° 15.6' N 134° 09.8' E	Fl.G. period 3s	56 17	10	White tower; 46.	
10098 <i>F 5587.4</i>	-Breakwater, head.	33° 15.5' N 133° 09.7' E	Fl.R. period 3s	66 20	11	Red tower; 52.	
TOSA WAN MUROTSU KO:							
10100 <i>F 5589</i>	-S. breakwater.	33° 16.9' N 134° 08.7' E	Fl.(2)R. period 6s	62 19	6	Red tower; 56.	
10104 <i>F 5590</i>	-N. jetty, S. head.	33° 17.0' N 134° 09.0' E	Iso.G. period 6s	36 11	11	White round concrete structure; 28.	
10108 <i>F 5591</i>	Hana Saki.	33° 22.1' N 134° 02.5' E	Fl.(2)W. period 20s	256 78	23	White square concrete tower; 36.	Visible 323°-171°.
10112 <i>F 5592.2</i>	Nahari Ko, breakwater, head.	33° 25.0' N 134° 01.0' E	Fl.R. period 3s	43 13	12	Red round concrete structure; 33.	
10116 <i>F 5592.3</i>	Nahari Ko.	33° 25.0' N 134° 01.0' E	Fl.G. period 3s	43 13	12	White tower; 31.	
10118 <i>F 5592.4</i>	-Nahari Ko.	33° 24.9' N 134° 00.9' E	Fl.(2)R. period 6s	56 17	9	Red tower; 28.	
10120 <i>F 5592.5</i>	To-No Hama.	33° 26.3' N 133° 58.0' E	Fl.W. period 4s	79 24	14	White round concrete tower; 55.	A F.W. light visible over an arc of 7° over coastal shoals.
10124 <i>F 5592.55</i>	Yasuda Ko.	33° 26.5' N 133° 57.5' E	Fl.R. period 5s	49 15	12	Red round concrete structure; 31.	F.W. floodlight 120 meters WNW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10128 <i>F 5592.6</i>	Aki Ko, E. breakwater.	33° 29.7' N 133° 53.4' E	Iso.R. period 4s	42 13	12	Red tower; 32.	
10132 <i>F 5592.8</i>	Sumiyosi Ko, E. breakwater.	33° 31.0' N 133° 46.0' E	Fl.R. period 3s	49 15	12	Red round concrete structure; 31.	
10136 <i>F 5593</i>	Tei Saki.	33° 31.0' N 133° 46.0' E	Oc.W. period 6s lt. 4s, ec. 2s	95 29	15	White round concrete tower; 39.	
10140 <i>F 5593.2</i>	Tei Ko, breakwater.	33° 31.4' N 133° 45.3' E	Fl.(2)R. period 6s	49 15	6	Red tower; 28.	
10142 <i>F 5593.3</i>	Akaoka Ko, breakwater.	33° 31.9' N 133° 43.5' E	Fl.(2)G. period 6s	36 11	3	White tower; 16.	
10144 <i>F 5593.4</i>	Kochi (Koti)	33° 31.9' N 133° 41.9' E	Fl.R. period 3s	49 15	12	Red tower; 32.	
10148 <i>F 5593.5</i>	Kochi (Koti) AVIATION LIGHT.	33° 32.7' N 133° 40.7' E	Al.Fl.W.G. period 4.3s	72 22		Metal framework tower; 52.	
KOCHI KO:							
10150 <i>F 5595.2</i>	-Outer breakwater.	33° 29.9' N 133° 35.6' E	Fl.G. period 4s	33 10	6	White tower; 18.	
10151 <i>F 5595.25</i>	--W. head.	33° 29.8' N 133° 35.2' E	Fl.R. period 4s	39 12	6	Red tower; 18.	
10152 <i>F 5594</i>	-Ryuzu Saki.	33° 30.0' N 133° 35.0' E	Fl.W. period 5s	164 50	19	White round concrete structure; 49.	Visible 222°30'-063°.
10154 <i>F 5595.3</i>	-No. "1" breakwater.	33° 30.2' N 133° 35.2' E	Fl.R. period 3s	39 12	6	Red tower; 9.	
10156 <i>F 5595</i>	-Breakwater, S. side of harbor entrance.	33° 29.9' N 133° 35.1' E	Iso.G. period 6s	52 16	8	White square metal framework tower; 36.	
10160 <i>F 5594.8</i>	-Tanezaki, breakwater.	33° 30.1' N 133° 34.6' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 33.	F.W., F.R. and F.G. mark bridge 790 meters S.W.
10172 <i>F 5595.6</i>	-Urado Training Wall	33° 29.7' N 133° 34.1' E	Oc.G. period 4s	36 11	11	White round concrete structure; 28.	
10176 <i>F 5595.7</i>	-Nagahama Training Wall.	33° 29.8' N 133° 33.7' E	Fl.G. period 3s	33 10	11	White round concrete structure; 28.	
10180 <i>F 5595.74</i>	-Mimase, S. breakwater, head.	33° 30.0' N 133° 33.6' E	Fl.(2)G. period 6s	33 10	11	White round concrete structure; 28.	
10184 <i>F 5595.8</i>	-Mimase.	33° 30.2' N 133° 33.7' E	Iso.G. period 4s	27 8	6	White tower; 22.	
10188 <i>F 5596.3</i>	Shirono Hana.	33° 25.6' N 133° 27.9' E	Iso.W. period 6s	187 57	20	White square concrete tower; 25.	
10190 <i>F 5596.25</i>	Usa Ko.	33° 26.5' N 133° 27.6' E	Fl.(2)R. period 6s	43 13	9	Red tower; 31.	
10192 <i>F 5596.2</i>	Usa Ko, training wall, 2.2 km. 323° from Shirano Hana.	33° 26.7' N 133° 27.2' E	Fl.G. period 3s	36 11	8	White round concrete tower; 31.	
10196 <i>F 5596.4</i>	Yamazaki Hana.	33° 22.7' N 133° 17.8' E	Fl.(3)W. period 13s	223 68	17	White round concrete square base tower; 36.	F.W. illuminates beacon on Uka Hae 160 meters NW.
10198 <i>F 5596.46</i>	-Breakwater, head.	33° 22.9' N 133° 17.1' E	Fl.G. period 5s	39 12	6	White tower; 19.	
10200 <i>F 5596.44</i>	Susaki Ko, Hama-Tyo, breakwater.	33° 23.0' N 133° 18.0' E	Fl.G. period 3s	36 11	11	White roundl concrete structure; 31.	
10204 <i>F 5596.5</i>	Issh Hae.	33° 19.0' N 133° 19.0' E	Fl.(2)W. period 5s	69 21	12	ISOLATED DANGER BRB, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10208 <i>F 5596.6</i>	Hutana Shima.	33° 19.0' N 133° 15.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	115 35	16	White round concrete tower; 31.	Floodlights shown on rocks close SSE.
10210 <i>F 5596.7</i>	Kure Ko, breakwater, head.	33° 19.4' N 133° 14.2' E	Fl.R. period 3s	42 13	12		
10212 <i>F 5597</i>	Kaminokae Ko, E. entrance, breakwater, head.	33° 16.6' N 133° 15.0' E	Fl.G. period 3s	31 9	11	White round concrete tower; 27.	
10216 <i>F 5598.1</i>	Urabun Ko, breakwater.	33° 09.5' N 133° 13.4' E	Fl.R. period 5s	43 13	6	Red tower; 31.	
10220 <i>F 5598.15</i>	Okitu Saki, WNW.	33° 09.5' N 133° 12.5' E	F.Fl.R. period 3s	46 14	F. Fl.	6 Red round concrete tower; 33. 12	
10224 <i>F 5598</i>	Okitsu Saki.	33° 09.0' N 133° 13.0' E	Fl.(2)W. period 15s 2 fl. 4s, ec. 11s	614 187	33	White octagonal concrete tower; 46.	Visible 204°-043°.
10228 <i>F 5598.3</i>	Saga, Ko Groin.	33° 04.5' N 133° 07.2' E	Fl.(2)G. period 6s	66 20	7	White tower; 39.	
10234 <i>F 5598.25</i>	-S.	33° 04.0' N 133° 06.9' E	Fl.G. period 3s	62 19	8	White concrete structure; 43.	
10236 <i>F 5599</i>	Kamikawaguchi Ko.	33° 02.0' N 133° 03.8' E	Iso.W. period 6s	121 37	17	White tower; 29.	F.W. illuminates obstruction close by.
10240 <i>F 5599.2</i>	-N. breakwater.	33° 02.1' N 133° 03.6' E	Iso.G. period 6s	33 10	11	White tower; 31.	
10244 <i>F 5599.4</i>	Tanoura Ko.	32° 59.6' N 133° 00.6' E	Fl.(3)W. period 13s	52 16	13	White round tower; 31.	
10246 <i>F 5599.6</i>	-Tanoura.	32° 59.7' N 133° 00.6' E	Oc.G period 4s	26 8	6	White tower; 19.	
10248 <i>F 5599.3</i>	-Nakamura.	33° 00.4' N 133° 00.9' E	Fl.R. period 3s	52 16	13	Red tower; 35.	F.W. spotlight marks shoal 220 meters SSE.
10252 <i>F 5598.5</i>	Inomino Misaki.	33° 01.0' N 133° 06.0' E	Fl.(2)W. period 8s	144 44	18	White tower; 36.	
10256 <i>F 5598.7</i>	Ida Ko, breakwater.	33° 02.0' N 133° 05.0' E	Fl.G. period 4s	36 11	11	White round concrete structure; 31.	F.W. illuminates Oki no Hiraso about 140 meters SW.
10258 <i>F 5600.2</i>	Tosasimoda Ko.	32° 55.8' N 132° 59.4' E	Fl.R. period 3s	28 9	7	Red concrete structure; 18.	
10260 <i>F 5600</i>	Nishi Michi Saki.	32° 56.0' N 133° 00.0' E	Fl.W. period 4s	131 40	17	White tower; 43.	F.W. illuminates head of training wall 160 meters N.
10264 <i>F 5601</i>	Nuno Zaki.	32° 51.7' N 133° 59.8' E	Fl.W. period 5s	190 58	20	White round concrete tower; 33.	
10266 <i>F 5601.3</i>	Simonokae Ko.	32° 51.5' N 132° 57.9' E	Fl.G. period 3s	46 14	5	White concrete structure; 36.	
10270 <i>F 5601.9</i>	Iburi Ko.	32° 48.2' N 132° 58.0' E	Fl.(2)G. period 6s	49 15	5	White tower; 33.	
10272 <i>F 5601.8</i>	Iburi Ko, breakwater.	32° 48.1' N 132° 58.0' E	Fl.G. period 5s	46 14	3	White tower; 31.	
10273 <i>F 5601.7</i>	Kuboto Ko.	32° 47.1' N 133° 00.0' E	Fl.G. period 3s	46 14	12	White round tower; 34.	
10276 <i>F 5601.6</i>	Kubotsu Zaki.	32° 47.0' N 133° 00.3' E	Fl.W. period 15s	167 51	19	White round concrete structure; 36.	Visible 118°-329°. Auxiliary light illuminates Yusuga Bae about 440 meters ENE.
10284 <i>F 5602</i>	Ashizuri Zaki.	32° 43.2' N 133° 01.4' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	200 61	20	White square concrete tower; 59.	Visible 201°-091°. Auxiliary light illuminates Kogane Bae about 410 meters S.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10286 <i>F 5602.4</i>	Asizuri Misaki, on point.	32° 43.1' N 133° 00.6' E	Fl.R. period 3s	52 16	12	Red tower; 31.	
10288 <i>F 5603</i>	Usu-bae Saki.	32° 43.0' N 132° 59.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	167 51	19	White octagonal concrete structure; 31.	An auxiliary F.W. illuminates the rock about 210 meters SSW.
10292 <i>F 5607.3</i>	Asizuri Ko, W. breakwater.	32° 47.0' N 132° 56.0' E	Iso.G. period 6s	52 16	12	White round concrete structure; 33.	
10296 <i>F 5604</i>	Tosa Shimizu.	32° 45.8' N 132° 57.0' E	Fl.W.R. period 4s	151 46	18	White square concrete tower; 42.	R. 021°-084°, W. elsewhere.
10300 <i>F 5607</i>	Tosa-Shimizu Ko, breakwater.	32° 46.6' N 132° 56.6' E	Fl.R. period 3s	43 13	9	Red tower; 33.	
10304 <i>F 5605</i>	-Hira Bae, breakwater, about 1061 meters 164°30' from Maki Yama.	32° 45.7' N 132° 57.3' E	Iso.R. period 4s	43 13	12	Red round concrete tower; 31.	
10308 <i>F 5606</i>	-Tobi Shima, breakwater.	32° 46.2' N 132° 57.3' E	F.FI.G. period 5s	39 12	F. Fl	5 12	White tower; 28.
10310 <i>F 5607.5</i>	Chihiro Saki, 2.6 km NNW.	32° 47.2' N 132° 51.9' E	Fl.G. period 5s	29 9	5	White concrete tower; 18.	
10312 <i>F 5608</i>	Kano (Kanai) Saki.	32° 45.0' N 132° 48.0' E	Fl.W. period 5s	131 40	17	White octagonal brick tower; 27.	Visible 216°-098°.
10316 <i>F 5608.4</i>	Kosaitsono Ko, breakwater.	32° 45.2' N 132° 47.2' E	Iso.G. period 4s	52 16	12	White round concrete structure; 31.	
10320 <i>F 5608.7</i>	Komame Saki.	32° 46.9' N 132° 42.0' E	Fl.W. period 4s	298 91	20	White round concrete structure; 39.	
10324 <i>F 5610.12</i>	Okino Shima, N. point.	32° 45.0' N 132° 32.9' E	Fl.W. period 3s	211 64	14	White concrete structure; 33.	
10328 <i>F 5609.7</i>	Tosa-Moshima Ko, outer breakwater, head.	32° 44.1' N 132° 32.9' E	F.FI.R. period 3s	52 16	F. Fl	6 12	Red round concrete structure; 31.
10330 <i>F 5610.17</i>	Uguru Sima.	32° 48.0' N 132° 30.0' E	Iso.W. period 8s	354 108	17	White concrete structure; 31.	
10332 <i>F 5610</i>	Kushiga Hana.	32° 42.1' N 132° 32.8' E	Fl.(2)W. period 30s	571 174	32	White square concrete tower; 49.	Visible 240°-170°30'.
10336 <i>F 5609.5</i>	Kashiwa Jima.	32° 46.0' N 132° 37.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	512 156	20	White round concrete tower; 36.	
10340 <i>F 5609</i>	Kashiwa Jima Ko, entrance.	32° 46.2' N 132° 37.9' E	Iso.R. period 4s	46 14	12	Red round concrete tower; 33.	

JAPAN-SHIKOKU AND KYUSHU

UWAJIMA KO:

10344 <i>F 5619</i>	-Breakwater.	33° 13.4' N 132° 33.2' E	Iso.G. period 6s	26 8	6	White tower; 18.	
10348 <i>F 5619.2</i>	-W. breakwater.	33° 13.4' N 132° 32.8' E	Fl.R. period 5s	33 10	11	Red tower; 28.	
10352 <i>F 5621</i>	Yamashita Suido.	33° 16.3' N 132° 28.7' E	Oc.R. period 4s lt. 3s, ec. 1s	32 10	11	Red round concrete tower; 25.	
10356 <i>F 5618</i>	-Doga Saki.	33° 12.8' N 132° 31.1' E	Fl.W. period 4s	92 28	15	Red round concrete tower; 25.	
10358 <i>F 5618.2</i>	Kusima Ko, breakwater.	33° 13.1' N 132° 31.6' E	Fl.R. period 3s	23 7	4	Red concrete structure; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10360 <i>F 5616.4</i>	Bozu Bae.	33° 12.4' N 132° 28.7' E	Mo.(A)G. period 8s	33 10	5	Black round concrete tower; 26.	
10368 <i>F 5616.2</i>	Miti Shimi, No. "1" breakwater.	33° 12.7' N 132° 26.5' E	Fl.(2)R. period 3s	26 8	3	Red round concrete structure; 31.	
10372 <i>F 5623</i>	Sa Shima, on island off entrance to Yawatahama Ko.	33° 26.0' N 132° 22.0' E	Fl.W. period 3s	190 58	12	White round concrete structure; 31.	
10376 <i>F 5623.4</i>	Zeku Iwa.	33° 26.3' N 132° 23.1' E	Mo.(A)R. period 8s	43 13	10	STARBOARD (B) R, beacon, topmark; 30.	
10378 <i>F 5623.5</i>	Yawatahama Ko, breakwater.	33° 27.2' N 132° 24.5' E	Oc.G. period 4s	36 11	11	White tower; 28.	
10380 <i>F 5623.6</i>	Muroga Hana.	33° 28.0' N 132° 21.0' E	Iso.W. period 6s	102 31	16	White round concrete structure; 39.	
10384 <i>F 5624.5</i>	Taka Bae.	33° 27.0' N 132° 19.1' E	Oc.(2)W. period 8s	210 64	21	White round concrete structure; 39.	
10388 <i>F 5622.7</i>	Ko Sima.	33° 22.4' N 132° 22.2' E	Fl.W. period 5s	39 12	12	White round concrete structure; 36.	
10390	Mikame Ko, jetty, head.	33° 22.0' N 132° 24.4' E	Iso.G. period 4s	27 8	6	White round tower; 19.	
10392 <i>F 5622.4</i>	Okuti Wan, on Island.	33° 20.5' N 132° 22.8' E	Fl.(3)W. period 14s 3 fl. 4s, ec. 10s	125 38	9	White round concrete tower; 28.	
10396 <i>F 5622.5</i>	-S. breakwater, head.	33° 20.0' N 132° 23.0' E	Fl.G. period 3s	40 12	5	White round concrete structure; 31.	
10400 <i>F 5622</i>	Osaki Hana.	33° 19.0' N 132° 22.5' E	Fl.W. period 5s	351 107	20	White quadrangular concrete tower; 28.	F.W. light illuminates Sanzo Bay about 830 meters SW.
10404 <i>F 5621.4</i>	Iyo, Mitsuko Sima.	33° 18.0' N 132° 29.0' E	Fl.W. period 5s	52 16	12	White round concrete structure; 27.	
10408 <i>F 5620</i>	Ora Saki.	33° 15.0' N 132° 28.0' E	Iso.W. period 6s	98 30	16	White round concrete tower; 36.	
10412 <i>F 5619.4</i>	Hikide Hana.	33° 15.0' N 132° 32.0' E	Oc.W. period 4s	49 15	12	White round concrete structure; 43.	
10416 <i>F 5616</i>	Hosoki Unga, N. entrance, W. side.	33° 12.2' N 132° 24.6' E	F.Fl.(3)R. period 13s	36 11	F. 6 Fl 11	Red round concrete structure; 28.	
10420 <i>F 5614.4</i>	Otoshibana.	33° 11.6' N 132° 25.3' E	Mo.(A)G. period 8s	33 10	5	White round concrete tower; 26.	
10424 <i>F 5615.6</i>	Uwa Ka Shima.	33° 13.6' N 132° 21.8' E	Iso.W. period 6s	423 129	20	White quadrangular concrete structure; 32.	
10428 <i>F 5615</i>	Oko Shima.	33° 12.3' N 132° 23.5' E	Fl.W. period 3s	200 61	17	White round concrete tower; 28.	
10430 <i>F 5614.9</i>	To Sima.	33° 12.0' N 132° 22.1' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
10432 <i>F 5614.8</i>	Honura Ko, S. breakwater.	33° 11.8' N 132° 21.8' E	Fl.(2)G. period 6s	26 8	6	White tower; 18.	
10436 <i>F 5614.5</i>	Hiburi Shima.	33° 10.0' N 132° 16.2' E	Fl.(2)W. period 20s	410 125	27	White quadrangular concrete tower; 33.	
10440 <i>F 5614.34</i>	Noto Saki, on Aka Bae.	33° 09.1' N 132° 25.6' E	Fl.(3)W. period 13s	52 16	13	Round concrete tower, red and white bands; 29.	
10444 <i>F 5614.2</i>	Sho-no-Shima.	33° 07.4' N 132° 26.7' E	Fl.W. period 4s	33 10	9	White round concrete tower; 26.	
10448 <i>F 5614.3</i>	Nanatsu Bae.	33° 07.5' N 132° 29.9' E	Iso.G. period 6s	36 11	11	White round concrete tower; 28.	
10452 <i>F 5614.1</i>	Iyo, Takega Shima.	33° 06.0' N 132° 25.0' E	Fl.(4)W. period 16s	108 33	16	White round concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10456 F 5614	Suge Zaki.	33° 04.0' N 132° 25.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	36 11	17	White tower; 43.	
10464 F 4912	Mizunoko Shima.	33° 02.4' N 132° 10.8' E	Fl.W. period 10s	184 56	20	Round stone tower, black and white bands; 28.	
	RACON		(-----)		9		
10465 F 5625.6	Sadamisaki Ko, No. "1" breakwater.	33° 21.6' N 132° 03.2' E	F.FI.G. period 6s	46 14	F. Fl	5 12	White round concrete tower; 31.
10465.5 F 5625.2	-Inoura, breakwater.	33° 22.3' N 132° 06.5' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 30.	
10466 F 5625	Iyo Misaki Ko, No. "1" breakwater.	33° 23.1' N 132° 07.3' E	F.FI.R. period 4s	39 12	F. Fl	6 11	Red round concrete tower; 28.
10468 F 5613	Yurano Hana.	33° 00.9' N 132° 23.2' E	Fl.W. period 5s	305 93	12	White square tower, 29.	
10472 F 5612.5	Funakoshi Canal, N. entrance.	33° 03.0' N 132° 26.0' E	Iso.G. period 6s	33 10	11	White round concrete tower; 28.	
10476 F 5612.3	Sioko Shima Kuro Bae.	33° 01.0' N 132° 28.0' E	Fl.W. period 3s	62 19	12	White round structure; 56.	
10480 F 5612.2	Kogai Bae.	32° 59.6' N 132° 30.0' E	Fl.(2)W. period 8s	43 13	5	White tower; 36.	
10484 F 5612.14	Hirazyo Byoti.	32° 58.2' N 132° 30.4' E	Iso.W. period 6s	43 13	12	White round concrete structure; 36.	
10488 F 5612.1	Ka Shima.	32° 56.5' N 132° 27.6' E	Fl.W. period 4s	118 36	16	White round concrete structure; 36.	
10492 F 5612	Komo Saki.	32° 54.2' N 132° 28.7' E	Fl.W. period 7s	466 142	20	White round concrete tower; 20.	
10496 F 5611.4	Iyo, Fukuura Ko, breakwater.	32° 55.1' N 132° 30.0' E	Fl.G. period 3s	25 8	6	White tower; 18.	
10500 F 5611.3	-Breakwater, head.	32° 57.0' N 132° 30.0' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 31.	
10504 F 5611	Tengi Hana.	32° 55.6' N 132° 34.2' E	Oc.W. period 8s lt. 6s, ec. 2s	241 73	20	White round tower; 25.	Auxiliary light illuminates beacon on Shira Ishi, about 800 meters SE.
10508 F 5611.2	Iyo Fukaura Ko, Ninobae Hana.	32° 56.3' N 132° 35.2' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	31 9	10	White tower; 25.	
10512 F 5610.5	Ikeno Jima.	32° 55.0' N 132° 41.0' E	Iso.W. period 6s	190 58	17	White round concrete tower; 29.	
10514	-O Sima.	32° 54.9' N 132° 41.4' E	Fl.(2)R. period 6s	39 12	6	Red tower; 28.	
10516 F 5610.4	Tosa, Nagasaki Bana.	32° 53.5' N 132° 42.5' E	Fl.(3)W. period 13s	230 70	20	White round concrete tower; 31.	F.W. floodlight illuminates Siro Bae.
10520 F 5610.2	Sira Saki.	32° 51.0' N 132° 39.6' E	Fl.W. period 4s	184 56	20	White octagonal concrete tower; 31.	F.W. floodlight marks Ko Jima to the N.
10524 F 4922	Takago Iwa.	33° 06.6' N 132° 01.8' E	Fl.W. period 3s	62 19	13	White round concrete tower; 28.	
10526 F 4923.3	Hodosima Ko.	33° 06.4' N 132° 00.6' E	Iso.G. period 6s	30 9	6	White concrete structure; 19.	
10528 F 4923	Hoto Shima Ko.	33° 06.6' N 132° 00.5' E	Fl.G. period 3s	43 13	12	White tower; 33.	
10532 F 4924	Hoto Shima Ko, breakwater, head.	33° 05.7' N 132° 00.3' E	Iso.G. period 6s	29 9	6	White round concrete structure; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10534	Tukumi Ko.	33° 04.0' N 131° 59.4' E	Iso.G. period 6s	27 8	6	White tower; 19.	
10535 F 4927.5	Youra Ko.	33° 03.5' N 131° 58.4' E	Fl.R. period 3s	28 9	6	Red tower; 19.	
10536 F 4928	Tsukumi Siraishi.	33° 06.3' N 131° 56.5' E	Fl.(2)W. period 5s	39 12	11	ISOLATED DANGER BRB, beacon, topmark; 30.	
10538 F 4928.5	Akae Ko, breakwater.	33° 05.2' N 131° 56.0' E	Fl.G. period 5s	26 8	5	White concrete structure; 18.	
TSUKUMI KO:							
10548 F 4930	-Detached breakwater.	33° 04.5' N 131° 52.0' E	Fl.G. period 3s	39 12	10	Green tower; 29.	
10552 F 4929	-Chinu Saki.	33° 05.1' N 131° 53.2' E	Iso.G. period 4s	36 11	11	White round concrete tower; 28.	
10556 F 4938.3	-Tomariganti.	33° 07.3' N 131° 55.0' E	Fl.W. period 4s	239 73	12	White round metal tower; 33.	
10558 F 4939	-Kusuya Saki.	33° 07.2' N 131° 49.7' E	Fl.(2)G. period 5s	29 9	5	White tower; 18.	
10560 F 4940	Usuki Ko, breakwater, E. head.	33° 07.6' N 131° 48.9' E	Fl.R. period 3s	26 8	9	Red tripod on round base; 23.	
10564 F 4941	-Breakwater, head.	33° 07.0' N 131° 49.0' E	Oc.G. period 8s lt. 6s, ec. 2s	39 12	11	White tower; 31.	
10568 F 4943	-Shitanoe.	33° 09.0' N 131° 50.0' E	Oc.W. period 8s lt. 6s, ec. 2s	69 21	14	White round concrete structure; 28.	
10570 F 4943.5	-Shitanoe Ko.	33° 10.4' N 131° 50.2' E	Fl.G. period 3s	25 8	5	White tower; 18.	
SAIKI WAN:							
10572 F 4916	-Takega Shima.	32° 59.0' N 131° 59.0' E	Fl.W. period 5s	125 38	12	White round concrete tower, square base; 23.	
10574 F 4921	-Breakwater, head.	33° 02.9' N 131° 56.1' E	Iso.R. period 6s	36 11	11	Red tower; 28.	
10576 F 4917	-Motsura Ko, N. breakwater.	32° 56.7' N 131° 58.0' E	F.Fl.G. period 6s	36 11	F. 5 Fl. 11	White round concrete tower; 28.	
10578 F 4917.5	-Breakwater, head.	32° 56.9' N 131° 57.5' E	Fl.R. period 3s	26 8	6	Red concrete tower; 19.	
10580 F 4918	-Todo Hana, summit off SE. point of Onyu Shima.	32° 58.6' N 131° 55.6' E	Oc.W. period 8s	75 23	14	White tower; 33.	
10584 F 4920.4	-E. Training Wall.	32° 58.5' N 131° 54.8' E	Fl.R. period 4s	36 11	9	Red round concrete tower; 31.	
10586 F 4920.5	-Breakwater, head.	32° 58.5' N 131° 54.8' E	Fl.G. period 4s	26 8	6	White tower; 19.	
10588 F 4920.2	-W. Training Wall, head.	32° 58.5' N 131° 54.5' E	Fl.(2)G. period 7s	36 11	5	White tower; 28.	
10592 F 4920	-Saeki Ko, Katsura, N. breakwater.	32° 58.6' N 131° 54.6' E	Fl.(2)R. period 7s	36 11	6	Red tower; 27.	
10594 F 4913.5	-O Sima, W. side.	32° 58.1' N 132° 04.6' E	Oc.R. period 8s	28 9	7	Red concrete structure; 19.	
10596 F 4914	Bungo, O Shima, W. breakwater.	32° 57.8' N 132° 04.5' E	Iso.G. period 6s	29 9	6	White round concrete tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10600 <i>F 4913</i>	Sakino Se.	32° 58.0' N 132° 06.2' E	Fl.W. period 4s	14 43	14 24.	White round concrete structure;	
10604 <i>F 4910</i>	Motonoma Kaikyo.	32° 56.8' N 132° 04.4' E	Fl.(2)W. period 5s	39 12	9	ISOLATED DANGER BRB, beacon, topmark; 39.	

Section 7

Kyushu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10608 F 4909.8	Turumi Saki.	32° 55.8' N 132° 05.1' E	Fl.W. period 8s	646 197	23	White round concrete tower; 46.	
10610 F 4909.1	Yonozu Hakuti.	32° 53.8' N 131° 59.9' E	Fl.W. period 4s	56 17	13	White tower; 31.	
10612 F 4909.2	Iromiya Ko, N. breakwater.	32° 53.3' N 131° 59.7' E	Iso.G. period 6s	43 13	12	White round concrete tower; 31.	
10613 F 4909.3	-S. breakwater.	32° 53.3' N 131° 59.4' E	Fl.G. period 3s	26 8	6	White tower; 18.	
10614 F 4909.4	-Breakwater.	32° 53.4' N 131° 59.4' E	Iso.R. period 8s	26 8	7	Red tower; 19.	
10616 F 4909.6	Urashiro Ko, W. breakwater.	32° 55.1' N 131° 58.8' E	Iso.G. period 6s	36 11	6	White round concrete tower; 31.	
10620 F 4909	Oki Kuro Sima.	32° 52.6' N 132° 02.2' E	Fl.W. period 3s	262 80	12	White tower; 30.	
10624 F 4908	Kamae Ko.	32° 47.0' N 131° 55.9' E	Fl.W. period 5s	42 13	12	White tower; 33.	
10628 F 4908.4	-Breakwater.	32° 47.4' N 131° 55.5' E	F.FI.R. period 3s	39 12	F. 6 Fl. 11	Red round concrete structure, quadrangular base; 31.	
10630 F 4908.6	-N. breakwater, head.	32° 51.0' N 131° 57.3' E	Fl.G. period 3s	26 8	5	White concrete tower; 19.	
10632 F 4906	Huka Se.	32° 42.7' N 131° 55.8' E	Fl.W. period 5s	292 89	20	White round concrete tower; 32.	
10636 F 4907	Maruitibi Ko, breakwater.	32° 47.1' N 131° 52.7' E	F.FI.G. period 6s	46 14	F. 5 Fl. 12	White round tower on quadrangular base; 28.	
10638 F 4907.5	Yakata Sima, breakwater.	32° 46.7' N 131° 54.6' E	Fl.(2)R. period 6s	27 8	6	Red concrete structure; 19.	
10640 F 4905.4	Furue Ko, Miyano Ura, breakwater.	32° 41.0' N 131° 50.0' E	F.FI.(2)R. period 8s 2 fl. 3s, ec. 5s	39 12	F. 6 Fl. 11	Red round tower on quadrangular base; 29.	
10644 F 4904.6	-Aso, breakwater.	32° 40.9' N 131° 48.7' E	F.FI.R. period 3s	39 12	F. 6 Fl. 11	Red round concrete structure; 31.	
10648 F 4904	Shimanoura Shima.	32° 39.7' N 131° 49.4' E	Fl.(2)W. period 7s	630 192	20	White tower; 26.	
10650 F 4904.2	Gozyo Se.	32° 39.3' N 131° 48.6' E	Fl.W. period 4s	89 27	12	White tower; 36.	
10652 F 4904.8	-Kitaura Ko, approach.	32° 40.4' N 131° 49.0' E	Fl.W. period 3s	56 17	12	White round concrete structure; 43.	
10656 F 4904.4	-Shimanoura Ko, S. breakwater.	32° 40.0' N 131° 49.0' E	Iso.R. period 6s	33 10	11	Red round concrete structure; 27.	
10660 F 4904.5	--N. breakwater.	32° 39.9' N 131° 48.7' E	Iso.G. period 6s	39 12	6	White tower; 32.	
10664 F 4905	-Kitaura Ko Itiburi, breakwater.	32° 42.0' N 131° 50.0' E	Iso.R. period 6s	31 9	11	Red round concrete structure; 25.	
10668 F 4904.9	--Inner breakwater.	32° 42.0' N 131° 49.0' E	Fl.R. period 4s	43 13	9	Red tower; 32.	
10672 F 4903.7	Urashiro, breakwater, head.	32° 38.0' N 131° 46.0' E	Iso.R. period 4s	39 12	11	Red round concrete structure; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10676 <i>F 4903.6</i>	Minamiura Ko, Yasui, N. breakwater.	32° 36.4' N 131° 45.4' E	Fl.G. period 3s	46 14	12	White metal framework structure; 31.	
10680 <i>F 4903</i>	Simake Bae.	32° 35.4' N 131° 46.6' E	Fl.(2)W. period 5s	69 21	9	ISOLATED DANGER BRB, beacon, topmark; 59.	
10684 <i>F 4902</i>	Tomi, on N. side of mouth of Kita Kawa.	32° 35.3' N 131° 43.1' E	Iso.W. period 6s	32 10	11	White round concrete structure; 28.	
10688 <i>F 4900</i>	Nobeoka Shinko, N. breakwater, N. light.	32° 31.4' N 131° 42.0' E	Fl.(2)G. period 6s	59 18	8	White round concrete structure; 36.	
10692 <i>F 4900.94</i>	Nobeoka Sinko, N. breakwater S.	32° 31.0' N 131° 42.0' E	Fl.(2)R. period 6s	46 14	9	Red round concrete structure; 31.	
10696 <i>F 4900.7</i>	-Range No. "2", front.	32° 30.6' N 131° 40.5' E	F.R.	49 15	8	White round concrete tower, triangular daymark; 17.	
10700 <i>F 4900.8</i>	--Rear, about 60 meters 201° from front.	32° 30.6' N 131° 40.5' E	F.R.	66 20	8	White round concrete tower, triangular daymark; 20.	
10704 <i>F 4900.2</i>	-Breakwater.	32° 30.6' N 131° 41.3' E	F.FI.R. period 3s	39 12	F. Fl	6 11	Red quadrangular metal structure; 36.
10708 <i>F 4898.6</i>	Biro Jima.	32° 28.0' N 131° 44.0' E	Fl.W. period 3s	282 86	12	White round concrete structure; 39.	
10712 <i>F 4897</i>	Nabe Saki.	32° 28.0' N 131° 41.9' E	Fl.(4)W. period 15s	125 38	17	White tower; 32.	
OZUE WAN:							
10716 <i>F 4898</i>	-Ikui Bae.	32° 27.0' N 131° 42.0' E	Fl.R. period 3s	49 15	9	White round concrete structure; 33.	
10720 <i>F 4899.7</i>	--Approach light.	32° 28.1' N 131° 40.7' E	Fl.(2)R. period 6s	52 16	9	Red tower; 36.	
10724 <i>F 4899</i>	-Kadokawa Ko, S. breakwater.	32° 28.0' N 131° 39.8' E	Iso.G. period 4s	36 11	6	White round concrete structure, quadrangular base; 25.	
10732 <i>F 4899.4</i>	--Iorikawa, breakwater.	32° 28.4' N 131° 40.2' E	Iso.R. period 6s	46 14	7	Red tower; 28.	
10736 <i>F 4896</i>	Hososhima Ko.	32° 25.2' N 131° 41.3' E	AI.FI.W.G. period 10s	331 101	25	White round concrete tower; 36.	Two F.W. lights (horiz.) visible 5 miles show from head and middle of pier.
RAMARK							
10740 <i>F 4898.7</i>	-Breakwater, N. head.	32° 27.0' N 131° 40.6' E	Iso.G. period 6s	56 17	8	White tower; 36.	
10744 <i>F 4896.4</i>	-Basin, breakwater.	32° 25.0' N 131° 40.0' E	F.W.	26 8	9	White round metal structure; 19.	
10748 <i>F 4894</i>	Mimitsu Ko, Tatsugami Bae, S. head.	32° 19.0' N 131° 37.0' E	Fl.W. period 4s	75 23	12	White octagonal concrete tower; 56.	
10752 <i>F 4893</i>	Tsuno Ko, S. breakwater.	32° 14.8' N 131° 34.6' E	Iso.G. period 6s	39 12	11	White quadrangular metal framework structure; 27.	
10756 <i>F 4892.6</i>	Kawanami Ko, S. breakwater.	32° 10.0' N 131° 33.0' E	F.FI.G. period 6s	36 11	F. Fl	5 11	White round tower on square base; 28.
10760 <i>F 4890</i>	Tonda.	32° 04.0' N 131° 30.0' E	Fl.W. period 15s	210 64	21	White round concrete tower; 31.	Visible 199°-019°.
10762 <i>F 4889.2</i>	Miyazaki, N. breakwater.	31° 54.9' N 131° 28.6' E	Fl.(2)R. period 6s	43 13	12	Red tower; 36.	
10763 <i>F 4889.4</i>	-S. breakwater.	31° 55.3' N 131° 29.1' E	Fl.(2)G. period 6s	52 16	11	White tower; 20.	
10764 <i>F 4889</i>	Miyazaki, AVIATION LIGHT.	31° 52.0' N 131° 26.0' E	AI.FI.W.G. period 4.3s	72 22			Metal framework tower.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10766 F 4886.5	Yonkoken Miyazaki Ko.	31° 49.1' N 131° 35.1' E	Fl.(5)Y. period 20s	118 36	8	SPECIAL Y, beacon, topmark.	
10768 F 4887	Ao Shima.	31° 48.4' N 131° 28.8' E	Fl.W. period 4s	43 13	5	White round concrete structure; 39.	
10772 F 4888	Aoshima Ko, E. breakwater.	31° 48.0' N 131° 29.0' E	F.Fl.(2)G. period 10s 2 fl. 3s, ec. 7s	43 13	F. 5 Fl 12	White round concrete tower; 28.	
UCHIUMI KO:							
10776 F 4886	-Tosaki Hana.	31° 47.0' N 131° 29.0' E	Fl.W. period 8s	299 91	24	White tower; 28.	Visible 138°-018°.
10780 F 4883	-Breakwater, head.	31° 45.0' N 131° 28.6' E	F.Fl.(2)G. period 6s	32 10	F. 5 Fl 11	White square concrete tower; 25.	
10784 F 4882	-Offing breakwater.	31° 45.1' N 131° 28.5' E	Fl.(2)R. period 6s	46 14	6	Red tower; 31.	
10788 F 4884	-Range, front.	31° 45.2' N 131° 28.4' E	F.Y.	36 11	11	White hexagonal concrete tower, triangular daymark; 32.	
10792 F 4884.1	--Rear, about 180 meters 325° from front.	31° 45.1' N 131° 28.4' E	F.Y.	85 26	11	White round concrete tower, triangular daymark; 17.	
10796 F 4880	Kinchaku Jima.	31° 44.1' N 131° 28.6' E	Fl.(3)W.R. period 13s	164 50	19	White round concrete tower; 33.	R. 168°-208°, W.-168°.
10800 F 4881	Nojima Ko, breakwater, head.	31° 44.2' N 131° 28.1' E	Fl.G. period 3s	39 12	3	Red quadrangular metal framework structure; 29.	
10804 F 4876	Udo Saki.	31° 38.5' N 131° 28.2' E	Oc.(2)W. period 6s	148 45	18	White quadrangular concrete tower; 39.	
10808 F 4870	Hadaka Bae.	31° 33.7' N 131° 25.1' E	Fl.W. period 4s	69 21	12	White round concrete structure; 46.	
ABURATSU KO:							
10820 F 4870.5	-E. entrance Range, front.	31° 33.3' N 131° 24.0' E	F.G.	124 38	14	White hexagonal tower; 14.	
10824 F 4870.51	--Rear, about 420 meters 263°30' from front.	31° 33.3' N 131° 23.8' E	F.G.	220 67	14	White round tower; 52.	
10828 F 4872	-E. breakwater, W. head.	31° 34.3' N 131° 24.2' E	Fl.R. period 4s	43 13	10	Red tower; 28.	
10832 F 4873	-W. breakwater, head.	31° 34.1' N 131° 24.3' E	Fl.G. period 4s	33 10	6	White tower; 26.	
10836 F 4873.6	-W. inner breakwater, head.	31° 34.3' N 131° 24.3' E	F.Fl.G. period 5s	39 12	F. 5 Fl 11	White round concrete tower; 31.	
10840 F 4874	-Inner breakwater, E. head.	31° 34.5' N 131° 24.4' E	Iso.G. period 4s	32 10	6	White tower; 27.	F.W. 4M shown from head of wharf in inner harbor.
10844 F 4866.8	Odotsu Ko, detached breakwater.	31° 33.3' N 131° 23.3' E	Fl.R. period 3s	43 13	3	Red tower; 30.	
10848 F 4867	Odotsu Ko, W. groin.	31° 33.2' N 131° 23.4' E	Iso.G. period 6s	39 12	11	White round concrete structure; 30.	
10852 F 4866.2	Meita Ko.	31° 32.4' N 131° 23.5' E	Oc.G. period 4s	39 12	6	White round concrete structure; 31.	
10856 F 4866.4	Meitsu Ko Oki, detached breakwater, S.	31° 32.4' N 131° 23.8' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
10860 F 4866	Meitsu Ko, S. breakwater.	31° 32.4' N 131° 23.9' E	Fl.(2)G. period 6s	49 15	6	White tower; 31.	
10864 F 4865	Tonoura Ko, breakwater.	31° 30.6' N 131° 22.8' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10868 <i>F 4864</i>	Kurasaki.	31° 30.6' N 131° 25.1' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	305 93	24	White concrete tower; 46.	Visible 187°-142°. F.W. illuminates M. Shima 0.9 mile SSE.
10872 <i>F 4864.4</i>	Hyugano Se.	31° 30.2' N 131° 24.0' E	Mo.(A)G. period 8s	73 22	8	PORT (B) G, beacon, topmark; 63.	
10874 <i>F 4861</i>	Miyanoura, breakwater, head.	31° 23.8' N 131° 20.3' E	Fl.G. period 4s	56 17	7	White tower; 28.	
10876 <i>F 4860</i>	Toi Misaki.	31° 21.9' N 131° 20.9' E	Fl.W. period 15s	837 255	37	White octagonal concrete tower; 49.	Visible 198°-097°. Storm signals. Radio beacon 1241 meters NW. DGPS Station 1241 meters NW.
RAMARK							
10880 <i>F 4860.2</i>	-S. Light.	31° 22.0' N 131° 20.0' E	F.W.	312 95		White round concrete tower; 36.	Illuminates shallow portion of Harajiro Se about 0.46 mile SSW.
10884 <i>F 4857.5</i>	Fukushima Ko, breakwater, head.	31° 26.7' N 131° 12.3' E	Iso.R. period 6s	46 14	6	Red tower; 35.	
10885 <i>F 4857</i>	-W. breakwater.	31° 26.8' N 131° 11.8' E	Fl.(2)R. period 6s	49 15	6	Red tower; 32.	
10892 <i>F 4858</i>	Bindare Jima.	31° 25.0' N 131° 13.0' E	Fl.W. period 4s	108 33	12	White round concrete structure; 31.	
SHIBUSHI KO:							
10896 <i>F 4842</i>	-Breakwater.	31° 28.2' N 131° 06.7' E	F.F.I.G. period 5s	36 11	F. Fl	5	White round tower on quadrangular base; 30.
10898 <i>F 4842.6</i>	-Beacon.	31° 26.6' N 131° 05.7' E	Fl.G. period 3s	49 15	8	White tower; 33.	
10899	Kashiwabaru, SE. breakwater.	31° 21.6' N 131° 02.3' E	Fl.(2)R. period 6s	49 15	5	Red concrete structure; 32.	
10899.1 <i>F 4841.5</i>	-Kimotuki Ko.	31° 21.4' N 131° 03.1' E	Mo.(U)W. period 10s	115 35	16		Mo.(U)W. 10s 9M 270 meters W. and 240 meters ESE Horn.
10900 <i>F 4840</i>	Uchinoura, S. side of Shibushi Wan, E. breakwater, head.	31° 16.5' N 131° 05.1' E	Iso.G. period 4s	49 15	12	White round concrete tower; 32.	
10904 <i>F 4839</i>	Hi Saki.	31° 16.9' N 131° 07.8' E	Iso.W. period 6s	207 63	14	White round concrete structure; 33.	
10908 <i>F 4837</i>	Odomari Ko, breakwater.	31° 01.4' N 130° 41.2' E	F.F.I.R. period 5s	49 15	F. Fl	3	Red tower; 28.
10912 <i>F 4836</i>	Sata Misaki.	30° 59.3' N 130° 39.7' E	Fl.(2)W. period 16s 2 fl. 4s, ec. 12s	223 68	21	White octagonal concrete tower; 43.	Visible 242°-150°. Signal station.
RAMARK							
10916 <i>F 4835</i>	Tachime Saki.	31° 04.0' N 130° 39.0' E	Fl.W. period 3s	282 86	12	White round concrete structure; 25.	
10920 <i>F 4834</i>	Izashiki Ko, S. breakwater.	31° 05.8' N 130° 41.5' E	F.F.I.R. period 3s	56 17	F. Fl	6	Red tower; 29.
KAGOSHIMA WAN:							
10924 <i>F 4821.6</i>	-Kanoya AVIATION LIGHT.	31° 22.6' N 130° 50.2' E	AI.FI.W.G. period 4.3s	705 215		Metal framework tower; 49.	
10928 <i>F 4822.4</i>	-Kanoya Ko, S. breakwater.	31° 23.8' N 130° 46.1' E	F.F.I.R. period 5s	39 12	F. Fl	6	Red round concrete tower; 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10932 <i>F 4822</i>	--N. breakwater.	31° 23.8' N 130° 46.1' E	F.FI.G. period 5s	39 12	F. 5 Fl 11	White round concrete structure on square base; 28.	
10936 <i>F 4824</i>	-Tarumisu Ko, S. breakwater.	31° 30.0' N 130° 42.0' E	F.FI.R. period 6s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
10937 <i>F 4824.5</i>	S. harbor, S. breakwater.	31° 28.8' N 130° 41.3' E	FI.R. period 3s	39 12	6	Red tower; 31.	
-Kagoshima Ko:							
10940 <i>F 4825.4</i>	--Taniyama, N. breakwater, head.	31° 30.0' N 130° 32.0' E	Iso.R. period 4s	56 17	13	Red tower; 56.	
10944 <i>F 4825.5</i>	--Detached breakwater, S. head.	31° 29.0' N 130° 32.4' E	FI.R. period 3s	59 18	10	Red round concrete tower; 52.	
10946	-S. breakwater, E. head.	31° 28.7' N 130° 32.7' E	FI.G. period 3s	59 18	10	White tower; 52.	
10948 <i>F 4826.4</i>	--Mokuzai Ko, S. breakwater.	31° 31.8' N 130° 32.9' E	F.FI.G. period 4s	43 13	F. 6 Fl 12	White round concrete structure; 31.	
10952 <i>F 4827</i>	--S. harbor, S. breakwater.	31° 32.0' N 130° 33.0' E	F.FI.(2)G. period 8s 2 fl. 3s, ec. 5s	42 13	F. 7 Fl 12	White round concrete tower; 31.	
10956 <i>F 4827.4</i>	--Kamoike, breakwater.	31° 33.2' N 130° 33.8' E	FI.G. period 3s	46 14	7	White tower; 31.	
10960 <i>F 4825</i>	--Kan Se.	31° 33.6' N 130° 35.5' E	FI.W. period 3s	59 18	13	White round concrete tower; 56.	
10964 <i>F 4828</i>	--New Harbor, S. breakwater.	31° 34.7' N 130° 34.4' E	Iso.G. period 6s	46 14	12	White round concrete tower; 42.	
10968 <i>F 4828.2</i>	--N. breakwater, head.	31° 34.8' N 130° 34.4' E	Iso.R. period 6s	46 14	12	Red round concrete structure; 43.	
10971 <i>F 4828.6</i>	--Outer middle breakwater, S. head.	31° 35.6' N 130° 34.4' E	FI.(2)R. period 6s	43 13	10	Red tower; 33.	
10972 <i>F 4828.7</i>	--N. head.	31° 35.9' N 130° 34.4' E	FI.G. period 5s	43 13	10	White tower; 33.	
10973 <i>F 4828.8</i>	--Outer N. breakwater, S. head.	31° 35.9' N 130° 34.4' E	FI.R. period 5s	43 13	10	Red tower; 33.	
10980 <i>F 4831</i>	--N. breakwater, S. head.	31° 35.7' N 130° 34.2' E	FI.R. period 3s	46 14	9	White square metal framework tower; 31.	
10981 <i>F 4831.7</i>	-Approach.	31° 35.4' N 130° 35.9' E	FI.(2)R. period 6s	26 8	6	Red tower; 18.	
10992 <i>F 4823.3</i>	-Kiire Ko Oil Terminal, Sea Berth, No. "1".	31° 24.0' N 130° 33.1' E	Mo.(U)W. period 8s	98 30	16		Private aid. Mo.(U)W. 8s 230 meters NNW.
10996 <i>F 4823.2</i>	--No. "2".	31° 23.8' N 130° 33.3' E	Mo.(U)W. period 8s	118 36	17		Private aid. Mo.(U)W. 8s 210 meters NNW.
11000 <i>F 4823.12</i>	--No. "3".	31° 23.6' N 130° 33.5' E	Mo.(U)W. period 8s	118 36	17		Private aid. Mo.(U)W. 8s 270 meters NNW and 270 meters SSE.
11002 <i>F 4823.06</i>	--No. "4".	31° 23.3' N 130° 33.7' E	Mo.(U)W. period 8s	138 42	17		Private aid. Mo.(U)W. 8s 260 meters SSE.
11004 <i>F 4823.02</i>	--No. "2".	31° 22.3' N 130° 34.0' E	Mo.(B)Y. period 15s	20 6	8	SPECIAL Y, beacon, topmark.	Private aid.
11008 <i>F 4823</i>	--No. "1".	31° 22.1' N 130° 34.2' E	Mo.(B)Y. period 15s	20 6	8	SPECIAL Y, beacon, topmark.	Private aid.
11016 <i>F 4823.4</i>	--N. breakwater.	31° 23.0' N 130° 33.0' E	F.R.	22 7	7	Red post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11020 <i>F 4823.42</i>	--E. breakwater.	31° 23.4' N 130° 32.6' E	F.G.	22 7	6	White post; 13.	
11024 <i>F 4820</i>	-Yamakawa Ko on Uno Se.	31° 12.5' N 130° 38.9' E	Fl.R. period 3s	37 11	9	STARBOARD (B) R, beacon, topmark; 39.	R. light located on Bando Koro Hana.
11028 <i>F 4820.2</i>	-Bandokoro Hana.	31° 12.4' N 130° 38.3' E	Fl.G. period 3s	39 12	11	White round tower, on square base; 33.	
11030	-ibusuki Ko, breakwater.	31° 14.1' N 130° 39.6' E	Fl.R. period 5s	31 9	6	Red tower; 22.	
11032 <i>F 4821</i>	-Chirin Jima, NE. point of island.	31° 16.0' N 130° 41.0' E	Fl.W. period 4s	331 101	12	White round concrete tower; 33.	
11036 <i>F 4821.2</i>	-O-Nezime Ko, N. breakwater.	31° 15.0' N 130° 46.0' E	F.Fl.G. period 3s	36 11	F. Fl 5 11	White round structure, quadrangular concrete base; 25.	
11040 <i>F 4820.6</i>	-Nezime Ko, N. breakwater.	31° 13.1' N 130° 45.4' E	Fl.(2)G. period 6s	36 11	10	White tower; 28.	
11044 <i>F 4819.5</i>	-Nagasaki Hana.	31° 09.2' N 130° 35.4' E	Iso.W. period 6s	69 21	14	White round concrete tower; 36.	
11048 <i>F 4819</i>	Maese Hana.	31° 15.0' N 130° 25.0' E	Fl.W. period 4s	56 17	13	White round concrete structure on quadrangular base; 31.	
MAKURASAKI KO:							
11056 <i>F 4815.3</i>	-S. breakwater, head.	31° 15.5' N 130° 17.5' E	Iso.R. period 6s	59 18	10	Red tower; 31.	
11060 <i>F 4817</i>	-W. breakwater, head.	31° 15.7' N 130° 17.6' E	Fl.(2)G. period 6s	62 19	5	White tower; 33.	
11062 <i>F 4815</i>	-Entrance breakwater.	31° 15.1' N 130° 17.5' E	Fl.G. period 4s	36 11	3	White tower; 17.	
11064 <i>F 4812</i>	Bono Misaki.	31° 15.0' N 130° 13.0' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	276 84	23	White octagonal concrete tower; Visible 274°-157°. 39.	
11068 <i>F 5080</i>	Minega Saki.	31° 16.0' N 130° 13.0' E	Iso.W. period 6s	410 125	20	White round concrete structure; 28.	
11072 <i>F 5083</i>	Satuma.	31° 24.8' N 130° 06.7' E	Fl.W. period 5s	489 149	20	White round concrete tower; 34.	
11076 <i>F 5082</i>	Bonoura Naga Se.	31° 16.2' N 130° 13.6' E	Mo.(A)R. period 9s	23 7	3	STARBOARD (B) R, beacon, tower; 25.	
11080 <i>F 5084</i>	Kataura Ko, breakwater, head.	31° 25.1' N 130° 11.1' E	Iso.W. period 6s	36 11	11	Red tower; 30.	
11081	Kagoshima Ken.	31° 24.9' N 130° 11.3' E	Fl.(2)R. period 6s	23 7	4	Red tower; 12.	
11084 <i>F 4994.7</i>	Torinosu Yama.	31° 46.9' N 129° 48.2' E	Fl.W. period 4s	236 72	20	White round concrete structure; 31.	F. light illuminates beacon on Heta-no-Se about 275 meters NE.
11088 <i>F 4994.6</i>	Tsubura Saki.	31° 47.2' N 129° 47.1' E	Fl.(4)W. period 15s 4 fl. 7s, ec. 8s	299 91	20	White round concrete tower; 28. Floodlit.	
11092 <i>F 4994.4</i>	Imuta Ko, breakwater.	31° 46.6' N 129° 48.1' E	Fl.G. period 6s	52 16	8	White tower; 28.	
11094	Nagahama Ko, S. breakwater.	31° 42.0' N 129° 44.6' E	Fl.G. period 3s	52 16	8	White tower; 36.	
11096 <i>F 4992</i>	Tsurikake Saki.	31° 37.2' N 129° 41.6' E	Fl.W. period 15s	479 146	29	White round concrete tower; 56.	Visible 271°-115°.

RAMARK

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11100 <i>F 4994</i>	Teuchi Ko, breakwater.	31° 37.7' N 129° 43.1' E	F.FI.G. period 5s	56 17	F. 5 Fl 12	White round concrete tower; 36.	
11104 <i>F 4996</i>	Nakagoshiki, breakwater.	31° 49.8' N 129° 51.8' E	FI.G. period 4s	33 10	11	White round concrete structure, quadrangular base; 23.	
11108 <i>F 4995</i>	-Training wall.	31° 50.0' N 129° 51.0' E	FI.R. period 4s	39 12	11	Red round structure on square concrete base 30.	
11112 <i>F 4994.8</i>	Koshiki, Taira Ko, breakwater, head.	31° 48.3' N 129° 50.5' E	Fl.(2)G. period 6s	36 11	5	White tower; 18.	
KUSHIKINO KO:							
11116 <i>F 5090</i>	-S. breakwater, N. head.	31° 42.0' N 130° 16.0' E	F.FI.R. period 5s	42 13	F. 8 Fl 12	Red round concrete tower; 32.	
11120 <i>F 5088</i>	-N. breakwater, S. head.	31° 42.4' N 130° 15.7' E	FI.FI.G. period 5s	43 13	F. 7 Fl 12	White round concrete tower; 32.	
11124 <i>F 5087</i>	-Naga Saki.	31° 42.5' N 130° 15.5' E	Oc.W. period 4s lt. 3s, ec. 1s	66 20	14	White tower; 39.	F.W. spotlight illuminates rock 700 meters S.
11126 <i>F 5087.5</i>	-Detached breakwater.	31° 42.9' N 130° 15.0' E	Fl.(2)G. period 6s	52 16	8	White tower; 36.	
11128 <i>F 5091</i>	Okino Shima.	31° 44.0' N 130° 11.0' E	Fl.W. period 4s	285 87	17	White round concrete structure on quadrangular base; 31.	
11132 <i>F 5094.6</i>	Sendai River entrance, breakwater, head.	31° 50.0' N 130° 11.0' E	FI.G. period 4s	46 14	7	White tower; 30.	
11136 <i>F 5094</i>	Sendai Ko, S. breakwater.	31° 51.1' N 130° 11.1' E	Fl.(2)R. period 6s	59 18	9	Red tower; 39.	
11138 <i>F 5094.3</i>	-Outer breakwater.	31° 51.2' N 130° 10.8' E	Fl.(2)G. period 6s	56 17	11	White concrete tower; 36.	
11140 <i>F 5094.4</i>	-W. breakwater, S. head.	31° 51.2' N 130° 11.3' E	FI.G. period 3s	46 14	5	White tower; 34.	
11146 <i>F 5094.25</i>	--N. head.	31° 51.9' N 130° 11.7' E	FI.R. period 4s	30 9	5	Red mast; 11.	
11148 <i>F 5093</i>	Naka Se.	31° 50.9' N 130° 03.2' E	Fl.(2)W. period 5s	62 19	12	ISOLATED DANGER BRB, beacon, topmark; 57.	
RACON				OE(--- •)		5	
11152 <i>F 4996.4</i>	Satomura.	31° 50.0' N 129° 56.0' E	Oc.W. period 5s lt. 3s, ec. 2s	177 54	19	White round concrete structure; 32.	
11156 <i>F 5092</i>	Ite Saki.	31° 52.0' N 129° 57.0' E	Fl.W. period 3s	272 83	12	White round concrete structure; 36.	
11158	Sato Ko, outer breakwater.	31° 50.5' N 129° 55.6' E	FI.G. period 5s	27 8	3	White tower; 16.	
11160 <i>F 4997</i>	Nawase Hana.	31° 53.0' N 129° 50.0' E	FI.W. period 5s	574 175	20	White round concrete structure; 33.	
11164 <i>F 5095</i>	Akune Ko.	32° 01.0' N 130° 11.0' E	Fl.(2)W. period 10s	141 43	18	White round concrete structure quadrangular base; 39.	F.W. auxiliary light illuminated obstruction 300 meters away.
11168 <i>F 5096</i>	Akune Ko, W. breakwater, head.	32° 01.0' N 130° 11.5' E	Iso.R. period 6s	39 12	12	Red round concrete tower; 28.	
11169 <i>F 5097</i>	-E. breakwater.	32° 01.4' N 130° 11.3' E	FI.R. period 4s	43 13	12	Red tower; 31.	
11169.1 <i>F 5098</i>	-Center breakwater.	32° 01.4' N 130° 11.1' E	Fl.(2)G. period 6s	52 16	6	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11172 <i>F 5100</i>	Kobira Se.	32° 04.7' N 130° 10.4' E	Fl.(3)W. period 13s	66 20	13	White round concrete tower; 29.	F.W. obstruction light shows over Hira Se.
11176 <i>F 5101</i>	Kuronohama Ko, S. breakwater.	32° 05.0' N 130° 11.0' E	F.FI.R. period 6s	36 11	F. Fl	6 11	Red round concrete tower; 28.
11180 <i>F 5100.2</i>	Satuma No Se.	32° 05.1' N 130° 10.0' E	Mo.(A)G. period 8s	43 13	8	PORT (B)	G, beacon, topmark; 39.
11184 <i>F 5102</i>	Nagasaki Hana.	32° 07.0' N 130° 07.0' E	Fl.W. period 10s	89 27	15	White hexagonal concrete tower; Visible 326°-162°. 49.	
11188 <i>F 5103</i>	Sasue Ko, S. breakwater.	32° 09.0' N 130° 07.0' E	F.FI.(2)R. period 10s 2 fl. 3s, ec. 7s	36 11	F. Fl	6 11	Red round tower on quadrangular base; 28.
11192 <i>F 5106</i>	To Shima.	32° 11.7' N 130° 05.0' E	Fl.W. period 3s	158 48	15	White round stone tower; 21.	Visible 162°-032°.
11196 <i>F 5130</i>	Miyanoura Ko, breakwater.	32° 11.9' N 130° 11.5' E	Iso.R. period 4s	36 11	7	Red tower; 31.	
11200 <i>F 5132</i>	Komenotsu Ko, N. breakwater, head.	32° 07.6' N 130° 20.7' E	Iso.G. period 6s	36 11	11	White round concrete tower; 28.	
11204 <i>F 5133</i>	-Detached breakwater, NE. head.	32° 07.0' N 130° 21.0' E	Fl.R. period 3s	36 11	9	Red round concrete structure, 26.	
11208 <i>F 5131</i>	Nago Ko, breakwater.	32° 07.3' N 130° 19.9' E	Fl.(2)G. period 6s	39 12	11	White round concrete tower; 25.	
11212 <i>F 5134</i>	Minamata Ko, Koji Shima, W. extremity.	32° 11.8' N 130° 21.7' E	Fl.W. period 3s	105 32	7	White round concrete tower on square base; 36.	
11224 <i>F 5136.4</i>	Marushima Ko, E. breakwater.	32° 12.8' N 130° 23.2' E	Iso.R. period 6s	39 12	11	White steel lattice tower; 31.	
11228 <i>F 5136.7</i>	Tunagi Wan.	32° 14.2' N 130° 26.0' E	Iso.G. period 4s	39 12	11	White round concrete structure; 32.	
11232 <i>F 5137</i>	Fukuhama Ko, breakwater.	32° 15.0' N 130° 26.0' E	F.FI.G. period 6s	39 12	F. Fl	5 11	White round concrete tower; 28.
11234	Sasaki Ko, breakwater.	32° 16.4' N 130° 26.8' E	Fl.R. period 5s	26 8	3	Red tower; 16.	
11236 <i>F 5137.4</i>	Egushi Ko, breakwater.	32° 17.0' N 130° 27.0' E	F.FI.R. period 6s	36 11	F. Fl	6 11	Red round concrete tower; 28.
11240 <i>F 5137.44</i>	Higo Okino Sima.	32° 17.8' N 130° 26.9' E	Fl.W. period 3s	79 24	12	White round concrete structure; 30.	
11242 <i>F 5137.48</i>	Sasaki Ko, N. breakwater, S. head.	32° 17.8' N 130° 28.4' E	Iso.G. period 6s	33 10	6	White tower; 18.	
11244 <i>F 5137.5</i>	Ganno Shiri.	32° 18.1' N 130° 18.2' E	Fl.W. period 4s	151 46	17	Round concrete structure, red and white bands; 36.	
11248 <i>F 5137.8</i>	Hongo Ko, breakwater, head.	32° 20.3' N 130° 20.3' E	Fl.G. period 3s	33 10	5	White round concrete tower; 18.	
11252	Tanasoko Ko, breakwater.	32° 24.1' N 130° 20.7' E	F.FI.G. period 4s	36 11	F. Fl	5 11	White round concrete structure; 28.
11254 <i>F 5137.7</i>	-E. breakwater.	32° 23.2' N 130° 21.1' E	Fl.G. period 5s	26 8	3	White tower; 16.	
11256 <i>F 5137.6</i>	Arakuchi Ko, No. "4" breakwater.	32° 20.9' N 130° 21.7' E	F.FI.R. period 6s	39 12	F. Fl	6 11	Red round concrete tower on square base; 28.
11260 <i>F 5138.5</i>	Daido Ko, E. breakwater.	32° 23.0' N 130° 21.0' E	Iso.R. period 4s	39 12	11	Red round concrete structure on square base; 28.	
11264 <i>F 5138.6</i>	Yoitigaura Ko, breakwater.	32° 22.0' N 130° 21.2' E	Oc.G. period 4s lt. 3s, ec. 1s	43 13	11	White tower; 31.	
11268 <i>F 5138.8</i>	Karajiro Hana.	32° 22.4' N 130° 21.5' E	Fl.W. period 3s	105 32	16	White round concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11269 <i>F 5138.9</i>	Matu ga Hana.	32° 22.7' N 130° 22.9' E	F.W.	49 15	White tower; 36.		Spotlight illuminates beacon on shoal 180 meters S.
11270 <i>F 5138.85</i>	Ike-no-Ura.	32° 23.1' N 130° 22.0' E	Fl.R. period 4s	30 9	7	Red tower; 19.	
11274 <i>F 5155.1</i>	-W. breakwater, head.	32° 23.8' N 130° 18.4' E	Fl.R. period 5s	30 9	6	Red tower; 18.	
11276 <i>F 5139</i>	Hino Shima.	32° 23.2' N 130° 24.5' E	Iso.R. period 6s	33 10	11	Red tower; 32.	
11276.5 <i>F 5139.5</i>	-Breakwater.	32° 23.8' N 130° 24.5' E	Fl.(2)G. period 6s	39 12	7	White tower; 28.	
11278 <i>F 5139.2</i>	Tomari Yama.	32° 22.5' N 130° 25.3' E	Fl.G. period 4s	29 9	5	White round concrete structure; 18.	
11279 <i>F 5138.95</i>	Roya Ka Wachi Ko.	32° 23.5' N 130° 23.4' E	Fl.G. period 3s	30 9	3	White tower; 21.	
11280 <i>F 5140</i>	Higo.	32° 23.5' N 130° 24.3' E	Oc.W. period 4s lt. 3s, ec. 1s	154 47	17	White quadrangular concrete structure; 25.	
11284 <i>F 5140.2</i>	Hino Shima, NW.	32° 23.9' N 130° 24.2' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
11288 <i>F 5140.4</i>	Uryu Saki.	32° 25.8' N 130° 25.6' E	Iso.W. period 6s	121 37	17	White round concrete structure; 33.	
11292 <i>F 5140.5</i>	Himedo Ko, breakwater.	32° 26.0' N 130° 24.0' E	Iso.G. period 6s	36 11	11	White round concrete structure; 28.	
11294 <i>F 5140.55</i>	-Breakwater.	32° 26.8' N 130° 25.4' E	Fl.G. period 4s	30 9	6	White round concrete structure; 19.	
11296 <i>F 5140.6</i>	Yatusiro Ko, W. breakwater.	32° 28.2' N 130° 26.3' E	F.Fl.G. period 3s	46 14	F. Fl	5 12	White round concrete structure; 28.
11300 <i>F 5140.8</i>	Usi Se.	32° 28.2' N 130° 26.5' E	Fl.(2)W. period 5s	40 12	9	ISOLATED DANGER BRB, beacon, topmark; 28.	
11304 <i>F 5142.4</i>	Yatsushiro Ko, breakwater.	32° 31.2' N 130° 32.1' E	Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	43 13	6	Red round metal tower; 31.	
11308 <i>F 5142</i>	-Groin.	32° 33.0' N 130° 33.0' E	Fl.G. period 3s	43 13	8	White round metal structure; 31.	
11312 <i>F 5141</i>	Shimo-Utano Hana.	32° 31.6' N 130° 27.8' E	Fl.(2)W. period 6s	148 45	17	White round concrete tower; 36.	Spotlight illuminates Sobei sei.
11316 <i>F 5141.2</i>	Amura, breakwater, head.	32° 32.0' N 130° 27.0' E	F.Fl.R. period 5s	39 12	F. Fl	6 11	Red tower; 28.
11320 <i>F 5141.6</i>	Aizu Ko, Naga Se.	32° 31.3' N 130° 26.0' E	Mo.(A)R. period 9s	30 9	10	Red round concrete structure; 24.	
11322 <i>F 5143.7</i>	Oniki Wan.	32° 14.1' N 130° 00.8' E	Iso.R. period 4s	29 9	7	Red tower; 19.	
USHIBUKA KO:							
11324 <i>F 5112</i>	-Ushibuka Moqushi.	32° 13.0' N 130° 01.0' E	F.W.	400 122	21	Wooden mast; 28.	Visible 045°-135°.
11328 <i>F 5110.2</i>	-Detached breakwater, S. head.	32° 11.4' N 130° 02.0' E	Fl.R. period 3s	39 12	11	Red concrete column; 33.	
11332 <i>F 5110</i>	-Daiba, breakwater.	32° 11.7' N 130° 01.7' E	F.Fl.R. period 5s	36 11	F. Fl	8 11	Red quadrangular metal framework tower; 31.
11336 <i>F 5117.5</i>	-Suguchi Ura, breakwater.	32° 11.5' N 130° 00.8' E	F.Fl.R. period 3s	36 11	F. Fl	6 11	White round concrete structure; 32.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11340 F5120	-Ushibuka.	32° 10.8' N 129° 58.2' E	Fl.W. period 5s	226 69	17	White round concrete structure; 33.	
11344 F5118	-Usibuka Ko, breakwater.	32° 10.7' N 130° 01.2' E	Iso.R. period 6s	49 15	12	Red tower; 31.	
11346 F5107.5	-E. breakwater.	32° 11.9' N 130° 02.2' E	Fl.G. period 4s	33 10	5	White tower; 18.	
11348 F5110.4	-Suguchi Ura, S. breakwater.	32° 11.5' N 130° 01.9' E	F.FI.G. period 5s	36 11	F. Fl	5 11	White quadrangular metal framework structure; 28.
11352 F5117	-Suguchi Ura approach.	32° 11.1' N 130° 00.4' E	Fl.(2)R. period 6s	49 15	5	Red tower; 35.	
11354	--Outer breakwater.	32° 10.8' N 130° 00.5' E	Fl.(2)G. period 6s	49 15	8	White tower; 36.	
11356 F5114	-Nagateno.	32° 11.0' N 130° 01.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	282 86	20	White round concrete tower; 36.	
11360 F5109	-Itimonoji, breakwater.	32° 11.3' N 130° 02.1' E	Oc.G. period 4s	36 11	11	White round concrete tower; 28.	
11361 F5106.5	Katagawa, breakwater.	32° 10.6' N 130° 02.2' E	Iso.G. period 4s	26 8	6	White concrete structure; 18.	
11362 F5107	Kutama Ura, breakwater, head.	32° 12.5' N 130° 02.1' E	Iso.R. period 6s	26 8	7	Red tower; 19.	
11363 F5106.2	Yamanoura Ko, breakwater.	32° 13.3' N 130° 04.6' E	Iso.R. period 4s	26 8	7	Red concrete structure; 19.	
11364 F5101.4	Usui Ko, breakwater, head.	32° 13.3' N 130° 10.7' E	F.FI.R. period 3s	40 12	F. Fl	6 11	Red round concrete structure; 32.
11368 F5126	Fukami Ko, No. "1" breakwater.	32° 15.0' N 130° 06.1' E	Oc.R. period 4s	36 11	11	Red round concrete tower; 31.	
11369 F5126.5	Hukami Ko.	32° 15.2' N 130° 05.9' E	Fl.R. period 3s	27 8	7	Red concrete tower; 19.	
11372 F5129.1	Kaziki Zaki.	32° 16.7' N 130° 08.8' E	Iso.W. period 6s	72 22	14	White round concrete structure.	
11376 F5129.15	Kamihira Ko, breakwater.	32° 16.9' N 130° 08.0' E	F.FI.G. period 3s	39 12	F. Fl	5 11	White round concrete tower; 26.
11380 F5129.25	Miyana Kawachi.	32° 18.1' N 130° 08.7' E	Iso.R. period 6s	36 11	11	Red round concrete structure; 28.	
11384 F5128	Kamine Jima, in Hachiman Seto.	32° 15.6' N 130° 09.5' E	Fl.(2)W.R. period 5s	66 20	W. R.	12 9	White round stone tower; 21. R. 226°-232°, W.-226°.
11388 F5129.6	Hegusi Ko, S. breakwater.	32° 15.5' N 130° 13.8' E	F.FI.R. period 4s	39 12	F. Fl	6 11	Red round concrete structure; 31.
11389 F5129.7	Mehuki Seto, Hyotan Sima.	32° 14.4' N 130° 12.9' E	Fl.R. period 3s	31 9	6	STARBOARD (B) R, beacon, topmark; 22.	
11390 F5129.8	Kuzuwa Ko, breakwater.	32° 15.2' N 130° 11.3' E	Iso.G. period 6s	30 9	6	White tower; 22.	
11392 F5129	Mate Shima.	32° 16.0' N 130° 12.0' E	Fl.W. period 4s	79 24	12	White round concrete structure; 30.	
11394 F5129.05	Katasoba Ko.	32° 16.4' N 130° 13.0' E	Fl.R. period 5s	26 8	6	Red concrete structure; 19.	
11396 F5129.3	Naga Se.	32° 18.6' N 130° 10.2' E	Mo.(A)R. period 8s	33 10	9	STARBOARD (B) R, beacon, topmark; 28.	
11400 F5129.2	Nakata Ko, breakwater.	32° 20.0' N 130° 09.0' E	F.FI.G. period 5s	39 12	F. Fl	5 11	White quadrangular metal framework structure; 28.
11404 F5129.4	Otao Ko, No. "1" breakwater.	32° 21.2' N 130° 13.0' E	Iso.G. period 6s	39 12	11	White round concrete structure; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11410 <i>F 5138</i>	Yubunebara Wan.	32° 23.9' N 130° 15.7' E	Fl.G. period 3s	30 9	6	White tower; 19.	
11412 <i>F 5138.4</i>	Sumoto Ko, No. "1" breakwater.	32° 24.6' N 130° 16.4' E	Iso.G. period 4s	36 11	3	White tower; 27.	
11416 <i>F 5143.8</i>	Sakitsu Ura.	32° 18.0' N 130° 02.0' E	Iso.W. period 6s	85 26	15	White round concrete structure on quadrangular base; 31.	
11420 <i>F 5143.9</i>	-Amakusa, S. breakwater, head.	32° 18.6' N 130° 01.7' E	F.Fl.G. period 3s	36 11	F. Fl 11	White quadrangular metal framework structure; 28.	
11424 <i>F 5144</i>	Oye Ko.	32° 19.0' N 129° 59.0' E	Iso.W. period 4s	263 80	17	White quadrangular concrete tower; 22.	Obscured 140°-013°. F.W. floodlight illuminates Shimabare Se to the SSW.
11426 <i>F 5144.45</i>	-Oe ko.	32° 18.9' N 129° 59.7' E	Fl.G. period 3s	33 10	8	White concrete tower; 30.	
11428 <i>F 5144.4</i>	-W. breakwater.	32° 18.9' N 129° 59.7' E	Iso.G. period 6s	33 10	11	White round concrete tower; 28.	
11432	Higo Takahama.	32° 22.5' N 129° 59.5' E	Fl.(2)R. period 6s	46 14	6	Red tower; 18.	
11436 <i>F 5144.5</i>	Takahama.	32° 23.0' N 129° 59.0' E	Fl.W. period 4s	213 65	20	White round concrete structure; 25.	
11438 <i>F 5154</i>	Yoko Sima Island.	32° 22.6' N 130° 14.3' E	F.Fl.W. period 5s	112 34	F. Fl 10 16	White round concrete tower; 33.	
11440 <i>F 5145</i>	Higo Shimoda Ko, breakwater.	32° 25.3' N 130° 00.4' E	F.Fl.R. period 6s	52 16	F. Fl 6 12	Red round concrete tower; 36.	
11440.5 <i>F 5146.27</i>	Tororo.	32° 28.4' N 130° 02.1' E	Dir.F.W.R.G.	31 9	W. R. G. 6	White tower.	G. 175°-178°30', W.-181°30', R.-185°. Emergency light W. 2M, R. 1M, G. 1M.
11441 <i>F 5146.2</i>	Reihoku.	32° 29.3' N 130° 02.3' E	Mo.(B)Y. period 8s	30 9	8	SPECIAL Y, beacon, topmark.	
11443 <i>F 5146.28</i>	Tosikara, breakwater.	32° 29.0' N 130° 02.0' E	Fl.(2)R. period 6s	59 18	13	Red tower, 41.	
11443.1 <i>F 5146.26</i>	-Inner breakwater.	32° 28.8' N 130° 02.2' E	Fl.(2)G. period 6s	43 13	11	White tower; 29.	
11443.5 <i>F 5146.25</i>	Huka Se.	32° 29.5' N 130° 02.1' E	Mo.(A)G. period 8s	30 9	9	PORT (B) G, beacon, topmark.	
11444 <i>F 5146.4</i>	Tomioka, Gyoka, S. breakwater.	32° 30.9' N 130° 01.9' E	Fl.R. period 3s	46 14	6	Red quadrangular metal framework tower; 31.	
11448 <i>F 5146</i>	Sikizakimuaki.	32° 31.6' N 130° 00.9' E	Fl.W. period 4s	184 56	20	White tower; 28.	
11452 <i>F 5147</i>	Nanatu Se.	32° 32.6' N 130° 06.5' E	Mo.(A)G. period 8s	39 12	8	PORT (B) G, beacon, topmark; 33.	
11456 <i>F 5147.4</i>	Kogame Iwa.	32° 33.5' N 130° 06.6' E	Mo.(D)R. period 8s	49 15	9	STARBOARD (B) R, beacon, topmark; 43.	
11460 <i>F 5148</i>	Goto Syo.	32° 34.2' N 130° 06.8' E	Q.W.	46 14	12	N. CARDINAL BY, beacon, topmark; 36.	
11464 <i>F 5149</i>	Futae Ko, Tuzi Shima.	32° 33.0' N 130° 08.0' E	Fl.(2)R. period 8s	43 13	12	Red round concrete structure; 32.	
11468 <i>F 5149.4</i>	Futae Ko, No. "2" breakwater.	32° 32.8' N 130° 08.0' E	Fl.G. period 5s	46 14	6	White round concrete structure square base; 31.	
11472 <i>F 5150</i>	Oniike Ko, breakwater, head.	32° 33.0' N 130° 11.5' E	Fl.(2)R. period 6s	32 10	6	Red tower; 18.	
11476 <i>F 5150.4</i>	Gorio Ko, breakwater.	32° 31.0' N 130° 11.0' E	F.Fl.(2)R. period 10s	32 10	F. Fl 6 11	Red round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11480 <i>F 5150.6</i>	Saitsu Ko, breakwater.	32° 29.6' N 130° 11.8' E	F.FI.R. period 3s	39 12	F. 6 Fl 11	Red tower; 28.	
11484 <i>F 5151</i>	Hondo Ko, groin, head.	32° 27.6' N 130° 12.6' E	Fl.R. period 4s	39 12	6	Red tower; 32.	
11488 <i>F 5152</i>	Hondo Ko.	32° 27.2' N 130° 12.5' E	Mo.(A)G. period 8s	33 10	8	PORT (B) G, beacon, topmark; 36.	
11492 <i>F 5154.4</i>	Shimako Ko, No. "1" breakwater.	32° 28.5' N 130° 15.1' E	Iso.G. period 4s	43 13	3	White tower; 31.	
11494 <i>F 5152.3</i>	-Hondo Seto.	32° 25.3' N 130° 13.3' E	Fl.(2)R. period 6s	33 10	6	STARBOARD (B) R, beacon, topmark; 24.	
11496 <i>F 5153</i>	Gosiki Sima.	32° 24.8' N 130° 13.1' E	Fl.G. period 3s	28 9	8	PORT (B) G, beacon, topmark; 24.	
11500 <i>F 5152.5</i>	Kami-Tizuka Sima.	32° 24.2' N 130° 13.6' E	Fl.(2)R. period 6s	40 12	9	STARBOARD (B) R, beacon, topmark; 32.	
11504 <i>F 5154.6</i>	Kamitaura Ko, N. breakwater.	32° 29.5' N 130° 17.5' E	Fl.G. period 3s	46 14	3	White tower; 31.	
11508 <i>F 5154.8</i>	Oura Ko, breakwater.	32° 31.2' N 130° 22.5' E	Iso.R. period 4s	42 13	12	Red round concrete structure; 32.	
11512 <i>F 5141.3</i>	Yokosima-no-seto.	32° 32.8' N 130° 27.1' E	F.FI.G. period 5s	40 12	F. 5 Fl 11	White round concrete structure; 31.	
11516 <i>F 5141.4</i>	Satuma Se.	32° 32.5' N 130° 27.5' E	Fl.(2)W. period 5s	33 10	9	ISOLATED DANGER BRB, beacon, topmark; 30.	
11520 <i>F 5141.5</i>	Yanagi Ko, breakwater, head.	32° 33.0' N 130° 26.0' E	Iso.G. period 4s	39 12	11	White round concrete structure; 28.	
11524 <i>F 5183</i>	Sukawa Ko, E. breakwater.	32° 38.8' N 130° 17.7' E	Oc.(2)R. period 6s	36 11	11	Red tower; 31.	
11528 <i>F 5156</i>	Yu Shima.	32° 36.0' N 130° 20.0' E	Fl.W. period 3s	128 39	17	White round concrete tower; 39.	Visible 336°-243°.
11532 <i>F 5157</i>	Yu Sima Ko, breakwater.	32° 35.7' N 130° 20.1' E	Fl.R. period 3s	30 9	6	Red concrete tower; 18.	
11536 <i>F 5154.7</i>	Akasaki, E. breakwater, head.	32° 31.2' N 130° 19.2' E	Iso.G. period 4s	36 11	3	White tower; 27.	
11540 <i>F 5158</i>	Ebito Ko, breakwater.	32° 34.6' N 130° 25.1' E	Fl.(2)G. period 8s	39 12	11	White round concrete structure; 28.	
11542 <i>F 5159</i>	Hatonokama Ko.	32° 34.6' N 130° 24.3' E	Fl.R. period 3s	25 8	3	Red tower; 16.	
11544 <i>F 5160</i>	Misumi.	32° 37.3' N 130° 26.8' E	Fl.(2)W. period 7s	131 40	17	White tower; 22.	Visible 109°-316°.
11548 <i>F 5162</i>	Misumi Ko, Ninai Shima.	32° 36.3' N 130° 27.6' E	Fl.(2)W. period 6s	39 12	11	White round concrete tower; 31.	
11552 <i>F 5164</i>	Tera Shima, on reef extending from NE. extremity of Tera Shima, N. entrance to Zozono Seto.	32° 35.7' N 130° 28.5' E	Fl.W.R. period 3s	33 10	3	White round stone beacon; 36.	R. 106°-139°, W.-356°.
11556 <i>F 5143</i>	Tobase Jima.	32° 34.4' N 130° 29.5' E	Iso.W. period 6s	108 33	16	White round stone tower; 27.	Visible 297°-154°.
11560 <i>F 5165</i>	Higo, Kabuto Shima.	32° 34.5' N 130° 27.5' E	Fl.W. period 3s	39 12	3	White round concrete tower; 28.	
11564 <i>F 5143.2</i>	-Mihune.	32° 36.9' N 130° 33.0' E	Mo.(A)R. period 8s	39 12	9	STARBOARD (B) R, beacon, topmark; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
SHIMABARA KAIWAN:							
11568 F5179.8	-Shimabara, about 3.5 kilometers N. of city.	32° 49.0' N 130° 22.0' E	Fl.G. period 4s	46 14	8	White round concrete structure; 30.	
11572 F5180	-Simabara.	32° 46.6' N 130° 23.1' E	Fl.W. period 4s	62 19	12	White framework tower; 42.	
11576 F5182	-Moso Se.	32° 45.8' N 130° 22.7' E	Mo.(A)R. period 8s	33 10	9	STARBOARD (B) R, beacon, topmark; 36.	
11580 F5181	-Breakwater.	32° 45.9' N 130° 22.5' E	Fl.(2)R. period 6s 2 fl. 2s, ec. 4s	39 12	5	Red round tower on quadrangular base; 28.	
11584 F5182.5	-Hukae Ko.	32° 42.5' N 130° 21.3' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 33.	
11586	Hiraiwa.	32° 39.7' N 130° 30.7' E	Fl.R. period 3s	31 9	3	White tower; 16.	
11588 F5167	-Oda Ko, E. training wall.	32° 40.1' N 130° 32.2' E	Fl.G. period 3s	39 12	3	White quadrangular metal framework structure; 33.	
11592 F5168	Sumiyoshi.	32° 42.3' N 130° 35.6' E	Iso.W. period 6s	131 40	17	White octagonal concrete tower; 56.	
11596 F5170	-Hyakkanishi Ko, Nusuto Shima.	32° 47.8' N 130° 36.4' E	Oc.W. period 8s	43 13	12	White round tower; 28.	
11600 F5171	-Higo, Sioyo, S. breakwater.	32° 49.0' N 130° 36.0' E	Fl.(2)R. period 8s	43 13	12	Red quadrangular metal framework tower; 28.	
11604 F5172	-Kawati.	32° 49.5' N 130° 35.0' E	Fl.W. period 4s	151 46	15	White tower; 32.	
11608 F5172.4	-Kawati Ko, N. breakwater.	32° 49.9' N 130° 34.9' E	Fl.G. period 3s	39 12	3	White tower; 28.	
11609 F5179.75	Suge Hana.	32° 50.9' N 130° 20.7' E	Fl.R. period 3s	32 10	3	Red tower; 16.	
11610 F5179.7	-Hamasuge.	32° 51.6' N 130° 20.0' E	Fl.(2)R. period 6s	36 11	6		
11612 F5172.7	-Taishokai Ko, No. "1" breakwater.	32° 53.0' N 130° 31.0' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 32.	
11616 F5173.2	-Nagasu Ko.	32° 55.0' N 130° 26.0' E	Iso.G. period 6s	42 13	12	White round concrete structure; 28.	
11620 F5179.6	-Kunimi Tahira Ko, breakwater.	32° 52.4' N 130° 18.8' E	F.Fl.R. period 5s	46 14	F. Fl.	6 Red round tower; 25.	
11622 F5179.65	-Breakwater.	32° 52.2' N 130° 18.5' E	Fl.R. period 4s	36 11	6		
11624 F5179.2	-Konagai Ko, breakwater, head.	32° 55.5' N 130° 11.8' E	Iso.G. period 6s	43 13	12	White tower; 31.	
11628 F5174	-Miike Ko, about 20 meters 223° from Yotsu Yana summit.	32° 59.9' N 130° 25.8' E	Fl.W. period 10s	213 65	21	White round concrete tower; 49.	
11632 F5174.4	--Offing Light.	32° 59.3' N 130° 21.1' E	Fl.(2)W. period 5s	36 11	11	ISOLATED DANGER BRB, beacon, topmark; 36.	
11636 F5175	--N. groin.	33° 00.1' N 130° 23.7' E	Fl.G. period 3s	49 15	12	White round concrete pillar on square base; 36.	
11640 F5175.3	-Omuta Ko.	33° 02.0' N 130° 25.3' E	Fl.G. period 4s	43 13	6	White tower; 31.	
11644 F5179	Yato Hana.	32° 57.3' N 130° 13.6' E	Fl.W. period 3s	125 38	17	White round concrete tower; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11648 F 5179.04	Takazakiko, W. breakwater, head.	32° 57.0' N 130° 13.4' E	F.FI.G. period 3s	43 13	F. Fl	5 12	White round metal structure; 30.
11652 F 5179.1	Michikoshi Ko, S. breakwater, head.	32° 57.5' N 130° 13.6' E	F.FI.(2)G. period 6s	39 12	F. Fl	5 11	White round concrete structure; F.W. spotlight illuminates Tsuru Se 800 meters NE.
11654	-N. breakwater, head.	32° 58.1' N 130° 13.6' E	Fl.R. period 5s	28 9	3	Red tower; 16.	
11656 F 5178.5	-Kame Se.	32° 59.0' N 130° 13.0' E	Fl.(2)W. period 5s	33 10	9	ISOLATED DANGER BRB, beacon, topmark; 30.	
11660 F 5177	-Okikami Se.	33° 03.7' N 130° 13.7' E	Fl.(2)W. period 5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
11664 F 5177.2	-Hizen-Ka Sima.	33° 04.6' N 130° 12.3' E	Mo.(A)G. period 8s	39 12	8	PORT (B) G, beacon, topmark; 39.	
11668 F 5177.4	-Suminoe Ko Range, front.	33° 09.0' N 130° 14.0' E	Fl.W. period 3s	33 10	11	White round metal structure; 33.	
11672 F 5177.41	--Rear, 370 meters 331°24' from front.	33° 09.3' N 130° 13.4' E	Fl.W. period 3s	49 15	12	White round metal structure; 56.	
11676 F 5177.5	--No. "3".	33° 11.0' N 130° 14.1' E	Fl.(2)G. period 6s	27 8	5	PORT (B) G, beacon, topmark; 17.	
11680 F 5177.6	--No. "4".	33° 11.2' N 130° 14.2' E	Fl.(2)R. period 6s	27 8	5	STARBOARD (B) R, beacon, topmark; 17.	
11684 F 5177.8	--No. "6".	33° 11.7' N 130° 13.4' E	Fl.R. period 3s	39 12	7	STARBOARD (B) R, beacon, topmark; 39.	
11688 F 5176.5	-Okinohashi.	33° 08.0' N 130° 21.8' E	Mo.(D)R. period 8s	49 15	9	STARBOARD (B) R, beacon, topmark; 49.	F.W., F.R. and F.G. mark bridge 3.5 miles upstream.
11692 F 5176.7	-Hayatue Kawaguti.	33° 07.8' N 130° 19.1' E	Mo.(C)R. period 10s	33 10	7	STARBOARD (B) R, beacon, topmark; 36.	
11696 F 5176.8	-W.	33° 08.4' N 130° 19.7' E	Oc.W. period 4s	39 12	11	White round metal structure, 32.	
11698 F 5177.22	Suminoe Ko, approach.	33° 08.9' N 130° 17.3' E	Mo.(U)W. period 8s	22 7	4		
11699 F 5177.24	-W.	33° 08.9' N 130° 17.1' E	2 Mo.(U)W. period 8s	22 7	4		
11700 F 5176.85	-Ariake Kai.	33° 10.0' N 130° 17.0' E	Iso.R. period 4s	42 13	12	Red round metal tower; 24.	
11704 F 5175.8	-Tikugo Hiyakuken.	33° 04.2' N 130° 22.2' E	Mo.(B)R. period 8s	52 16	9	STARBOARD (B) R, beacon, topmark; 46.	
11706 F 5175.85	Yamoto.	33° 05.5' N 130° 23.4' E	Iso.W. period 6s	32 10	10	White tower; 19.	
11708 F 5175.9	--Offing.	33° 05.9' N 130° 21.5' E	Mo.(A)R. period 8s	33 10	9	STARBOARD (B) R, beacon, topmark; 36.	
11709 F 5182.8	-Simabara Wan.	32° 39.7' N 130° 20.3' E	Fl.G. period 3s	33 10	5	White tower; 18.	
11709.2 F 5182.2	-Hotsu Ko, breakwater.	32° 41.1' N 130° 21.7' E	Fl.(2)R. period 6s	39 12	11	Red tower; 30.	
11709.8 F 5183.2	-Breakwater.	32° 38.8' N 130° 17.5' E	Fl.R. period 3s	26 8	6	Red tower; 19.	
11710 F 5183.5	-Hurusiro.	32° 37.3' N 130° 15.0' E	Fl.G. period 4s	30 9	5	White tower; 19.	
11712 F 5184	-Okino Se.	32° 36.5' N 130° 14.4' E	Fl.(2)W. period 5s	46 14	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
11716 F 5186	Kuchinotsu Ko.	32° 36.0' N 130° 12.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	132 40	17	White octagonal brick tower; 20. Visible 178°-66°.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11716.1 <i>F 5187.2</i>	-Breakwater, head.	32° 36.2' N 130° 12.2' E	Fl.R. period 3s	32 10	6	Red tower; 18.	
11728 <i>F 5187.3</i>	Setsume Saki.	32° 35.0' N 130° 10.0' E	Iso.W. period 6s	42 13	12	White round concrete tower; 39.	
11729 <i>F 5187.55</i>	Simabara.	32° 41.3' N 130° 07.6' E	Fl. W. period 3s	49 15	12	White tower; 39.	
11730 <i>F 5187.5</i>	Kyodomari Ko, W. breakwater.	32° 40.8' N 130° 08.2' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
11732 <i>F 5187.4</i>	-E. basin, W. breakwater.	32° 40.7' N 130° 08.7' E	Iso.R. period 4s	39 12	11	Red tower; 26.	
11736 <i>F 5187.6</i>	Syamisen Sima.	32° 45.5' N 130° 03.1' E	Mo.(A)G. period 8s	49 15	8	PORT (B) G, beacon, topmark, 49.	
11740 <i>F 5188</i>	Wakimisaki Ko, N. breakwater.	32° 34.6' N 129° 47.3' E	F.FI.R. period 5s	43 13	F. Fl	6 12	Red tower; 31.
11744 <i>F 5188.3</i>	-S. breakwater, N.	32° 34.0' N 129° 47.0' E	F.FI.G. period 5s	46 14	F. Fl	5 12	White round concrete structure; 31.
11748 <i>F 5189</i>	--S.	32° 34.2' N 129° 47.2' E	Fl.R. period 3s	46 14	12	Red tower; 31.	
11749 <i>F 5191.4</i>	Kabasima Ko.	32° 34.0' N 129° 47.3' E	Oc.G. period 8s	43 13	12	White tower; 28.	
11750	-Bridge.	32° 34.1' N 129° 47.1' E	F.W.	66 20	9		Marks center of span. F.G. 6M close W. F.R. 5M close E.
11752 <i>F 5187.64</i>	Mogi Ko, E. breakwater, head.	32° 42.1' N 129° 55.1' E	F.FI.G. period 3s	42 13	F. Fl	5 11	White tower; 28.
11754 <i>F 5187.67</i>	-Outer breakwater, N. head.	32° 41.8' N 129° 55.4' E	Fl.(2)G. period 6s	46 14	8	White concrete structure; 28.	
11756 <i>F 5189.4</i>	-Outer breakwater.	32° 34.0' N 129° 47.0' E	F.FI.(2)R. period 10s	36 11	F. Fl	6 11	Red round tower on quadrangular base; 28.
11760 <i>F 5191</i>	Kaba Shima.	32° 32.9' N 129° 46.7' E	Fl.W. period 20s	413 126	28	White tower; 50.	Visible 213°-167°, partially obscured by land when bearing 125°-167°.
11764 <i>F 5192</i>	Otategami.	32° 33.8' N 129° 44.6' E	Fl.G. period 3s	88 27	12	White tower; 22.	
11768 <i>F 5193</i>	Nomokita Ura.	32° 35.3' N 129° 45.2' E	Iso.W. period 6s	134 41	17	White tower; 35.	F.W. illuminates rock 100 meters N.
11772 <i>F 5193.2</i>	Nomo Ko.	32° 35.2' N 129° 45.5' E	F.FI.G. period 6s	36 11	F. Fl	5 11	White round concrete tower; 33.
11776 <i>F 5193.3</i>	Nomo Ko.	32° 35.2' N 129° 45.5' E	F.FI.R. period 6s	36 11	F. Fl	6 11	Red round concrete structure; 31.
11780 <i>F 5193.4</i>	Mitu Se.	32° 36.7' N 129° 42.5' E	Fl.W. period 5s	85 26	12	White round concrete structure; 28.	
11784 <i>F 5193.42</i>	Hizen Ha Sima.	32° 37.4' N 129° 44.4' E	Fl.W. period 3s	164 50	14	White round metal tower; 33.	
11786	Hizen Takasima Ko.	32° 39.5' N 129° 45.6' E	Fl.(2)G. period 6s	33 10	3	White tower; 22.	
11788 <i>F 5193.6</i>	Hizen Kuro Se.	32° 40.9' N 129° 46.9' E	Fl.W. period 3s	49 15	12	White round concrete structure; 41.	
NAGASAKI KO:							
11792 <i>F 5194</i>	-Io Shima.	32° 42.7' N 129° 45.8' E	Fl.(4)W. period 30s 4 fl. 15s	210 64	21	White hexagonal metal tower; 36.	Visible 030°-275°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11796 F 5195	-Hira Se.	32° 42.5' N 129° 47.1' E	Fl.(2)W. period 5s	56 17	13	ISOLATED DANGER BRB, beacon, topmark; 46.	
11798 F 5193.95	-Breakwater.	32° 42.2' N 129° 46.9' E	Fl.R. period 3s	30 9	6	Red tower; 18.	
11800 F 5193.7	-Onaka Seto, W.	32° 41.3' N 129° 47.3' E	F.Fl.G. period 5s	36 11	F. Fl	7 11	White round concrete structure, quadrangular base; 31.
11804 F 5193.8	--N.	32° 41.5' N 129° 47.6' E	F.FI.R. period 5s	46 14	F. Fl	8 12	White round concrete structure; 28.
11808 F 5195.5	-Nagasaki Ko.	32° 42.7' N 129° 49.2' E	Iso.G. period 6s	56 17	13	White round concrete tower; 63.	
11812 F 5198.8	-Koe Oki.	32° 45.2' N 129° 48.4' E	Fl.G. period 4s	46 14	10	White tower; 36.	
11816 F 5197	-Mitsubishi Zosen Kagenoo wharf.	32° 42.3' N 129° 50.0' E	Fl.(2)R. period 6s	46 14	12	Red tower; 37.	Private light.
11820 F 5198.4	-Asahi-mati, breakwater.	32° 44.5' N 129° 52.0' E	Iso.G. period 6s	39 12	11	White round concrete tower; 31.	2 F.W. 7M, 2 F.G. 5M and 2 F.R. 4M mark bridge 750 meters N.
11826 F 5200	Hisen Hira Se.	32° 47.1' N 129° 45.2' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 56.	
11828 F 5199	Shikimi Ko, breakwater.	32° 47.0' N 129° 47.0' E	F.FI.R. period 5s	36 11	F. Fl	6 11	Red round concrete tower; 28.
11832 F 5203	Mie Ura, E. breakwater.	32° 49.2' N 129° 44.9' E	Fl.R. period 4s	36 11	3	Red round concrete tower; 28.	
11833 F 5202.5	Nagasaki Gyoko Range, front.	32° 49.3' N 129° 45.6' E	F.Y.	220 67	19	White tower, triangular topmark; 43.	
11833.1 F 5202.51	-Rear, 012°24' from front.	32° 49.3' N 129° 45.6' E	F.Y.	266 81	19	White tower, triangular topmark; 33.	
11834 F 5202	-Detached breakwater, W. head.	32° 48.8' N 129° 45.4' E	Fl.R. period 3s	52 16	6	Red concrete structure; 31.	
11835 F 5202.3	--E. head.	32° 48.3' N 129° 46.2' E	Fl.G. period 3s	56 17	8	White tower; 25.	
11836 F 5201	No Se.	32° 48.0' N 129° 44.0' E	Mo.(A)G. period 8s	62 19	8	PORT (B) G, beacon, topmark; 50.	
11840 F 5207	O-Hiki Sima, O Se.	32° 52.5' N 129° 32.8' E	Fl.W. period 4s	52 16	12	White round concrete tower; 49.	
11844 F 5209	Nezumi Se.	32° 56.3' N 129° 37.8' E	Q.(6)+L.FI.W. period 15s	49 15	12	S. CARDINAL YB, beacon, topmark; 36.	
11848 F 5208.4	Seto Ko, N. breakwater, S.	32° 56.4' N 129° 38.1' E	Fl.(2)G. period 6s	36 11	8	White round concrete structure; 28.	
11852 F 5208	-Breakwater, head.	32° 55.9' N 129° 38.0' E	Iso.R. period 6s	43 13	12		
11856	Kashira Shima.	32° 55.0' N 129° 38.0' E	Fl.W. period 3s	62 19	12	White round concrete structure; 49.	
11859 F 5209.2	Matusima Ko.	32° 56.3' N 129° 37.2' E	Fl.R. period 3s	29 9	6	Red tower; 18.	
11860 F 5209.5	Matsu Shima, breakwater, head.	32° 57.0' N 129° 36.0' E	F.FI.R. period 4s	42 13	F. Fl	6 12	Red round concrete tower; 26.
11864 F 5204	O-date Shima.	33° 01.0' N 129° 26.0' E	Fl.W. period 5s	279 85	17	White round concrete tower; 36.	
11868 F 5233	Ta Shima.	33° 00.0' N 129° 49.0' E	Fl.W. period 3s	102 31	12	White round concrete structure; 36.	
11870	Tsushima Suido Bridge.	33° 02.3' N 129° 38.5' E	Fl.W.	118 36	8		F.R. 36m 5M and F.G. 36m 5M mark either side of navigable channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11872 F 5210	Kabuto Shima.	33° 00.6' N 129° 37.9' E	Fl.W. period 3s	78 24	12	White round concrete tower; 28.	
--SAKITO KO:							
11880 F 5216.1	--Sakito Ko approach Range, front.	33° 00.6' N 129° 34.2' E	F.R.	125 38	17	Gray triangular metal framework tower, triangular topmark; 33.	
11884 F 5216.2	--Rear, about 128 meters 102° from front.	33° 00.8' N 129° 34.2' E	F.R.	174 53	17	Gray triangular metal framework tower, triangular topmark; 33.	
11900 F 5211	Mitoko Shima.	33° 00.0' N 129° 33.0' E	Iso.W. period 6s	157 48	19	White round concrete tower; 36.	Auxiliary light F.W. illuminates white beacon on reef 250 meters W.
11904 F 5225	Eno Shima.	32° 59.9' N 129° 21.3' E	Iso.G. period 4s	49 15	12	White round concrete tower; 36.	
11906	Yoko Sone.	32° 57.4' N 129° 20.8' E	Q.(6)+L.Fl.W. period 15s	75 23	14	S. CARDINAL YB, beacon, topmark; 79.	
11908 F 5226	Huku Se, on rock.	33° 04.4' N 129° 26.8' E	Fl.(2)W. period 5s	72 22	12	ISOLATED DANGER BRB, beacon, topmark; 79.	
11912 F 5230	Shira Se, islet at entrance to Sasebo Wan.	33° 05.3' N 129° 37.8' E	Fl.W.R. period 4s	59 18	W. R.	12 9	White round concrete tower; 22. R. 266°-86°, covering the dangers Kanise and Nakano Se, W.-266°.
11916 F 5232.4	Hario Seto.	33° 03.4' N 129° 45.2' E	Fl.W. period 3s	52 16	12	White round metal structure; 28.	
11920 F 5232	Kogo Zaki.	33° 05.8' N 129° 40.1' E	Fl.W. period 6s	210 64	21	White square concrete tower; 50.	Traffic signals.
SASEBO KO:							
11924 F 5236.5	-Hanare Shoal.	33° 05.3' N 129° 43.2' E	Q.(9)W. period 15s	33 10	11	W. CARDINAL YBY, beacon, topmark; 33.	
11928 F 5236	-Benten Shima.	33° 08.5' N 129° 43.1' E	Fl.W. period 3s	62 19	13	White metal framework structure; 25.	
11956 F 5240.48	Hizen Ohira Se.	33° 10.2' N 129° 36.7' E	Q.W.	46 14	12	N. CARDINAL BY, beacon, topmark; 36.	
11956.5 F 5240.6	Ainoura Ko, breakwater.	33° 11.4' N 129° 37.4' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
11956.7 F 5240.65	-S. breakwater.	33° 10.9' N 129° 38.5' E	Fl.(2)R. period 6s	39 12	6	Red tower; 28.	
11957 F 5240.44	Usunoura Ko, N. breakwater.	33° 10.1' N 129° 35.7' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
11958	Kuzyvkusima Wan, breakwater	33° 09.8' N 129° 38.6' E	Iso.G. period 8s	30 9	6		
11960 F 5240.4	Ushigakubi, on SW. extremity of Hashira Iwa.	33° 09.0' N 129° 35.0' E	Oc.(2)W. period 12s lt. 3s, ec. 4s lt. 3s, ec. 2s	39 12	11	White round concrete tower; 39.	
11964 F 5240.43	Taka Shima.	33° 10.0' N 129° 35.5' E	Fl.R. period 3s	29 9	7	Red round tower on square base; 19.	
11968 F 5242.2	Kuro Shima Ko.	33° 08.6' N 129° 31.8' E	Fl.R. period 3s	25 8	6	Red tower; 18.	
11972 F 5241	Simo-Kareki Shima.	33° 12.0' N 129° 30.4' E	Fl.W. period 3s	121 37	16	White square concrete tower; 53.	
11976 F 5240.46	Usunoura Ko Kusudomari, E. breakwater.	33° 12.6' N 129° 35.1' E	F.Fl.R. period 5s	36 11	F. Fl	6 11	Red tower; 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11980 F 5242.1	Tsuyoshi Ko, E. breakwater.	33° 12.4' N 129° 27.5' E	Fl.G. period 3s	49 15	12	White tower; 34.	
11984 F 5240	Ogami Sima.	33° 10.5' N 129° 20.1' E	Fl.W. period 4s	250 76	20	White round concrete structure; 39.	
11988 F 5239.8	Miyanoura Ko, W. breakwater, head.	33° 11.3' N 129° 21.4' E	F.Fl.G. period 3s	39 12	F. Fl	5 11	White round concrete structure; 31.
11992 F 5239.7	Shiuki.	33° 11.6' N 129° 24.2' E	F.Fl.G. period 3s	43 13	F. Fl	5 12	White round tower on square base; 31.
11994 F 5239.6	Hayahuku Ko.	33° 13.5' N 129° 23.1' E	Fl.R. period 3s	33 10	3	Red tower; 16.	
11994.5	Hirado Hayahuku Se.	33° 13.4' N 129° 23.1' E	Fl.W.	75 23		White tower; 36.	illuminates reefs 890 meters NW.
12000 F 5239.1	-S. breakwater.	33° 21.4' N 129° 26.2' E	Fl.(2)G. period 6s	30 9	6	White round concrete tower; 31.	
12002	Ikituki Sima, breakwater.	33° 21.5' N 129° 26.2' E	Fl.(2)R. period 6s	39 12	6	Red tower; 28.	
12004 F 5238	Shiomii Saki.	33° 21.1' N 129° 26.2' E	Fl.W.				F.W., F.R., and F.G. lights mark bridge close SW.
12008 F 5239	Ichibura Ko, N. breakwater.	33° 23.4' N 129° 26.4' E	F.Fl.R. period 5s	46 14	F. Fl	6 12	Red tower; 28.
12010 F 5239.15	-S. breakwater.	33° 23.1' N 129° 26.3' E	Fl.R. period 3s	36 11	6	Red tower; 19.	
12012 F 5239.5	Obae Hana.	33° 26.4' N 129° 25.8' E	Iso.W. period 6s	330 101	13	White round concrete tower; 33.	
F.W.							
12014 F 5239.55	Nagase Hana.	33° 21.5' N 129° 24.1' E	Fl.W. period 4s	358 109	20	White concrete structure; 30.	
12016 F 5242.6	Kawachi Wan, breakwater.	33° 19.3' N 129° 31.4' E	Fl.(2)R. period 6s	39 12	11	Red tower; 29.	
12020 F 5242.4	Aosa Zaki.	33° 19.7' N 129° 33.8' E	Fl.W. period 4s	33 10	11	White round concrete tower on quadrangular base; 28.	
12024 F 5245	Tabira Ko, S. Breakwater.	33° 21.5' N 129° 34.6' E	F.Fl.R. period 3s	43 13	F. Fl	6 12	Red round concrete structure; 33.
12028 F 5243	O-Dasuke Se.	33° 21.5' N 129° 34.4' E	Mo.(A)R. period 8s	43 13	9	STARBOARD (B) R, beacon, topmark; 18.	
12032 F 5244	Ko-Dasuke Se.	33° 21.6' N 129° 34.2' E	Mo.(B)R. period 8s	28 9	6	STARBOARD (B) R, beacon, topmark; 23.	
12034 F 5245.5	Haeno Saki.	33° 22.0' N 129° 34.2' E	Fl.(2)W. period 6s	28 9	8	White tower; 22.	
12036 F 5246	Hirado Ko.	33° 22.0' N 129° 33.0' E	Fl.G. period 3s	30 9	11	White round concrete structure; 23.	
12038 F 5246.5	Hirado Seto.	33° 22.6' N 129° 34.1' E	Fl.(2)W. period 6s	20 6	6	White tower; 12.	
12040 F 5250.6	Usuka Wan Ko, breakwater, head.	33° 22.4' N 129° 32.4' E	F.Fl.R. period 5s	36 11	F. Fl	6 11	Red round concrete structure; 28.
12044 F 5249	Hiro Se.	33° 22.7' N 129° 34.3' E	Fl.W. period 5s	46 14	12	White round concrete tower; 22.	
12048 F 5248	-Training Wall.	33° 22.6' N 129° 34.2' E	Fl.W. period 3s	42 13	12	Round tower, black and white bands; 36.	
12052 F 5250	Tasuke Ko, outer breakwater, head.	33° 23.2' N 129° 33.9' E	Iso.R. period 6s	43 13	12	Red tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12056 <i>F 5250.8</i>	Sakise Hana.	33° 26.1' N 129° 33.0' E	Oc.(2)W. period 7s	46 14	12	White quadrangular concrete structure on round base; 36.	
12060 <i>F 5250.9</i>	Taku Sima, breakwater, head.	33° 25.6' N 129° 31.1' E	Fl.R. period 3s	30 9	6	Red tower; 18.	
12064 <i>F 5250.4</i>	Yoko Shima.	33° 25.1' N 129° 32.2' E	Fl.W. period 4s	66 20	12	White round concrete structure; 39.	
O SHIMA:							
12068 <i>F 5253</i>	-Magari Bana.	33° 28.1' N 129° 31.4' E	Fl.W. period 4s	39 12	11	White round concrete structure on square concrete base; 29.	
12070 <i>F 5253.2</i>	-Azutiosima Ko.	33° 28.8' N 129° 31.8' E	Iso.R. period 8s	31 9	11	Red tower, 18.	
12072 <i>F 5252</i>	-Oshima Ko, Kannoura, breakwater.	33° 28.3' N 129° 33.6' E	F.Fl.R. period 6s	36 11	F. Fl	6 Red tower; 28.	
12075 <i>F 5251.5</i>	-Onezaka Ko.	33° 29.5' N 129° 33.5' E	Fl.R. period 3s	29 9	6	Red tower; 18.	
12076 <i>F 5251</i>	-Nagasaki Bana.	33° 30.0' N 129° 34.0' E	Oc.(2)W. period 12s lt. 3s, ec. 2s lt. 3s, ec. 4s	82 25	15	White round concrete structure; 33.	
12080 <i>F 5253.4</i>	--Umano Kashira Zaki.	33° 28.2' N 129° 30.0' E	Oc.W. period 8s	148 45	18	White round concrete structure on quadrangular concrete base; 33.	
12084 <i>F 5254</i>	Tsu Saki.	33° 23.7' N 129° 40.5' E	Oc.W. period 8s	160 49	19	White round concrete tower; 39.	
12088 <i>F 5254.95</i>	Tukinokawa Ko, breakwater.	33° 21.5' N 129° 43.6' E	Fl.R. period 3s	39 12	5	Red tower; 28.	
12090 <i>F 5254.97</i>	Imabuku Ko, breakwater, head.	33° 21.3' N 129° 45.9' E	Fl.(2)R. period 6s	23 7	3	Red tower; 16.	
12092 <i>F 5254.5</i>	Uokono Shima.	33° 25.0' N 129° 42.0' E	Fl.W. period 5s	226 69	12	White round concrete structure; 42.	
12096 <i>F 5254.6</i>	Ao Ura, N. Breakwater.	33° 27.0' N 129° 46.0' E	Iso.G. period 4s	36 11	11	White round concrete tower; 31.	
12098	Takeko Sima.	33° 27.1' N 129° 45.2' E	Fl.G. period 4s	30 9	5		
12100 <i>F 5254.8</i>	Kai Se.	33° 27.5' N 129° 44.7' E	Fl.W. period 3s	49 15	9	White round concrete structure; 39.	
12104 <i>F 5254.86</i>	Oteisi Hana.	33° 24.7' N 129° 45.6' E	Fl.W. period 4s	29 9	10	White round concrete structure; 21.	
12106	Kase Se.	33° 23.4' N 129° 46.0' E	Q.(3)W. period 10s	26 8	8	E. CARDINAL BYB, beacon, topmark; 20.	
12108 <i>F 5255</i>	Kanai Hana.	33° 22.3' N 129° 47.4' E	Fl.W. period 3s	36 11	10	White quadrangular concrete tower; 25.	
12112 <i>F 5255.22</i>	Kugi Shima, breakwater.	33° 18.8' N 129° 50.3' E	F.Fl.G. period 3s	39 12	F. Fl	5 White round concrete structure; 31.	
12116 <i>F 5255.24</i>	Imari Ko.	33° 21.4' N 129° 49.6' E	Fl.W. period 3s	36 11	9	White round concrete structure; 29.	
12118 <i>F 5255.05</i>	-Outer Harbor, Sea Berth "A".	33° 20.9' N 129° 48.5' E	Mo.(U)R. period 10s	82 25	8		Sea Berth B and C, close SE, are marked as A.
12120 <i>F 5255.23</i>	-Hatu Saki.	33° 24.7' N 129° 47.9' E	Iso.W. period 8s	39 12	11	White round concrete structure; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12124 F 5255.1	Imari Ko Uranosaki, breakwater.	33° 20.0' N 129° 48.0' E	Oc.R. period 5s lt. 3s, ec. 2s	39 12	11 31	Red round concrete structure;	
12136 F 5255.3	Hatatsuura Ko, W. breakwater.	33° 22.3' N 129° 52.1' E	Iso.R. period 4s	39 12	12	Red round concrete tower; 31.	
12144 F 5255.4	Takakushi Ko Hontei, breakwater.	33° 25.1' N 129° 49.5' E	Fl.G. period 3s	26 8	5	White round concrete tower; 28.	
12148 F 5255.7	-W. breakwater.	33° 25.1' N 129° 49.5' E	Fl.R. period 3s	43 13	9		
12152 F 5255.5	-Takakushi Ko, S. breakwater.	33° 25.0' N 129° 50.0' E	Iso.R. period 6s	39 12	11 32	Red round fiberglass structure;	
12154 F 5255.35	Imari Hira Se.	33° 23.8' N 129° 51.2' E	Fl.R. period 4s	28 9	6	Red tower; 18.	
12156 F 5254.9	Miya Zaki.	33° 26.9' N 129° 47.1' E	Oc.W. period 8s	36 11	11	White round concrete structure on quadrangular concrete base; 28.	
12157 F 5254.91	-Ake Se.	33° 28.4' N 129° 47.1' E	Fl.(2)W. period 5s	46 14	6	ISOLATED DANGER BRB, beacon, topmark; 16.	
12160 F 5256	Muku Sima.	33° 29.2' N 129° 46.7' E	Fl.W. period 4s	263 80	20	White round concrete tower; 39.	
12168 F 5257	Hizen Madara Shima.	33° 34.0' N 129° 46.0' E	Oc.(2)W. period 7s	98 30	15	White round concrete structure; 32.	
12172 F 5257.1	-Ko, E. breakwater.	33° 33.7' N 129° 46.0' E	Iso.G. period 6s	42 13	12	White tower; 31.	
12176 F 5257.4	Chika Saki.	33° 31.1' N 129° 49.7' E	Iso.W. period 10s	85 26	13	White round concrete tower; 31.	
12180 F 5268	Hado Saki.	33° 33.1' N 129° 51.0' E	Fl.W. period 5s	69 21	14	White round concrete tower; 43.	
12184 F 5265.6	Kakara Shima, breakwater.	33° 35.0' N 129° 51.8' E	Iso.G. period 4s	31 9	6	White roundl concrete structure; 19.	
12188 F 5265.65	-Kakara Shima.	33° 33.8' N 129° 53.9' E	F.W.	197 60		White square concrete structure; 20.	illuminates beacon on Hutame Se 650 meters SE. from light.
12192 F 5265.4	Ogawashima Ko, W. breakwater.	33° 35.0' N 129° 54.0' E	F.FI.G. period 5s	36 11	F. Fl	5 11	White round concrete structure; 28.
12193.5 F 5266.45	Entrance breakwater, E. side.	33° 33.0' N 129° 52.0' E	Fl.R. period 3s	43 13	6		
12194 F 5266.5	Yobuko Ko, Ko Sima, breakwater.	33° 32.6' N 129° 52.2' E	Fl.G. period 3s	30 9	6		
12196 F 5267	-Nagoya, breakwater.	33° 32.1' N 129° 52.8' E	F.FI.R. period 5s	36 11	F. Fl	6 11	Red tower; 28.
12204 F 5266.4	-E. side, S. breakwater, head.	33° 33.0' N 129° 54.0' E	F.FI.G. period 3s	33 10	F. Fl	5 11	White round concrete structure; 28.
12208 F 5266.3	--Detached breakwater, E. head.	33° 33.2' N 129° 53.7' E	Fl.R. period 3s	33 10	6	Red tower; 28.	
12212 F 5266.35	--N. breakwater.	33° 33.0' N 129° 54.0' E	Iso.R. period 4s	36 11	11	Red round concrete structure, quadrangular concrete base; 31.	
12216 F 5265.8	Hizen.	33° 34.0' N 129° 53.0' E	Iso.W. period 6s	102 31	16	White round concrete structure; 36.	
12220 F 5265	Hira Se.	33° 34.7' N 129° 54.8' E	Iso.W. period 10s	39 12	11	White round concrete structure; 27.	
12224 F 5266.2	Usu Shima.	33° 33.7' N 129° 53.9' E	Fl.W. period 3s	42 13	12	White tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12226	Kabe Shima.	33° 33.2' N 129° 53.7' E	F.I.R. period 4s	33 10	3		
12228	Taka Shima. F 5266	33° 33.4' N 129° 54.4' E	Fl.(3)W. period 13s	180 55	17 36.	White round concrete structure;	
12232	Kashiwa Jima, Ko Miya Saki F 5269.02	33° 32.1' N 129° 58.0' E	Oc.W. period 4s	42 13	12 39.	White roundl concrete tower;	
12236	-Breakwater. F 5269.04	33° 32.1' N 129° 58.2' E	Iso.R. period 6s	33 10	11 28.	Red round concrete structure;	Visible 204°-109°.
12240	Mese Hana. F 5269	33° 31.5' N 129° 57.6' E	Fl.W. period 4s	118 36	17 29.	White round concrete tower;	
12244	Minatohama Ko. F 5269.06	33° 31.0' N 129° 58.0' E	F.FI.R. period 5s	43 13	F. 6 Fl 12	Red round concrete tower;	28.
12248	Karatsu Ko, breakwater, W. head. F 5269.24	33° 29.1' N 129° 57.5' E	Fl.(2)G. period 6s	36 11	11 32.	White round concrete structure on quadrangular concrete base;	
12252	-E. head. F 5269.22	33° 28.9' N 129° 57.8' E	F.I.R. period 7s	36 11	11 32.	Red structure;	
12254	-W. harbor, breakwater, head. F 5269.3	33° 28.6' N 129° 57.5' E	Fl.G. period 3s	27 8	5 22.	White concrete tower;	
12256	Karatsu. F 5269.2	33° 28.8' N 129° 57.9' E	Iso.W. period 6s	180 55	17 25.	White round concrete tower;	
12260	Tobo Ko, No. "2" breakwater. F 5269.5	33° 28.7' N 129° 56.5' E	F.FI.R. period 6s	32 10	F. 6 Fl 11	Red tower;	28.
12262	-E. breakwater. F 5269.55	33° 28.7' N 129° 56.7' E	Iso.R. period 4s	31 9	7 21.	Red tower;	
12264	-E. Harbor, W. breakwater. F 5269.7	33° 28.0' N 129° 59.0' E	Iso.R. period 6s	36 11	11 31.	Red round concrete structure;	
12268	--E. breakwater. F 5269.62	33° 27.9' N 129° 58.6' E	Fl.(2)G. period 8s	36 11	8 28.	White round concrete structure, quadrangular concrete base.	
12272	-Taka Shima, W. breakwater. F 5269.6	33° 28.3' N 129° 59.2' E	Fl.G. period 4s	39 12	5 31.	White round concrete tower;	
12276	Eboshi Jima. F 5262	33° 41.0' N 129° 59.0' E	Fl.W. period 15s	184 56	20 52.	White round concrete structure;	
12280	Iso Saki, breakwater. F 5269.8	33° 30.3' N 130° 05.4' E	F.I.R. period 5s	43 13	12 31.	Red tower;	
12284	Tikuzen No Se. F 5269.96	33° 33.9' N 130° 05.4' E	Mo.(A)G. period 8s	49 15	5 46.	PORT (B) G, beacon, topmark;	
12286	Keya Ko. F 5270.15	33° 35.1' N 130° 06.5' E	Iso.G. period 6s	30 9	6 18.	White tower;	
12288	Kishi Ko, breakwater, head. F 5269.94	33° 34.0' N 130° 07.0' E	F.FI.G. period 3s	36 11	F. 5 Fl 11	White round concrete structure, quadrangular concrete base;	28.
12292	Tikuzen Hunakosi Ko, W. breakwater. F 5269.92	33° 33.1' N 130° 07.7' E	Fl.(2)G. period 6s	39 12	6 31.	White round concrete structure;	
12296	Kamuri Ko, W. breakwater. F 5269.9	33° 32.8' N 130° 09.7' E	F.FI.(2)R. period 6s	36 11	F. 6 Fl 11	Red tower;	31.
12300	Nogita Ko, W. breakwater. F 5270.2	33° 36.7' N 130° 09.7' E	F.FI.(2)G. period 8s	36 11	F. 5 Fl 11	White round concrete structure;	26.
12304	Todai Se. F 5270	33° 39.2' N 130° 07.4' E	Fl.(2)W. period 5s	43 13	9 39.	ISOLATED DANGER BRB, beacon, topmark;	
12308	Nagama Syo. F 5270.4	33° 42.1' N 130° 09.0' E	Q.W.	43 13	5 39.	N. CARDINAL BY, beacon, topmark;	
12312	Nishinoura, breakwater, head. F 5270.3	33° 38.9' N 130° 12.4' E	Fl.G. period 3s	53 16	12 31.	White round concrete structure;	

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JAPAN-KYUSHU							
12316 F 5271	Nishima Misaki.	33° 40.0' N 130° 13.0' E	Fl.W. period 6s	256 78	20	White round concrete structure; 30.	
12320 F 5272	Genkai Jima.	33° 41.0' N 130° 14.0' E	Fl.W. period 15s	259 79	23	White round concrete tower; 36.	Visible 121°-318°.
12324 F 5272.4	-Breakwater.	33° 40.9' N 130° 14.1' E	Fl.(2)R. period 7s	39 12	7	White round concrete structure; 28.	
12328 F 5270.6	Kurinokami Sho.	33° 48.1' N 130° 15.9' E	Fl.(2)W. period 5s	56 17	5	ISOLATED DANGER BRB, beacon, topmark; 56.	
12332 F 5284.4	Aino Shima.	33° 45.5' N 130° 21.8' E	Iso.W. period 8s	285 87	20	White round concrete structure on quadrangular concrete base; 33.	
12336 F 5284	Tikuzen Aino Shima Ko, S. breakwater, head.	33° 45.2' N 130° 22.1' E	Fl.G. period 3s	36 11	6	White round concrete structure; 31.	
12338 F 5274.5	Hiro Ko.	33° 40.1' N 130° 17.4' E	Fl.G. period 3s	31 9	3	White tower; 16.	
12340 F 5273	Karatomari Ko, No. "1" breakwater.	33° 38.4' N 130° 13.9' E	Fl.R. period 3s	31 9	6	Red round tower on quadrangular base; 21.	
12344 F 5274	Nokono Shima.	33° 38.0' N 130° 18.0' E	Iso.W. period 6s	105 32	16	White square concrete tower; 39.	
12346 F 5275.2	Shike Shima Ko, breakwater.	33° 39.5' N 130° 18.7' E	Fl.R. period 3s	27 8	6	Red tower; 19.	
12348 F 5275	Shike Shima Ko, W. breakwater.	33° 39.6' N 130° 18.8' E	Iso.G. period 6s	36 11	11	White round tower on quadrangular base; 28.	
12352 F 5275.4	Sika Shima, N. breakwater.	33° 39.7' N 130° 19.2' E	F.FI.R. period 3s	33 10	F. 6 Fl. 11	Red round concrete structure, quadrangular base; 28.	Breakwater extends NW. to shore.
12356 F 5279	Ha Shima.	33° 38.6' N 130° 20.2' E	Fl.W. period 3s	36 11	11	White round concrete structure; 31.	
HAKATA KO:							
12360 F 5282	-W. detached breakwater, N. head.	33° 36.9' N 130° 23.1' E	Iso.R. period 6s	56 17	13	Red tower; 61.	Several lights shown from piers in the harbor.
12364 F 5282.5	-W. breakwater.	33° 36.4' N 130° 22.7' E	Fl.G. period 4s	27 8	9	White quadrangular concrete tower; 25.	
12368 F 5282.4	-S. breakwater.	33° 36.4' N 130° 22.7' E	F.FI.R. period 4s	36 11	F. 6 Fl. 10	Red round concrete structure; 31.	
12372 F 5280	-E. breakwater.	33° 37.2' N 130° 23.2' E	Iso.G. period 6s	39 12	11	White concrete tower; 33.	
12382	-Aratu Ohasi.	33° 36.0' N 130° 23.0' E	Iso.W. period 4s	135 41	11		Marks center of span.
12384	--E. side.	33° 36.0' N 130° 23.1' E	Iso.G. period 4s	135 41	8		
12388	--W. side.	33° 36.0' N 130° 23.0' E	Iso.R. period 4s	132 40	8		
12390 F 5283	Nata Ko.	33° 41.7' N 130° 24.2' E	Fl.G. period 3s	36 11	3	White tower; 16.	
12392 F 5288	O Shima.	33° 54.0' N 130° 25.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	167 51	19	White square concrete tower; 36.	Visible 033°-249°.
12396 F 5289	-E. breakwater.	33° 53.6' N 130° 26.5' E	Fl.R. period 3s	36 11	11	Red tower; 29.	
12400 F 5289.2	-S. breakwater.	33° 53.7' N 130° 26.2' E	Iso.R. period 6s	23 7	7	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12404 <i>F 5289.8</i>	Kurara Se.	33° 55.0' N 130° 28.8' E	Fl.W. period 3s	92 28	12	White round concrete tower; 32.	
12408 <i>F 5291</i>	Kanesaki Ko.	33° 52.7' N 130° 31.7' E	F.Fl.(2)G. period 6s	40 12	F. 5 Fl. 11		
12412 <i>F 5290</i>	Ku Zaki, breakwater, head.	33° 51.0' N 130° 29.0' E	F.Fl.R. period 4s	36 11	F. 6 Fl. 11	Red round concrete tower on square base; 28.	
12416 <i>F 5285</i>	Tsuyazaki Hana.	33° 47.0' N 130° 27.1' E	Fl.W. period 4s	213 65	20	White round concrete tower; 29.	F.W. light illuminates reef southward.
12420 <i>F 5286</i>	-Breakwater.	33° 46.9' N 130° 27.5' E	F.Fl.R. period 6s	39 12	F. 6 Fl. 14	Red tower; 31.	
12424 <i>F 5291.4</i>	Hatsu Saki, breakwater, head.	33° 53.0' N 130° 34.0' E	F.Fl.R. period 3s	46 14	F. 6 Fl. 12	Red round concrete structure; 31.	
JAPAN-KYUSHU-OUTLYING ISLANDS							
12428 <i>F 5291.5</i>	Ashiya, AVIATION LIGHT.	33° 53.0' N 130° 40.0' E	Al.Fl.W.G. period 5s	203 62		Metal framework tower; 103.	
12430	-Outer breakwater, W. head.	33° 53.7' N 130° 39.1' E	Fl.G. period 3s	43 13	8	White tower; 31.	
12432 <i>F 5291.6</i>	Kashiwabaru Ko, W. breakwater.	33° 54.4' N 130° 39.8' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 31.	
12436 <i>F 5292</i>	Myoken Saki.	33° 56.0' N 130° 41.1' E	Oc.(2)W. period 12s lt. 3s, ec. 2s lt. 3s, ec. 4s	85 26	15	White round concrete tower; 33.	
12438 <i>F 5293</i>	Yawata Saki.	33° 55.8' N 130° 44.0' E	Iso.R. period 4s	33 10	11	Red tower; 26.	
12440 <i>F 5076</i>	Okino Shima.	34° 14.5' N 130° 06.4' E	Al.Fl.(2+1)W.R. period 60s 2 W. fl. 10s R. fl., ec. 25s	807 246	37	White square concrete tower; 52.	
12446 <i>F 5078</i>	Okino Sima, S. approach.	34° 14.2' N 130° 06.3' E	Fl.G. period 3s	42 13	3	White tower; 21.	
12447 <i>F 5078.1</i>	Okimosima.	34° 14.1' N 130° 06.3' E	Fl.R. period 4s	33 10	6	Red tower; 12.	
12452 <i>F 5263</i>	Oro Shima, W. breakwater.	33° 51.0' N 130° 02.0' E	Fl.G. period 4s	46 14	12	White round concrete tower; 36.	
12456 <i>F 5070</i>	Kamiagata.	34° 34.0' N 129° 17.0' E	Oc.(3)W. period 16s	443 135	24	White round concrete structure; 33.	
12460 <i>F 5070.2</i>	Ina ko, W. breakwater.	34° 33.2' N 129° 19.0' E	F.Fl.G. period 3s	36 11	F. 5 Fl. 11	White round concrete structure; 31.	
12462 <i>F 5070.3</i>	-Breakwater, head.	34° 33.7' N 129° 18.4' E	Iso.R. period 6s	33 10	7	Red tower; 19.	
12464	Nita Wan, S. approach.	34° 31.2' N 129° 18.7' E	F.W.	308 94		White concrete structure; 33.	
12468 <i>F 5070.5</i>	Tsuyanagi.	34° 30.5' N 129° 18.2' E	Fl.R. period 4s	43 13	9	Red concrete structure; 33.	
12472 <i>F 5069.4</i>	So Saki.	34° 38.6' N 129° 19.4' E	Fl.W. period 5s	276 84	23	Round concrete tower, red and white bands; 36.	Visible 020°30'-252°30'.
12476 <i>F 5069</i>	-Sasuna Ko, entrance.	34° 38.6' N 129° 23.1' E	F.Fl.W. period 6s	36 11	F. 8 Fl. 11	White round concrete tower; 31.	
12477 <i>F 5069.2</i>	Nisituya Ko.	34° 39.9' N 129° 24.3' E	Fl.G. period 3s	27 8	5	White tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12478	-Wani Ura RAMARK	34° 41.1' N 129° 25.6' E					
12480 F 5068.4	-Waniura Ko, N. breakwater, head.	34° 42.0' N 129° 26.0' E	Iso.R. period 6s	39 12	11 31	Red round concrete structure;	
12484 F 5068	-Mitsu Shima, island, off N. head.	34° 43.2' N 129° 26.8' E	Fl.W. period 15s	76 23	14	White round concrete tower, square base; 46.	Visible 051°-314°.
12488 F 5067	Oki-No-Siine Shima.	34° 42.0' N 129° 28.0' E	Fl.W. period 4s	69 21	12	White round concrete tower; 33.	
12490 F 5066	Hitakatu Ko.	34° 40.5' N 129° 28.6' E	Oc.R. period 8s	23 7	7		
12492 F 5065	Sita Saki.	34° 40.8' N 129° 29.7' E	Iso.W. period 8s	75 23	14	White round concrete tower; 31.	F. illuminates reef 340 meters ENE.
12496	-Jodo Zaki.	34° 39.0' N 129° 30.0' E	Fl.W. period 3s	85 26	15	White round concrete structure; 30.	
12500 F 5062	Ikatsuti Saki.	34° 39.0' N 129° 29.0' E	F.FI.R. period 5s	36 11	F. Fl	6 11	Red round concrete structure on quadrangular base; 31.
12504 F 5060	Nishitomari Wan Range, front.	34° 39.0' N 129° 28.0' E	F.Y.	194 59	16	White round concrete tower, triangular topmark; 39.	
12508 F 5060.1	-Rear, about 113 meters 298°30' from front.	34° 39.4' N 129° 28.2' E	F.Y.	220 67	16	White round concrete tower, triangular topmark; 20.	
12510 F 5057.9	Tozyusi Ko, breakwater.	34° 36.8' N 129° 28.9' E	Fl.G. period 3s	30 9	5	White tower; 22.	
12512 F 5057	-Kin Wan.	34° 32.9' N 129° 28.2' E	Fl.W. period 10s	251 76	22	White quadrangular concrete tower; 25.	Visible 195°30'-021°20'.
12516 F 5057.4	--W. breakwater, head.	34° 32.9' N 129° 27.7' E	Oc.G. period 4s	39 12	11	White round concrete structure; 31.	
12520 F 5056.9	-Tusima Hitoe Ko.	34° 31.8' N 129° 27.2' E	Fl.G. period 3s	39 12	6	White tower; 28.	
12524 F 5056.8	-Hitoe Wan, E. breakwater	34° 32.0' N 129° 27.0' E	Iso.R. period 6s	32 10	11	Red round concrete tower; 28.	
12528 F 5056.6	-Saga Ko, E. breakwater.	34° 26.9' N 129° 22.6' E	F.FI.R. period 3s	46 14	F. Fl	6 11	Red round tower on quadrangular base; 32.
12532 F 5056.4	-Nagasaki Hana.	34° 24.5' N 129° 23.9' E	Fl.W. period 4s	158 48	19	White round concrete tower; 33.	F.W. light illuminates reef NE. of light.
12536 F 5056	-Yokoura Wan.	34° 24.1' N 129° 22.6' E	F.FI.R. period 4s	42 13	F. Fl	6 12	Red round concrete tower; 31.
12540 F 5052.5	Orise Hana.	34° 17.8' N 129° 23.7' E	Iso.W. period 8s	377 115	20	White round concrete tower; 28.	
12544 F 5052	-Kuro Shima.	34° 19.0' N 129° 24.7' E	Fl.W. period 5s	472 144	7	White round concrete tower; 43.	
12548 F 5053	-Manzeki-no-Seto, E. entrance.	34° 18.0' N 129° 22.0' E	F.G.	19 6	8	White round concrete tower; 19.	Visible 158°-052°.
12552 F 5054	-Manzeki-no-Seto, W. entrance.	34° 18.0' N 129° 21.0' E	F.G.	23 7	8	White round concrete tower; 19.	Visible 280°-158°.
12556 F 5051	-Ohunakosi Ko, S. breakwater, head.	34° 16.4' N 129° 21.3' E	Fl.G. period 3s	36 11	6	White round concrete structure; 29.	
12558 F 5051.5	-E. breakwater, head.	34° 16.3' N 129° 21.4' E	Fl.(2)G. period 6s	36 11	8		
12562 F 5050.5	-Breakwater.	34° 12.8' N 129° 18.0' E	Oc.G. period 8s	33 10	6		
12564 F 5047	-Yara Zaki.	34° 11.5' N 129° 18.0' E	Oc.W. period 8s	148 45	18	White quadrangular concrete tower; 22.	

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JAPAN-KYUSHU-OUTLYING ISLANDS							
12568 <i>F 5050</i>	-Izuhara Ko, E. breakwater.	34° 11.5' N 129° 17.7' E	Iso.R. period 4s	43 13	3	Red tower; 31.	Y. lights 388 meters S., 597 meters SW.
12580 <i>F 5042</i>	-Ko Saki.	34° 05.0' N 129° 13.0' E	Fl.W. period 15s	200 61	21	White octagonal concrete tower; 36.	Visible 261°-114°. Signal station (by day).
12582 <i>F 5040</i>	-Tuto Ko, breakwater.	34° 06.2' N 129° 12.8' E	Iso.G. period 6s	46 14	12	White tower; 35.	
12584 <i>F 5039</i>	-Tsutsu Ko, S. breakwater.	34° 07.0' N 129° 11.0' E	F.Fl.G. period 3s	39 12	F. 5 Fl 11	White round concrete structure.	
12588 <i>F 5038</i>	-Tutu Saki	34° 06.1' N 129° 10.2' E	Fl.W. period 10s	348 106	26	White round tower; 64.	
	-RAMARK				27		Azimuth coverage 119°-358°.
12590 <i>F 5074.6</i>	--N.	34° 10.0' N 129° 10.7' E	Fl.G. period 3s	46 14	8	White tower; 29.	
12596 <i>F 5074</i>	-Komoda Ko, W. Training Wall.	34° 14.0' N 129° 11.0' E	F.Fl.R. period 6s	43 13	F. 8 Fl 12	Red round concrete tower; 33.	
12600 <i>F 5071</i>	-Mine Ko Sin Saki.	34° 26.7' N 129° 17.1' E	Fl.W. period 3s	39 12	11	White round concrete structure on quadrangular concrete base; 33.	
12604 <i>F 5073</i>	Aso Wan Mizus-aki Zyoko.	34° 20.9' N 129° 16.1' E	F.Fl.G. period 6s	39 12	F. 5 Fl 11	White tower; 31.	
12608 <i>F 5072</i>	-Go Saki.	34° 20.0' N 129° 12.0' E	Iso.W. period 6s	89 27	15	White round concrete structure; 28.	
12612 <i>F 5073.2</i>	Imo Saki.	34° 20.0' N 129° 16.0' E	Fl.W. period 3s	43 13	12	White round concrete structure; 33.	
12614 <i>F 5073.3</i>	Nii Byoti.	34° 21.2' N 129° 18.1' E	Fl.(2)W. period 5s	26 8	9	ISOLATED DANGER BRB, beacon, topmark.	
12616 <i>F 5073.4</i>	Mezumi Shima.	34° 19.0' N 129° 18.0' E	Fl.W. period 4s	46 14	9	White round concrete tower; 43.	
12620 <i>F 5073.7</i>	Kuromi Saki.	34° 17.8' N 129° 19.5' E	Fl.W. period 5s	95 29	12	White round concrete structure; 39.	
12622 <i>F 5073.6</i>	-NW. of Takesiki Byoti.	34° 16.9' N 129° 18.9' E	Iso.G. period 6s	23 7	6	White tower; 18.	
12624 <i>F 5259</i>	Naga Shima.	33° 43.0' N 129° 38.0' E	Fl.W. period 4s	161 49	19	White quadrangular concrete tower; 26.	
12628 <i>F 5259.2</i>	Oshima Ko, E. breakwater.	33° 44.0' N 129° 38.6' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 31.	
12630 <i>F 5259.32</i>	Hunori Se.	33° 44.7' N 129° 38.5' E	Fl.R. period 4s	42 13	9	STARBOARD (B) R, beacon, topmark.	
12632 <i>F 5259.34</i>	Iki U Se.	33° 45.0' N 129° 39.0' E	Oc.(2)W. period 12s lt. 3s, ec. 2s lt. 3s, ec. 4s	46 14	12	White round concrete structure; 28.	
12636 <i>F 5259.38</i>	Tenaga Shima.	33° 49.8' N 129° 39.6' E	Fl.W. period 3s	72 22	12	White round concrete structure; 31.	
12638 <i>F 5259.45</i>	Katumoto Ko, breakwater, S. head.	33° 51.3' N 129° 40.9' E	Fl.G. period 3s	49 15	8	White tower; 36.	
12640 <i>F 5260</i>	Wakamiya Shima.	33° 52.0' N 129° 41.0' E	Oc.W. period 8s	348 106	25	White octagonal stone tower; 32.	Visible 027°-289°. Radio beacon. DGPS Station.
12641	-Approach beacon.	33° 52.7' N 129° 41.6' E	Q.W.	23 7	9	N. CARDINAL BY, topmark.	
12644 <i>F 5259.6</i>	Katsumoto Ko, No. "1" Range, front.	33° 51.6' N 129° 41.6' E	F.Y.	62 19	13	Round concrete structure, white triangular topmark; 36.	

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JAPAN-KYUSHU-OUTLYING ISLANDS							
12648 F 5259.61	-No. "1" rear, 60 meters from front.	33° 51.6' N 129° 41.6' E	F.Y.	79 24	14	Round concrete structure, white triangular topmark; 31.	
12660 F 5259.4	Katsumoto Ko, W. breakwater, head.	33° 51.0' N 129° 42.0' E	F.FI.R. period 5s	39 12	Fl 11	Red round concrete structure; 28.	
12664 F 5260.4	Uoturi Saki.	33° 50.4' N 129° 46.4' E	Fl.W. period 4s	190 58	20	White round tower on quadrangular base; 28.	
12668 F 5261	Ashibe Ko.	33° 48.0' N 129° 45.9' E	Oc.W. period 8s	138 42	18	White tower; 29.	
12670 F 5260.8	-Breakwater.	33° 48.8' N 129° 45.9' E	Iso.R. period 6s	43 13	12		F.W. light on same structure.
12672 F 5261.4	-S. breakwater, head.	33° 48.2' N 129° 45.8' E	Iso.G. period 4s	43 13	12	White round concrete structure; 31.	
12676 F 5261.3	-Outer breakwater.	33° 48.2' N 129° 46.1' E	Fl.R. period 4s	52 16	12	Red tower; 36.	
12680 F 5261.2	-N. breakwater, head.	33° 48.3' N 129° 45.7' E	Iso.R. period 4s	43 13	12	Red round concrete structure; 31.	
12684 F 5259.36	Yawata Ura.	33° 46.0' N 129° 49.0' E	Fl.W. period 3s	72 22	12		
12688 F 5259.3	Gonovra Ko, N. breakwater, head.	33° 44.0' N 129° 41.0' E	F.FI.G. period 3s	46 14	F. 5 Fl 12	White round concrete structure; 31.	
12689 F 5259.27	-Breakwater, head.	33° 44.2' N 129° 40.8' E	Fl.R. period 3s	43 13	11		
12689.1 F 5259.29	-NW. breakwater.	33° 44.9' N 129° 40.2' E	Iso.G. period 6s	31 9	6	White tower; 19.	
12690 F 5261.72	Kuki Ko, breakwater.	33° 44.0' N 129° 44.3' E	Fl.R. period 3s	33 10	6	Red concrete structure; 22.	
12692 F 5261.5	Oto Shima.	33° 44.3' N 129° 47.5' E	Iso.W. period 8s	46 14	12	White round concrete tower; 21.	
12696 F 5261.7	Indoij Ura, W. breakwater.	33° 44.2' N 129° 45.4' E	F.FI.G. period 5s	36 11	F. 5 Fl 11	White round concrete tower; 28.	
12697	-Inner breakwater.	33° 44.0' N 129° 45.4' E	Fl.G. period 3s	46 14	8	White tower; 28.	
12698 F 5261.8	Go Se, approach to Gonoura Ko.	33° 42.3' N 129° 41.8' E	Fl.W. period 5s	36 11	9	White concrete tower; 25.	
12700 F 5261.74	Iruka Saki.	33° 42.1' N 129° 43.1' E	Oc.(2)W. period 6s	102 31	16	White round concrete tower; 33.	
12704 F 5258	Futagami Shima.	33° 36.1' N 129° 33.3' E	AI.FI.W.G. period 20s	325 99	25	White octagonal concrete tower; 46.	
12708	Kakara Shima.	33° 37.0' N 129° 52.0' E	Fl.W. period 3s	233 71	22	White square concrete structure; 36.	
12712 F 5261.9	Na Shima.	33° 43.9' N 129° 51.6' E	Fl.W. period 5s	105 32	12	White round concrete structure; 46.	
12716 F 5017.8	Tsushima Hana.	33° 17.9' N 129° 07.7' E	Iso.W. period 8s	95 29	15	White round concrete structure; 39.	A F.W. light illuminates a a beacon on Tusima SE. about 380 meters NNE.

GOTO RETTO:

12720 F 5018	-Koshiki Jima.	33° 18.0' N 129° 10.0' E	Fl.W. period 10s	230 70	22	White round structure; 43.
12724 F 5016	-Kuromo Se.	33° 14.3' N 129° 11.3' E	Fl.W. period 3s	70 21	14	White round concrete structure; 25.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12728 <i>F 5025</i>	-Tsuwa Zaki.	33° 10.0' N 129° 07.0' E	F.FI.W. period 5s	391 119	F. 10 Fl 20	White round concrete structure quadrangular concrete base; 30.	
12729 <i>F 5025.5</i>	-Kuro Se.	33° 09.0' N 129° 00.5' E	FI.W. period 5s	36 11	9	White concrete tower; 25.	
12730 <i>F 5021</i>	-Ozika Ko, breakwater.	33° 10.6' N 129° 03.2' E	FI.G. period 4s	49 15	11	White concrete structure; 31.	
12732 <i>F 5022</i>	-Ojika Shima, Fuefuki Ko.	33° 10.7' N 129° 03.9' E	Iso.G. period 6s	46 14	12	White round concrete structure; 30.	
12736 <i>F 5024</i>	--S. breakwater.	33° 10.8' N 129° 03.9' E	FI.R. period 3s	33 10	6	Red round concrete tower; 22.	
12740 <i>F 5016.4</i>	-Ai Se.	33° 13.9' N 129° 05.7' E	FI.W. period 5s	49 15	12	White round concrete structure; 33.	
12744 <i>F 5017.7</i>	-Nagasaki Hana.	33° 16.2' N 129° 09.6' E	Oc.W. period 4s	33 10	11	White tower; 25.	
12748 <i>F 5017.4</i>	-Taira, breakwater.	33° 15.3' N 129° 08.0' E	FI.R. period 3s	39 12	11	Red round concrete structure; 33.	
12750 <i>F 5017.5</i>	--Detached breakwater, SW. head.	33° 15.1' N 129° 08.2' E	FI.(2)R. period 6s	50 15	8	Red tower; 31.	
12756 <i>F 5017.2</i>	-S. breakwater, head.	33° 14.9' N 129° 05.7' E	F.FI.(2)R. period 7s	36 11	F. 6 Fl 11	Red round concrete structure; 28.	
12760 <i>F 5020</i>	-Madara Shiam, NW. extremity of island.	33° 13.0' N 129° 01.0' E	Oc.(2)W. period 12s lt. 3s, ec. 2s lt. 3s, ec. 4s	62 19	13	White round concrete tower; 32.	
12764 <i>F 5026</i>	-Shiro Se.	33° 10.8' N 128° 48.3' E	FI.W.R. period 4s	125 38	W. 17 R. 16	White square concrete tower; 26.	R. 041°-063°, W.-251°, R.-264°, W.-041°.
12768 <i>F 5015.3</i>	-Maruo, breakwater, head.	33° 00.0' N 129° 06.0' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 30.	
12772 <i>F 5015</i>	-Mamako Se.	32° 59.9' N 129° 06.6' E	FI.W. period 3s	56 17	12	White round concrete tower; 29.	
12774 <i>F 5014.5</i>	-Arikawa Wan, breakwater, head.	32° 59.3' N 129° 06.4' E	FI.G. period 3s	32 10	3	White tower; 16.	
12776 <i>F 5014</i>	-Hirakushi Saki.	32° 59.0' N 129° 07.0' E	FI.W. period 5s	118 36	17	White quadrangular concrete tower; 31.	
12780 <i>F 5013</i>	-Hira Shima.	32° 59.8' N 129° 13.5' E	FI.W. period 4s	174 53	19	White round concrete tower; 63.	
12784 <i>F 5013.4</i>	-Hira Shima Ko, breakwater, head.	32° 59.9' N 129° 14.0' E	FI.R. period 3s	56 17	6	Red tower; 31.	
12786 <i>F 5012.8</i>	Sakiura Ko.	32° 59.6' N 129° 11.0' E	FI.G. period 3s	36 11	5	White tower; 18.	
12788 <i>F 5011.4</i>	-Ota, breakwater.	32° 57.1' N 129° 09.2' E	Iso.G. period 4s	46 14	12	White round concrete structure, 31.	
12792 <i>F 5011</i>	-Aino Shima.	32° 56.1' N 129° 11.3' E	FI.W. period 5s	82 25	12	White round concrete structure; 79.	
12796 <i>F 5012</i>	-Kanko Jima.	32° 56.0' N 129° 07.0' E	FI.W. period 4s	66 20	12	White round concrete tower; 30.	
12800 <i>F 5012.4</i>	-Ayetsu, breakwater.	32° 56.9' N 129° 06.7' E	Iso.R. period 6s	39 12	7	Red tower; 31.	
12802 <i>F 5011.5</i>	-Arikawa Konoura Ko.	32° 55.3' N 129° 05.3' E	FI.R. period 6s	27 8	6	Red tower; 18.	
12804 <i>F 5010.6</i>	-Hamakusi Ko, S. breakwater.	32° 53.6' N 129° 05.4' E	FI.R. period 3s	56 17	5	White round tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12806 <i>F 5010.5</i>	-Narao Ko, breakwater.	32° 52.7' N 129° 05.5' E	Oc.R. period 8s	49 15	12		
12808 <i>F 5026.6</i>	-Tuboga Se.	33° 04.3' N 129° 04.0' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
12812 <i>F 5027</i>	-Yagatameno Hana.	33° 03.0' N 129° 04.0' E	Iso.W. period 8s	131 40	17	White round concrete structure; 36.	
12816 <i>F 5027.4</i>	-Aokata Ko, Itino Se.	32° 59.3' N 129° 02.5' E	Mo.(A)G. period 8s	46 14	5	PORT (B) G, beacon, topmark; 36.	
12818	-Breakwater, S. head.	32° 58.7' N 129° 03.1' E	Fl.G. period 3s	29 9	5	White tower; 18.	
12820 <i>F 5027.6</i>	-Aokata Wan.	32° 59.0' N 129° 03.0' E	Iso.R. period 6s	39 12	11	Red round concrete tower on square base; 28.	
12824 <i>F 5028</i>	-Kushi Jima.	32° 58.0' N 128° 59.0' E	Fl.W. period 4s	373 114	17	White round concrete tower, square base; 36.	
12828 <i>F 5028.4</i>	-Arifuku Jima.	32° 55.2' N 128° 55.8' E	Fl.W. period 3s	66 20	11	White round concrete structure; 33.	
12832 <i>F 5009</i>	-Sao Ko, No. "3" breakwater.	32° 49.4' N 129° 03.0' E	Iso.G. period 4s	46 14	12	White round concrete tower; 31.	
12836 <i>F 5009.6</i>	-Goto Sao Saki.	32° 48.6' N 129° 04.0' E	Fl.W. period 3s	73 22	14	White round concrete structure; 39.	
12840 <i>F 5010.4</i>	-Narao Ko, N. breakwater.	32° 50.2' N 129° 04.0' E	Oc.R. period 4s	36 11	11	Red round concrete structure; 30.	
12844 <i>F 5010.2</i>	-Narao Ko, S. breakwater.	32° 50.0' N 129° 04.0' E	Oc.G. period 6s Lt. 4s, ec. 2s	49 15	12	White round concrete structure; 33.	
12848 <i>F 5010.35</i>	Ko-narao.	32° 51.0' N 129° 04.0' E	F.FI.R. period 3s	49 15	F. 6 Fl 12	Red round concrete structure; 31.	
12852 <i>F 5010.3</i>	-Ko-narao Ko Minami, S. breakwater, head.	32° 50.8' N 129° 03.8' E	F.FI.G. period 3s	54 16	F. 5 Fl 12	White round concrete structure, quadrangular base; 31.	
12856 <i>F 5008</i>	-Takanou Hana.	32° 45.0' N 129° 00.0' E	Iso.W. period 6s	72 22	14	White round concrete tower; 39.	
12860 <i>F 5010</i>	-Otona Se.	32° 49.0' N 129° 05.6' E	Fl.(2)W. period 5s	66 20	12	ISOLATED DANGER BRB, beacon, topmark; 52.	
12862 <i>F 5008.2</i>	Ban-dake.	32° 45.2' N 128° 58.2' E	Fl.G. period 3s	25 8	3	White tower; 16.	
12864 <i>F 5006</i>	-Fukue Ko, N. breakwater.	32° 42.0' N 128° 51.0' E	Fl.(2)R. period 8s	43 13	12	Red round concrete structure; 30.	
12868 <i>F 5006.4</i>	-S. breakwater, N. head.	32° 42.1' N 128° 51.4' E	Fl.(2)G. period 6s	46 14	6	White tower; 33.	
12876 <i>F 5005.7</i>	-Sakiyama Ko, N. breakwater, head.	32° 39.3' N 128° 53.4' E	Fl.R. period 3s	42 13	12	Red round concrete structure on quadrangular base; 28.	
12880 <i>F 5004</i>	-Tomie Ko, on Okinokuro Se.	32° 38.0' N 128° 47.0' E	Fl.W. period 5s	36 11	11	White round concrete tower; 28.	
12884 <i>F 5005</i>	--Breakwater, W. head.	32° 37.5' N 128° 46.3' E	Fl.G. period 3s	33 10	4	White tower; 20.	
12888 <i>F 5005.4</i>	--Ohama Ko, S. breakwater.	32° 39.0' N 128° 49.0' E	Oc.R. period 6s Lt. 5s, ec. 1s	39 12	11	Red round concrete tower; 31.	
12890 <i>F 5002.7</i>	-Hukue Sima, breakwater.	32° 35.1' N 128° 45.0' E	Fl.R. period 5s	46 14	3	Red tower; 16.	
12892 <i>F 5002.8</i>	-Kasayama Saki.	32° 34.0' N 128° 46.0' E	Iso.W. period 6s	62 19	13	White round concrete structure; 36.	F.W. auxiliary light illuminates white post on reefs 230 meters S.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12894 <i>F 5003.5</i>	Wakou Ko, S. breakwater, head.	32° 34.5' N 128° 46.8' E	F.FI.G. period 4s	39 12	F. 5 Fl 11	White tower; 28.	
12896 <i>F 5002.6</i>	-Kurose Ko, S. breakwater, head.	32° 36.0' N 128° 44.0' E	Oc.R. period 4s lt. 3s, ec. 1s	49 15	12	Red round concrete structure; 32.	
12900 <i>F 5002.4</i>	-Daiho Ko, S. breakwater.	32° 35.6' N 128° 39.5' E	Iso.G. period 6s	43 13	12	White round concrete tower; 33.	
12904 <i>F 5002</i>	-Ose Zoki.	32° 37.0' N 128° 36.0' E	Fl.W. period 10s	272 83	23	White round concrete structure; 52.	Visible 301°-175°. Signal station (by day). Radio beacon, DGPS Station, 741 meters NE.
12908 <i>F 5034</i>	-Tamanoura Ko, groin.	32° 39.0' N 128° 37.0' E	F.FI.R. period 5s	36 11	6 11	Red round concrete tower; 28.	
12912 <i>F 5032</i>	-Tamanoura, Kuro Se.	32° 41.0' N 128° 38.0' E	Fl.W. period 3s	112 34	14	White round concrete tower on square concrete base; 29.	
12916 <i>F 5033</i>	Tamanoura Ko.	32° 39.9' N 128° 40.0' E	Fl.W. period 3s	115 35	17	White round concrete structure; 28.	
12920 <i>F 5033.5</i>	--Breakwater.	32° 40.0' N 128° 40.0' E	Fl.G. period 3s	112 34	12	White round concrete structure, square base; 31.	
12924 <i>F 5030</i>	-Kashiwa Zaki.	32° 47.0' N 128° 40.0' E	Fl.W. period 6s	79 24	14	White round concrete tower; 52.	
12928	Nagasaki Hana.	32° 46.0' N 128° 38.0' E	Iso.W., F.W. period 6s	72 22	14	White quadrangular concrete structure.	F.W. light illuminates surface 520 meters W.S.W.
12932 <i>F 5029.6</i>	-Miiraku Ko, E. breakwater.	32° 44.6' N 128° 42.1' E	F.FI.R. period 3s	43 13	F. 6 Fl 12	Red round concrete structure on square concrete base; 31.	
12934 <i>F 5029.5</i>	Mizunoura Ko.	32° 44.9' N 128° 44.5' E	Fl.(2)G. period 6s	26 8	5	White concrete structure; 18.	
12936 <i>F 5029.4</i>	-Taketo Shima.	32° 45.7' N 128° 44.5' E	Fl.W. period 4s	125 38	17	White round concrete structure; 28.	
12940 <i>F 5029.2</i>	-Kishuku Ura Range, front.	32° 45.0' N 128° 46.0' E	F.G.	33 10	11	Round concrete structure white rectangular topmark; 26.	
12944 <i>F 5029.21</i>	--Rear, 55 meters 196°06' from front.	32° 45.2' N 128° 45.9' E	F.G.	56 17	12	Round concrete structure, white rectangular daymark; 29.	
12948 <i>F 5029</i>	-Itokushi Bana.	32° 47.8' N 128° 48.5' E	Oc.(2)W. period 12s	351 107	13	White round concrete tower; 31.	
			F.W.				
12952 <i>F 5008.4</i>	-Narushima Ko, Mae Shima, N. breakwater.	32° 48.3' N 128° 56.3' E	Iso.R. period 4s	42 13	12	Red round concrete tower; 31.	
12956 <i>F 5008.6</i>	-Kakarisaki Bana.	32° 49.0' N 128° 55.0' E	Fl.(2)G. period 6s	69 21	12	White round concrete structure; 31.	
			F.W.			Same structure.	Illuminates rock 160 meters SSE.
12960 <i>F 5008.45</i>	-Nurosima Ko.	32° 48.8' N 128° 56.2' E	Fl.G period 3s	39 12	11		
12964 <i>F 5008.5</i>	-Daibano Hana.	32° 49.4' N 128° 56.3' E	Fl.R. period 3s	39 12	6	Red round concrete structure, square base; 31.	
12968 <i>F 5007</i>	-Akahae Bana.	32° 45.0' N 128° 53.0' E	Fl.W. period 4s	49 15	12	White round concrete tower; 36.	
12970 <i>F 5006.55</i>	-Goto Nyudou Se.	32° 45.0' N 128° 50.0' E	Fl.G. period 3s	26 8	3	PORT (B) G, beacon, topmark; 18.	
12972 <i>F 5028.6</i>	-Kurose Hana.	32° 51.5' N 128° 52.5' E	Fl.W. period 5s	59 18	12	White round concrete structure; 31.	
12974 <i>F 5028.8</i>	Hisaka Sima.	32° 50.3' N 128° 50.7' E	Fl.R. period 5s	3 1	4	STARBOARD (B) R, beacon, topmark; 21.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12976 <i>F 5003</i>	O Shima.	32° 33.8' N 128° 54.4' E	Fl.(2)W. period 20s	338 103	25 43.	White square concrete structure;	
12980 <i>F 4998</i>	Me Shima.	31° 59.3' N 128° 21.2' E	Fl.(3)W. period 40s 3 fl. 16s, ec. 24s	391 119	27 49.	White octagonal concrete tower; Visible 215°-162°.	
	RAMARK					Azimuth coverage 046°-342°.	
12984 <i>F 4805</i>	Ie Shima.	31° 12.0' N 129° 29.0' E	Fl.W. period 3s	338 103	12 31.	White round concrete structure;	

Section 8

Ryukyu Islands and Taiwan

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
12988 F4802	Kusagaki Shima.	30° 51.0' N 129° 28.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	459 140	29	White round concrete tower; 46.	
12990 F4804	Kuro Shima.	30° 49.8' N 129° 57.6' E	Al.Fl.(2)W.G. period 10s	784 239	33	White tower; 36.	Visible 125°-359°.
12992 F4787	Satuma.	30° 46.8' N 130° 16.7' E	Fl.W. period 4s	482 147	22	White round concrete structure; 43.	
12994 F4787.2	-Breakwater, head.	30° 46.5' N 130° 16.9' E	Fl.R. period 5s	50 15	6	Red tower; 36.	
12996	Mage Sima.	30° 45.7' N 130° 51.6' E	Fl.W. period 3s	46 14	12	White round concrete structure; 39.	
13000 F4799	Kishika Saki.	30° 49.9' N 131° 03.7' E	Fl.R. period 15s	226 69	21	White quadrangular concrete tower; 43.	Visible 057°-336°.
13002 F4798.8	Nisinoomote Ko.	30° 44.6' N 130° 58.9' E	Fl.(2)R. period 6s	59 18	10	Red tower; 49.	
13004 F4796	Nisinoomote Ko, Sonosaki, breakwater.	30° 44.0' N 130° 59.0' E	F.Fl.G. period 6s	43 13	F. 5 Fl. 12	White round concrete tower; 31.	
13008 F4797	W. breakwater, N. head.	30° 43.5' N 130° 59.0' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 32.	
13012 F4798.4	Sinko, W. breakwater, head.	30° 43.6' N 130° 59.4' E	Iso.G. period 4s	42 13	12	White tower; 31.	
13016 F4798.6	Nisimo-Omote Ko, S. breakwater.	30° 43.7' N 130° 59.1' E	Iso.R. period 4s	46 14	12	Red tower; 33.	
13020 F4794	Surniyoshi Misaki.	30° 39.9' N 130° 56.6' E	Fl.W. period 5s	75 23	14	Quadrangular concrete tower; 33.	
13024 F4793.5	Shimana Ko, W. breakwater.	30° 28.2' N 130° 51.9' E	Fl.(2)R. period 6s	52 16	6	Red tower; 33.	
13028 F4793	Shimana Saki.	30° 28.0' N 130° 51.0' E	Iso.W. period 4s	56 17	13	White round concrete structure; 36.	
13032 F4792	Otake Zaki.	30° 23.0' N 130° 58.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	348 106	26	White round concrete tower; 59.	
13036 F4800.4	Kumano Ko, breakwater.	30° 27.5' N 130° 58.0' E	Iso.R. period 6s	46 14	10	Red tower; 31.	
13040 F4800.6		30° 27.2' N 130° 57.8' E	Dir.F.W.R.G.	92 28	W. 14 R. 10 G. 9	White quadrangular concrete structure; 23.	R. 216°30'-237°30', W.- 240°30', G.-261°30'. 239° centerline of navigable fairway.
13044 F4800	Syoziura Ko, S. breakwater.	30° 43.0' N 131° 05.0' E	F.Fl.G. period 6s	36 11	F. 5 Fl. 11	White round concrete tower; 28.	A F.W. light illuminates rock 120 meters NNW.
13048 F4791.2	Onoaida.	30° 14.0' N 130° 34.0' E	Fl.W. period 6s	171 52	19	White hexagonal concrete structure; 31.	
13052 F4791	Ambo, outer.	30° 19.0' N 130° 40.0' E	Iso.R. period 4s	46 14	12	Red round concrete structure; 36.	
13056 F4790.8	Haya Saki.	30° 22.4' N 130° 40.0' E	Iso.W. period 6s	266 81	20	White round concrete structure; 43.	
13060 F4790.6	Myanoura, N. breakwater.	30° 25.8' N 130° 34.9' E	F.Fl.(2)R. period 7s	49 15	F. 6 Fl. 12	Red quadrangular metal framework structure; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13064 F 4790	Yahazu Saki.	30° 28.0' N 130° 30.0' E	Fl.W. period 10s	144 44	18	White quadrangular concrete structure; 36.	Visible 068°-298°.
13068 F 4790.4	Isso, N. breakwater.	30° 27.4' N 130° 29.5' E	F.FI.R. period 6s	46 14	F. Fl	6 12	Red tower; 32.
13072 F 4788	Nagota Misaki.	30° 23.3' N 130° 22.9' E	Fl.W. period 15s	236 72	22	White round brick tower; 66.	Visible 002°-244°.
RAMARK							
13076 F 4786.3	No Saki.	30° 28.9' N 130° 09.0' E	Fl.(2)W. period 14s	302 92	22	White square structure; 39.	
13080 F 4786	Kuchinoerabu Ko, breakwater.	30° 27.0' N 130° 12.0' E	Fl.(2)R. period 7s 2 fl. 2s, ec. 5s	43 13	7	Red tower; 33.	
13084 F 4786.6	Mega Saki.	30° 25.9' N 130° 16.0' E	Fl.(2)W. period 6s	220 67	16	White tower; 32.	
13088 F 4785	Osumi Hira Se.	30° 02.6' N 130° 02.9' E	Fl.W. period 3s	108 33	8	White tower; 33.	
13092 F 4784.5	Kuti-no-Sima.	29° 59.3' N 129° 54.9' E	Iso.R. period 6s	56 17	13	Red tower; 31.	
13096 F 4783	Nakano Shima.	29° 49.0' N 129° 55.0' E	Fl.(3)W. period 20s	207 63	21	White quadrangular concrete tower; 56.	DGPS Station.
13100 F 4784	Gaja Shima.	29° 54.0' N 129° 32.0' E	Fl.W. period 15s	679 207	31	White round concrete structure; 43.	
13102	Akuseki Sima.	29° 26.8' N 129° 37.0' E	Al.FI.W.G. period 16s	518 158	30	White tower; 48.	Visible 177°-027°.
13104 F 4782.8	Takara Shima.	29° 08.0' N 129° 13.0' E	Fl.W. period 10s	236 72	22	White square concrete tower; 53.	
13108 F 4782.9	-Maegomori Ko, breakwater.	29° 09.6' N 129° 12.5' E	Fl.G. period 3s	52 16	5	White tower; 29.	
13112 F 4782	Tonbi Saki.	28° 22.2' N 130° 01.7' E	Fl.W. period 5s	135 41	18	White round concrete structure; 56.	
13114	Somati Gyoko, breakwater.	28° 19.8' N 130° 00.6' E	Fl.R. period 5s	62 19	11	Red tower.	
13116 F 4782.1	Shitsuru Saki.	28° 16.8' N 129° 57.0' E	Iso.W. period 6s	164 50	19	White round concrete structure; 43.	
13120 F 4782.6	Wan Ko.	28° 19.8' N 129° 56.1' E	Fl.G. period 4s	59 18	10	White tower; 39.	
13124 F 4782.5	Akara Ko Range, front.	28° 19.1' N 129° 57.0' E	F.R.	39 12	8	White concrete column, triangular daymark; 33.	
13128 F 4782.51	-Rear, 500 meters 156°42' from front.	28° 18.9' N 129° 56.5' E	F.R.	102 31	8	White concrete column, white triangular daymark; 30.	
13132 F 4767	Kasari Saki.	28° 32.0' N 129° 42.0' E	Fl.(2)W. period 30s 2 fl. 10s	220 67	21	White tower; 43.	Visible 079°-335°.
13134 F 4767.8	Akakina Ko Range, front.	28° 26.4' N 129° 39.8' E	F.Y.	43 13	12	White tower, white triangular daymark; 40.	
13134.1 F 4767.81	-Rear, 184° from front.	28° 26.4' N 129° 39.8' E	F.Y.	79 24	12	White tower, white triangular daymark; 20.	
13136	Tatsugo Wan, obstruction light.	28° 26.0' N 129° 37.0' E	F.W.	53 16	White round concrete structure; 36.	Illuminate beacon 300 meters SE.	
13140 F 4767.6	Imai Zaki.	28° 28.3' N 129° 37.4' E	Fl.(2)W. period 7s	207 63	20	White round concrete structure; 33.	
13144 F 4768	Borose Saki.	28° 26.6' N 129° 31.6' E	L.FI.W. period 10s	361 110	20	White round tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13148 F 4770	Tategami, entrance to Nasa Ko, W. side.	28° 24.0' N 129° 30.0' E	Fl.(2)W. period 6s	128 39	12	White tower; 29.	
13148.5 F 4770.4	-Breakwater, head.	28° 24.2' N 129° 30.4' E	Fl.R. period 3s	33 10	5	Red tower; 25.	
13150 F 4771	Naze Ko.	28° 23.7' N 129° 30.2' E	Iso.R. period 6s	42 13	12	Red tower; 36.	
13151 F 4771.5	-E. breakwater.	28° 23.7' N 129° 30.3' E	Iso.G. period 6s	43 13	8	White concrete tower; 36.	
13152 F 4775	Nase Ko, No. "1" breakwater.	28° 22.9' N 129° 29.9' E	F.Fl.R. period 5s	39 12	F. 6 Fl 11	Red round concrete tower on quadrangular base; 32.	
13156 F 4776	Groin.	28° 22.7' N 129° 30.0' E	Fl.(2)R. period 6s	32 10	6	Red tower; 19.	
13168 F 4778	Oyama Zaki.	28° 21.7' N 129° 20.6' E	Fl.W. period 5s	624 190	20	White tower; 33.	
RAMARK							
13172 F 4780	Satsuko Saki.	28° 15.0' N 129° 08.3' E	Fl.W. period 15s	456 139	29	White tower; 52.	Visible 323°-233°.
13176 F 4780.5	Onen Saki.	28° 12.0' N 129° 15.0' E	Fl.W. period 5s	118 36	12	White round concrete structure; 29.	
13178 F 4781.8	Kakeroma Sima.	28° 08.2' N 129° 16.4' E	Fl.W. period 4s	13 4	4	White tower; 7.	
13180 F 4780.6	Seto Saki.	28° 08.7' N 129° 17.9' E	Iso.W. period 6s	131 40	17	White round concrete structure; 31.	
13184 F 4780.7	Koniya Ko, breakwater.	28° 08.4' N 129° 18.9' E	Iso.R. period 6s	23 7	7	Red round concrete tower square base; 19.	
13188 F 4781.5	Machiami Saki.	28° 07.0' N 129° 21.0' E	Fl.W. period 3s	59 18	12	White hexagonal concrete tower; 31.	
13192 F 4781	Kaitsu Saki.	28° 06.7' N 129° 22.6' E	Fl.W. period 6s	338 103	20	White tower; 27.	
TOKUNO SHIMA:							
13196 F 4766.5	-Kanami Saki.	27° 53.3' N 128° 58.3' E	Iso.W. period 6s	138 42	18	White round concrete structure; 36.	F.W. illuminates Tombara Iwa about 2 miles NNE.
13200 F 4766.7	Kametoku Ko, S. breakwater.	27° 44.3' N 129° 01.7' E	Fl.G. period 4s	59 18	10	White tower; 42.	
13204 F 4766.8	Kametoku Range, front.	27° 44.3' N 129° 01.4' E	F.Y.	56 17	12	White round concrete tower, arrow topmark; 49.	
13208 F 4766.81	-Rear, about 130 meters 282°30' from front.	27° 44.3' N 129° 01.3' E	F.Y.	72 22	12	White round concrete tower, arrow topmark; 49.	
13212 F 4765.6	Kinen Saki.	27° 40.0' N 128° 59.3' E	Fl.(2)W. period 7s	72 22	14	White tower; 46.	
13216 F 4765.8	Hetono Ko, jetty.	27° 48.5' N 128° 53.5' E	Fl.W. period 3s	46 14	12	White round concrete structure; 28.	
13220 F 4766	Yon ama Saki.	27° 52.7' N 128° 53.6' E	Fl.(2)W. period 10s	177 54	19	White tower; 52.	
OKINO-ERABU SHIMA:							
13224 F 4765.4	-Kunigami Saki.	27° 26.0' N 128° 43.0' E	Fl.W. period 5s	151 46	18	White round concrete structure; 66.	Visible 097°-049°30'. Aero Radiobeacon.
13228 F 4765.34	Wadomari Ko Range, front.	27° 24.0' N 128° 40.0' E	F.R.	52 16	10	White round concrete tower; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13232 F 4765.35	-Rear, about 50 meters from front.	27° 23.6' N 128° 39.7' E	F.R.	69 21	10	White round concrete tower; 32.	
13236 F 4765.3	Tina Ko, wharf.	27° 20.0' N 128° 34.4' E	Dir.F.W.R.G.	95 29	W. R. G.	13 8 43. 10	White round concrete structure; R. 014°18'-022°18', W.-029°48' G.-037°48'.
13240 F 4765.2	Yakuniya Saki.	27° 24.0' N 128° 32.0' E	Fl.(2)W. period 7s	236 72	22	White round concrete structure; 59.	
13242 F 4765.5	-Inobe Ko Range, front.	27° 24.6' N 128° 38.8' E	F.Y.	75 23	12	White tower, white triangular daymark; 52.	
13242.1 F 4765.51	--Rear, 151° from front.	27° 24.6' N 128° 38.8' E	F.Y.	98 30	12	White tower, white triangular daymark; 43.	
YORON JIMA:							
13244 F 4763.8	-Aka Saki.	27° 01.0' N 128° 28.0' E	Fl.W. period 4s	75 23	14	White round concrete structure; 46.	
13248 F 4764	Hanebu Saki.	27° 03.0' N 128° 24.0' E	Iso.W.R. period 6s	65 20	13	White round concrete structure; R. 102°-154°, W.-174°, R.-240°, 32. W.-102°.	
13252 F 4764.4	Yoron Ko Range, front.	27° 03.0' N 128° 25.0' E	F.G.	46 14	12	White round metal tower; 32.	
13256 F 4764.41	-Rear, 45 meters 132°42' from front.	27° 02.6' N 128° 24.7' E	F.G.	62 19	13	White round metal tower; 30.	
13260 F 4765	Dana Misaki.	27° 05.6' N 128° 01.2' E	Fl.W. period 12s	377 115	26	White round tower; 49.	
13261 F 4765.05	Maedomari Ko.	27° 01.9' N 127° 58.2' E	Fl.G. period 3s	56 17	7	White tower; 39.	
13262 F 4764.7	Iheya Gyoko, breakwater, S. head.	27° 00.7' N 127° 56.9' E	Fl.R. period 3s	33 10	7	Red tower; 19.	
13263 F 4764.5	Nakado Ko, breakwater.	26° 55.3' N 127° 57.5' E	Fl.R. period 3s	60 18	9	Red tower; 39.	
OKINAWA JIMA:							
13264 F 4763	-Hedo Misaki.	26° 51.8' N 128° 15.0' E	Fl.W. period 6s	233 71	22	White tower; 35.	
13266 F 4763.2	-Hentona Ko, breakwater.	26° 44.8' N 128° 10.8' E	Fl.G. period 3s	33 10	5	White concrete structure; 18.	
13268 F 4762.9	Setake Saki.	26° 44.7' N 128° 19.6' E	Fl.W. period 10s	285 87	24	Square white concrete tower; 49.	
13272 F 4762.2	Takabaka Saki.	26° 32.0' N 128° 05.4' E	Iso.W. period 6s	82 25	15	White quadrangular concrete structure; 36.	
13280 F 4762.4	Naga Shima.	26° 30.9' N 128° 03.8' E	Fl.W. period 3s	85 26	12	White quadrangular concrete structure; 33.	
13284 F 4758	Mengui Syo, Kin Wan approach.	26° 24.7' N 128° 02.0' E	Q.W.	36 11	11	N. CARDINAL BY, beacon, topmark; 39.	Radar reflector.
13288 F 4761	Kin Wan.	26° 24.5' N 127° 50.2' E	Dir.F.W.R.G.	174 53	W. R. G.	14 11 12	White tower; 33. R. 262°30'-265°30', W.-270°30', G.-272°30'.
13290 F 4761.6	-Beacon No. "4".	26° 25.3' N 127° 50.3' E	Fl.R. period 4s	16 5	2	STARBOARD (B) R, beacon, topmark.	
13292 F 4761.4	Ishikawa, breakwater, head.	26° 25.2' N 127° 51.3' E	Mo.(U)W. period 8s	46 14	12		
13296 F 4759	Ike Sima.	26° 23.7' N 127° 59.8' E	Iso.W.R. period 6s	135 41	18	White round concrete structure; R. 242°-265°, W.-242°, 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13300 F 4759.2	Okinawa Sekiyukiti Sea Berth.	26° 23.1' N 127° 58.6' E	Mo.(U)W. period 15s	135 41	14		Auxiliary lights Mo.(U)W. 15s at 280 meters ENE. and 310 meters SW.
13300.5 F 4759.25	Okinawa Terminal Sea Berth.	26° 22.7' N 127° 57.9' E	Mo.(U)W. period 12s	112 34	14		Auxiliary lights Mo.(U)W. 12s 240 meters NE. and 240 meters SW.
13302 F 4760	Kin Wan Offshore Terminal.	26° 22.6' N 127° 53.5' E	Mo.(U)W. period 8s	49 15	12		
13304 F 4759.4	Kin Nagakusuku Ko.	26° 21.5' N 127° 56.4' E	Q.(3)W. period 10s	24 7	10	E. CARDINAL BYB, beacon, topmark.	
13305 F 4754.7	-Hamahiga-kuchi.	26° 20.0' N 127° 59.8' E	Fl.R. period 3s	18 5	4	STARBOARD (B) R, beacon, topmark; 18.	
13306 F 4754.6	Hamahiga Sa, breakwater.	26° 19.5' N 127° 57.2' E	Fl.G. period 3s	24 7	5	White concrete structure; 18.	
13308 F 4754	Katuren Saki.	26° 18.0' N 127° 55.0' E	Fl.W. period 6s	200 61	17	White quadrangular concrete structure; 33.	
13310 F 4754.8	-W. detached breakwater, E. head.	26° 18.4' N 127° 52.1' E	Fl.G. period 3s	42 13	5	White tower; 31.	
13310.5 F 4754.9	-E. detached breakwater, W. head.	26° 18.5' N 127° 52.3' E	Fl.R. period 3s	33 10	4	Red tower; 18.	
13311	-Small craft basin, W. breakwater, head.	26° 17.9' N 127° 54.7' E	F.G.	10 3	4		
13311.5	--E. breakwater, head.	26° 17.9' N 127° 54.7' E	F.R.	10 3	4		
13316 F 4752	Tsuken Jima.	26° 15.0' N 127° 57.0' E	Fl.W. period 4s	167 51	19	White round concrete structure; 46.	
13320 F 4752.4	-Breakwater, head.	26° 14.5' N 127° 56.1' E	Fl.G. period 3s	36 11	6	White tower; 22.	
13322 F 4754.5	Usiziuuse, E. breakwater.	26° 18.3' N 127° 55.6' E	Fl.R. period 3s	28 9	6	Red tower; 19.	
13324 F 4753	Taira Sone, Hira Sone.	26° 15.5' N 127° 53.2' E	Fl.W. period 4s	39 12	11	White structure; 33.	
13326 F 4755	Gusikawa, breakwater, head.	26° 19.5' N 127° 50.5' E	Fl.R. period 3s	26 8	6	Red tower; 18.	
13328 F 4753.4	Toseki No. "1".	26° 15.7' N 127° 49.1' E	Iso.R. period 6s	39 12	7	Red metal mast.	
13332 F 4753.5	-No. "2".	26° 16.0' N 127° 48.9' E	F.R.	85 26	7	Red metal mast.	
13336 F 4750.84	Nansei Sea Berth Buoy.	26° 14.2' N 127° 49.9' E	Mo.(U)W. period 8s		7	Red buoy.	
13348 F 4750.7	Kin Nanseki.	26° 12.9' N 127° 47.7' E	Mo.(U)W. period 10s	72 22	14	White quadrangular metal structure.	Mo.(U)W. 10s 130 meters E. and 150 meters WNW.
13349 F 4749.5	Untaku.	26° 10.8' N 127° 50.8' E	Mo.(A)G. period 8s	16 5	3	PORT (B) G, beacon, topmark.	
13352 F 4750	China Saki, on shoal.	26° 11.1' N 127° 49.4' E	Fl.W. period 3s	115 35	12	White quadrangular concrete structure; 38.	
13354 F 4750.2	Yonabaru Wan, breakwater, head.	26° 11.5' N 127° 48.6' E	Fl.G. period 3s	30 9	3	White tower; 18.	
13356 F 4750.4	Baten Ko, breakwater, head.	26° 10.9' N 127° 46.8' E	F.Fl.R. period 3s	39 12	F. 6 Fl. 11	Red round concrete structure; 31.	
13360 F 4749	Kudaka Sima.	26° 09.1' N 127° 53.2' E	Iso.W. period 6s	82 25	15	White square concrete tower; 36.	
13362 F 4748.5	Hira Bishi.	26° 08.5' N 127° 52.6' E	Mo.(B)G. period 8s	16 5	3	PORT (B) G, beacon, topmark; 17.	

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RYUKYU ISLANDS							
13364 F 4748	Kiyan Saki.	26° 05.0' N 127° 40.0' E	Fl.W. period 5s	154 47	18	White round concrete structure; 49.	Aero Radiobeacon 1.3 miles N.
13368 F 4746	Rukan Sho Reef.	26° 06.4' N 127° 32.1' E	Fl.(2)W. period 10s	72 22	14	White round concrete tower; 55.	Radar reflector.
13369 F 4745.5	Yone Ko, No. "2".	26° 09.5' N 127° 38.2' E	Fl.(2)R. period 6s	15 5	3	STARBOARD (B) R, beacon, topmark.	
13369.5	-No. "4".	26° 09.6' N 127° 38.6' E	Fl.R. period 3s	15 5	2	STARBOARD (B) R, beacon, topmark.	
13370 F 4745.4	Unaga, breakwater.	26° 09.6' N 127° 39.2' E	Fl.G. period 4s	29 9	6	White tower; 18.	
13372 F 4740.87	Sinko, No. "1" breakwater, N. head.	26° 15.2' N 127° 39.5' E	Fl.R. period 3s	72 22	10	Red tower; 62.	
13372.2 F 4740.9	Urasoe, No. "1" breakwater, W. head.	26° 15.5' N 127° 39.3' E	Fl.G. period 5s	46 14	3		
13374	-Inner harbor, N. breakwater.	26° 15.2' N 127° 40.6' E	Fl.G. period 3s	43 13	5	White tower; 22.	
13376 F 4740.8	Naha Sinko Basin, breakwater.	26° 13.7' N 127° 40.8' E	F.F.I.R. period 3s	36 11	F. Fl	6 Red round concrete structure; 11 36.	
13380 F 4740.85	Sinko, No. "1" breakwater, S. head.	26° 13.2' N 127° 39.2' E	Fl.G. period 4s	72 22	14	White round concrete structure; 62.	
13382 F 4744.8	Naha, breakwater, N. head.	26° 13.4' N 127° 38.6' E	Fl.R. period 4s	30 9	7	Red tower; 8.	
13388 F 4741.3	-Port side.	26° 12.7' N 127° 39.9' E	Fl.G. period 3s	19 6	6	PORT (B) G, beacon, topmark; 20.	Visible 322°-142°.
13392 F 4743	-Starboard side.	26° 12.8' N 127° 39.8' E	Fl.R. period 3s	22 7	5	Red round concrete structure; 15.	
13396 F 4741.2	Naha Entrance Range, front.	26° 12.7' N 127° 40.1' E	F.R.	52 16	13	White skeleton tower; 39.	Visible 4° each side of range line.
13400 F 4741.21	-Rear, 615 meters 127°24' from front.	26° 12.5' N 127° 40.4' E	F.R.	125 38	16	White skeleton tower; 95.	Visible 4° each side of range line.
13404 F 4745	Naha AVIATION LIGHT.	26° 11.7' N 127° 38.7' E	Al.Fl.W.G. period 4.3s				
13407 F 4739.92	Kuro Shima.	26° 14.4' N 127° 24.4' E	Fl.(2)W. period 5s	16 5	5	ISOLATED DANGER BRB, beacon, topmark.	
13408 F 4739.9	Hate Shima.	26° 14.4' N 127° 27.5' E	Fl.W. period 3s	115 35	12	White tower; 43.	
13410	Nagannu Sima, atoll, NW. head.	26° 16.5' N 127° 31.7' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, beacon, topmark.	
13412 F 4740	Kamiyama Shima.	26° 15.5' N 127° 35.2' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	69 21	14	White quadrangular structure; 32.	
13414 F 4740.6	-Machinato Wan, breakwater, head.	26° 16.7' N 127° 43.5' E	Fl.G. period 3s	33 10	3	White tower; 19.	
13419	Toya Ko.	26° 23.3' N 127° 43.3' E	Fl.G. period 3s	36 11	3	White tower; 17.	
13420 F 4740.3	Zampa Misaki.	26° 26.2' N 127° 42.9' E	Fl.(2)W. period 10s	131 40	17	White tower; 100.	
13422 F 4740.4	Maeta Saki, E.	26° 26.7' N 127° 48.1' E	Fl.G. period 3s	29 9	5	White tower; 18.	
13424 F 4763.5	Toguchi Ko, S. breakwater, head.	26° 39.4' N 127° 53.4' E	Fl.R. period 4s	33 10	11	Red round concrete structure; 28.	
13428 F 4763.52	N. breakwater, head.	26° 39.4' N 127° 53.4' E	Fl.G. period 5s	30 9	10	White round concrete structure; 25.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13432 <i>F 4763.7</i>	Nago Wan.	26° 34.8' N 127° 59.0' E	F.FI.G. period 3s	39 12	F. 5 Fl. 11	White round concrete structure; 31.	
13436 <i>F 4763.54</i>	Sinko, breakwater, head.	26° 38.5' N 127° 52.7' E	F.F.I.R. period 3s	39 12	F. 6 Fl. 12	Red tower; 33.	
13440 <i>F 4763.4</i>	Bise Zaki.	26° 42.6' N 127° 52.8' E	Fl.W. period 5s	56 17	13	White round concrete structure; 39.	
13444 <i>F 4763.44</i>	Kouri Shima.	26° 42.6' N 128° 00.8' E	Iso.W. period 6s	174 53	19	White round concrete structure; 36.	
13448 <i>F 4763.6</i>	Ie Shima, island, W. head.	26° 43.6' N 127° 45.0' E	Fl.W. period 4s	102 31	12	White tower; 36.	
13449 <i>F 4763.57</i>	Ie Ko, breakwater, head.	26° 42.2' N 127° 48.2' E	Fl.G. period 3s	56 17	6	White tower; 36.	
13450 <i>F 4763.61</i>	Ryukyu Nakan Si.	26° 40.5' N 127° 49.4' E	Fl.(2)W. period 5s	18 5	9	ISOLATED DANGER BRB, beacon, topmark; 19.	
13452 <i>F 4763.64</i>	Minna Shima.	26° 38.6' N 127° 49.3' E	Fl.W. period 3s	89 27	15	White round concrete tower; 39.	
	RACON		(-----)			9	
13456 <i>F 4763.62</i>	Sesoku Jima, W. extremity.	26° 38.6' N 127° 51.5' E	Iso.W. period 6s	66 20	14	White round concrete structure; 36.	
OKINAWA GUNTO:							
13460 <i>F 4739.8</i>	-Aware Saki.	26° 08.0' N 127° 21.0' E	Fl.W. period 8s	318 97	17	White round concrete tower; 31.	
13461	-Hirasi.	26° 11.9' N 127° 19.6' E	Fl.(2)W. period 5s	16 5	5	ISOLATED DANGER BRB, beacon, topmark; 17.	
13462 <i>F 4739.85</i>	Tokashiki.	26° 11.9' N 127° 22.4' E	Fl.G. period 3s	52 16	5	White tower; 39.	
13463 <i>F 4739.88</i>	Mae Shima.	26° 11.8' N 127° 26.3' E	Fl.(2)R. period 6s	18 5	4	STARBOARD (B) R, beacon, topmark; 18.	
13464 <i>F 4739.5</i>	Kitabirasi.	26° 13.4' N 127° 20.2' E	Fl.W. period 5s	243 74	12	White round concrete tower; 23.	
13466 <i>F 4739.7</i>	Zamami Ko, breakwater.	25° 13.1' N 127° 18.0' E	Fl.R. period 3s	43 13	6		
13468 <i>F 4739.6</i>	Kahi Shima.	26° 12.9' N 127° 17.1' E	Fl.W. period 4s	141 43	12	White round concrete structure; 31.	
13472 <i>F 4739.48</i>	Aguni Sima.	26° 34.4' N 127° 12.8' E	Oc.W. period 4s	354 108	23	White round concrete structure; 52.	
13476 <i>F 4739.47</i>	Tonaki Shima.	26° 22.1' N 127° 08.6' E	Iso.W. period 8s	49 15	12	White tower; 33.	
	-082°30'.		Dir.F.W.R.G.	42 13	W. 12 G. 11 R. 12		R. 077°-081°, W.-084°, G.-088°.
13480 <i>F 4739.4</i>	Ogan Misaki.	26° 21.3' N 126° 55.9' E	Fl.W. period 10s	39 12	11	White square concrete tower; 36.	
13482 <i>F 4739.42</i>	Nakazato Ko.	26° 20.9' N 126° 49.7' E	Fl.R. period 3s	56 17	9	Red concrete structure; 31.	
13490 <i>F 4739.37</i>	Torisima Ko.	26° 19.7' N 126° 45.0' E	Fl.R. period 3s	16 5	4	STARBOARD (B) R, beacon, topmark; 18.	
13491 <i>F 4739.39</i>	-Approach.	26° 20.4' N 126° 45.0' E	Fl.G. period 3s	33 10	5	White tower; 22.	
13492 <i>F 4739.2</i>	Kume Sima.	26° 22.0' N 126° 43.9' E	Iso.W. period 6s	177 54	19	White concrete structure; 69.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13496 F 4801	Kita-daito Shima.	25° 57.0' N 131° 17.0' E	Fl.W. period 15s	302 92	24	White round concrete structure; 72.	
SAKISHIMA GUNTO:							
13500 F 4739	-Hude Iwa.	24° 58.8' N 125° 21.6' E	Fl.W. period 3s	52 16	12	White square concrete tower; 36.	
13504 F 4738	Ikema Shima.	24° 55.9' N 125° 14.3' E	Fl.W. period 12s	138 42	18	White round concrete structure; 85.	
13506 F 4738.5	Ikema Sima.	24° 55.8' N 125° 15.8' E	Fl.(2)R. period 6s	16 5	3	STARBOARD (B) R, beacon, topmark.	
13508 F 4738.4	Ikema Gyoko.	24° 55.2' N 125° 15.0' E	Fl.R. period 3s	36 11	5	Red tower; 19.	
13510 F 4738.6	Ogami Sa, breakwater.	24° 54.4' N 125° 18.5' E	Fl.R. period 3s	27 8	6	Red tower; 19.	
13512 F 4737.8	Sarahama.	24° 50.3' N 125° 14.2' E	Fl.R. period 5s	43 13	12		
13513 F 4737.7	Sarahama Ko, breakwater, S. head.	24° 50.0' N 125° 13.1' E	Fl.(2)R. period 6s	49 15	9	Red round concrete tower; 31.	
13516 F 4737	Agari-Henna Saki.	24° 42.9' N 125° 28.2' E	Al.Fl.W.R. period 20s	141 43	18	White octagonal concrete structure; 82.	
13520 F 4737.5	Hirara Ko.	24° 48.8' N 125° 16.7' E	Fl.(2)G. period 7s	39 12	5	White round concrete tower; 31.	
13524 F 4736	Minna Shima.	24° 44.4' N 124° 42.2' E	Fl.W. period 4s	72 22	14	White square concrete tower; 43.	
13528 F 4734	Hirakubo Saki.	24° 36.3' N 124° 19.0' E	Iso.W. period 6s	243 74	22	White round concrete tower; 43.	
13532 F 4733	Ogan Misaki.	24° 27.0' N 124° 05.0' E	Fl.W. period 10s	203 62	21	White round concrete tower; 56.	
13536 F 4732	Ryukyu, Kannon Zaki.	24° 21.6' N 124° 06.8' E	Iso.W. period 6s	66 20	13	White round concrete structure; 36.	
13540 F 4734.2	Ishigaki Ko.	24° 19.8' N 124° 08.6' E	Fl.R. period 3s	39 12	6	Red tower; 31.	
13542 F 4734.15	-E.	24° 19.6' N 124° 09.9' E	Iso.R. period 6s	30 9	7	Red tower; 19.	
13544 F 4734.3	-Outer breakwater, S. head.	24° 19.9' N 124° 08.5' E	Fl.G. period 3s	39 12	8	White round concrete structure; 31.	
13548 F 4734.4	-Entrance to Isigaki.	24° 19.8' N 124° 08.3' E	Fl.(2)G. period 8s	56 17	12	White concrete structure; 52.	
13550 F 4734.5	-Inner breakwater.	24° 20.6' N 124° 08.7' E	Fl.G. period 3s	23 7	3	White tower; 19.	
13554 F 4734.7	Nakama Ko, breakwater, head.	24° 15.9' N 123° 53.2' E	Fl.G. period 3s	26 8	6		
13556 F 4729	Kuma Saki, Obama Jima, SW. point.	24° 20.0' N 123° 57.0' E	Fl.W. period 5s	69 21	14	White round concrete structure; 31.	
13560 F 4730	Hatoma Jima.	24° 28.0' N 123° 49.3' E	Iso.W. period 8s	154 47	18	White tower; 52.	
13564 F 4731	Funauke Ko.	24° 21.0' N 123° 42.0' E	Fl.W. period 6s	79 24	14	White round concrete tower; 36.	
13568 F 4735	Haterumia Jima.	24° 03.3' N 123° 47.3' E	Iso.W. period 6s	230 70	22	Square white tower; 36.	May be obscured by trees 218°-250°.
13576 F 4728.4	Yonaguni Jima.	24° 27.5' N 123° 02.6' E	Fl.W. period 8s	276 84	22	White round concrete tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13580 F 4728	Yonaguni Jima, Irii Saki.	24° 27.0' N 122° 55.0' E	Fl.W. period 5s	246 75	22	White square concrete tower; 66.	F.W. auxiliary light.
13584 F 4728.2	--Breakwater, head.	24° 26.8' N 122° 56.4' E	Fl.G. period 4s	39 12	6	White tower; 31.	
13586 F 4728.3	--W. extension, head.	24° 27.2' N 122° 56.0' E	Fl.G. period 3s	52 16	8		
TAIWAN							
13588 F 4690	P'eng-chia Hsu (T).	25° 38.0' N 122° 04.2' E	Fl.W. period 15s	480 146	25	White round brick structure; 86.	Within 2 miles the light may be obscured from 264° to 316°.
13592 F 4670	Fu-kuei Chiao.	25° 17.8' N 121° 32.2' E	Fl.(2)W. period 15s	103 31	27	Octagonal concrete tower, black and white bands.	Visible 069°-272°. Horn: 1 bl. ev. 30s.
13596 F 4672	Yeh-liu Pan-tao.	25° 13.0' N 121° 41.0' E	L.Fl.W. period 10s fl. 3s, ec. 7s	325 99	16	White concrete column on tripod; 37.	
13600 F 4672.2	Chi-Lung Tao.	25° 11.6' N 121° 47.2' E	Fl.W. period 5s	621 189	14	Octagonal concrete tower, white and black stripes; 40.	
CHI-LUNG:							
13604 F 4674	-Wan-Jentui Pi.	25° 09.3' N 121° 44.9' E	Mo.(A)W. period 7s fl. 0.5s, ec. 1.5s fl. 1s, ec. 4s	132 40	16	White round tower; 36.	Visible 151°-347°. Radiobeacon close NW.
13612 F 4672.4	-Shei-ho Power Plant, AVIATION LIGHT.	25° 09.0' N 121° 44.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	646 197	12	Chimney.	Obstruction. Three sets of lights vertically disposed.
13616 F 4675	-E. breakwater, head.	25° 09.6' N 121° 45.3' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	54 16	9	White octagonal concrete tower; 36.	
13620 F 4676	-W. breakwater, head.	25° 09.5' N 121° 45.2' E	Fl.R. period 3s	54 16	6	Red octagonal concrete tower; 36.	Radar reflector.
13624 F 4675.5	-E. breakwater extension.	25° 09.7' N 121° 45.3' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	52 16	9	White round concrete tower; 39.	
-RACON							
			C(-•-•) period 75s		15		
13628 F 4676.6	-E. inner breakwater, head.	25° 09.4' N 121° 45.4' E	Fl.G. period 6s fl. 0.5s, ec. 5.5s	34 10	7	White concrete column; 23.	Fl.G. light marks stranded wreck 195 meters SSW. 4 Fl.G. lights mark stranded wreck 330 meters SE.
13632 F 4677	-W. inner breakwater, head.	25° 09.4' N 121° 44.8' E	F.R.	98 30	8	Blue round tower; 85.	
13634 F 4680	-Berth No. "19", SE. corner.	25° 08.7' N 121° 45.2' E	Fl.R. period 5s		5		
13635 F 4680.5	-Berth "18B".	25° 08.7' N 121° 45.1' E	Fl.R. period 4s			Concrete post.	
13636 F 4679	-An Lan.	25° 08.9' N 121° 44.9' E	Oc.W. period 3s lt. 2s, ec. 1s	35 11	10	White round concrete column; 22.	
13640 F 4678	-Yu Chiang, Entrance.	25° 09.2' N 121° 45.3' E	F.G.	23 7	7	White round concrete tower; 22.	
13652 F 4682.5	-Chien-shan Pi, breakwater.	25° 09.5' N 121° 46.8' E	Fl.Y. period 4s	53 16	6		
13656 F 4683	-Pachimen Log Basin.	25° 09.4' N 121° 46.5' E	Iso.G. period 4s	35 11	5	White round concrete column; 22.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
PA-TOU:							
13658 <i>F 4684</i>	-W. breakwater, head.	25° 08.9' N 121° 47.4' E	Fl.(3)R. period 10s	46 14	9		
13659 <i>F 4685</i>	-E. breakwater, head.	25° 08.9' N 121° 47.5' E	Fl.(3)G. period 10s	46 14	9		
13660 <i>F 4686</i>	-Inner N. breakwater, head.	25° 08.8' N 121° 47.5' E	Fl.G.				
13661 <i>F 4687</i>	-Inner S. breakwater, head.	25° 08.8' N 121° 47.4' E	Fl.R.				
13662 <i>F 4688</i>	-Quay.	25° 08.7' N 121° 47.5' E	Fl.R.				
SHEN AO OIL HARBOR:							
13664 <i>F 4692.4</i>	-Shen-ao, bay, SE. side.	25° 07.6' N 121° 49.7' E	Oc.G. period 11s	43 13	3		
13668 <i>F 4692.2</i>	-Entrance Range, front.	25° 07.5' N 121° 49.2' E	F.G.	59 18	3		
13672 <i>F 4692.21</i>	--Rear, 87 meters 228° from front.	25° 07.5' N 121° 49.2' E	F.G.	70 21	3		
13676 <i>F 4693</i>	Pi-tou Chiao.	25° 08.0' N 121° 55.0' E	Oc.W. period 11s lt. 6s, ec. 5s	214 65	16	White round concrete tower; 40. Visible 090°-325°.	
13677 <i>F 4693.2</i>	-Lung-tung meteorological service.	25° 06.0' N 121° 55.3' E	Fl.W. period 7s				
13677.2 <i>F 4693.4</i>	-Beacon No. "1".	25° 05.9' N 121° 55.1' E	Fl.W. period 4s				
13678	Observation platform.	25° 06.8' N 122° 02.5' E	Fl.W. period 15s	10 3			
13680 <i>F 4694</i>	San-tiao Chiao.	25° 01.0' N 122° 00.0' E	L.Fl.(2)W.R. period 28s 2 fl. 7s, ec. 21s	331 101	W. 25 R. 20	White round concrete tower; 54. R. 011°-021°, W. elsewhere.	
13682 <i>F 4697</i>	Kui-shan Tao.	24° 50.6' N 121° 56.4' E	Q.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	39 12	9		
SU-AO CHIANG:							
13684 <i>F 4700</i>	-Pei Chiao.	24° 36.0' N 121° 53.1' E	Fl.W.R. period 7s	185 56	W. 16 R. 12	White square concrete tower;	W. 164°-210°, R.-240°, W.-268°, R.-303°, W.-073°.
-RACON				G(—) period 75s		15	Located 190 meters 286° from light.
13688 <i>F 4700.5</i>	-N. outer breakwater, head.	24° 35.8' N 121° 52.5' E	Q.(2)R. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	70 21	8	Red round concrete tower; 62.	
13692 <i>F 4700.6</i>	-S. outer breakwater, head.	24° 35.7' N 121° 52.5' E	Q.(2)W. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	70 21	11	White round concrete tower; 60.	
13696 <i>F 4701</i>	-On heights about 2.8 kilometers W. of Pei Chiao.	24° 36.0' N 121° 51.0' E	Oc.W.R.G. period 3s lt. 2s, ec. 1s	240 73	W. 12 R. 9 G. 9	White steel framework tower.	R. 284°-292°, W.-295°, G.-309°, obscured elsewhere.
13700 <i>F 4701.2</i>	-Breakwater, N. head.	24° 35.8' N 121° 52.1' E	Fl.W. period 5s	43 13	10	White round concrete column;	36.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13704 F 4701.22	-Breakwater, S. head.	24° 35.4' N 121° 52.1' E	Fl.(3)R. period 8s	6 2			
13712 F 4701.25	-Training Wall, head.	24° 36.0' N 121° 51.0' E	Fl.(3)R. period 8s				
13716 F 4701.15	-Suao Kang, N. inner breakwater.	24° 35.8' N 121° 52.3' E	Oc.R. period 5s lt. 3s, ec. 2s	69 21	9	Red octagonal concrete column; 62.	Q.R. lights mark entrance to Pei-fang Wan, close NW.
13718	-Nan-fang Wan, Pier "13".	24° 35.2' N 121° 52.1' E	Fl.W. period 3s				
13719	- "S2".	24° 35.2' N 121° 52.0' E	F.G.				
13721 F 4702	Nan-fang-ao, breakwater, W.	24° 35.1' N 121° 52.1' E	F.R.	16 5	7	Red concrete column.	
13722 F 4703	-E.	24° 35.1' N 121° 52.2' E	F.G.	16 5	7	White concrete column.	
13725 F 4704	Ho-p'ing Hsi.	24° 18.4' N 121° 45.8' E	Dir.W.R.G.	75 23	W. 20 R. 16 G. 16		F.R. 005°-007°30', Al.R.-009°30', F.G.-010°30', Al.G.-012°30', F.W.-015°.
13726 F 4704.2	-W. Breakwater, head.	24° 17.5' N 121° 45.5' E	Fl.(2)W. period 8s	75 23	15		Fl.(2)R. 8s 25m 13M light on E. Breakwater.
13728 F 4705	Chi-lai Pi.	24° 01.0' N 121° 38.6' E	Iso.W. period 6s	108 33	17	White pentagonal concrete tower; 43.	Visible 150°-024°. Partially obscured 352°-001°. Radio beacon.
HUA-LIEN ANCHORAGE:							
13732 F 4706	-Hua-Lien.	23° 58.6' N 121° 36.8' E	Fl.(3)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	148 45	10	White square steel trellis tower;	Visible 232°-019°. 91.
13736 F 4708	-Hua-lien Range, front.	24° 00.0' N 121° 38.0' E	F.G.	46 14	8	Beacon.	
13740 F 4708.1	--Rear, 445 meters 023° 30' from front.	23° 59.9' N 121° 38.4' E	F.R.	72 22	8	Beacon.	
13744 F 4710	-Boat Basin entrance.	24° 00.0' N 121° 38.0' E	Fl.R. period 2s	11 3	2	Red metal round beacon; 10.	
13746 F 4709.5	-Mei-Lun.	23° 59.6' N 121° 38.2' E	Fl.G. period 2s	29 9	2		
13747 F 4709.7	Mei-Lun, retaining wall.	23° 59.1' N 121° 38.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s			Round steel pole.	
13747.5 F 4710	Mei-Lun, boat basin.	23° 59.9' N 121° 38.3' E	Fl.R. period 2s	11 3	2	Red round steel column.	
13748 F 4709	-E. breakwater, S. head.	23° 58.3' N 121° 37.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	41 12	7	Red round concrete column; 36.	
13750 F 4709.3	-W. breakwater, head.	23° 58.4' N 121° 37.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	12	White round column; 36.	
-RACON							
13752 F 4714	San-hsien-t'ai.	23° 07.8' N 121° 25.2' E	D(-••)		15		(3 & 10 cm)
13756 F 4716	Ch'eng-kung Anchorage, E. breakwater.	23° 05.8' N 121° 22.7' E	Fl.(2)W. period 6s	200 61	9	White square concrete column;	Visible 137°-039°. 23.
13760 F 4724	Huo-shao Tao.	22° 40.4' N 121° 27.9' E	Fl.(2)W. period 20s	157 48	12	Red concrete column; 33.	
						White round concrete tower; 100.	Radio beacon.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13764 F 4725	Lan Yu.	22° 04.8' N 121° 29.9' E	Fl.(4)W. period 24s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	710 216	26	White round tower; 48.	Obscured by high land of island. Radio beacon.
13768 F 4602	O-luan Pi.	21° 54.2' N 120° 51.0' E	Fl.W. period 10s	185 56	27	White round metal tower; 70.	Visible 234°-099°. Fl.G. 4s 13m marks small harbor 4.5 miles N. Signal station.
13769 F 4603.04	Hou-Pi Hu Fishing Harbor.	21° 56.6' N 120° 44.7' E	Fl.(3)G. period 10s			White concrete tower.	
13769.5 F 4603.06	-N. side.	21° 56.6' N 120° 44.8' E	Fl.R. period 3s			White concrete tower.	
13770	Fang-liao Fishing Harbor.	22° 21.8' N 120° 35.4' E	Fl.R. period 4s			Concrete pillar.	F.Y. on white concrete water tower close E.
13776 F 4612	Liu-chiu Hsu.	22° 20.0' N 120° 22.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	291 89	14	White round concrete tower; 36.	Visible 226°-217°, obscured elsewhere.
13780 F 4610	-Breakwater, head.	22° 21.0' N 120° 23.0' E	Fl.R. period 4s	27 8	3	Red concrete column; 23.	Visible 138°-300°.
13784	Ta-Lin-Pu Terminal Buoy No. "1".	22° 30.2' N 120° 18.4' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s			SBM.	Horn: 1 bl. ev. 20s.
13784.2	-No. "2".	22° 29.7' N 120° 17.2' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s			SBM.	Horn: 1 bl. ev. 20s. Radar reflector.
13784.4	-No. "3".	22° 28.3' N 120° 17.4' E	Mo.(A)W. period 15s			SBM.	Radar reflector.
13784.6	-No. "4".	22° 28.8' N 120° 18.6' E	Fl.(2)W. period 15s fl. 1s, ec. 1s fl. 2s, ec. 11s			SBM.	
13786	Ta-lin p'u, N. breakwater, head.	22° 31.8' N 120° 19.5' E	Fl.W. period 3s	39 12	6	Steel post; 3.	
13786.1	-S. breakwater.	22° 31.8' N 120° 19.5' E	Fl.R. period 3s	39 12	4	Steel post; 3.	
KAO-HSUING CHIANG:							
13788 F 4624.4	-S. entrance, N. breakwater, head.	22° 33.1' N 120° 18.1' E	Mo.(D)W. period 10s	59 18	13	White square concrete tower; 43.	N. mole marked by three 2 F.G. (vert.) 6M lights.
13792 F 4624.42	-S. breakwater, head.	22° 32.9' N 120° 17.9' E	Fl.R. period 4s	59 18	12	Red square concrete tower; 43.	S. mole marked by three 2 F.R. (vert.) 6M lights. Radar reflector.
13793 F 4624.5	-Range, front.	22° 33.3' N 120° 19.8' E	Q(6)+L.Fl.W. period 15s fl. 0.6s, ec. 0.6s fl. 2s, ec. 5.8s	131 40	5	Beacon, triangular daymark, point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13793.1 F 4624.51	--Rear, 520 meters 079°30' from front.	22° 33.3' N 120° 20.1' E	Q(6)+L.FI.W. périod 15s fl. 0.6s, ec. 0.6s fl. 2s, ec. 5.8s	164 50	5	Beacon, triangular daymark, point down.	
13796 F 4618	-Ch'i-hou Shan.	22° 36.9' N 120° 15.9' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	191 58	25	White octagonal brick tower; 50.	Visible 320°-158°. Traffic signals. Signal station. Radiobeacon.
13800 F 4620	-N. entrance, N. breakwater, head.	22° 37.2' N 120° 15.4' E	Iso.W. period 4s	48 15	15	White round concrete column; 46.	
	-RACON		AA(---) period 75s		15		
13804 F 4621	-S. breakwater, head.	22° 37.1' N 120° 15.4' E	Fl.R. period 3s	49 15	9	Red round concrete column; 46.	Radar reflector.
13806 F 4622	-Narrows, N. side.	22° 37.0' N 120° 16.0' E	F.W.G. (vert.)	42 13	5		2 F.G. (vert.) shown from W. end of N. side.
13807 F 4623.4	--S. side.	22° 36.9' N 120° 16.0' E	F.R.G. (vert.)	31 9	5		F.R. shown from W. end of S. side. 2 F.R. (vert.) shown from E. end of S. side.
13808 F 4625	Tso-ying.	22° 42.0' N 120° 15.0' E	Fl.W. period 6s	61 19	21		Aero Radiobeacon 5.5 miles NNE.
13812 F 4625.2	-S. breakwater, head.	22° 41.7' N 120° 15.2' E	Fl.R. period 6s	61 19	15		
13816 F 4625.4	-Spur, head.	22° 42.0' N 120° 15.0' E	Fl.R. period 5s	46 14	5		
TSO-YING:							
13820 F 4626	-Entrance Range, front.	22° 41.4' N 120° 16.5' E	F.R.	61 19	8		
13824 F 4626.1	--Rear, 585 meters 103° 48' from front.	22° 41.3' N 120° 16.8' E	F.G.	106 32	3		
13825 F 4626.3	-Tug berth.	22° 49.1' N 120° 11.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	74 23	17	White round concrete tower; 65.	
13825.1 F 4626.4	-Breakwater, head.	22° 49.1' N 120° 10.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	78 24	5	Red round concrete tower; 49.	
13825.2 F 4626.45	-E. breakwater, head.	22° 49.2' N 120° 12.4' E	Fl.Y. period 10s				
13826 F 4626.5	-Unloading platform.	22° 48.7' N 120° 11.4' E	Mo.(U)W. period 12s	47 14	7	Metal pole on control tower.	Mo.(U)W. 12s mark dolphins 220 meters N. and 280 meters S. Horn: 1 bl. ev. 20s.
AN-P'ING-CHIANG:							
13828 F 4628	-N.	22° 59.5' N 120° 08.7' E	Fl.(3)W. period 15s	74 23	15	White steel square trellis tower; 72.	Visible 305°-145°.
13830 F 4629	-Anping entrance, N. breakwater.	22° 58.2' N 120° 09.1' E	Fl.W. period 8s	20 6	8		
13832 F 4629	-Anping Harbor, N. breakwater.	22° 58.0' N 120° 09.3' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	52 16	8	White metal post; 42.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13836 <i>F 4629.2</i>	-Anping Harbor, S. breakwater.	22° 57.9' N 120° 09.4' E	Fl.R. period 6s fl. 1.5s, ec. 4.5s	52 16	8	Red metal post; 42.	
13836.5	--S. breakwater.	22° 57.7' N 120° 09.4' E	Fl.R. period 8s	20 6	8		
13837 <i>F 4629.3</i>	--S. wharf, No. "1".	22° 58.2' N 120° 09.8' E	2 F.R. (vert.)	33 10	5	White concrete pole.	
13837.2 <i>F 4629.35</i>	--No. "2".	22° 58.3' N 120° 09.4' E	2 F.R. (vert.)	33 10	5	White concrete pole.	
13837.4 <i>F 4629.4</i>	--No. "3".	22° 58.4' N 120° 09.5' E	F.R.	33 10	5	White concrete pole.	
13838 <i>F 4629.5</i>	--N. wharf, No. "1".	22° 58.2' N 120° 09.8' E	F.G.	47 14	5	Steel structure, white and green bands.	
13838.2 <i>F 4629.55</i>	--No. "2".	22° 58.3' N 120° 09.8' E	F.G.	47 14	5	Steel structure, white and green bands.	
13838.4 <i>F 4629.6</i>	--No. "3".	22° 58.3' N 120° 09.9' E	F.G.	47 14	5	Steel structure, white and green bands.	
13839	--N. Channel.	22° 58.5' N 120° 09.9' E	Fl.G. period 4s				Channel marked by Fl.G. 4s lights.
13840 <i>F 4630</i>	Kuo-sheng Kang.	23° 06.0' N 120° 02.2' E	Fl.(2)W. period 15s	112 34	16	White metal framework structure, Fl.W. 4s, Fl.R. 4s marks end of black bands; 107.	
13844 <i>F 4658.5</i>	Wai-san-ting Chou.	23° 27.2' N 120° 01.2' E	Fl.W. period 4s	113 34	12	Black framework tower; 105.	Radar reflector.
	RACON		K(---) period 75s		15		
13852 <i>F 4659.5</i>	Fong-Yuan.	23° 58.3' N 120° 19.5' E	Iso.W. period 10s	117 36	17	Octagonal tower, black and white stripes; 122.	
	RACON		Q(---) period 75s		15		
13854 <i>F 4659.415</i>	Mai-liao Kang, S. breakwater.	23° 46.8' N 120° 09.7' E	Fl.R. period 3s	79 24	13	Red octagonal tower; 75.	
	RACON		N(---)				
P'ENG-HU-LIEH-TAO:							
13856 <i>F 4658</i>	-Mu-t'ou Hsu.	23° 47.2' N 119° 36.0' E	Fl.W. period 20s	160 49	27	White round metal tower, black bands; 131.	
13858	-Hsiao ch'ih-chiao Range, front.	23° 35.6' N 119° 30.8' E	F.G.	66 20	3		
13858.1	--Rear, 371 meters 317° from front.	23° 35.8' N 119° 30.6' E	F.R.	85 26	3		
13860 <i>F 4654</i>	-Hai-kan Yen.	23° 35.0' N 119° 32.0' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	29 9	6	White metal framework tower; 25.	
13864 <i>F 4653</i>	-P'eng Hu Tao.	23° 34.4' N 119° 33.5' E	F.G.	89 27	7		
13868 <i>F 4653.2</i>	--Rear, 1200 meters 063°30' from front.	23° 34.6' N 119° 34.0' E	F.R.	89 27	7		
13872 <i>F 4652</i>	-Yu-weng Tao.	23° 34.0' N 119° 28.0' E	L.Fl.(2)W. period 30s 2 fl. 8s, ec. 22s	199 61	25	White round metal tower; 36.	Partially obscured by islands. Horn: 1 bl. ev. 30s.
13876 <i>F 4651</i>	-Fou-Wen.	23° 32.3' N 119° 31.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	45 14	9	Red concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13878	-Chu-mu-shui Range, front.	23° 31.6' N 119° 34.9' E	F.G.	30 9	3		
13878.1	--Rear, 561 meters 137° from front.	23° 31.3' N 119° 35.1' E	F.R.	59 18	3		
13880 F 4650	-Ch'a-mou Hsu.	23° 32.1' N 119° 43.1' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	81 25	9	Octagonal brick structure, white and black stripes; 39.	Radar reflector
13884 F 4640	-Ch'u-t'ou Hsu.	23° 16.0' N 119° 40.0' E	L.Fl.W. period 12s fl. 2s, ec. 10s	220 67	21	White round concrete structure, black bands; 65.	
13888 F 4642	-Chi-mei Yu on, Ta Hsu, S. head.	23° 11.4' N 119° 25.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	134 41	11	White round concrete tower; 26.	Visible 228°-158°.
13892 F 4646	-Hua Hsu, island, W. side.	23° 24.0' N 119° 19.0' E	Fl.W. period 5s	212 65	10	White round concrete structure; 41.	
13892.3	Mai Liao Refinery.	23° 47.5' N 120° 09.8' E	Fl.R. period 4s				Fl.R. 4s marks S. breakwater 1.3 miles SSE.
13892.5	"Chang Sheng".	24° 11.0' N 120° 25.5' E	Fl.R. period 4s				Marks wreck "Chang Sheng". Lights on bow and stern.
13893 F 4659.7	Taichung Power Plant, S. training wall, head.	24° 13.0' N 120° 27.6' E	Fl.R. period 4s				Fl.R. 4s marks center of S. wall and head of N. training wall.
13896 F 4660.15	Taichung Kan.	24° 17.4' N 120° 31.4' E	Fl.(3)W. period 30s	203 62	27	White concrete tower; 205.	
13900 F 4660.4	Taichung Harbor.	24° 18.0' N 120° 29.2' E	Fl.W. period 2s	70 21	18	White round concrete tower; 60.	
RACON				M(--)		15	
13904 F 4660.6	-S. breakwater.	24° 17.4' N 120° 30.0' E	Fl.R. period 2s	69 21	14	Red round concrete tower; 65.	Auxiliary light F.R. 8m 5M on same structure.
-RACON				F(••-•)			
13905 F 4660.45	--Elbow.	24° 17.7' N 120° 29.9' E	Dir.F.W.R.G.	43 13	W. 14 R. 11 G. 11	White hexagonal concrete tower.	G. 232°48'-237°12', W.-242°48', R.-247°12'.
13906 F 4660.94	-Main Channel Range, front.	24° 17.0' N 120° 31.4' E	Dir.F.W.R.G.	147 45	17	Square metal tower.	White light visible on range line only.
13907 F 4660.941	--Rear, 815 meters 114°15' from front.	24° 16.8' N 120° 31.9' E	Fl.W.	230 70	10		
13908 F 4660.64	-Fishing harbor, outer breakwater, head.	24° 17.5' N 120° 30.6' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	29 9	8	White round concrete column; 23.	
13909 F 4660.66	--Inner breakwater.	24° 17.5' N 120° 30.7' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	33 10	8	White round concrete tower; 23.	
13909.5	--E. inner breakwater.	24° 17.5' N 120° 30.8' E	F.W.			Yellow structure.	
13910 F 4660.68	--Entrance Range, front.	24° 17.6' N 120° 31.0' E	F.G.	39 12	7	White concrete tower.	
13910.1 F 4660.69	--Rear, 180 meters 061° from front.	24° 17.7' N 120° 31.1' E	F.R.	49 15	6	White concrete tower.	
13912 F 4660.7	-N. inner breakwater.	24° 17.3' N 120° 30.8' E	Fl.W. period 3s	42 13	12	White round concrete tower; 33.	
13916 F 4660.8	-S. inner breakwater.	24° 17.1' N 120° 30.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	43 13	10	Red round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13918 <i>F 4660.92</i>	-W. basin, E. arm.	24° 17.3' N 120° 30.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	10	Red round concrete tower; 23.	
13919	--W. arm.	24° 17.3' N 120° 30.8' E	Fl.G. period 4s			Green round concrete tower.	
13920 <i>F 4660.93</i>	-Taichung Harbor Craft Basin, W. breakwater.	24° 17.2' N 121° 31.1' E	Fl.G. period 4s	20 6	8	White round concrete column; 23.	
13921.1	"E" Range, front.	24° 17.4' N 120° 31.1' E	F.G.				
13921.11	--Rear, 617 meters 021°32' from front.	24° 17.7' N 120° 31.3' E	F.G.				
13921.2	"D" Range, front.	24° 14.2' N 120° 29.8' E	F.G.				
13921.21	--Rear, 880 meters 201°32' from front.	24° 13.8' N 120° 29.6' E	F.G.				
13921.3	"A" Range, front.	24° 14.1' N 120° 29.0' E	F.G.				
13921.31	--Rear, 93 meters 231°31' from front.	24° 14.1' N 120° 29.0' E	F.G.				
13921.4	"C" Range, front.	24° 15.2' N 120° 30.5' E	F.G.				
13921.41	--Rear, 123 meters 051°31' from front.	24° 15.3' N 120° 30.5' E	F.G.				
13921.5	"B" Range, front.	24° 15.2' N 120° 29.7' E	F.G.				
13921.51	--Rear, 309 meters 021°32' from front.	24° 15.4' N 120° 29.7' E	F.G.				
13940 <i>F 4660.2</i>	Taichung Harbor, N. jetty.	24° 18.8' N 120° 31.2' E	Fl.(3)W. period 10s fl. 0.4s, ec. 0.9s fl. 0.4s, ec. 0.9s fl. 0.4s, ec. 7s	36 11	7	Beacon.	3 Fl.R. 11m 2M about 0.35 mile N.
13942	Tung-shiao, power plant, prohibited area.	24° 30.0' N 120° 39.3' E	2 Fl.R. (vert.) period 5s	36 11	3		Five 2 Fl.R. 5s (vert.) lights mark pipelines.
13944 <i>F 4661</i>	Pai-sha-t'un.	24° 34.0' N 120° 43.0' E	F.R.				
13948 <i>F 4661.5</i>	AVIATION LIGHT (Hsinchu).	24° 49.0' N 120° 56.0' E	AI.Fl.W.G. period 9.5s W. fl. 1s, ec. 4s G. fl. 0.5s, ec. 4s		15		
13949 <i>F 4661.6</i>	Hsinchu, S. breakwater.	24° 51.1' N 120° 54.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	45 14	4	Red round concrete column.	
13950 <i>F 4661.7</i>	-N. breakwater.	24° 51.2' N 120° 54.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	45 14	4	White round concrete column.	
13952 <i>F 4662</i>	Pai-sha-Chia (Hakusha Ko).	25° 02.5' N 121° 04.3' E	AI.Fl.W.R. period 20s W. fl. 0.2s, ec. 9.8s R. fl. 0.2s, ec. 9.8s	122 37	W. R. 26 23	White round brick tower; 82.	Visible 055°-235°.
13960 <i>F 4664</i>	Tan-Shui Kang.	25° 10.6' N 121° 25.2' E	L.Fl.W. period 8s fl. 2s, ec. 6s	59 18	17		Q.(5)R.G. 14m 7M marks observation post 1.8 miles W.
13960.5	-New Harbor, N. side.	25° 10.1' N 121° 23.4' E	Fl.G. period 5s	41 12	8	Green pole; 10.	
13961	--Inshore, N. side.	25° 09.5' N 121° 23.7' E	Fl.G. period 5s	23 7	2	Green pole; 4.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13961.1	--S. side.	25° 09.4' N 121° 23.6' E	F.I.R. period 5s	26 8	2	Red pole; 4.	
13961.5	-S. breakwater.	25° 09.4' N 121° 23.2' E	F.I.R. period 5s	39 12	8		
13961.7	--Elbow.	25° 09.3' N 121° 23.1' E	Fl.(2)R. period 4s	46 14	12		
13962 <i>F 4665.2</i>	-Fishing harbor, N. side.	25° 11.0' N 121° 24.3' E	Fl.G. period 4s		8		
13962.5 <i>F 4665.4</i>	--S. side.	25° 11.0' N 121° 24.4' E	F.I.R. period 4s		8		
13962.8 <i>F 4665.5</i>	--Inner entrance, N. side.	25° 11.0' N 121° 24.5' E	Fl.G. period 4s		8		
13962.9 <i>F 4665.4</i>	--S. side.	25° 11.0' N 121° 24.5' E	F.I.R. period 4s		8		
13964 <i>F 4666.5</i>	-N. side.	25° 10.2' N 121° 26.3' E	F.R.	59 18	9	Red square steel framework, red triangular daymark; 44.	

Section 9

Philippines and Pacific Coast of Russia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PHILIPPINES							
13985 <i>F 2819</i>	Balingtan Island.	19° 57.6' N 122° 08.5' E	Fl.(2)W. period 10s	12			
13988 <i>F 2822</i>	Batan Island.	20° 22.0' N 121° 58.0' E	F.R.	10			
13990 <i>F 2822.5</i>	-W. side.	20° 26.9' N 121° 57.9' E	Fl.R. period 4s	7			
13991 <i>F 2820</i>	Sabtang Island.	20° 20.4' N 121° 52.3' E	Fl.W. period 5s	7			
13991.5 <i>F 2819.5</i>	-Chavayan.	20° 17.2' N 121° 52.9' E	Fl.W. period 5s	12			
13992 <i>F 2823</i>	Amianan Island.	21° 07.0' N 121° 56.9' E	Fl.W. period 5s	65 20	15		Visible 200°-310°.
13996 <i>F 2720</i>	Arboledan Point.	18° 01.0' N 120° 28.9' E	Fl.R. period 5s	161 49	19	White concrete tower; 33.	
14000 <i>F 2722</i>	Cape Bojeador.	18° 30.8' N 120° 35.8' E	Fl.(3)W. period 5s	386 118	20	White octagonal tower and dwelling; 65.	Visible 014°-236°.
14002 <i>F 2723</i>	Dialao Point.	18° 37.8' N 120° 47.3' E	Fl.(4)W. period 20s				
14004 <i>F 2724</i>	Pata Point.	18° 37.3' N 121° 09.3' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	202 62	15	Small white dwelling; 21.	Visible 098°-299°.
14006	Palanan.	17° 08.4' N 122° 30.5' E	Fl.W. period 5s				
14007	Maconacon.	17° 23.0' N 122° 14.3' E	Fl.W. period 5s				
14008 <i>F 2728</i>	Linao Point.	18° 22.3' N 121° 35.8' E	Fl.W. period 5s	36 11	9	White metal tower and dwelling; 30.	Visible 104°-287°.
14009	Aparri.	18° 21.7' N 121° 37.8' E	Fl.G. period 5s				
14012 <i>F 2729</i>	Port Irene.	18° 23.8' N 122° 07.6' E	Fl.G. period 5s	10			
14014 <i>F 2730.5</i>	Palawig.	18° 28.2' N 122° 08.5' E	Fl.W. period 5s	7			
14016 <i>F 2730</i>	Port San Vicente.	18° 31.0' N 122° 08.0' E	Fl.R. period 5s	31 9	7	White concrete pillar; 31.	
14020 <i>F 2732</i>	Cape Engano.	18° 34.9' N 122° 08.2' E	Fl.W. period 5s	327 100	18	Light gray tower and dwelling, white lantern, red roof; 47.	Visible 061°-272°.
14024 <i>F 2742</i>	Baler, on beach.	15° 45.0' N 121° 34.0' E	Fl.R. period 5s	7		White pyramidal concrete tower; 30.	
14024.6 <i>F 2743</i>	Maligaya.	14° 57.8' N 121° 34.0' E	Fl.W. period 5s	15			
14025 <i>F 2747.6</i>	Babaon River.	15° 01.7' N 121° 52.1' E	Fl.W. period 5s				
14026 <i>F 2747.5</i>	Polillo Island, Hook Bay.	14° 55.8' N 121° 48.7' E	Fl.(3)W. period 5s				

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PHILIPPINES							
14028 F 2746	Polillo Harbor Range, front, on beach.	14° 43.0' N 121° 56.2' E	F.R.	30 9	7	Post, white triangular daymark; 28.	
14032 F 2746.1	-Rear, 145° from front.	14° 43.0' N 121° 56.2' E	F.R.	57 17	9	Platform on church tower; 54.	
14036 F 2747	Burdeos, Polillo Island, E. side.	14° 51.1' N 121° 58.8' E	Fl.W. period 5s		7		
14037 F 2747.7	Buguitay.	14° 57.1' N 122° 03.8' E	Fl.W. period 5s				
14038 F 2747.8	Patnanongan Island.	14° 45.2' N 122° 13.8' E	Fl.G. period 5s				
14040 F 2748	Jamalig Island, NW side.	14° 42.3' N 122° 19.9' E	F.R.		6		Private.
14040.5 F 2747.9	-SW. point.	14° 41.5' N 122° 18.9' E	Fl.W. period 5s				
14040.7 F 2748.5	-S. side.	14° 41.1' N 122° 23.1' E	Fl.(3)W. period 10s				
14042 F 2744	Infanta, mouth of Agos River.	14° 46.4' N 121° 39.4' E	Fl.(2)W. period 10s		7	Concrete tower; 33.	
14044 F 2749	Dinahican Point.	14° 41.6' N 121° 44.0' E	Fl.W. period 5s		7	Concrete tower.	
14045 F 2749.5	Puerto Real.	14° 40.3' N 121° 36.6' E	F.R.			Concrete tower; 33.	
14048 F 2766	Tailon Island.	14° 24.5' N 122° 40.0' E	Fl.W. period 5s	60 18	18	White concrete pillar; 30.	
14050 F 2767	Panganiban.	14° 18.7' N 122° 39.2' E	Fl.W. period 5s				
14051 F 2769	Paracale.	14° 17.3' N 122° 48.1' E	Fl.(2)W. period 5s				
14052 F 2764	Capalonga.	14° 20.0' N 122° 31.0' E	Fl.R. period 5s	32 10	18	White concrete tower; 28.	Visible 113°-152°.
14056 F 2750	Balliscan Island.	14° 15.0' N 121° 54.0' E	Fl.W. period 5s	55 17	12	White concrete pillar; 30.	
14060 F 2757	Mauban, on Malazor Point.	14° 12.0' N 121° 45.0' E	Fl.R. period 5s		10		
ALABAT ISLAND:							
14064 F 2754	-Alabat, on beach.	14° 06.0' N 122° 00.0' E	Fl.R. period 2s	35 11	7	White concrete tower; 30.	Visible 346°-095°.
14068 F 2756	-Perez.	14° 11.7' N 121° 55.4' E	Fl.R. period 5s	33 10	5	White concrete tower; 30.	Visible 331°-057°.
14072 F 2758	Atimonan, E. side of river entrance.	14° 00.0' N 121° 55.0' E	F.R.	28 9		Concrete pole; 26.	A F.R. light is shown about 19 miles ESE., near Hondaqua.
14074 F 2759	Gamau Point.	13° 57.5' N 122° 01.4' E	Fl.W. period 5s		7		
14076 F 2760	Silangan Pass.	14° 00.0' N 122° 11.0' E	Fl.W. period 5s	31 9	18	White concrete tower.	Visible 205°-271° and 038°-100°.
14080 F 2762	Hondaqua.	13° 56.8' N 122° 14.4' E	F.R.				
14084 F 2772	Canimo Island.	14° 07.7' N 123° 03.2' E	Fl.W. period 5s	138 42	18	White concrete tower; 25.	Visible 341°-264°.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PHILIPPINES							
14088 F 2774	Cabusao.	13° 44.0' N 123° 06.9' E	Fl.R. period 5s	34 10	11 28.	White steel framework structure;	
14089 F 2775	Tarallo.	13° 43.6' N 123° 12.9' E	Fl.W. period 3s	39 12	Concrete tower.		
14092 F 2778	Ocata.	13° 59.0' N 123° 49.5' E	Fl.W. period 5s	125 38	12	White concrete tower; 33.	Visible 052°-296°.
14092.3 F 2776	Basot Island, N. point.	13° 58.0' N 123° 51.4' E	Fl.W. period 5s				
14093 F 2778.5	Gata.	13° 54.8' N 123° 48.8' E	Fl.W. period 5s				
14095 F 2779	Colongcogong.	13° 43.5' N 123° 58.6' E	Fl.W. period 5s				
14096 F 2784	Sialat Point.	13° 39.8' N 124° 01.6' E	Fl.W. period 4s	355 108	15 33.	White steel framework structure;	Visible 323°-224°.
14100 F 2786	Calolbon.	13° 35.9' N 124° 05.8' E	Fl.R. period 10s	36 11	7	White concrete pillar; 30.	Visible 318°-087°.
14104 F 2788	Virac, about 435 meters W. of Pandamon Point.	13° 35.0' N 124° 14.0' E	Fl.R. period 5s	38 12	10	White concrete pillar; 24.	Visible 292°-018°.
14108 F 2790	Baras.	13° 39.3' N 124° 22.6' E	Fl.R. period 5s	70 21	10	White concrete tower; 30.	
14112 F 2794	Lolong Point.	13° 56.8' N 124° 21.3' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	184 56	22	White octagonal tower; 99.	Visible 192°-321°.
14114 F 2782	Tabugoc Cove.	14° 03.5' N 124° 14.0' E	Fl.(2)W. period 5s				
14116 F 2780	Pandan, on beach.	14° 03.2' N 124° 10.1' E	Fl.R. period 5s	35 11	12	White concrete tower; 30.	Visible 115°-196°.
14120 F 2798	Sabang, Lagonoy Gulf.	13° 43.3' N 123° 34.8' E	Fl.W. period 5s	52 16	10	White concrete beacon; 30.	
14124 F 2802	Malinao, ruins of old fort in front of town Range, front.	13° 24.3' N 123° 42.8' E	F.R.	36 11	7	White concrete pillar; 24.	Visible 155°-275°.
14128 F 2802.1	-Rear, 1207 meters 238°55' from front.	13° 24.0' N 123° 42.3' E	F.R.	60 18	7	White framework tower.	
14129 F 2800	San Miguel Island.	13° 24.3' N 123° 45.8' E	Fl.(2)G. period 4s				
14129.4 F 2813	Bacacay.	13° 17.9' N 123° 47.7' E	Fl.W. period 5s	16 5		White steel tower.	
14130 F 2809.5	Labcan Point, Batan Island.	13° 17.4' N 123° 58.8' E	Iso.W. period 4s				
14132 F 2810	Port Sula.	13° 13.4' N 123° 52.3' E	Fl.R. period 5s	53 16	7	White pole; 5.	
14133 F 2504.2	Siramag Bay.	13° 19.7' N 123° 13.6' E	Fl.W. period 3s	16 5	6	White steel tower.	
14134 F 2504	Ragay Gulf, Laganac.	13° 20.6' N 123° 12.7' E	Fl.(3)W. period 10s				
14134.5 F 2504.5	-Salingogon.	13° 27.3' N 123° 09.1' E	Fl.(2)W. period 10s				
14135 F 2505	-Pasacao.	13° 30.1' N 123° 02.1' E	Fl.(2)W. period 5s				
14135.3 F 2505.3	-Guinayangan.	13° 53.8' N 122° 27.1' E	Iso.G. period 5s				

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PHILIPPINES							
14135.5 F 2503.7	-Bondoc Point.	13° 10.0' N 122° 35.7' E	Fl.(2)W. period 15s				
14136 F 2808	Ungay Point.	13° 10.6' N 124° 12.9' E	Fl.W. period 7s	307 94	18	White round concrete tower; 50.	Visible 175°-047°.
14138 F 2809	Prieto Diaz.	13° 02.5' N 124° 11.7' E	Fl.W. period 15s				
14140 F 2814	Legaspi, Albay Gulf, N. of town.	13° 09.5' N 123° 45.2' E	Fl.R. period 5s	59 18	13	White steel framework tower; 51.	Visible 190°-345°.
14144 F 2818	Port Gubat.	12° 55.5' N 124° 07.7' E	Fl.W. period 5s	39 12	10	White concrete tower; 34.	Visible 246°-323°.
14145 F 2818.4	Barcelona.	12° 52.1' N 124° 08.6' E	Fl.W. period 10s				
14146 F 2818.8	Calayan Island, S. point.	19° 14.7' N 121° 30.7' E	Fl.G. period 5s				
14148 F 2488	San Bernardino Island.	12° 45.2' N 124° 17.0' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	136 41	17	White concrete tower; 39.	
14150 F 2547	Balusingan Bay.	12° 38.2' N 124° 05.7' E	Fl.(2)W. period 10s				
14152 F 2492	Capul Island.	12° 28.9' N 124° 08.5' E	Fl.W. period 17s fl. 0.2s, ec. 16.8s	142 43	17	White tower; 39.	Visible 026°-319°.
14156 F 2494	Calantas Rock.	12° 30.6' N 124° 04.7' E	Fl.R. period 5s	33 10	11	White concrete tower; 28.	Visible 201°-209° and 232°-111°.
14160 F 2546	Bulan.	12° 40.3' N 123° 52.4' E	Fl.R. period 5s	32 10	7	White concrete tower; 28.	Visible 355°-149°.
14164 F 2536	Bagatao Island.	12° 49.9' N 123° 47.5' E	Fl.W. period 5s	135 41	17	White round metal tower, gray trim, dwelling; 29.	Visible seaward over an arc of 130°.
14168 F 2538	Sorsogon, Bagatao Island, W. head.	12° 50.2' N 123° 47.5' E	Fl.R. period 5s	43 13	10	White concrete tower; 23.	
14169 F 2535.5	Macalaya.	12° 52.8' N 123° 46.3' E	Fl.W. period 10s				
14170 F 2535	-Pilar.	12° 53.4' N 123° 39.7' E	Fl.(3)G. period 7s				
14172 F 2544	Casiguran.	12° 52.5' N 124° 00.5' E	Fl.W. period 5s	69 21	10	White concrete tower; 33.	Visible 097°-248°.
14176 F 2540	Castilla, Dolagnan River entrance, N. side.	12° 56.8' N 123° 52.9' E	Fl.R. period 5s	49 15	7	White concrete tower; 33.	Visible 203°-358°.
14180 F 2534	Donsol, on E. bank of river, W. head.	12° 54.3' N 123° 35.5' E	Fl.R. period 5s	37 11	10	White wooden framework tower;	Visible 332°-118°.
14182	Cabarian Point.	13° 00.5' N 123° 19.3' E	Fl.W. period 10s	151 46	10		
14184 F 2580	Baltasar Island.	13° 13.6' N 121° 48.8' E	Fl.W. period 10s	417 127	23	White round steel tower; 62.	
14188 F 2584	Gasan, Tiguiou River, S. side.	13° 19.6' N 121° 50.6' E	Fl.W. period 10s	37 11	8	White concrete tower; 32.	Visible 347°-130° except where obscured by Tres Reves Islands.
14192 F 2586	Boac, on beach at Laylay River.	13° 26.0' N 121° 49.0' E	Fl.R. period 5s	28 9	8	White concrete tower; 24.	
14196 F 2602	Tayabas River Entrance.	13° 54.0' N 121° 36.0' E	Fl.W. period 5s		10	White concrete tower; 29.	Visible 294°-027°.

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PHILIPPINES							
14200 F 2588	Balanacan.	13° 31.9' N 121° 52.0' E	Fl.(3)W. period 15s	45 14	12	White concrete tower; 28.	Partially obscured by shore.
14204 F 2590	Santa Cruz Harbor, W. side.	13° 30.0' N 122° 03.0' E	Fl.W. period 5s	24 7	7	White concrete tower; 24.	Visible through both channels from seaward.
14208 F 2594	Catanauan.	13° 35.6' N 122° 19.2' E	Fl.R. period 5s	36 11	18	White concrete tower; 33.	Visible 346°-071°.
14210 F 2596	General Luna.	13° 41.2' N 122° 10.3' E	Fl.W. period 10s	49 15	7		
14212 F 2598	Macalelon River, entrance, N. side.	13° 45.0' N 122° 08.0' E	Fl.R. period 4s	48 15	8	White concrete tower; 30.	Visible seaward over an arc of 93°.
14216 F 2600	Pitogo.	13° 47.0' N 122° 05.0' E	Fl.R. period 5s	79 24	15	White concrete tower; 34.	Visible 328°-075°.
14218	Locoloco Point.	13° 39.3' N 121° 25.2' E	Fl.(3)W. period 5s				
14220 F 2604	Malabriga Point.	13° 35.9' N 121° 15.8' E	Fl.(3)W. period 15s	184 56	20	White round tower on white dwelling, red roof; 56.	Visible 274°-134°.
14221 F 2604.2	Verde Island, NE. point.	13° 34.4' N 121° 04.7' E	Fl.W. period 3s		10		
14222 F 2604.6	Arenas Point.	13° 37.2' N 121° 04.7' E	Fl.W. period 5s		10		
14224 F 2607	Malajibomanoc Islet.	13° 37.7' N 120° 57.9' E	Fl.(3)W. period 15s	44 13	10	White concrete tower; 32.	Visible 133°-088°.
14226 F 2604.8	Matoca Point.	13° 38.0' N 121° 02.1' E	Fl.W. period 8s		10		
14227 F 2605	-Shell Refinery Wharf Range, front.	13° 43.5' N 121° 03.3' E	Q.R.			Red tower, yellow bands.	
14227.1 F 2605.1	-Rear, 350 meters 141° from front.	13° 43.2' N 121° 03.6' E	F.R.			Red tower, yellow bands.	
14228 F 2605.4	Batangas, on wide portion of pier.	13° 45.4' N 121° 02.3' E	Fl.(3)G. period 15s	30 9	7		
14229 F 2604.9	-On building.	13° 45.3' N 121° 02.6' E	Fl.(3)W. period 15s	39 12	10		
14232 F 2606.6	Mainaga.	13° 45.6' N 120° 57.3' E	Fl.G. period 5s	83 25	7	Concrete beacon; 11.	
14236 F 2608	Lemery (Taal), 27 meters from beach.	13° 53.0' N 120° 55.0' E	Fl.W. period 5s	29 9	7	White concrete tower; 24.	Obscured by trees.
14240 F 2610	Balayan, on beach.	13° 56.0' N 120° 44.0' E	F.R.	36 11	7	White frame structure; 33.	Obscured by trees.
14244 F 2614	Cape Santiago.	13° 46.3' N 120° 39.2' E	Fl.(2)W. period 10s	89 27	15	White conical tower, dwelling; 51.	Visible 252°-150°.
14248 F 2616	Golo Island.	13° 37.7' N 120° 25.1' E	Fl.W. period 7s	186 57	18	Concrete tower; 36.	Visible 185°-096°.
14252 F 2618	Tilic.	13° 49.0' N 120° 12.0' E	Fl.R. period 5s		7	Concrete tower; 32.	Visible 165°-237°.
14256 F 2620	Cabra Island.	13° 53.4' N 120° 01.3' E	Oc.W. period 5s	216 66	22	White square tower, rectangular dwelling; 67.	Visible 320°-253°.
14260 F 2624	Fortune Island, summit.	14° 03.4' N 120° 29.5' E	Fl.W. period 10s	415 126	10	White concrete tower; 30.	
14261 F 2615	Balatoc, on reef.	13° 50.4' N 120° 36.3' E	Fl.W. period 5s				

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PHILIPPINES							
14262 F 2626	Nasugbu.	14° 05.0' N 120° 37.3' E	Fl.G. period 5s		7		
14264 F 2632	La Monja Island.	14° 22.8' N 120° 31.3' E	Fl.W. period 5s	128 39	10	Wooden platform.	
MANILA BAY:							
14268 F 2630	-Mariveles, at foot of pier.	14° 26.0' N 120° 29.0' E	Fl.(2)G. period 10s	40 12	7	Concrete tower; 36.	
14270 F 2631	-Sisman, on Gorda Point.	14° 25.4' N 120° 31.1' E	Fl.W. period 5s		7	Concrete tower; 36.	
14272 F 2634	-Corregidor Island.	14° 22.8' N 120° 34.5' E	Fl.(3)W. period 20s	633 193	23	White round tower, dwelling surrounds base; 48.	Obscured in North Channel by hills 110°-192°.
14274 F 2634.5	-Calungpang Point.	14° 16.5' N 120° 37.7' E	Fl.G. period 5s				
14276 F 2635	--El Fraile.	14° 18.4' N 120° 37.8' E	Fl.W. period 5s		10		
14280 F 2635.5	-Puerto Azul.	14° 17.0' N 120° 40.9' E	Fl.R. period 5s				
14284 F 2643	San Nicolas Shoals.	14° 26.3' N 120° 45.8' E	Fl.R. period 5s	36 11	7		
14286 F 2645	-Cavite City.	14° 28.7' N 120° 53.4' E	Fl.G. period 5s				
14287 F 2645.5	-CBB Wharf.	14° 29.8' N 120° 55.0' E	Fl.R. period 5s				
14288 F 2647	-Sangley Point AVIATION LIGHT.	14° 29.8' N 120° 55.0' E	Al.Fl.W.G. period 10s	120 37	15	Tower; 108.	Oc.R. 2s 47m on radio mast 0.8 mile SW.
14292 F 2648	-AVIATION LIGHT Manila International Airport.	14° 31.0' N 121° 01.0' E	Al.W.G. period 10s	180 55	10	Concrete water tower; 134.	
-Manila Harbor:							
14296 F 2662	--Yacht basin entrance, jetty spur, head.	14° 33.9' N 120° 58.7' E	Fl.R. period 5s	35 11	7	White concrete pillar; 25.	
14300 F 2663	--Detached jetty, SW. head.	14° 34.0' N 120° 59.0' E	Fl.(3)G. period 10s	23 7	7	Gray concrete pyramid; 13.	
14304 F 2650	--Napindan, outlet of Pasig River from Laguna de Bay.	14° 31.3' N 121° 06.9' E	Fl.R. period 5s	30 9	7	White concrete pillar; 30.	
14308 F 2660	S. breakwater, S. head.	14° 34.0' N 120° 58.0' E	Fl.G. period 5s	24 7	8	White concrete pillar; 18.	
14312 F 2660.2	S. breakwater, N. head.	14° 34.3' N 120° 57.4' E	Fl.R. period 5s	36 11	8	White metal column; 36.	
14316 F 2654	--W. breakwater, S. head.	14° 34.4' N 120° 57.3' E	Fl.G. period 5s	40 12	8	White steel round tower on concrete base, black bands; 34.	
14320 F 2653	--Custom House.	14° 35.2' N 120° 58.0' E	Fl.R. period 10s	198 60	20	Tower on building.	Visible 322°-130°.
14324 F 2669	--Pasig River.	14° 35.6' N 120° 57.6' E	Fl.W. period 5s	43 13	8	White round tower, dwelling; 46.	
14328 F 2670	--Entrance, N. side of International Port Basin.	14° 36.4' N 120° 56.0' E	Fl.G. period 5s	39 12	8		

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PHILIPPINES							
14332 <i>F 2670.5</i>	--Entrance, S. side of International Port Basin.	14° 36.2' N 120° 56.0' E	Fl.R. period 5s	43 13	8		
14334 <i>F 2670.8</i>	--N. breakwater, head.	14° 37.1' N 120° 56.6' E	Fl.R. period 5s		6		
MANILA BAY:							
-Manila Harbor:							
14334.8 <i>F 2642.6</i>	--Bulacan River.	14° 42.1' N 120° 52.1' E	Fl.W. period 5s				
14335 <i>F 2642.4</i>	--Pamarauan.	14° 45.4' N 120° 48.9' E	Fl.(2)W. period 8s	33 10			
14335.6 <i>F 2642.2</i>	--Binangbang River.	14° 45.5' N 120° 45.0' E	Fl.W. period 5s	33 10			
14336 <i>F 2641</i>	--Pugad River.	14° 45.7' N 120° 44.5' E	Fl.W. period 5s	36 11			
14336.2	--Hagonoy River.	14° 46.2' N 120° 41.1' E	Fl.W. period 5s				
14340 <i>F 2640</i>	-Luzon Point, pier, head.	14° 32.0' N 120° 36.0' E	F.R.				
14344 <i>F 2636</i>	-Lokanin Point, dolphin No. "1".	14° 28.0' N 120° 36.0' E	F.W.	19 6	Black square daymark, green reflective border on pile.	Occasional. Radar reflector.	
14352 <i>F 2639</i>	--No. "2B" Range, front.	14° 29.0' N 120° 36.0' E	F.G.	63 19	On oil tank.	Occasional.	
14356 <i>F 2639.1</i>	--Rear, No. "2A", about 105 meters 285°12' from front.	14° 29.0' N 120° 36.3' E	F.G.	85 26	On oil tank.	Occasional.	
14360 <i>F 2672.8</i>	Cabayoc Point.	14° 37.0' N 120° 22.0' E	Oc.R., F.R. (vert.) period 2s lt. 1.5s, ec. 0.5s		Skeleton tower.		
SUBIC BAY:							
14364 <i>F 2673</i>	Sueste Point.	14° 45.1' N 120° 11.3' E	Fl.W. period 5s	207 63	White round metal tower, dwelling, red roof; 30.	Visible 216°-048°.	
14368 <i>F 2673.4</i>	-Ilanin Bay.	14° 46.0' N 120° 15.2' E	Dir.Iso.W. period 6s	50 15	Column on platform, red and white checkered diamond.	Intensified bearing 141°.	
14372 <i>F 2674</i>	-Cubi point AVIATION LIGHT.	14° 48.0' N 120° 15.9' E	Al.Fl.W.G.				
14376 <i>F 2675</i>	-Kalaklan Point.	14° 49.5' N 120° 16.0' E	Fl.G. period 6s fl. 1s, ec. 5s	77 23	White concrete tower; 32.	Visible 11 miles when bearing 051°.	
14377 <i>F 2676</i>	-Mayagna Island.	14° 50.1' N 120° 14.2' E	Fl.W. period 5s		Tower.		
14380 <i>F 2680</i>	Capones.	14° 54.9' N 120° 00.5' E	Fl.(3)W. period 15s	245 75	White concrete tower; 56.	Visible 302°-243°.	
14381 <i>F 2677</i>	Botolan.	15° 14.0' N 120° 00.7' E	Fl.(3)W. period 15s				
14382 <i>F 2681</i>	Scarborough Reef.	15° 07.6' N 117° 48.7' E	Fl.W. period 5s	15			
14384 <i>F 2682</i>	Palaug Point.	15° 26.0' N 119° 54.0' E	Fl.(2)W. period 10s	89 27	12 White steel framework tower; 29. Visible 330°-180°.		

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PHILIPPINES							
14388 F2684	Hermana Mayor Island.	15° 47.5' N 119° 47.8' E	Fl.W. period 5s	157 48	20	White concrete tower; 29.	Visible 340°-165°.
14390 F2686	Cabaongan.	16° 00.4' N 119° 45.7' E	Fl.(3)W. period 15s				
14391 F2686.6	Sabangan Point.	16° 07.9' N 119° 46.7' E	Fl.G. period 5s		10		
14392 F2688	Cape Bolinao.	16° 18.4' N 119° 47.2' E	Fl.W. period 5s	294 90	22	White round concrete tower; 89.	Visible 017°-215°.
14396 F2690	Bolinao Harbor.	16° 22.7' N 119° 54.8' E	Fl.W. period 5s	85 26	15	White concrete tower, white square daymark; 44. Floodlit.	
14397 F2689	Silaqui Island.	16° 26.7' N 119° 55.4' E	Fl.(2)W. period 10s				
14398 F2691	Lucap.	16° 11.7' N 120° 00.1' E	Fl.G. period 5s		10		
14399 F2692	Portuguese Point.	16° 04.5' N 120° 06.7' E	Fl.R. period 5s		12	Concrete mast; 33.	
14400 F2694	Dagupan.	16° 04.6' N 120° 20.5' E	Fl.W. period 5s	47 14	15	White concrete house; 16.	
14404	AVIATION LIGHT, about 914 meters E. of Dagupan.	16° 04.0' N 120° 21.0' E	F.R.				
14405 F2696	Damortis.	16° 16.3' N 120° 23.6' E	Fl.R. period 5s		10		
14406 F2697	Santa Rita.	16° 21.3' N 120° 20.4' E	Fl.W. period 5s		7		
14408 F2698	San Fernando Point.	16° 36.9' N 120° 16.8' E	Fl.(2)W. period 10s	107 33	20	White round metal tower; 27.	
14412 F2702	San Fernando Range, front.	16° 37.0' N 120° 18.7' E	F.G.	21 6	7	Orange pole, orange triangular daymark, black stripe.	Difficult to distinguish when unlit.
14416 F2702.1	-Rear, about 640 meters 144°36' from front.	16° 36.7' N 120° 18.9' E	F.G.	110 34	7	Orange pole, triangular daymark, point down.	Difficult to distinguish when unlit.
14420 F2704	Carlataan Lagoon.	16° 39.0' N 120° 19.0' E	F.W.		4	Conspicuous tower.	<i>Reported destroyed (Oct. 1984).</i>
14424 F2705	Darigayos Point.	16° 49.1' N 120° 20.2' E	Fl.G. period 5s		12		
14428 F2708	Tagudin, NW. of town.	16° 57.0' N 120° 26.0' E	Fl.(2)R. period 5s	26 8	7	White concrete tower; 24.	
14432 F2712	Candon, on beach.	17° 12.1' N 120° 25.2' E	Fl.R. period 5s	48 15	7	White concrete structure.	Visible 350°-123°.
14434 F2713	Apatot.	17° 19.9' N 120° 27.6' E	Iso.R. period 15s	32 10			
14436 F2714	Pandan, on beach.	17° 31.9' N 120° 22.2' E	Fl.G. period 5s	41 12	9	White concrete tower; 25.	Visible 325°-120°.
14438	Puropingit.	17° 41.3' N 120° 21.3' E	Fl.W. period 10s				
14440 F2716	Salamague.	17° 46.5' N 120° 25.5' E	Fl.R. period 5s	39 12	15	White framework structure; 30.	Visible 058°-114°.
14442	Cabangtalan.	17° 51.3' N 120° 26.8' E	Fl.W. period 5s				
14448 F2568	Cape Calavite.	13° 26.0' N 120° 18.0' E	Fl.W. period 5s	137 42	18	White round steel tower; 62.	Visible 349°-203°.

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PHILIPPINES							
14450 F 2569	Tubili Point.	13° 13.6' N 120° 31.5' E	Fl.(4)W. period 20s				
14452 F 2560	Escarceo Point.	13° 31.0' N 120° 59.0' E	Fl.W. period 10s	136 41	18	White concrete house; 47.	Visible 112°-020°.
14456 F 2562	Port Galera.	13° 30.8' N 120° 57.6' E	Fl.R. period 3s	60 18	7	White triangular beacon, black stripe; 10.	
14460 F 2564	Varadero Bay.	13° 30.1' N 120° 57.3' E	Fl.G. period 5s	85 26	7	White concrete column; 26.	
14464 F 2558	Calapan, Government Dock, head.	13° 26.0' N 121° 12.0' E	Fl.W. period 5s	36 11	10	White concrete tower; 24.	Visible 071°-198°.
14465 F 2566	Wawa.	13° 27.8' N 120° 45.0' E	Fl.(3)W. period 15s		12		
14468 F 2554	Dumali Point.	13° 07.2' N 121° 33.3' E	Fl.(2)W. period 10s	173 53	20	White round steel tower, dwelling with red roof; 62.	Visible 132°-357°.
14469 F 2553	Bugol Point.	13° 03.9' N 121° 31.6' E	Fl.W. period 5s		3		
14470 F 2551	Dayugan Point.	12° 36.5' N 121° 33.3' E	Fl.W. period 10s				
14472 F 2550	Bongabong.	12° 44.9' N 121° 29.3' E	Fl.(2)W. period 10s	42 13	9	White fiberglass tower; 30.	Visible 182°-309°.
14472.5 F 2549.5	Bansud, on Bonsod Point.	12° 51.5' N 121° 29.4' E	Fl.R. period 5s				
MAESTER DE CAMPO ISLAND:							
14473 F 2532	-Tunggo Point.	12° 54.2' N 121° 43.4' E	Fl.W. period 5s				
14474 F 2531	-Port Concepcion.	12° 54.1' N 121° 43.4' E	Fl.R. period 5s		12		
14475 F 2533	-Mahaba Point.	12° 55.8' N 121° 41.0' E	Fl.W. period 7s		12	White metal and fiberglass tower; 32.	
14475.4 F 2549.3	Balete.	12° 54.5' N 121° 28.8' E	Fl. R. period 3s				
14476 F 2552	Pinamalayan, on beach.	13° 02.2' N 121° 29.6' E	Fl.R. period 5s	35 11	7	White concrete tower; 33.	Visible 231°-357°.
14480 F 2576	Ambulong Island.	12° 12.6' N 121° 00.7' E	Fl.W. period 5s	446 136	21	White steel framework structure; 53.	Visible 292°-160°. Structure obscured by trees.
14484 F 2575	Caminawit Point.	12° 20.0' N 121° 05.2' E	Fl.R. period 5s	33 10	7	White concrete tower.	F.R. 110ft light shown from tower about 1.6 miles NW.
14486 F 2574.5	Bantac Island.	12° 12.8' N 120° 23.4' E	Fl.(2)W. period 10s				
14488 F 2570	Sablayan Point.	12° 49.8' N 120° 45.9' E	Fl.(3)W. period 10s	157 48	9	Concrete tower; 38.	Visible 344°-175°.
14492 F 2574	Apo Island.	12° 39.6' N 120° 25.0' E	Fl.W. period 10s	115 35	17		
14494 F 2173	Decabaito Island.	11° 38.0' N 119° 58.2' E	Fl.(2)W. period 10s				
14496 F 2174	Culion Island, fort at N. point of entrance to Culion.	11° 53.5' N 120° 01.5' E	Fl.R. period 5s	115 35	7	Pole on bastion of fort; 11.	Visible 154°-293°.
14497 F 2176	Delian Island.	11° 49.7' N 120° 18.6' E	Mo.(A)W. period 6s				

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PHILIPPINES							
14497.2 <i>F 2179.2</i>	Coron Harbor, Coron Point.	11° 59.1' N 120° 13.3' E	Fl.W. period 5s				
14497.4 <i>F 2180</i>	-On reef.	11° 59.1' N 120° 12.6' E	F.R.	30 9			
14498 <i>F 2287.5</i>	Caluya Island.	11° 54.7' N 121° 34.5' E	Fl.(2)W. period 15s				
14500 <i>F 2288</i>	Maniguin Island.	11° 35.7' N 121° 41.9' E	Fl.(2)W. period 10s	191 58	20	Round concrete tower, dwelling; 99.	
14504 <i>F 2287</i>	Manamoc Island, W. side.	11° 18.5' N 120° 40.5' E	Fl.(2)W. period 10s	200 61	10	Concrete tower; 39.	
14506 <i>F 2286.5</i>	Agutaya Island.	11° 08.4' N 120° 56.5' E	Fl.R. period 5s		8		
14508 <i>F 2286</i>	Cuyo Island, pier on W. side.	10° 51.2' N 121° 00.3' E	Fl.(2)W. period 10s	42 13	7	Concrete tower; 27.	
14512 <i>F 2338</i>	Manukan Islet.	9° 39.0' N 121° 21.0' E	Fl.W. period 5s	70 21	14		
14513 <i>F 2172</i>	Palawan, Tarumpitao.	9° 02.8' N 117° 38.8' E	Fl.(2)W. period 10s			Red mast, white bands; 121.	
14514 <i>F 2171</i>	Malanut Bay, Quezon.	9° 15.2' N 117° 59.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	50 15	9	White tower; 29.	
14515 <i>F 2170</i>	Cagnipa Island.	10° 30.5' N 119° 04.4' E	Fl.(2)W. period 6s				
14516 <i>F 2168</i>	Langoy Island.	10° 29.7' N 119° 59.6' E	Fl.W. period 5s	364 111	15	White round tower, white dwelling; 35.	
14517	Barbacan Point.	10° 19.0' N 119° 21.1' E	Fl.W. period 5s	30 9	10		
14518 <i>F 2166</i>	Bold Point.	10° 01.7' N 119° 08.7' E	Fl.(2)W. period 10s				
14519 <i>F 2167</i>	Camungyan Island.	10° 09.3' N 118° 45.9' E	Fl.W. period 3s	16 5	17		
14520 <i>F 2164</i>	Puerto Princesa, Tidepole Point.	9° 43.9' N 118° 43.9' E	Fl.R. period 5s	43 13	10	White tower; 25.	Visible 285°-326°. 2 F.R. (vert.) on radio mast 550 meters NE. R Lts. on water tank 0.8 mile NW.
14524 <i>F 2163</i>	-Bancaobancaon Point.	9° 43.4' N 118° 46.1' E	Fl.(3)W. period 5s	35 11	15	White concrete tower; 35.	Visible 225°-080° except where obscured by vegetation.
14526 <i>F 2162</i>	Calver Point.	9° 21.5' N 118° 32.2' E	Fl.W. period 5s				
14527 <i>F 2161</i>	Panacan.	9° 14.7' N 118° 24.4' E	Fl.R. period 5s				
14528 <i>F 2340</i>	Tubbataha Reefs.	8° 44.0' N 119° 49.1' E	Fl.(2)W. period 10s		15	White round stone structure, white square building.	
14532 <i>F 2160</i>	Sir J. Brooke Point.	8° 46.2' N 117° 50.2' E	Fl.R. period 5s	35 11	15	Pole on SE. corner of block house; 15.	Visible seaward over arc of 180°.
14534 <i>F 2158</i>	Comiran Island.	7° 55.0' N 117° 13.1' E	Fl.W. period 5s		6		
14536 <i>F 2156</i>	Espina Point.	7° 59.6' N 117° 04.4' E	Fl.W. period 5s	131 40	15	White concrete tower, dwelling; 33.	Visible 190°-336°.
14540 <i>F 2152</i>	Cape Melville.	7° 49.2' N 117° 00.0' E	Fl.W. period 5s	296 90	20	Yellow octagonal masonry tower, white lantern, detached dwelling; 90.	Visible 245°-150°.

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PHILIPPINES							
14542 <i>F 2159</i>	Mangsee Island.	7° 30.4' N 117° 18.4' E	Fl.W. period 5s				
14544 <i>F 2142</i>	Tandotao Point, on Cagayan Sulu Island.	6° 58.1' N 118° 31.9' E	Fl.W. period 5s	387 118	12	White concrete tower; 32.	
14548 <i>F 2520</i>	Apunan Point.	12° 28.6' N 122° 17.1' E	Fl.W. period 10s	97 30	17	Steel framework tower, white dwelling; 62.	Visible 264°-133°.
ROMBLON HARBOR:							
14552 <i>F 2516</i>	-Binagon Point, reef, head.	12° 35.0' N 122° 16.0' E	Fl.G. period 5s	15 5	7	Center post of beacon; 15.	
14556 <i>F 2517</i>	-Agbatan Point, reef, head.	12° 35.2' N 122° 15.8' E	Fl.R. period 5s		7		
14560 <i>F 2514</i>	-Sagang Point, 274 meters from extremity.	12° 35.6' N 122° 15.9' E	Fl.W. period 5s	116 35	5	White concrete tower with dwelling S. of tower; 18.	Visible in approaching Romblon through all three channels. Obscured on E. side of N. channel at 197°.
14564 <i>F 2527.8</i>	Badajoz.	12° 34.2' N 122° 08.1' E	Fl.R. period 5s		7		
14566 <i>F 2528.5</i>	Biaringen Island.	12° 37.7' N 122° 09.8' E	Fl.(2)W. period 10s				
14568 <i>F 2529</i>	Gorda Point.	12° 39.7' N 122° 09.1' E	Fl.(3)W. period 15s	212 65	22	White metal framework tower and dwelling; 62.	Visible 110°-333°, except where obscured by Guindauahan Island.
14572 <i>F 2530</i>	Simara Island.	12° 47.8' N 122° 01.1' E	Fl.W. period 10s	66 20	16	White concrete tower; 32.	Visible 309°-215°.
14576 <i>F 2528</i>	Carmen Bay.	12° 37.0' N 122° 07.2' E	Fl.W. period 5s	36 11	7	White concrete tower; 33.	Visible 262°-317°.
14578 <i>F 2523</i>	Bantiano Point.	12° 25.5' N 121° 59.3' E	F.R.			Concrete tower; 32.	
14580 <i>F 2524</i>	Tablas Island, Odiongan, on beach.	12° 24.0' N 121° 58.7' E	Fl.R. period 5s	32 10	7	White concrete tower; 30.	Visible 096°-194°.
14584 <i>F 2526</i>	Looc Reef.	12° 14.8' N 121° 58.8' E	Fl.G. period 5s	46 14	18	White concrete beacon; 46.	Visible 062°-127°.
14588 <i>F 2527</i>	Port Malbog.	12° 14.0' N 122° 00.0' E	Fl.R. period 5s		6	Concrete tower; 15.	
14592 <i>F 2527.6</i>	Cabalian Point.	12° 06.1' N 122° 00.8' E	Fl.(2)R. period 10s	122 37	7	White concrete tower; 29.	Visible 238°-144°.
14593 <i>F 2527.6</i>	Calaton Point.	12° 10.9' N 122° 04.1' E	Fl.W. period 10s				
14594 <i>F 2511</i>	Magdiwang.	12° 29.7' N 122° 29.5' E	Fl.W. period 5s		12	Beacon.	
14596 <i>F 2512</i>	Cauit Point.	12° 16.2' N 122° 37.8' E	Fl.(2)W. period 10s	33 10	16	White concrete tower; 35.	
14596.5 <i>F 2512.5</i>	Cresta de Gallo Island.	12° 11.1' N 122° 41.8' E	Fl.W. period 5s				
14597 <i>F 2513</i>	Cajidiochan Point.	12° 21.8' N 122° 41.0' E	Fl.(2)W. period 5s				
14598 <i>F 2292.5</i>	Pagbulungan Point.	12° 13.1' N 123° 13.6' E	Fl.(2)G. period 5s				
14600 <i>F 2510</i>	Bugui Point.	12° 36.1' N 123° 14.2' E	Fl.(3)W. period 10s	218 66	20	White round masonry tower, gray dwelling; 49.	Visible 008°-277°.

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PHILIPPINES							
14602 F 2503	Aguja Point.	12° 41.8' N 123° 23.0' E	Fl.W. period 5s				
14602.5 F 2503.2	Bagasiong Point.	12° 50.7' N 123° 12.0' E	Fl.W. period 5s				
14603 F 2503.5	San Pascual.	13° 08.9' N 122° 59.0' E	Fl.W. period 10s				
14604 F 2508	Colorada Point.	12° 32.6' N 123° 22.7' E	Fl.(2)R. period 5s	109 33	16	White concrete tower and dwelling; 16.	Visible 130°-085°.
14606 F 2505.5	Caduruan Point.	11° 48.3' N 124° 03.9' E	Fl.(2)W. period 10s				
14607	Masbate Harbor, NW. Point.	12° 23.0' N 123° 36.5' E	Fl.R. period 5s				
14608 F 2506	-Masbate Harbor, W. side.	12° 22.8' N 123° 37.5' E	Fl.R. period 5s	52 16	7	White framework tower on concrete house; 43.	
14612 F 2502	San Miguel Island.	12° 43.1' N 123° 35.3' E	Fl.(3)W. period 15s	222 68	12	Concrete tower; 36.	Visible 006°-288°.
14616 F 2498	Matabao Island.	12° 18.6' N 123° 48.5' E	Fl.W. period 5s	106 32	10	White steel round tower; 33.	
14620 F 2500	Port San Jacinto.	12° 34.2' N 123° 44.1' E	Fl.R. period 5s	55 17	15	White concrete tower; 26.	Visible 177°-334°.
14622 F 2293	Pulanduta Pt.	11° 54.4' N 123° 09.8' E	Fl.W. period 5s				
14623 F 2293.5	Milagros.	12° 13.0' N 123° 31.9' E	Fl.(2)R. period 4s				
14624 F 2292	Jintotolo Island.	11° 50.5' N 123° 07.2' E	Fl.(3)W. period 10s	187 57	20	Gray square stone tower, dwelling at base; 51.	
14626 F 2301	-Apga Point.	11° 47.7' N 122° 15.4' E	Fl.(2)W. period 5s				
14628 F 2302	Floripon Point.	11° 36.6' N 122° 29.5' E	Fl.(3)W. period 15s	39 12	11	Round metal tower; 36.	
14632 F 2304	Culasi Point.	11° 36.6' N 122° 42.3' E	Fl.W. period 3s	157 48	18	Concrete structure; 16.	Visible 345°-254°.
14636 F 2305	Capiz Bay, Libas Cove, S. breakwater, W. head.	11° 36.1' N 122° 42.4' E	F.R.	13 4	7		
14640 F 2306	-N. breakwater, S. head.	11° 36.2' N 122° 42.4' E	Q.(6)G. period 5s	13 4	7		
14642 F 2307	Zapato Menor Island.	11° 42.8' N 122° 59.0' E	Fl.(2)W. period 10s				
14644 F 2308	Manigonigo Island.	11° 36.3' N 123° 10.6' E	Fl.W. period 7s	68 21	16	White round tower, dwelling; 29.	
14648 F 2294	North Gigante Island.	11° 38.4' N 123° 21.4' E	Fl.W. period 10s	77 23	17	White round tower, white dwelling with red roof; 38.	Visible 076°-343°, obscured by Uaidjun Island 267°- 275°.
14652 F 2296	Tanguingui Island.	11° 29.2' N 123° 43.6' E	Fl.(2)W. period 5s	128 39	15	Black steel tower, white lantern, concrete dwelling, white roof; 113.	
14656 F 2310	Estancia.	11° 27.0' N 123° 09.2' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	49 15	9	White fiberglass tower; 32.	Partly obscured by islands.

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PHILIPPINES							
BANTAYAN ISLAND:							
14660 F 2298	-Bantayan, on beach.	11° 10.9' N 123° 42.8' E	Fl.W. period 10s	39 12	10	White concrete tower; 33.	Visible 355°-150°.
14664 F 2300	-Buntay Point.	11° 18.1' N 123° 43.7' E	Fl.W. period 5s	33 10	10	White concrete tower.	
14665 F 2297	Guintacan Island.	11° 18.0' N 123° 53.6' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	213 65	17	White octagonal tower; 66.	Visible 045°-315° (approximate).
14668 F 2314	Balguian Island.	11° 12.2' N 123° 20.3' E	Fl.W. period 7s fl. 0.2s, ec. 6.8s	75 23	14	White octagonal tower; 66.	
14672	<i>Carmen Shoals Buoy</i> , S. side of shoal.	11° 02.0' N 123° 20.0' E	Fl.W. period 5s			Red buoy.	
14676 F 2357.4	Cadiz.	10° 57.4' N 123° 19.3' E	Fl.W. period 5s		18		
14680 F 2357.6	Victorias.	10° 55.0' N 123° 04.0' E	F.G.			White tower.	
14684 F 2357	Himugann River, entrance.	10° 58.0' N 123° 24.0' E	F.R.W. (vert.)				In range with Sagay Water Tower 170°. Private light.
14686 F 2358.2	Bacolod City.	10° 42.4' N 122° 56.0' E	Fl.R. period 5s				
14687 F 2318	San Juan Point.	11° 00.0' N 122° 50.0' E	F.W.				
14688 F 2316	Calabazas Island.	11° 04.5' N 123° 01.4' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	131 40	17	White octagonal tower; 66.	
ILOILO:							
14692 F 2320	-Siete Pecados.	10° 46.0' N 122° 40.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	89 27	9	White tower; 32.	
14694 F 2319	-Navalas Point.	10° 43.0' N 122° 42.7' E	Fl.(3)W. period 6s				
14696 F 2326.2	-River entrance, N. side.	10° 41.6' N 122° 35.1' E	Fl.R. period 4s fl. 0.7s, ec. 3.3s	30 9	6	White fiberglass tower; 20.	
14700 F 2326	--S. side.	10° 41.5' N 122° 35.0' E	Fl.G. period 4s fl. 0.7s, ec. 3.3s	26 8	6	White fiberglass tower; 20.	Obscured by Fort San Pedro 038°-047°.
14704	-Morubuan Point Buoy "4".	10° 39.0' N 122° 32.0' E	Fl.W. period 4s			Red buoy.	
14708 F 2328	Lusaran Point.	10° 28.9' N 122° 28.5' E	Fl.W. period 15s	111 34	20	White round metal tower, dwelling at base, gray trimming; 38.	Visible 339°-184°.
14716 F 2359.5	Himamaylan River, S. side.	10° 06.0' N 122° 51.0' E	Fl.R. period 5s	23 7	7	Concrete beacon; 23.	Visible 070°-175°.
14717 F 2359.7	Sojoton Point.	9° 58.4' N 122° 27.4' E	Fl.(2)W. period 10s				
14720 F 2332	Nogas Island.	10° 25.1' N 121° 55.3' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	115 35	17	White octagonal tower; 98.	Visible 271°-170°, except where obscured by Jurao Jurao Island 278°-285°.

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PHILIPPINES							
14724 F2334	Tubigan Point, San Jose de Buenavista.	10° 44.3' N 121° 56.1' E	Fl.(3)W. period 5s	49 15	7	White concrete tower on fort; 39.	
14725 F2336	Tibiao Point.	11° 17.7' N 122° 01.6' E	Fl.W. period 10s				
14728 F2337	Pucio Point.	11° 45.7' N 121° 50.7' E	Fl.W. period 7s				
14730 F2345	Antulang.	9° 02.4' N 123° 01.0' E	Fl.(3)W. period 15s		7		
14732 F2346	Dumaguete, middle corner of wharf.	9° 18.9' N 123° 18.6' E	Fl.G. period 3s	38 12	8	White concrete tower; 34.	Visible 198°-359°.
14736 F2347	-Center of town.	9° 19.0' N 123° 19.0' E	Oc.W. period 5s lt. 3s, ec. 2s	97 30	10	Steel tower.	
14740 F2356	San Carlos.	10° 29.0' N 123° 25.0' E	Fl.(2)R. period 10s	27 8	10	White concrete tower; 23.	Visible 228°-268° and 008°-shore. F.W. shown from stack of San Carlos Milling Co.
14744 F2354	Refugio Island.	10° 28.2' N 123° 26.9' E	Fl.W. period 7s	121 37	18	White steel tower, concrete dwelling; 55.	
14748 F2356.4	Escalante, on ruins of wharf in Danao River.	10° 49.0' N 123° 33.0' E	F.R.	37 11	8	White concrete tower; 33.	Visible 250°-288°.
14752 F2362	Balamban.	10° 30.3' N 123° 42.8' E	Fl.W. period 5s	43 13	10	White concrete tower; 28.	
14756 F2363.4	Sangi.	10° 24.0' N 123° 38.0' E	F.R.	13 4	7		Visible 049°-205°.
14760 F2363	Toledo.	10° 23.0' N 123° 38.0' E	Fl.R. period 5s		6	Concrete tower; 20.	
14764 F2352	Guihulngan.	10° 07.3' N 123° 16.3' E	Fl.(3)W. period 12s	36 11	7		
14768 F2364	Dumanjug, Tangil, on beach.	10° 04.0' N 123° 27.0' E	Fl.R. period 10s	33 10	12	White concrete tower; 29.	
14772 F2366	Pescador Island.	9° 55.4' N 123° 20.6' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	82 25	9	White concrete tower; 32.	
14776 F2350	South Bais Bay, jetty, E. head.	9° 33.0' N 123° 09.0' E	F.R.				
14780 F2348	Amblan Point, SE. part Negros Island.	9° 28.0' N 123° 13.6' E	Fl.W. period 5s	36 11	10	White concrete tower; 29.	Visible 140°-327°.
14784 F2368	Port Canano, Siquijor Island, front, near bridge, harbor, head.	9° 15.1' N 123° 36.1' E	F.R.		7	White triangular daymark, point up, black stripe.	
14788 F2368.1	-Rear, 777 meters 115° from front.	9° 14.9' N 123° 36.1' E	F.R.		7	White triangular daymark, point down, black stripe.	
14792 F2370	Lazi, Siquijor Island.	9° 08.0' N 123° 38.0' E	F.R.		4	Concrete tower; 33.	
14793 F2369	Minalulan Point.	9° 07.2' N 123° 40.9' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	184 56	17	White tower; 66.	
14796 F2344	Apo Island.	9° 05.2' N 123° 15.9' E	Fl.W. period 5s	428 130	15	Concrete tower, white lantern and dwelling; 35.	
14800 F2406	Capitancillo Island.	10° 59.5' N 124° 06.2' E	Fl.(3)W. period 10s	98 30	15	Black steel tower, white lantern, red-roofed stone dwelling at base; 83.	

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PHILIPPINES							
14804 <i>F 2408</i>	Bogo Harbor, on reef at N. side of entrance.	11° 05.2' N 124° 01.7' E	Fl.(2)R. period 10s	13 4	9	White concrete tower, red diamond daymark; 23.	
14808 <i>F 2410</i>	Chocolate Island, center.	11° 18.4' N 124° 03.7' E	Fl.W. period 5s	170 52	10	White concrete tower; 32.	
14810 <i>F 2412.5</i>	Carnasa Island.	11° 30.9' N 124° 06.1' E	Fl.(2)W. period 10s				
14812 <i>F 2412</i>	Malapascua Island.	11° 20.6' N 124° 06.4' E	Fl.(2)W. period 10s	112 34	18	White steel tower; 37.	
14816 <i>F 2360</i>	N. side, entrance to Hagnaya Bay.	11° 07.1' N 123° 56.4' E	Fl.R. period 5s	46 14	7	Concrete tower; 46.	Visible 036°-160° and 170°-181°.
14820 <i>F 2404</i>	Sogod Bay.	10° 45.0' N 124° 00.0' E	Fl.(3)W. period 10s				Private light.
14824 <i>F 2402</i>	Bagacay Point.	10° 23.1' N 124° 01.1' E	Fl.W. period 5s	146 44	20	Concrete tower, white dwelling; 72.	Visible 179°-043°. Reported obscured approaching from NE.
CEBU HARBOR:							
14828 <i>F 2400</i>	-Bantolinao Point, reef, edge.	10° 20.1' N 123° 59.2' E	Fl.G. period 5s	30 9	6	White concrete tower; 30.	Visible 060°-294°.
14832 <i>F 2399</i>	-AVIATION LIGHT.	10° 19.3' N 123° 58.8' E	Al.Fl.W.G. period 6s	194 59	15	Concrete tower.	Aero Radiobeacon.
14840 <i>F 2392</i>	-Provincial Capitol.	10° 19.1' N 123° 53.4' E	Fl.W.R. period 5s	200 61	6	Dome of Capitol.	R. 336°-001°, W.-007°, R.-032°.
14845 <i>F 2393</i>	-Shell Island.	10° 17.1' N 123° 54.1' E	V.Q.(2)W. period 4s		10		
14845.4 <i>F 2398</i>	-Lapu Lapu City.	10° 18.8' N 123° 56.9' E	Fl.R. period 3s	33 10	6	White tower.	
14846 <i>F 2390</i>	-Cauit Island.	10° 16.3' N 123° 52.9' E	Fl.W. period 5s		10		
14848 <i>F 2388</i>	-Luis Ledge.	10° 14.2' N 123° 53.4' E	Fl.W. period 5s	53 16	13	Metal tower on concrete dwelling; 28.	Visible 304°-184°.
BOHOL ISLAND:							
14852 <i>F 2376</i>	-Maribojoc.	9° 44.2' N 123° 50.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	43 13	9	White fiberglass tower; 32.	
14856 <i>F 2386</i>	-Jetafe, on wharf.	10° 09.3' N 124° 09.4' E	F.R.	35 11	3	Concrete mast; 33.	Visible 081°-166°06'.
14860 <i>F 2387</i>	-Tubigon, pier, head.	9° 57.5' N 123° 57.4' E	Fl.R. period 5s		10		
14861 <i>F 2387.7</i>	-Inabanga.	10° 02.0' N 124° 03.4' E	Fl.(2)R. period 4s				
14862 <i>F 2387.5</i>	-Catagbacan.	9° 51.7' N 123° 49.0' E	Fl.G. period 5s		12		
14863 <i>F 2378</i>	-Tagbilaran, No. "1".	9° 39.5' N 123° 49.7' E	Fl.G. period 3s fl. 0.7s, ec. 2.3s	33 10	6	Green hexagonal tower; 16.	
14864 <i>F 2378.1</i>	--No. "2".	9° 39.4' N 123° 49.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	3	Red pole; 6.	

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PHILIPPINES							
14864.2 <i>F 2378.2</i>	--No. "3".	9° 39.5' N 123° 49.7' E	Fl.G. period 5s	15 5	3	Beacon.	
14864.3 <i>F 2378.4</i>	--No. "5".	9° 39.4' N 123° 50.0' E	Fl.G. period 3s	7 2	3		
14864.4 <i>F 2378.6</i>	--No. "7".	9° 39.2' N 123° 50.4' E	Fl.G. period 5s	30 9	3		
14864.8 <i>F 2378.7</i>	--No. "8".	9° 39.0' N 123° 50.4' E	Fl.R. period 5s	7 2	3	Beacon, red triangular daymark, R. Lt. on radio tower 1.3 miles SE.	
14866 <i>F 2374.5</i>	-Argao.	9° 52.6' N 123° 36.5' E	Fl.(2)W. period 10s				
14868 <i>F 2380</i>	-Baclayon.	9° 37.3' N 123° 54.7' E	Fl.R. period 5s	40 12	3	White concrete tower; 33.	Visible 288°-098°.
14872 <i>F 2382</i>	-Loay, river entrance, E. side.	9° 36.0' N 124° 00.0' E	Fl.R. period 5s	32 10	7	White concrete tower; 31.	Visible 322°45'-064°40', 069°10'-070°50'.
14875 <i>F 2383.5</i>	-Gorda Point.	9° 35.9' N 124° 15.7' E	Fl.(2)W. period 4s				
14876 <i>F 2384</i>	-Jagna, inner end of wharf, S. coast of island.	9° 39.0' N 124° 22.0' E	Fl.R. period 5s	35 11	7	White concrete tower; 30.	Visible 268°55'-352°30'.
14876.5 <i>F 2384.3</i>	-Talisay.	9° 45.9' N 124° 35.6' E	Fl.(3)W. period 8s				
14877 <i>F 2384.6</i>	-Tugas Point.	10° 09.0' N 124° 37.0' E	Fl.(3)W. period 6s				
14877.3 <i>F 2384.4</i>	-Ubay.	10° 03.0' N 124° 28.0' E	Fl.G. period 3s		10		
14877.6 <i>F 2385.7</i>	-Talbon Bohol.	10° 16.4' N 124° 21.8' E	Fl.W. period 10s				
14877.8 <i>F 2385</i>	-Talibon.	10° 09.0' N 124° 19.6' E	Fl.G. period 3s		10		
14878 <i>F 2385.3</i>	-Tambo Island.	10° 11.5' N 124° 17.1' E	Fl.(2)R. period 5s				
14878.6 <i>F 2387.57</i>	-NW. Bank, No. "1".	10° 03.5' N 123° 59.1' E	Fl.G. period 3s	7 2	3		
14878.8 --No. "2".		10° 00.5' N 123° 56.9' E	Fl.R. period 3s	7 2	3		
14879	-Bagambanua.	10° 03.5' N 123° 53.9' E	Fl.(3)W. period 15s				
14879.6	-Pangangan Island.	9° 54.6' N 123° 48.8' E	Fl.R. period 5s				
14880 <i>F 2375</i>	-Cabilao Island.	9° 53.5' N 123° 45.5' E	Fl.W. period 5s	33 10	8	Concrete tower; 30.	
14884 <i>F 2374</i>	Balicasag Island.	9° 31.0' N 123° 41.1' E	Fl.W. period 7s fl. 0.2s, ec. 6.8s	121 37	17	White octagonal tower; 98.	
14885 <i>F 2383</i>	Pamilican Island.	9° 29.5' N 123° 55.2' E	Mo.(U)W. period 10s				
14888 <i>F 2416</i>	Biliran Strait.	11° 27.4' N 124° 28.7' E	Fl.W. period 4s	35 11	8	White concrete tower; 30.	Visible 270°-294° and 078°-126°.
14892 <i>F 2418</i>	Carigara.	11° 18.2' N 124° 41.2' E	Fl.G. period 5s	29 9	2	White concrete tower; 25.	Visible 075°-225°.
14896 <i>F 2423.1</i>	San Juanico Bridge, N. head.	11° 18.1' N 124° 58.2' E	Fl.G. period 2.5s		10		Navigable span marked by lights.

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PHILIPPINES							
14907 F 2421	-Ivantacut.	11° 27.0' N 124° 52.5' E	Fl.R. period 3s		3		
14908 F 2420	Canauay Islet.	11° 26.1' N 124° 51.2' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	105 32	9	White octagonal tower; 66.	Visible 080°-265°. Channel is marked by lights and light buoys.
14912 F 2423.5	-Santa Rita.	11° 25.8' N 124° 57.6' E	Fl.W. period 5s		15		
14916 F 2457	Tacloban.	11° 15.1' N 125° 00.3' E	Fl.(3)R. period 15s	52 16	15	White structure on top of building.	Visible 031°-322°, obscured by Dio Island 309°-311°.
14920 F 2458	Jinamoc Island, W. side.	11° 15.6' N 125° 04.5' E	Fl.(2)W. period 10s	78 24	12	White concrete tower; 30.	Partially obscured by land.
14924 F 2456	Mariquitdaquit Island.	11° 04.4' N 125° 09.3' E	Fl.W. period 4s	60 18	11	Black concrete tower; 32.	
14928 F 2455	Tolosa.	11° 04.1' N 125° 02.2' E	Fl.R. period 5s	416 127	12	Concrete tower on fort; 30.	
14932 F 2454.7	Abuyog.	10° 44.7' N 125° 00.8' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	77 23	9	White octagonal tower; 66.	
14935 F 2253	Capintac, on Dingat Island.	10° 26.5' N 125° 36.8' E	Fl.(4)W. period 12s				
14935.5 F 2253.5	-Loreto, Looc Bay.	10° 21.7' N 125° 34.8' E	Fl.R. period 5s				
14936 F 2426	Liloan Harbor, on extreme N. point of Panaon Island.	10° 09.7' N 125° 07.0' E	Fl.R. period 5s	32 10	7	Concrete post.	Visible 030°-340°.
14938 F 2427	Anahawan.	10° 15.4' N 125° 14.9' E	Fl.(2)W. period 5s				
14938.5 F 2427.2	San Jose.	10° 15.9' N 125° 10.6' E	Fl.W. period 5s				
14939 F 2427.5	Sogod.	10° 22.9' N 124° 58.8' E	Fl.W. period 5s				
14940 F 2428	Malitbog, Sogod Bay, near root of wharf.	10° 09.7' N 125° 00.1' E	Fl.R. period 3s	35 11	7	White concrete tower; 30.	
14944 F 2429	Limasawa Island, N. head.	9° 57.7' N 125° 03.7' E	Fl.(2)W. period 8s	128 39	5	Metal pole; 32.	
14948 F 2430	Maasin, boat landing.	10° 08.0' N 124° 50.0' E	Fl.R. period 5s	35 11	10	White concrete tower; 30.	Visible 279°-061°.
14952 F 2434	Canigao Island.	10° 14.9' N 124° 45.1' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	78 24	9	White octagonal tower; 67.	
14953 F 2435	Adam Reef.	10° 14.6' N 124° 42.2' E	Fl.W. period 5s	36 11	17	White hexagonal tower; 16.	
14954 F 2435.5	Tood Islets.	10° 15.6' N 124° 39.3' E	Fl.(3)W. period 15s	16 5	10		
14956 F 2436	Hindang, fort, NW. corner.	10° 26.2' N 124° 43.5' E	Fl.G. period 5s	37 11	10		
14958 F 2436.5	Tulang.	10° 36.0' N 124° 18.9' E	Fl.(3)W. period 15s				
14960 F 2438	Baybay.	10° 40.5' N 124° 48.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	43 13	9	White fiberglass tower; 32.	Visible over an arc of 109°.
14964 F 2437	Poro Island.	10° 38.0' N 124° 28.0' E	F.R.	159 48	4	Concrete pole; 30.	Visible 265°-066°.

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PHILIPPINES							
14968 F2442	Ormoc.	11° 00.3' N 124° 36.5' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	41 12	9	White tower; 29.	Visible 328°52'-102°50'.
14970 F2442.5	Calunangan.	10° 52.4' N 124° 30.1' E	Fl.(2)G. period 5s				
14972 F2443	Isabel Quiot, Dupon Bay.	10° 55.6' N 124° 25.9' E	F.R.	33 10	7	Concrete post; 33.	Visible 008°-054°.
14976 F2440	Albuera.	10° 54.9' N 124° 41.7' E	Fl.W. period 10s	39 12	10		
14980 F2444	Palompon, 229 meters N. of wharf.	11° 03.2' N 124° 22.9' E	Fl.R. period 5s	35 11	11	White concrete tower; 30.	Occasional. Private light.
14984 F2484	Catarman, on beach, N. coast of Samar.	12° 31.0' N 124° 39.0' E	F.R.	35 11	4	White concrete tower; 33.	Partially obscured by Hirapsan Island.
14988 F2474	Allen, N. of entrance to Sabag River.	12° 30.2' N 124° 17.1' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	41 12	9	White tower; 32.	Visible 043°-150°.
14992 F2482	San Jose, (Corangian).	12° 32.0' N 124° 29.0' E	Fl.W. period 5s	43 13	9	White tower; 32.	
14996 F2446	-Laoang Bay, Ipil Point.	12° 35.5' N 125° 00.0' E	Fl.W. period 5s				
15000 F2480	-Tinau.	12° 37.0' N 124° 26.0' E	Fl.R. period 5s	32 10	7	Concrete pole; 31.	
15004 F2448	Batag Island.	12° 39.6' N 125° 03.5' E	Fl.W. period 10s	313 95	20	White round concrete tower, red and white lantern, dwelling; 101.	
15005 F2448.5	Sila Point.	12° 24.4' N 125° 20.1' E	Fl.(2)W. period 10s				
15005.5 F2448.3	Hiunatungan Island.	12° 17.5' N 125° 23.9' E	Iso.R. period 4s				
15006 F2449	Linao Island.	12° 01.0' N 125° 33.1' E	Fl.W. period 5s		10		
15008 F2452	Borongan.	11° 36.8' N 125° 26.3' E	Fl.W. period 5s	36 11	10	White concrete tower; 24.	Partially obscured by Andis and Divinubo Islands.
15012 F2450	Divinubo Island, highest point.	11° 35.9' N 125° 30.2' E	Fl.W. period 5s	136 41	11	White framework tower on house; 46.	Visible 172°-335°.
15014 F2452.5	Tugnung Point.	11° 21.0' N 125° 37.8' E	Fl.W. period 5s				
15016 F2453	Guivan, on church.	11° 01.9' N 125° 43.2' E	Fl.W. period 5s		7	Spire.	
15017 F2245.5	Punta Alegria, on Sirago Island.	10° 03.6' N 126° 03.4' E	Fl.W. period 5s				
15020 F2454	Suluan Island.	10° 45.3' N 125° 57.9' E	Fl.(3)W. period 15s	452 138	28	Metal tower; 52.	Visible 162°-142°.
15022 F2465	Daram, on Danaodanauan Island.	11° 44.2' N 124° 42.8' E	Fl.W. period 5s				
15024 F2462	Uacuac Island, N. point, at entrance to Calbiga River.	11° 40.0' N 124° 58.0' E	Fl.W. period 5s	37 11	10	Concrete tower; 32.	Visible 009°-197°.
15028 F2464	Catbalogan.	11° 46.8' N 124° 52.7' E	Fl.R. period 5s	100 30	10	White concrete tower; 24.	Visible 347°-104°, obscured by Darajuy and Cagdullen Islands.
15032 F2470	Gandara River, entrance, S. side.	11° 59.0' N 124° 41.5' E	Fl.R. period 5s	33 10	12	White concrete tower; 30.	Visible 103°-162°.

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PHILIPPINES							
15034 F 2468	Santo Nino.	11° 53.5' N 124° 27.9' E	Fl.W. period 5s				
15036 F 2466	Cabilison Island.	11° 53.3' N 124° 16.7' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	231 70	17	White metal tower; 33.	Obscured partially by Alamago, Maripipi and Tagapula Islands.
15039 F 2415	Kawayan, N. coast of Biliran Island.	11° 40.9' N 124° 21.3' E	Fl.R. period 5s				
15040 F 2413	Mabini Light.	11° 34.0' N 124° 16.0' E	Fl.W. period 7s		18		
15044 F 2472	Calbayog, W. end of town at mouth of river.	12° 04.0' N 124° 35.0' E	Fl.R. period 5s	33 10	7	White concrete tower; 33.	Visible 296°-073°.
15048 F 2284	Pulauan.	8° 38.3' N 123° 22.8' E	Fl.W. period 5s	146 44	4	Concrete tower; 32.	Visible 126°-311°.
15050 F 2281.6	Pinahon Island.	8° 39.5' N 123° 30.5' E	Fl.(2)W. period 10s				
15052 F 2282	Tagolo Point.	8° 43.7' N 123° 22.7' E	Fl.W. period 5s	109 33	15	White concrete house; 25.	Visible 002°-265°.
15056 F 2281	Plaridel.	8° 36.7' N 123° 43.5' E	Fl.R. period 5s	20 6	7	Bamboo tower.	Private light.
15060 F 2280.4	Inamucan Bay, W. side on edge of reef.	8° 40.0' N 123° 44.0' E	F.R.				Private light.
15064 F 2280	Polo Point.	8° 35.5' N 123° 45.4' E	Fl.(3)W. period 10s	60 18	20	White steel tower; 53.	Visible 121°-327°.
15066 F 2278	Oroquieta City.	8° 29.8' N 123° 47.7' E	Iso.W. period 4s				
15068 F 2276	Tabu Point.	8° 19.6' N 123° 51.7' E	Fl.W. period 5s	32 10	15	White concrete tower; 30.	Visible 156°-357°.
15070 F 2275	Panguil Bay.	8° 02.6' N 123° 47.3' E	Fl.G. period 5s		7	White metal and fiberglass tower; 33.	
15080 F 2274	Ozamiz, Misamis Point.	8° 08.5' N 123° 50.7' E	Fl.(2)R. period 10s	55 17	9	Concrete tower; 30.	
15082 F 2270	Kolambungan Range, front.	8° 06.8' N 123° 53.2' E	F.R.	65 20	7		
15084 F 2270.1	-Rear, about 180 meters 193° from front.	8° 06.7' N 123° 53.2' E	F.R.	75 23	7	Beacon, triangular daymark, point down; 28.	
15088 F 2268	Iligan, bank of river, at root of dock.	8° 13.9' N 124° 13.9' E	Fl.G. period 3s	37 11	7	White steel round tower; 34.	
15092 F 2266	Macabalan Point.	8° 30.3' N 124° 39.7' E	Fl.G. period 5s	58 18	9	White steel tower; 53.	Visible 119°-300°.
15096	Bugo.	8° 31.0' N 124° 45.0' E	F.W., F.G.	135 41	W. 11	Metal colored water tank.	
15098 F 2265	Villanueva.	8° 34.6' N 124° 45.6' E	F.R.			Red and white tower.	
15100 F 2264	Balinguan, pier, root.	9° 00.0' N 124° 51.0' E	F.R.	25 8	Pole.		Private light.
15104 F 2262	Mambajao, angle of pier, Camiguin Island.	9° 15.3' N 124° 43.0' E	Fl.R. period 10s	42 13	7	White concrete tower; 38.	
15106 F 2263	-Island, E. side.	9° 08.8' N 124° 47.8' E	Fl.G. period 5s		7		
15108 F 2261.4	Gingoog Bay, on pier.	8° 50.8' N 125° 04.2' E	Fl.R. period 5s	36 11		Red and white daymark.	

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PHILIPPINES							
15110 F 2261.5	-NW.	8° 51.7' N 125° 04.2' E	Fl.G. period 5s	26 8	7	Beacon, red and white daymark on beacon; 30.	
15112 F 2261.7	Medina.	8° 54.5' N 125° 01.3' E	Fl.G. period 5s	43 13	7	White concrete tower; 33.	
15116 F 2258	Nasipit Harbor.	8° 59.1' N 125° 19.8' E	Fl.W. period 5s	94 29	7	White concrete tower; 30.	
15120 F 2256	Agusan River, entrance.	9° 00.8' N 125° 31.3' E	Fl.R. period 5s	36 11	7	Concrete tower; 36.	
15124 F 2254	Cabadbaran.	9° 07.5' N 125° 31.3' E	Fl.G. period 5s	33 10	16	White steel round tower; 30.	
15125 F 2426.5	Benit Point, Panaon Island.	9° 54.8' N 125° 17.0' E	Fl.(4)W. period 20s				
15126 F 2252	Sumilon Island.	9° 54.9' N 125° 26.6' E	Fl.(3)W. period 15s				
15128 F 2250	Surigao.	9° 47.1' N 125° 30.0' E	Fl.(2)R. period 5s	23 7	8	White pyramid tower.	Visible 139°-029°.
15132 F 2248	Rasa Island, S. head.	9° 47.5' N 125° 35.1' E	Fl.(3)W. period 10s	10 3	11	Square concrete tower; 10.	Visible 235°-146°.
15134 F 2247	-S. side.	9° 44.7' N 126° 01.9' E	Fl.W. period 5s				
15134.4 F 2247.2	Dapa.	9° 44.6' N 126° 02.7' E	Fl.W. period 5s	32 10	6	Concrete tower; 29.	
15136 F 2246	Dahakit Point.	9° 33.7' N 125° 56.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	141 43	9	White fiberglass tower; 33.	
15138 F 2245	Auqui.	9° 23.4' N 126° 03.0' E	Fl.(3)W. period 10s				
15140 F 2244	Cauit Point.	9° 18.4' N 126° 12.3' E	Fl.W. period 5s	36 11	9	White concrete tower; 32.	Visible 157°-001°.
15142 F 2243.5	Maboa.	9° 05.2' N 126° 11.9' E	Fl.(2)W. period 15s				
15144 F 2242	Arangasa Island.	8° 52.7' N 126° 20.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	15	White concrete tower; 36.	Visible 176°-350°.
15145 F 2243	-Bitanogan Bay.	8° 53.6' N 126° 19.7' E	Fl.W. period 10s				
15146 F 2240	Sanco Point.	8° 14.7' N 126° 27.2' E	Fl.W. period 5s	33 10	15	Concrete tower; 33.	
15147 F 2239.5	Baculin Point.	7° 27.0' N 126° 35.6' E	Fl.(2)W. period 10s				
15148 F 2238	Mati, Pujada Bay, E. of pier, on beach.	6° 57.1' N 126° 13.0' E	Fl.R. period 5s	36 11	4	White frame structure; 34.	Visible seaward over an arc of 180°.
15150 F 2237	Pujada Island.	6° 46.8' N 126° 16.4' E	Fl.R. period 5s		11		
15151 F 2239	Lamigan Point.	6° 48.2' N 126° 20.1' E	Fl.W. period 5s	33 10	12	Concrete tower; 32.	
15152 F 2236	Cape San Augustin.	6° 16.2' N 126° 11.6' E	Fl.W. period 5s	112 34	15	Concrete tower; 32.	
15156 F 2138	Palmas Island.	5° 33.7' N 126° 35.6' E	Fl.(3)W. period 20s	426 130	23	White framework structure; 98.	
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PHILIPPINES							
15160 F 2232	Talikud Island.	6° 54.6' N 125° 41.3' E	Fl.W. period 5s	10	Concrete tower; 32.		Visible 313°-151°.
15161 F 2235.3	Mapanga.	7° 02.9' N 125° 57.1' E	Fl.(2)W. period 10s				
15162 F 2226.7	Buca Point.	5° 57.4' N 124° 40.6' E	Fl.W. period 5s				
15163 F 2235	Panacan.	7° 09.4' N 125° 39.7' E	Fl.G. period 5s	8			
15164 F 2234	Davao, on beach, S. of wharf.	7° 05.0' N 125° 37.0' E	Fl.G. period 5s	37 11	10 Concrete tower; 33.		Visible 226°-033°.
15166 F 2234.5	Lanang Point.	7° 07.4' N 125° 39.7' E	Fl.R. period 5s	10	Tower.		
15167 F 2235.5	-Bitaugan.	6° 46.4' N 126° 04.6' E	Fl.W. period 10s				
15167.3 F 2235.7	-Sigaboy Island.	6° 37.7' N 126° 04.1' E	Fl.W. period 5s				
15168 F 2230	Colapsin Point.	6° 37.9' N 125° 25.6' E	Fl.W. period 5s	244 74	15		Visible 047°-313°.
15172 F 2231	Malalag Bay, NE. side of bay.	6° 36.9' N 125° 25.6' E	Fl.R. period 5s	444 135			Visible 306°-170°.
15176 F 2231.2	Port Malalag.	6° 35.9' N 125° 24.7' E	Fl.R. period 5s	102 31	7		Visible 108°-354°.
15178 F 2231.3	-Malalag River.	6° 36.2' N 125° 23.9' E	Fl.R. period 5s		7	Structure, triangular daymark.	
15180 F 2231.4	-Bolton Reef.	6° 37.7' N 125° 24.5' E	Fl.R. period 5s	10 3	8	Beacon.	
15181 F 2229	Tubalan Head.	6° 29.9' N 125° 35.6' E	Fl.(2)G. period 4s				
15181.5 F 2228.7	Davao del Sur.	6° 15.0' N 125° 41.2' E	Fl.(3)W. period 15s				
15182 F 2227.2	Canalasan Cove.	5° 49.6' N 125° 12.2' E	Fl.W. period 5s	25 8	5 Concrete post; 25.		
15184 F 2228	Tinaca Point.	5° 33.4' N 125° 19.8' E	Fl.W. period 5s	140 43	11 White concrete tower; 35.		Partially obscured by land.
15185 F 2228.3	Balut Island, on Manamil Point.	5° 22.3' N 125° 21.0' E	Fl.(2)W. period 10s				
15185.5 F 2228.5	Olanivan Island.	5° 31.0' N 125° 29.2' E	Fl.(2)W. period 10s				
15186 F 2226.5	Lebak Point.	6° 33.2' N 124° 02.9' E	Fl.W. period 5s	10			
15188 F 2226	Cotabato, river entrance.	7° 15.0' N 124° 12.0' E	Fl.G. period 5s	34 10	10 Galvanized steel tower; 29.		
15190 F 2225.5	Polloc Harbor.	7° 21.3' N 124° 13.2' E	Fl.R. period 5s	15			
15192 F 2225	Pagadian Bay.	7° 49.5' N 123° 26.0' E	Fl.R. period 5s	12	Pole; 33.		Private light.
15194 F 2224.7	Dumagok Island.	7° 47.6' N 123° 26.0' E	Fl.(2)W. period 5s	12			
15196 F 2224	Margosatubig, pier, head.	7° 34.6' N 123° 10.0' E	Fl.(2)W. period 5s	6	Pole; 12.		

Lights of the Philippine Islands are unreliable, being frequently irregular or extinguished.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PHILIPPINES							
15197 F 2224.2	Malangas.	7° 37.6' N 123° 02.5' E	Fl.(2)W. period 10s				
15198 F 2222.5	Naga.	7° 47.0' N 122° 41.7' E	Fl.(3)W. period 15s				
15200 F 2218	Little Santa Cruz Island.	6° 53.1' N 122° 02.6' E	Fl.W. period 5s	53 16	20	White framework structure; 53.	Partially obscured by Great Santa Cruz Island.
15204 F 2220	Zamboanga, outer extremity of Government Wharf.	6° 54.1' N 122° 04.5' E	Fl.R. period 5s	36 11	9	Light hoisted between two metal supports, metal cabin at base; 29.	
15212 F 2219	-Ruined pier, head.	6° 54.2' N 122° 04.3' E	F.R.			Wooden post, white triangular daymark; 10.	
15214 F 2210	Batorampon Point.	7° 06.5' N 121° 53.8' E	Fl.(3)W. period 8s				
15214.3 F 2209	Sirawai.	7° 35.2' N 122° 08.3' E	Fl.(3)W. period 6s				
15214.5 F 2208	Santa Maria.	7° 45.6' N 122° 06.3' E	Q.(2)W. period 2s				
15215 F 2207	Sindangan.	8° 09.6' N 122° 39.8' E	Fl.W. period 4s				
15216 F 2214	Sibago Island.	6° 45.0' N 122° 24.0' E	Fl.W. period 10s	705 215	32	Galvanized metal tower; 75.	
15220 F 2216	Malamaui Island.	6° 44.7' N 121° 59.4' E	Fl.R. period 5s	36 11	7	Concrete tower; 33.	Visible 190°-265° and in Isabela Channel.
15224 F 2206	Mataja Island, S. point.	6° 34.0' N 121° 42.0' E	Fl.W. period 5s	62 19		Red framework structure.	Obscured by Balukbaluk Island and by trees 90°-172°.
15228 F 2204	Tatalan Islands, S. head.	6° 13.0' N 121° 50.0' E	Fl.W. period 5s	45 14	12	White concrete tower; 29	Visible 260°-145°.
15232 F 2196	Jolo Harbor.	6° 03.5' N 120° 59.9' E	Fl.R. period 5s	58 18	18	White steel framework tower; 54.	Visible 071°-207°.
15236 F 2192	Siasi Wharf, on Siasi Island.	5° 33.0' N 120° 49.0' E	F.R.			Mast; 17.	
15240 F 2200	N. Ubian Island.	6° 10.0' N 120° 27.0' E	Fl.W. period 5s	35 11	18	White concrete tower; 32.	Visible 086°-289°.
15244 F 2194	Pearl Bank.	5° 49.9' N 119° 44.2' E	Fl.W. period 5s	62 19	15	Red round steel tower; 57.	Partially obscured by trees 018°-020° and 031°-033°.
15246 F 2189	Saluag Island.	4° 35.4' N 119° 28.1' E	Fl.W. period 5s	95 29	20		
15248 F 2190	Port Bongao, extremity of reef.	5° 02.2' N 119° 46.4' E	Fl.W. period 5s	30 9	12	Concrete tower; 32.	Visible 294°-339°. <i>Reported extinguished (1991).</i>
15252 F 2191	New Batu Batu, on pier.	5° 04.2' N 119° 53.2' E	Fl.G. period 5s	14 4	1	Wooden tripod.	

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RUSSIA							
BERING STRAIT:							
15260 F 8232	-Pamyatnik Dezhneva.	66° 00.9' N 169° 43.7' W	L.Fl.W. period 6s	262 80	14	Concrete obelisk, lantern with gallery; 32.	Visible 215°-010°. Reserve light Fl.(3)W. 60s 18M 0.1 mile E.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15268 F 8226	-Ostrov Ratmanova (Big Diomede Island), N. shore.	65° 48.5' N 169° 01.8' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	11	White four-sided pyramidal structure; 12.	Shown Jul. 25 to Dec. 1.
ZALIV LAVRENTIYA:							
15272 F 8220	-Mys Nunyamo.	65° 36.2' N 170° 37.3' W	L.Fl.W. period 8s fl. 2s, ec. 6s	59 18	10	Beacon; 26.	
15280 F 8214	-Mys Krigygyn.	65° 28.0' N 171° 03.5' W	Fl.W. period 4s fl. 0.5s, ec. 3.5s	72 22	11	White square pyramidal structure, black stripe; 31.	Visible 250°-080°. Shown Jul. 25 to Dec. 1.
15281 F 8216	-Mys Khargilakh.	65° 35.3' N 170° 58.9' W	Fl.W. period 5s		7		Radar reflector.
15281.1 F 8217	-Lavrentiya.	65° 35.6' N 171° 01.4' W	Fl.W. period 5s		3		Radar reflector.
15282 F 8212	Lorino.	65° 30.4' N 171° 38.8' W	Fl.W. period 5s		13		Radar reflector.
15283 F 8211	Mechigmenskaya Guba.	65° 28.7' N 172° 04.2' W	Fl.W. period 5s		10		Radar reflector.
15284 F 8208	Mys Nyglligan.	65° 04.0' N 172° 06.0' W	Fl.W. period 2.5s fl. 0.5s, ec. 2s	152 46	10	White square pyramidal structure, black band in middle; 21.	
15288 G 7110	Saint Lawrence Island, NW. end, AVIATION LIGHT.	63° 46.0' N 171° 44.0' W	Al.Fl.W.G.				
15289 F 8210	Ostrov Arakamchechen.	64° 45.4' N 172° 03.8' W	L.Fl.W. period 10s		10		
15289.1 F 8195	Yanrakynnot.	64° 54.6' N 172° 30.3' W	Fl.W. period 10s		9		
15289.3 F 8194.2	Ostrov Kynkay.	64° 40.4' N 172° 43.8' W	Fl.W. period 2.5s		6		
15289.7 F 8194.8	Ostrov Nuneangan.	64° 36.7' N 172° 20.2' W	L.Fl.W. period 5s		10		
15300 F 8196	Mys Chaplina.	64° 24.3' N 172° 14.2' W	L.Fl.W. period 6s	92 28	14	Black 4-sided pyramidal structure, platform on top; 59.	Reserve light Fl.W. 12s 11M. Radar reflector. Radiobeacon.
15302 F 8194	Mys Galechnyy.	64° 25.5' N 172° 47.8' W	Fl.W. period 5s		10		
15303 F 8193	Novoye Chapalino.	64° 29.8' N 172° 51.3' W	Fl.W. period 5s		10		
15304 F 8192	Mys Ploskiy.	64° 18.0' N 172° 52.0' W	L.Fl.W. period 10s fl. 2s, ec. 8s	180 55	11	White pyramidal structure; 39.	
15308 F 8190	Kivak, about 4.7 kilometers SW. of Mys Ploskiy.	64° 15.7' N 172° 57.8' W	Fl.W. period 4s	157 48	11	Metal mast, brown rectangle with white stripe; 39.	
15312 F 8188	Gora Lysaya Golova.	64° 17.5' N 173° 21.4' W	Fl.W. period 6s	240 73	14	White 4-sided pyramidal structure, black stripe; 20.	
BUKHTA PROVIDENIYA:							
15316 F 8186	-Mys Gaydamak, W. side of entrance to Reyd Plover.	64° 22.0' N 173° 21.0' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	41 12	8	White square brick tower, red band; 26.	Radar reflector.
15317 F 8183	-Bukhta, Yasnaya Polyana, Range, front.	64° 26.6' N 173° 10.8' W	Fl.G. period 1.5s	43 13	5	Black mast, white panel with black stripe; 26.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15317.5 <i>F 8183.1</i>	--Rear, 366 meters 035°48' from front.	64° 26.7' N 173° 10.3' W	L.FIG. period 6s fl. 2s, ec. 4s	46 14	5	Black mast, white panel with black stripe; 26.	Visible on range line only.
15320 <i>F 8180</i>	--Komsomol'skiye, Range, front.	64° 25.4' N 173° 11.3' W	F.I.R. period 1.5s fl. 0.5s, ec. 1s	46 14	9	Orange concrete 3 sided pyramid, white stripe; 26.	Visible on range line only.
15324 <i>F 8182</i>	--Rear, 224 meters 070°36' from front.	64° 25.4' N 173° 10.6' W	F.I.R. period 3s fl. 1s, ec. 2s	105 32	9	Orange concrete triangular pyramid, white stripe; 29.	Visible on range line only.
-Bukhta Emma:							
15328 <i>F 8176</i>	--Approach Range, front, SW. extension of Mys Likhacheva.	64° 25.1' N 173° 15.0' W	L.FIG. period 6s fl. 2s, ec. 4s	121 37	8	White pyramidal stone structure, red stripe; 29.	Reserve light Q.W. 8M. Radiobeacon.
15332 <i>F 8178</i>	--Rear, 567 meters 051°54' from front.	64° 25.3' N 173° 14.5' W	L.FIG. period 6s fl. 2s, ec. 4s	167 51	8	White pyramidal stone structure, red stripe; 36.	Reserve light Iso.W. 2s 8M.
15336 <i>F 8173</i>	-Zapadnyy.	64° 22.5' N 173° 25.5' W	F.I.G. period 5s fl. 1s, ec. 4s	29 9	2	White pyramidal target, red stripe; 19.	Color unknown.
15340 <i>F 8172.5</i>	-Mys Severnyy.	64° 20.5' N 173° 31.0' W	F.I.W. period 3s fl. 1s, ec. 2s	108 33	8	White rectangle on pyramid, platform on top; 23.	
15344 <i>F 8172</i>	-Mys Lesovskogo.	64° 20.0' N 173° 34.0' W	L.FI.W. period 10s fl. 2s, ec. 8s	167 51	18	White panel on red metallic pipe; 29.	Radiobeacon.
ANADYRSKIY LIMAN:							
15345 <i>F 8169</i>	-Bukhta Melkaya Range, front.	64° 47.6' N 177° 34.1' E	2V.Q.R.		11		
15345.01 <i>F 8169.1</i>	--Rear, 732 meters 073° from front.	64° 47.7' N 177° 35.0' E	Iso.R. period 3s		11		
15348 <i>F 8150</i>	Mys Navarin.	62° 22.2' N 179° 09.6' E	FI.W. period 8s		18		Visible 223°-350°. Radiobeacon.
15352 <i>F 8153</i>	Mys Korobitsina.	62° 49.8' N 179° 34.3' E	FI.W. period 6s	180 55	8	Metal framework tower, round daymark with red and white bands; 39.	Shown Jul. 20-Nov.1.
15353 <i>F 8157</i>	Beringovskiy Range, front.	63° 03.8' N 179° 20.5' E	Oc.R. period 4s		7		
15353.1 <i>F 8157.1</i>	-Rear, 1.2 miles 139° from front.	63° 04.4' N 179° 18.2' E	F.I.R. period 3s		7		
15353.5 <i>F 8157.5</i>	-Pier.	63° 03.8' N 179° 22.5' E	Oc.R. period 3s		3		
15356 <i>F 8159</i>	Mys Barykova.	63° 05.8' N 179° 26.8' E	FI.W. period 4s	338 103	9	Red octagonal concrete tower; 26.	Shown Jul. 20-Nov.1.
15400 <i>F 8121.8</i>	Mys Kreshchyny Ognem.	60° 32.9' N 169° 13.2' E	FI.R. period 3s		3		
ZALIV KORFA:							
15408 <i>F 8128</i>	-Skrtyy.	60° 26.6' N 166° 09.4' E	Iso.W. period 3s	203 62	9	White octagonal stone tower, black band; 26.	Visible 240°-070°.
15412 <i>F 8130</i>	-Mys Govena.	59° 48.2' N 166° 05.5' E	L.FI.W. period 6s fl. 2s, ec. 4s	276 84	9	White square concrete tower, black band; 40.	Visible 302°-184°.
15416 <i>F 8126</i>	-Mys Oria.	59° 59.2' N 165° 12.6' E	FI.W. period 3s	305 93	9	Tower, yellow panel with black stripe; 36.	

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RUSSIA							
15420 <i>F 8125</i>	Ostrov Verkhoturova.	59° 37.1' N 164° 38.8' E	Fl.W. period 4s		4		Visible 350°-232°.
15424 <i>F 8120</i>	Mys Ozernoi.	57° 43.5' N 163° 18.9' E	Fl.W. period 8s fl. 1s, ec. 7s	194 59	18	White round tower, lower part black; 82.	Nautophone: 5 bl. ev. 60s (bl. 2s, si. 4s, bl. 6s, si. 3s, bl. 3s, si. 6s, bl. 6s, si. 7s, bl. 7s, si. 16s). Radiobeacon.
15428 <i>F 8108</i>	Mys Afrika.	56° 11.1' N 163° 21.2' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	125 38	20	Black round tower, white bands; 95.	Reserve light range 8M. Radiobeacon.
15432 <i>F 8102</i>	Mys Kronotskiy.	54° 45.0' N 162° 07.0' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.9s fl. 0.2s, ec. 1.9s fl. 0.2s, ec. 5.6s	174 53	20	Black octagonal concrete tower, white stripes; 43.	Visible 247°-043°. Reserve light Fl.W. 10s 8M. Radiobeacon.
15440 <i>F 8096</i>	Mys Shipunskiy.	53° 06.0' N 160° 01.9' E	Fl.W. period 6s	817 249	22	Red square masonry tower, white bands; 39.	Visible 197°-100°. Radiobeacon.
15440.5 <i>F 8076</i>	-On shore.	53° 04.5' N 158° 58.5' E	Fl.W. period 3s	203 62	12	Metal framework tower, red daymarks, white bands; 49.	
15441 <i>F 8069</i>	Mys Mayachnyy.	52° 53.2' N 158° 42.7' E	Oc.W. period 7s lt. 5s, ec. 2s	305 93	25	White metal tower, black bands; 45.	Visible 060°-228°. Reserve light range 9M. Radiobeacon.
15441.3 <i>F 8072</i>	-Mys Bezymyannyy.	52° 53.9' N 158° 38.7' E	Fl.W. period 12s	249 76	22	Red metal framework tower; 13.	
15441.6 <i>F 8068</i>	-Ostrov Starichkov.	52° 46.6' N 158° 37.4' E	Fl.W. period 4s	512 156	9	Metal framework tower, black square daymark; 20	
15442 <i>F 8067</i>	Mys Opasnyy.	52° 41.6' N 158° 35.5' E	Fl.W. period 6s	561 171	13	Metal framework tower, red daymark, white bands; 32.	Visible 322°-202°.
15442.5 <i>F 8066</i>	Russkiy.	52° 26.1' N 158° 30.5' E	Fl.W. period 4.5s	200 61	9	White octagonal tower, black bands; 26.	Visible 249°-106°. Radiobeacon.
15442.7 <i>F 8065</i>	Mys Povorotnyy.	52° 18.6' N 158° 32.5' E	Fl.W. period 4s	594 181	9	Metal framework tower, white square daymark, red bands; 26.	Visible 015°-195°.
15516 <i>F 8064</i>	Kruglyy.	52° 04.0' N 158° 18.9' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	469 143	25	White octagonal tower, black bands; 52.	Visible 212°-015°30'. Reserve light Fl.W. 10s 10M. Radiobeacon.
15520 <i>F 8062</i>	Lopatka.	50° 56.2' N 156° 46.5' E	Fl.W. period 5s		9		
15526 <i>F 8063.5</i>	Mys Kambalnyy.	51° 06.2' N 156° 42.3' E	L.Fl.W. period 6s		9		
15528 <i>F 8038</i>	Ozernovskiy.	51° 29.2' N 156° 29.6' E	Fl.R. period 6s fl. 1.5s, ec. 4.5s	236 72	12	Framework tower, red rectangle, white stripe; 65.	Reserve light range 6M. Radiobeacon.
15530 <i>F 8037.5</i>	Vtoraya Yavinskaya.	51° 41.8' N 156° 30.1' E	Fl.W. period 5s		7		
15532 <i>F 8036</i>	Oktyabr'skiy.	52° 33.8' N 156° 18.5' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	115 35	18	Round metal tower, black and white stripes; 82.	Reserve light Fl.W. 6s 8M. Radiobeacon.
15538 <i>F 8043</i>	Mys Levashova.	50° 30.6' N 156° 09.8' E	Fl.W. period 5s	256 78	9	8-sided concrete tower, black and white stripes; 26.	Visible 180°-025°.
15552 <i>F 8030</i>	Krutogorava.	55° 05.4' N 155° 35.3' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.8s fl. 0.3s, ec. 2.7s fl. 0.4s, ec. 8.4s	262 80	23	White round structure, black top; 112.	Appears as F.W. at short range. Reserve light 9M. Radiobeacon.
15553 <i>F 8028</i>	Mys Matugun.	61° 40.9' N 160° 12.9' E	Fl.W. period 5s		8		Visible 110°-055°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15553.05 <i>F 8026</i>	Mys Nadezhda.	61° 30.2' N 156° 41.5' E	Fl.W. period 5s		8		Visible 079°-193°.
15553.1 <i>F 8024</i>	Mys Viliginskiy.	61° 11.6' N 156° 38.2' E	Fl.W. period 3s		8		Visible 200°-060°.
15553.15 <i>F 8022</i>	Mys Ostrovnoy.	60° 42.6' N 155° 54.3' E	Fl.W. period 4s		8		
15560 <i>F 8021</i>	Mys Alevina.	58° 50.2' N 151° 20.6' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	190 58	19	White concrete tower, black bands; 62.	Visible 270°-152°. Reserve light Fl.W. 7.5s 9M.
15561 <i>F 8015</i>	Mys Taran.	59° 06.4' N 151° 06.2' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s		18		Visible 175°-100°. Reserve light Fl.W. 7.5s 8M.
15561.1	Mys Yuzhnyy.	59° 00.0' N 150° 28.1' E	Fl.W. period 3s		8		
15561.12	-Bukhta Zavlova.	59° 05.5' N 150° 37.1' E	Fl.W. period 4s		8		
15561.4	Ola.	59° 33.7' N 151° 20.1' E	Fl.W. period 3s		4		
15562 <i>F 8011</i>	Mys Chirkova.	59° 29.0' N 150° 30.0' E	Fl.W. period 7.5s	243 74	19	White octagonal concrete tower; 46.	Visible 126°-050°. Radiobeacon.
15562.2	Bukhta Nosayeva Range, front.	59° 33.8' N 150° 46.0' E	F.R.				
15562.21	-Rear, 400 meters 071°48' from front.	59° 33.8' N 150° 46.4' E	F.R.				
15563	Ostrov Nedorazumeniy.	59° 34.8' N 150° 21.6' E	Fl.W. period 3s		8		
15564 <i>F 8009</i>	Ostrov Spafar'yeva.	59° 09.9' N 149° 05.8' E	L.Fl.W. period 9s fl. 3s, ec. 6s	285 87	23	White round tower, red bands; 65.	Visible 263°-013°, 097°-156°. Reserve light Fl.W. 9s 8M. Radiobeacon.
15564.1	-NW. point.	59° 12.3' N 149° 03.1' E	Fl.W. period 3s		8		
15566 <i>F 8008.2</i>	Mys Duga Vostochnaya.	59° 09.0' N 146° 03.0' E	Fl.(2)W. period 15s	269 82	23	Red round metal tower; 112.	Visible 070°-270°. Reserve light range 10M. Radiobeacon.
15566.2 <i>F 8008.1</i>	Mys Ushkalova.	59° 15.0' N 145° 49.6' E	Fl.W. period 4s	161 49	8	Black tower, white band; 26.	Visible 142°-358°. Radiobeacon.
15566.5	Mys Shilken.	59° 22.7' N 145° 46.3' E	Fl.W. period 2.5s		8		
15566.55	Inya.	59° 22.5' N 144° 43.4' E	Fl.W. period 5s		9		
15568 <i>F 8007</i>	Mys Marekan.	59° 19.2' N 143° 28.7' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	174 53	20	White round tower, black bands; 112.	Reserve light Fl.W. 12s 10M. Radiobeacon.
15569 <i>F 8006</i>	Kukhtuy.	59° 21.3' N 143° 10.3' E	Fl.W. period 3s fl. 1s, ec. 2s	74 23	9	Metal framework tower; 57.	
15582 <i>F 7986</i>	Mys Litke.	53° 57.0' N 140° 19.0' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s		17		Visible 305°-176°. Shown June 15 to December 1. Reserve light range 8M. Radiobeacon.
15584 <i>F 7985</i>	Mys Men'shikova.	53° 17.7' N 141° 24.7' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	331 101	22	White round tower, black bands; 62.	Shown June 5 to November 15. Reserve light range 8M. Radiobeacon.
15584.4 <i>F 7985.5</i>	Ulyanovka.	53° 31.6' N 140° 50.2' E	Fl.W. period 4s		8		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15584.45 <i>F 7679.4</i>	Petunboppovskiye Range, front.	53° 21.1' N 141° 46.3' E	Fl.W. period 3s		14		
15584.46 <i>F 7679.41</i>	-Rear, 2,222 meters 121°06' from front.	53° 20.5' N 141° 48.0' E	Fl.W.		14		
15585 <i>F 7910</i>	Mys Moskalvo.	53° 38.9' N 142° 29.6' E	Iso.W. period 3s		18		Radiobeacon about 3 miles S.
15587 <i>F 7679</i>	Mys Marii.	54° 18.6' N 142° 15.8' E	Fl.W. period 6s		17		Visible 066°-210°. Seasonal. Reserve light range 10M.
15588 <i>F 7902</i>	Mys Yelizavety.	54° 25.2' N 142° 43.2' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	240 73	24	White square tower, white stone building; 39.	Visible 111°-338°. Reserve light Fl.W. 3s 8M. Radiobeacon.
15589 <i>F 7904</i>	Mys Vnutrenniy.	53° 34.5' N 142° 28.3' E	Iso.W. period 3s	30 9	7	Round metal tower, black and white bands; 16.	Seasonal. Radar reflector.
15590 <i>F 7903</i>	Platform.	52° 43.0' N 143° 34.1' E	Mo.(U)W. period 15s		15		Horn.
			Mo.(U)R. period 15s		4		
15736 <i>F 7704</i>	-"L" pier, SW. head.	50° 53.8' N 142° 07.7' E	Fl.R. period 3s	31 9	2	Red wooden mast; 26.	
15740 <i>F 7703</i>	-Small spur, NW. head.	50° 53.8' N 142° 07.7' E	Fl.G. period 3s	31 9	1	Green wooden mast; 26.	
15744 <i>F 7700</i>	Mys Zhonkiyer.	50° 53.3' N 142° 07.1' E	L.Fl.W. period 33s	259 79	22	White octagonal tower and dwelling; 59.	Visible 029°-171°. Radiobeacon.
AMURSIKY LIMAN:							
15744.2 <i>F 7679.5</i>	-Vereshchaginskiy Range, front.	53° 18.2' N 141° 47.7' E	L.Fl.R. period 5s		10		
15744.21 <i>F 7679.5</i>	--Rear, 556 meters 133°54' from front.	53° 18.0' N 141° 48.1' E	L.Fl.R. period 5s		10		
15744.26	-Mys Rybnovsk Range, front.	53° 14.5' N 141° 48.1' E	Fl.R.		14		
15744.27	--Rear, 928 meters 028°54' from front.	53° 15.0' N 141° 48.5' E	F.R.		14		
15744.31 <i>F 7682</i>	-Mys Khalezova.	53° 08.8' N 141° 50.4' E	Fl.W.		7		
15744.36 <i>F 7982.2</i>	-Mys Uarke.	52° 30.9' N 141° 12.5' E	Fl.W.		17		
15744.4 <i>F 7982.1</i>	-Mys Tkhadgou Range, front.	52° 15.5' N 141° 20.2' E	Iso.W.		13		
15744.41 <i>F 7982.1</i>	--Rear, 1,113 meters 199°12' from front.	52° 15.0' N 141° 20.0' E	Iso.W.		13		
15744.45 <i>F 7982</i>	-Mys Lazareva.	52° 12.0' N 141° 30.7' E	Iso.W. period 6s	827 252	22	White square tower, black bands;	Seasonal. Reserve light range 8M. Radiobeacon.
15744.46	--Breakwater, head.	52° 12.4' N 141° 33.6' E	Fl.R.		3		
15744.51 <i>F 7685</i>	-Pogibi North Range, front, 1392 meters 114° to common rear.	52° 13.5' N 141° 38.7' E	Iso.R.		12		
15744.52 <i>F 7685.1</i>	--Common rear.	52° 13.2' N 141° 39.7' E	Fl.R.		12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15744.53	-South Range, front, 742 meters 034°42' from common rear.	52° 12.8' N 141° 39.4' E	F.I.R.		12		
15744.6 F 7686	-Mys Uanga Range, front.	52° 06.5' N 141° 39.0' E	Iso.W.		12		
15744.61 F 7686	--Rear, 369 meters 157°12' from front.	52° 06.3' N 141° 39.1' E	Iso.W.		11		
	-Amur Reka:						
15745 F 7982.4	--Mys Khuzi Range, front.	52° 41.8' N 141° 14.8' E	Iso.W.		14		
15745.1	---Rear, 1114 meters 230°18' from front.	52° 41.5' N 141° 14.0' E	Iso.W.		17		
15745.15 F 7982.3	--Mys Dzhaore, S. Range, front.	52° 39.9' N 141° 16.9' E	L.FI.W. period 7.5s		14		
15745.16 F 7982.3	---Rear, 334 meters 321°06' from front.	52° 40.0' N 141° 16.7' E	L.FI.W. period 7.5s		16		
15745.2 F 7982.3	--Mys Dzhaore, N. Range, front.	52° 40.0' N 141° 16.7' E	L.FI.G. period 7.5s		10		
15745.21 F 7982.3	---Rear, 373 meters 172°30' from front.	52° 39.8' N 141° 16.8' E	L.FI.G. period 7.5s		10		
15760 F 7678	Mys Orlova.	51° 25.0' N 140° 53.0' E	L.FI.(3)W. period 20s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 12s	277 84	23	White stone tower, dwelling; 55. Pilots. Signal station. Radiobeacon.	
DE KASTRI:							
15761 F 7677	-Mys Klykova Range, front.	51° 28.0' N 140° 45.8' E	F.I.R. period 3s		14		
15761.1 F 7677.1	--Rear, 0.5 mile 286°36' from front.	51° 28.2' N 140° 45.0' E	F.R.		14		
15761.2 F 7677.5	-Mys Innokentiya Range, front.	51° 27.3' N 140° 46.9' E	FI.G. period 3s		10		
15761.21 F 7677.51	--Rear, 0.4 mile 252° from front.	51° 27.3' N 140° 46.9' E	FI.G. period 3s		10		
15761.3 F 7675	-Mys Neplimentiyy.	51° 29.4' N 140° 52.5' E	L.FI.W. period 5s		9		Visible 240°-067°.
15761.35 F 7676.5	-Ostrov Observatori.	51° 27.9' N 140° 49.0' E	Q.W.		8		Visible 201°-039°30'.
15761.4 F 7676	-Jetty, head.	51° 27.9' N 140° 47.0' E	Iso.G. period 4s		2		Visible 190°-120°.
15768 F 7674	Mys Syurkum.	50° 05.6' N 140° 40.8' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	246 75	17	Round tower, red and white bands; 46.	Visible 110°-350°. Reserve light range 10M.
15776 F 7670	Mys Datta.	49° 17.8' N 140° 25.4' E	L.FI.W. period 7.5s fl. 3s, ec. 4.5s	279 85	20	White round tower, black band, concrete.	Visible 197°30'-036°30'. Reserve light L.FI.W. 5s 10M. Radiobeacon.
SOVETSKAYA GAVAN:							
15784 F 7643	-Mys Milyutina.	49° 02.6' N 140° 19.5' E	L.FI.R. period 7.5s fl. 3s, ec. 4.5s	78 24	15	White octagonal tower; 25.	Visible 190°-036°. Reserve light range 5M. Nautophone: 3 bl. ev. 30s.
15786 F 7650	-Mys Burnyy.	49° 05.6' N 140° 20.4' E	Fl.W. period 6s		9		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15788 <i>F 7651</i>	-Mys Khoy.	49° 05.5' N 140° 18.8' E	L.FI.G. period 7.5s	5			Visible 263°-071°.
15790 <i>F 7652</i>	-Mys Yuzhnyy.	49° 04.6' N 140° 18.8' E	Fl.R. period 5s	3			Visible 125°30'-030°.
15792 <i>F 7653</i>	-Vanina Range, front.	49° 05.4' N 140° 15.8' E	Oc.R. period 3s	12			Visible 220°-340°.
15792.2 <i>F 7653.1</i>	--Middle, 330 meters 280°06' from front.	49° 05.4' N 140° 15.5' E	F.R.	12			Visible 220°-340°.
15792.4 <i>F 7653.2</i>	--Rear, 750 meters 280°06' from front.	49° 05.4' N 140° 15.2' E	F.R.	12			Visible 220°-340°.
15794 <i>F 7654</i>	-Prichal No. "3".	49° 05.3' N 140° 18.0' E	Fl.G. period 5s	2			
15796 <i>F 7660</i>	-Muchkye.	49° 06.1' N 140° 20.5' E	Fl.W. period 5s	4			Visible 063°30'-316°.
15798 <i>F 7642</i>	-Mys Putyatina.	49° 01.5' N 140° 20.9' E	Oc.W. period 3s	10			Visible 105°-345°.
15812 <i>F 7640</i>	-Mys Krasnyy Partizan.	48° 58.5' N 140° 23.2' E	Fl.(2)W. period 30s fl. 0.7s, ec. 7.1s fl. 0.7s, ec. 21.5s	278 85	23	White octagonal tower on dwelling; 52.	Visible 138°-018°. Reserve light Fl.W. 6s 12M. Nautophone: Mo.(R) 30s. Signal station. Radiobeacon.
15820 <i>F 7636</i>	Mys Peschanyy.	48° 27.1' N 140° 10.4' E	Iso.W. period 3s	89 27	15	White round concrete tower; 78.	Visible 185°-053°. Reserve light Iso.W. 3s 10M. Radiobeacon.
15824 <i>F 7634</i>	Mys Krestovozhvizhenskiy.	47° 58.0' N 139° 32.0' E	L.FI.W. period 7.5s fl. 3s, ec. 4.5s	90 27	10	Red quadrangular framework structure, white base; 37.	
15828 <i>F 7630</i>	Bukhta Nel'ma.	47° 39.4' N 139° 11.5' E	L.FI.W. period 12s fl. 4.5s, ec. 7.5s	262 80	17	White round metal tower; 26.	Visible 198°-020°. Reserve light L.FI.W. 12s 7M.
15832 <i>F 7626</i>	Mys Zolotoy.	47° 19.0' N 138° 59.3' E	Iso.W. period 6s	103 31	16	Octagonal stone structure, red and white stripes; 66.	Visible 155°-079°. Reserve light range 7M. Radiobeacon.
15836 <i>F 7622</i>	Mys Sosunova.	46° 32.0' N 138° 20.0' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	217 66	17	White octagonal masonry tower, black horizontal bands, with gallery; 59.	Reserve light range 10M. Radiobeacon.
15840 <i>F 7618</i>	Mys Belkina.	45° 49.5' N 137° 41.8' E	Iso.W. period 20s	324 99	25	White octagonal masonry tower; 46.	Visible 204°-000°. Reserve light L.FI.W. 13.5s 12M. Nautophone: (117 meters S.) 5 bl. ev. 60s. Radiobeacon.
15844 <i>F 7617</i>	Mys Mayachnyy.	45° 23.1' N 137° 08.7' E	Fl.W. period 6s	394 120	17	Red metal framework structure; 13.	
15848 <i>F 7616</i>	Mys Strashnyy.	45° 01.9' N 136° 38.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	305 93	12	Red square framework tower; 21.	Obscured 244°-249°.
15852 <i>F 7614</i>	Mys Yegorova.	44° 46.4' N 136° 26.9' E	L.FI.W. period 12s fl. 4.5s, ec. 7.5s	302 92	22	White round metal tower, black bands; 62.	Reserve light L.FI.W. 12s 9M. Radiobeacon.
15854 <i>F 7613</i>	Yakubovskogo.	44° 43.8' N 136° 20.2' E	Iso.R. period 4s	318 97	15	White square masonry tower, red band; 23.	Visible 060°-340°. Reserve light range 4M.
15856 <i>F 7612</i>	Zaliv Oprichnik.	44° 26.9' N 136° 02.1' E	L.FI.W. period 7.5s fl. 3s, ec. 4.5s	702 214	23	White octagonal stone tower; 46.	Reserve light L.FI.W. 12s 6M.
15860 <i>F 7610</i>	Mys Brinera.	44° 20.6' N 135° 50.4' E	Fl.(2)W. period 7s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 4.8s	220 67	22	White octagonal masonry tower; 50.	Visible 182°-172°. Reserve light Oc.W. 7.5s 9M. Radiobeacon.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15864 F 7608	Mys Yuzhnyy.	44° 02.0' N 135° 38.0' E	Fl.W. period 3s fl. 1s, ec. 2s	290 88	9	White octagonal masonry tower; 15.	
ZALIV VLADIMIRA:							
15868 F 7604	-Mys Balyuzek.	43° 55.0' N 135° 31.0' E	Fl.(3)W. period 15s	262 80	23	White square masonry tower, red cupola and white stone building; 46.	Reserve light L.Fl.W. 20s 8M. Nautophone: 3 bl. ev. 30s. Radiobeacon.
15880 F 7596	-Mys Sobora.	43° 46.1' N 135° 26.2' E	Fl.R. period 4s fl. 1.5s, ec. 2.5s	420 128	5	Red quadrangular metal framework tower; 26.	
15896 F 7588	-Ostrov Chikhacheva.	43° 40.6' N 135° 16.8' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	364 111	23	White square tower on dwelling; 39.	Reserve light range 9M.
15900 F 7584	Mys Nizmennyy.	43° 30.4' N 135° 09.3' E	Fl.(3)W. period 7.5s	206 63	18	White octagonal tower on white building; 59.	Radiobeacon.
15908 F 7581	Mys Dal'niy.	43° 18.8' N 134° 46.5' E	Iso.W. period 6s	608 185	19	Red octagonal stone tower adjacent to single story white building; 47.	Reserve light Iso. W. 6s 8M.
15909 F 7579.5	Mys Titova.	43° 06.2' N 134° 18.8' E	Fl.W. period 3s		10		
15909.5 F 7579	Ostrov Opasnyy.	43° 01.9' N 134° 11.0' E	Fl.W. period 4s		7		
15920 F 7578	Ostrov Orehkova, SW. part of island.	42° 53.6' N 133° 52.9' E	Iso.R. period 3s	200 61	13	White octagonal stone tower; 26.	Reserve light Iso.R. 3s 6M.
15924 F 7576	Mys Ostrovnoy.	42° 48.7' N 133° 43.4' E	Iso.W. period 3s	512 156	19	White metal framework tower, white building; 36.	Reserve light Iso.W. 3s 10M. Radiobeacon.
15926 F 7574	Mys Yakimova.	42° 49.0' N 133° 30.9' E	Fl.R.				
15934 F 7573	Bugristyy.	42° 42.5' N 133° 11.9' E	Fl.(3)R. period 10s fl. 0.1s, ec. 1.2s fl. 0.1s, ec. 1.2s fl. 0.1s, ec. 7.3s	387 118	14	Red round column with platform; 25.	Radar reflector.
ZALIV NAKHODKA:							
15936 F 7572	-Mys Povorotnyy.	42° 40.6' N 133° 02.5' E	Oc.W. period 8s lt. 6s, ec. 2s	219 67	22	White octagonal stone tower; 42.	Visible 262°30'-127°30'. Reserve light range 12M. Signal station. Radiobeacon.
15940 F 7569	-Mys Kamenskogo.	42° 45.5' N 133° 03.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8	7	White octagonal stone tower; 16.	Visible 000°-318°.
15942 F 7570	-Beregovoy.	42° 46.4' N 133° 02.7' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	187 57	4	Red metal tower; 26.	
15944 F 7563.2	-Mys Nepristupnyy.	42° 47.8' N 133° 00.3' E	Iso.W. period 6s	100 30	16	Octagonal brick tower, lower part and lantern white, upper part and dome red-orange, on white house; 47.	Calibration Radiobeacon.
15948 F 7562	-Mys Erzhikovicha, Ostrov Lisiy, S. extremity.	42° 45.3' N 132° 54.0' E	L.Fl.W. period 6s fl., ec. 4s	286 87	7	Red quadrangular framework, white tower; 17.	Visible 242°-169°.
15952 F 7563	-Mys Shvedova.	42° 48.2' N 132° 54.6' E	Oc.W. period 7.5s lt. 4.5s, ec. 3s	143 44	18	White octagonal stone tower; 23.	Reserve light Oc.W. 7.5s 9M.
15956 F 7567	-Mys Astaf'yeva.	42° 48.5' N 132° 54.5' E	L.Fl.G. period 7.5s fl. 3s, ec. 4.5s	68 21	8	Octagonal concrete tower, black and white bands; 61.	Visible 049°-324°.

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RUSSIA							
15960 F 7564	-Nakhodka, approach Range, front.	42° 50.4' N 132° 56.4' E	Iso.R. period 6s	36 11	12	White stone building, black median stripe; 43.	Visible 358°30'-001°30'. Radiobeacon.
15964 F 7564.1	--Rear, 1574 meters 000° from front.	42° 51.2' N 132° 56.3' E	F.R.	121 37	10	White quadrangular stone structure, black median stripe; 52.	Visible 358°30'-001°30'.
15968 F 7566	--Harbor entrance Range, front.	42° 48.7' N 132° 53.1' E	F.R. (neon)	118 36	6	White octagonal tower, black median stripe; 52.	Visible on range line only. Reserve light Q.R. 6M.
15972 F 7566.1	--Rear, 130 meters 267°54' from front.	42° 48.7' N 132° 53.0' E	F.R. (neon)	154 47	6	White octagonal tower, black median stripe; 23.	
15992 F 7563.4	-Bukhta Chadaudzha, entrance Range, front.	42° 46.3' N 132° 52.9' E	Iso.G. period 3s	364 111	6	White square masonry tower, black stripe; 20.	Visible 251°48'-286°48'.
15996 F 7563.41	--Rear, 347 meters 269°18' from front.	42° 46.3' N 132° 52.7' E	Iso.G. period 3s	489 149	6	White square masonry tower, black stripe; 20.	Visible 251°48'-286°48'.
16000 F 7563.6	--Pier, head.	42° 46.3' N 132° 53.6' E	Iso.R. period 3s	35 11	2	Red metal round structure; 22.	
16004 F 7558	-Mys Likhacheva.	42° 44.1' N 132° 51.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	201 61	9	White octagonal stone tower; 18.	
16008 F 7538	Ostrov Trambetskogo.	42° 50.4' N 132° 32.3' E	Fl.W. period 3s	66 20	9	White octagonal stone tower; 20.	Radar reflector.
16052 F 7532	Mys Yelagina.	42° 43.8' N 132° 20.5' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	371 113	22	White octagonal stone tower, red lantern; 25.	Visible 264°-126°. Reserve light range 9M. Radiobeacon.
16053 F 7533	-Mys Stupenchatyy.	42° 46.8' N 132° 20.4' E	Fl.W. period 8s		7		
16054 F 7534	Mys Ogorodnyy.	42° 48.8' N 132° 21.7' E	Fl.W. period 5s	144 44	9		
16056 F 7528	Mys Sysoyeva.	42° 50.8' N 132° 19.0' E	Iso.W. period 3s		19		
16160 F 7498	Ostrova Verkhovskogo, SE. island.	42° 53.0' N 131° 48.6' E	Fl.(3)W. period 10s	124 38	11	White octagonal stone tower; 24.	
VLADIVOSTOK:							
16166 F 7470	-Ostrov Skrypleva.	43° 01.7' N 131° 57.1' E	Fl.R. period 15s	177 54	20	White square stone tower; 39.	Visible 128°-030°. Reserve light range 6M. Radiobeacon.
16167 F 7471	-Mys Basargina.	43° 03.5' N 131° 57.8' E	Oc.G. period 7.5s	92 28	10	White octagonal stone tower, red bands; 26.	Visible 193°-092°. Reserve light range 6M.
16169 F 7472	-Proliv Bosfor Vostochnyy Range, front.	43° 05.0' N 131° 51.3' E	F.R.	105 32	15	White building with lantern on square tower; 49.	Visible 289°30'-309°30'. Reserve light range 8M.
-RACON				X (-••-) period 30s		15	Azimuth coverage 073°-203°.
16169.1 F 7472.01	--Middle, 125 meters 299°30' from front.	43° 05.1' N 131° 51.2' E	F.R.	164 50	15	White octagonal stone tower, black stripe, on square base; 49.	Visible 289°30'-309°30'.
16169.2 F 7472.02	--Rear, 520 meters 299°30' from front.	43° 05.2' N 131° 51.0' E	F.R.	226 69	15	White octagonal stone tower, black stripe, on square base; 49.	Visible 289°30'-309°30'.
16169.3 F 7473	-Mys Balka.	43° 01.8' N 131° 54.9' E	L.F.I.R.G. period 5s	69 21	R. G.	3 2	White quadrangular metal framework pyramid; 10.
16169.7 F 7474	-Bukhty Uliss Range, front.	43° 04.8' N 131° 55.5' E	F.G.	59 18	2	White trapezoid, red stripe; 16.	Visible 049°-069°.
16169.8 F 7474.01	--Rear, 87 meters 058°24' from front.	43° 04.8' N 131° 55.5' E	Iso.G. period 3s	108 33	2	White trapezoid, red stripe; 16.	

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RUSSIA							
16169.91 <i>F 7478</i>	-Mys Rosetta.	43° 05.2' N 131° 50.9' E	Oc.G. period 15s	217 66	5	Lantern on white stone building; 13.	Visible 045°-227°.
16169.92 <i>F 7479</i>	-Tokarevskogo.	43° 04.3' N 131° 50.6' E	L.FI.W.R. period 7.5s	39 12	12	White stone tower with lantern; 39.	W. 237°30'-125°30', R.- 165°30'.
16170 <i>F 7480</i>	-Mys Pospyelovskiy, W. approach Range, front.	43° 03.7' N 131° 53.4' E	Oc.R. period 3s	26 8	10	Metal framework tower with platform, white diamond daymark with black stripe; 33.	Visible 092°-112°.
16170.1 <i>F 7480.01</i>	--Rear, 225 meters 103°30' from front.	43° 03.7' N 131° 53.5' E	Oc.R. period 3s	52 16	10	Metal framework tower with platform, white diamond daymark with black stripe; 39.	Visible 092°-112°.
16170.18 <i>F 7482</i>	-Torpedo Boat Canal Entrance, W. side.	43° 03.7' N 131° 50.6' E	FI.G. period 3s	20 6	1	Green round metal column with platform; 16.	E. side marked by Fl.R. light. Radar reflector.
16170.25 <i>F 7440</i>	-Prednozhnoye Range, front.	43° 02.8' N 131° 49.2' E	Oc.W. period 3s	16 5	3	Metal framework tower, white trapezoid daymark with black stripe; 20.	Visible 164°30'-171°.
16170.26 <i>F 7440.1</i>	--Rear, 220 meters 167°48' from front.	43° 02.6' N 131° 49.3' E	F.W.	43 13	3	Metal framework tower, white trapezoid daymark with black stripe; 20.	Visible 157°48'-177°48'.
AMURSUKY ZALIV:							
16170.3 <i>F 7435.5</i>	-Mys Vasileva.	43° 00.2' N 131° 45.4' E	Fl.W. period 3s	141 43	6	White octagonal stone tower; 16.	Visible 024°-278°.
16170.35 <i>F 7438</i>	-Ostrov Ushi.	43° 03.8' N 131° 48.4' E	Fl.R. period 2s	43 13	3	Red metal framework pyramid; 10.	
16170.4 <i>F 7436</i>	-Mys Firsova.	43° 10.3' N 131° 53.8' E	Iso.W.R. period 3s	85 26	W. 15 R. 8	White square metal pyramid, platform, on white square concrete base; 23.	R. 002°36'-050°, W.-205°30'.
16172 <i>F 7434</i>	Mys Bryusa.	42° 52.8' N 131° 28.1' E	Iso.W.R.G. period 12s	217 66	W. 21 R. 15 G. 10	White square stone tower on hut; 33.	G. 099°-216°, W.-234°, R.-306°, W.-342°, G.-046°. Reserve light Iso R 3s 6M. Radiobeacon.
16188 <i>F 7430</i>	Mys Klerka.	42° 46.0' N 131° 22.0' E	Fl.R. period 4s fl. 1s, ec. 3s	246 75	4	White hexagonal masonry tower;	Visible 185°-150°.
16192 <i>F 7428</i>	Ostrova Rimskogo-Korsakova.	42° 40.0' N 131° 28.0' E	Fl.W. period 3s	662 202	9	Red metal framework structure; 10.	
16196 <i>F 7422</i>	Mys Gamova.	42° 33.2' N 131° 13.0' E	Fl.(2)W. period 15s	223 68	22	White stone tower and dwelling, 63.	Visible 197°-070°. Reserve light Fl.W. 3s 10M. Signal station. Radiobeacon.
16198 <i>f 7420</i>	Russia, N. Korea Maritime Border Range, front.	42° 19.1' N 130° 40.0' E	Oc.W.R.G. period 4s	W. 18 R. 10 G. 10			W. 230°-300°48', G.-310°48', W.-320°48', R.-330°48', W.- 050°.
16198.1 <i>F 7420.01</i>	--Rear, 2778 meters 315° 48' from front.	42° 20.2' N 130° 38.6' E	F.W.		19		

Section 10

Korea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KOREA							
1 17233	Podunaji.	34° 18.8' N 127° 14.4' E	Fl.(2)W. period 6s	262 80	8	White round concrete tower; 33.	
16200 F 4570	Nan Do.	42° 13.8' N 130° 31.7' E	Fl.W. period 14s	138 42	17	White square concrete tower; 36.	Visible 237°-193°. Siren.
16204 F 4590	Ogaram San, about 914 meters NNE. of Ogaram Dan.	42° 16.5' N 130° 38.0' E	F.G.	180 55	8	White square metal tower, concrete base; 21.	Visible shore-298°, 087°-124° Horn.
SOSURA HANG:							
16208 F 4582	-E. breakwater, head.	42° 16.5' N 130° 35.7' E	F.W.	19 6	7	White metal column, concrete base; 17.	
16212 F 4584	-W. breakwater, head.	42° 16.4' N 130° 36.0' E	F.R.	19 6	6	Red metal column, concrete base; 17.	
UNGGI MAN:							
16216 F 4578	-E. breakwater, head.	42° 19.9' N 130° 24.2' E	F.G.	33 10	4	Red metal structure, concrete base; 15.	
16220 F 4574	-W. breakwater, head.	42° 19.8' N 130° 24.1' E	F.R.	20 6	6	White metal structure, concrete base; 18.	
16224 F 4576	-Detached breakwater, W. head.	42° 19.7' N 130° 24.2' E	F.R.	21 6	8	Red metal structure, concrete base; 17.	
16228 F 4568	Kwak Tan.	42° 15.0' N 130° 24.1' E	Fl.W. period 12s	200 61	13	White square concrete structure;	Visible 198°-050°. Horn.
NAJIN MAN:							
16232 F 4558	-Toech'o Do.	42° 08.9' N 130° 16.7' E	Fl.(3)W. period 25s	394 120	27	White square concrete tower; 41.	Visible 228°-142°. Siren: 1 bl. ev. 45s. Signal station.
16234 F 4560.8	-Detatched breakwater.	42° 14.1' N 130° 18.3' E	F.R.	17 5	1		
16248 F 4556	-Oryong Am, NE. side of Injin Man.	42° 04.5' N 130° 07.8' E	Fl.(2)W. period 6s	60 18	12	Black round concrete structure; 54.	
16252 F 4540	Komalsan Dan.	41° 45.6' N 129° 51.0' E	L.Fl.W. period 6s	194 59	20	White hexagonal brick structure;	Visible 222°-091°. Siren: 1 bl. ev. 45s.
CHONGJIN:							
16260 F 4542	-Dong Hang, breakwater, head.	41° 46.5' N 129° 49.3' E	F.G.	45 14	8	Red round concrete structure; 36.	
16262 F 4543	--SW. corner of W. pier.	41° 46.6' N 129° 49.3' E	Oc.R.				
16264 F 4544	--E. pier, head.	41° 46.5' N 129° 49.8' E	F.R.	23 7	2	Red metal column on concrete base; 18.	
16268 F 4546	-So Hang, breakwater, head.	41° 44.8' N 129° 46.3' E	F.G.	49 15	5		

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KOREA							
16269 F4547	--Root.	41° 45.3' N 129° 46.2' E	F.R.		2		
16272 F4534	Orang Dan.	41° 22.5' N 129° 48.5' E	Iso.W. period 4s	151 46	18	White round brick tower; 28.	Visible 125°-005°. Siren.
16276 F4536	Odaejin Hang, N. breakwater, head.	41° 23.2' N 129° 46.7' E	F.R.	23 7	8	White round metal pillar; 19.	
16276.5 F4533	Koedan.	41° 19.0' N 129° 46.5' E	Oc.W. period 13s	308 94	10	Beacon.	
16277 F4531	Unmandae Dan.	40° 56.4' N 129° 45.7' E	Fl.W. period 14s	390 119	10		Horn.
16278 F4532	Ryanghwa.	41° 12.2' N 129° 44.0' E	Fl.W. period 3s	157 48	18		Horn.
16280 F4530	Musu Dan.	40° 50.0' N 129° 43.2' E	Fl.(2)W. period 15s	272 83	23	White round concrete structure; 28.	Visible 206°-092°. Siren.
KIMCH'AEK:							
16284 F4516	-Songjin Peninsula.	40° 39.5' N 129° 12.8' E	Iso.W. period 6s	180 55	20	White octagonal concrete structure; 25.	Visible 161°-023°.
16288 F4522	-S. breakwater, head.	40° 39.7' N 129° 12.4' E	F.R.	26 8	5	White metal column, concrete base; 15.	Visible 025°-295°.
16292 F4524	-N. breakwater, head.	40° 39.7' N 129° 12.4' E	F.R.	16 5	4	Red metal column, concrete base; 15.	
16296 F4520	-Lumber storage, S. breakwater, head.	40° 40.2' N 129° 12.5' E	F.G.	22 7	5	White round metal column; 15.	
16300 F4526	-Fishing harbor, S. of peninsula, breakwater, head.	40° 39.4' N 129° 12.2' E	F.G.	26 8	5	White round metal structure; 20.	
16301 F4514	Yongdae Gap.	40° 28.3' N 129° 04.0' E	L.Fl.W. period 9s	200 61	12		
16302 F4514.4	-Breakwater.	40° 28.7' N 129° 03.5' E	F.R.	20 6	2		
16303 F4513	Sabvjin, breakwater, head.	40° 24.5' N 128° 55.3' E	F.R.	43 13	1		
16304 F4512	Ch'aho Hang, E. side of bay, peninsula, head.	40° 12.0' N 128° 39.7' E	F.W.	77 23	7	White metal structure surmounted by metal pole; 66.	Fishing light. Horn.
16305 F4512.2	Chonchodo.	40° 11.5' N 128° 39.5' E	Iso.W. period 6s	299 91	12	Beacon.	
16306 F4510.4	Song Do Gap.	40° 01.7' N 128° 19.6' E	L.Fl.W. period 7s	194 59	12		
16306.1 F4511.4	Shinchang Hang.	40° 08.0' N 128° 28.4' E	F.G.	20 6	2		
16307 F4510.6	Tonghodong.	40° 04.3' N 128° 16.3' E	F.R.	10 3	1		
16308 F4510	Mayang Do (Bayo To).	39° 59.6' N 128° 13.7' E	Fl.(4)W. period 22s	223 68	16	White octagonal concrete tower; 27.	Visible 196°-058°, obscured by Song Do Gap when bearing less than 236°.
16308.5 F4506.5	Ansong Gap.	39° 53.3' N 127° 52.7' E	L.Fl.W. period 7s	285 87	13	White hexagonal concrete tower; 26.	Visible 200°-160°.
16309 F4508	Songnyong Man.	40° 01.5' N 127° 59.5' E	F.R.	49 15	8		Horn.

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KOREA							
16310 <i>F 4507</i>	Chuk Do.	39° 58.8' N 127° 57.0' E	F.R.	49 15	8		Horn.
16312 <i>F 4506</i>	Sohojin.	39° 48.2' N 127° 39.9' E	Fl.(2)W. period 30s	161 49	18 24.	White round concrete structure; Visible 198°-133°. Siren.	
16316 <i>F 4492</i>	Hungnam, breakwater.	39° 49.3' N 127° 38.0' E	F.R.	39 12	2		
16320 <i>F 4494</i>	-Harbor wall.	39° 49.8' N 127° 37.7' E	F.G.				
16322 <i>F 4495</i>	-Breakwater.	39° 49.0' N 127° 39.2' E	F.R.	26 8	2	Metal post; 10.	F.G. 2M marks S. breakwater head 80 meters SE.
16323 <i>F 4490</i>	Kwangsunggotchi.	39° 31.6' N 127° 31.6' E	L.Fl.W. period 9s	151 46	8		Horn.
YONGHUNG MAN:							
16324 <i>F 4488</i>	-Sokkun Som.	39° 17.2' N 127° 33.9' E	Fl.W. period 7s	82 25	9	Round concrete beacon, black and red bands; 55.	Horn.
16325 <i>F 4487</i>	-Yubundo.	39° 17.3' N 127° 31.7' E	Fl.W. period 3.5s	121 37	5	Beacon.	
16326 <i>F 4485</i>	Yongjin.	39° 17.9' N 127° 24.3' E	L.Fl.W. period 12s	213 65	8	White square framework tower.	Visible 130°-086°.
16328 <i>F 4474</i>	Worhyanam.	39° 15.0' N 127° 34.4' E	Fl.W. period 5s	56 17	6		
16332 <i>F 4472</i>	Yo Do.	39° 13.5' N 127° 38.2' E	Oc.W. period 20s	220 67	20	White octagonal concrete structure; 27.	
16340 <i>F 4480</i>	Wonsan Hang, Changdok To.	39° 10.5' N 127° 26.5' E	Fl.W. period 5.5s	82 25	5		
16344 <i>F 4484.5</i>	-Dolphin.	39° 09.5' N 127° 27.6' E	F.R.		2		
16348 <i>F 4484</i>	-Gensanri fishing harbor, breakwater, head.	39° 09.3' N 127° 27.0' E	F.G.	25 8	2	Red metal pole, concrete base; 21.	
16350	Apryongdan.	39° 07.9' N 127° 44.3' E	Fl.W. period 10s		8		
16352 <i>F 4468</i>	Ch'ongsok Tan.	38° 57.8' N 127° 54.8' E	Fl.(2)W. period 30s	128 39	18		Visible 158°-010°.
16356 <i>F 4466</i>	Kojo P'o, breakwater, head.	38° 57.2' N 127° 53.5' E	F.R.	36 11	3	White square metal framework structure; 27.	
16358 <i>F 4465</i>	Sol Som.	38° 51.5' N 128° 03.7' E	L.Fl.W. period 25s	216 66	16		
16359 <i>F 4462</i>	Changadaedan.	38° 45.1' N 128° 16.0' E	Fl.(2)W. period 18s	246 75	18	White octagonal concrete tower;	Visible 158°-203°. 46.
16360 <i>F 4464</i>	Changjon Man.	38° 44.5' N 128° 12.3' E	Iso.W. period 7s	269 82	18	White square metal framework structure, concrete base; 21.	
16362 <i>F 4464.5</i>	Changjon Hang, breakwater.	38° 44.0' N 128° 11.9' E	F.G.	16 5	3	White round concrete tower; 10.	
16364 <i>F 4461</i>	Suwon Dan.	38° 40.9' N 128° 21.7' E	Fl.(2)W. period 15s 2 fl. 3s, ec. 12s	134 41	17	White octagonal concrete structure; 56.	Siren: 1 bl. ev. 60s.
16365 <i>F 4460</i>	Chojin Dan Range , front.	38° 33.0' N 128° 24.6' E	F.W.	203 62	24	Red and white square concrete tower; 114.	Horn: 4 bl. ev. 60s.
16365.1 <i>F 4460.1</i>	-Rear, 270° from front.	38° 33.0' N 128° 23.9' E	F.W.	377 115	24	Red and white square concrete tower; 65.	

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KOREA							
16366	Chojin Dan, RACON.	38° 33.0' N 128° 24.5' E	Q(--•--)		10		Azimuth coverage 270°-315°.
16369 F 4459.9	Taejin.	38° 30.2' N 128° 25.9' E	Fl.W. period 12s	201 61	20	White octagonal concrete tower; Horn: 1 bl. ev. 20s. 102.	
16374 F 4459.75	-N. breakwater, head.	38° 29.8' N 128° 25.9' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 33.	
16376 F 4459.7	-S. breakwater, head.	38° 29.9' N 128° 25.8' E	Fl.G. period 5s	46 14	5	White square steel tower; 36.	
16377 F 4459.43	Gonghyeonjin.	38° 21.3' N 128° 30.8' E	Fl.(4)Y. period 8s	36 11	7	Yellow staff; 20.	
16378 F 4459.3	Oho Ri.	38° 19.6' N 128° 32.0' E	Fl.W. period 5s	89 27	12	White round concrete tower; 33.	
16379 F 4459.4	Oho Hang, breakwater.	38° 19.3' N 128° 32.0' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 33.	
16380 F 4459	Ayajin-ni.	38° 16.3' N 128° 33.4' E	Fl.W. period 6s	75 23	8	White tower; 26.	Visible 175°-327°.
16384 F 4459.1	-N. breakwater.	38° 16.2' N 128° 33.7' E	Fl.R. period 5s	56 17	5	Red round concrete tower; 33.	
16385 F 4459.15	-S. breakwater.	38° 16.2' N 128° 33.6' E	Fl.G. period 5s	43 13	5	White round concrete tower; 33.	
F.W.							Visible 310°-351° (over rock).
16386 F 4459.2	Mumam Hang, breakwater.	38° 17.9' N 128° 33.2' E	Fl.R. period 4s	43 13	5	Red round concrete tower; 33.	
16388 F 4459.5	Kojin-ni.	38° 27.0' N 128° 28.0' E	Al.Fl.W.R. period 32s	285 87	W. R.	22 19	White round concrete tower; 38.
16392 F 4459.6	-E. breakwater, S. head.	38° 26.4' N 128° 27.7' E	Fl.R. period 4s	39 12	6	Red round concrete tower; 28.	
16396 F 4459.54	-W. breakwater, head.	38° 26.4' N 128° 27.6' E	Fl.G. period 5s	36 11	5	White round concrete tower; 30.	
16404 F 4458	Sokch'o-ri.	38° 12.6' N 128° 36.1' E	Fl.(4)W. period 45s	157 48	17	White round tower; 34.	Visible 160°-005°. Siren: 1 bl. ev. 45s.
16408 F 4458.4	-N. breakwater.	38° 12.2' N 128° 36.3' E	Fl.R. period 4s	46 14	6	Red round concrete tower; 29.	
16412 F 4458.6	-S. breakwater.	38° 12.2' N 128° 36.1' E	Fl.G. period 4s	39 12	5	White round concrete tower; 30.	
16416 F 4458.2	Ch'o Do.	38° 11.7' N 128° 36.9' E	Fl.W. period 6s	118 36	7	White round concrete tower; 49.	
RACON						X(--•--)	(3 cm)
16420 F 4457	Taep'o Hang.	38° 10.3' N 128° 36.6' E	Fl.R. period 4s	43 13	6	Red round concrete structure; 36.	
16424 F 4456.5	Susan Dan.	38° 04.8' N 128° 40.7' E	Fl.W. period 5s	240 73	12	White round tower; 23.	
16428 F 4456	Kisimum Dan.	38° 01.1' N 128° 44.3' E	Fl.W. period 6s	106 32	8	White round concrete structure;	Visible 150°-314°. 34.
16429 F 4456.2	Gisamu Dan.	38° 00.4' N 128° 44.0' E	Fl.R. period 6s	36 11	5	Red square steel tower; 21.	
16430 F 4455.6	Dongsan Hang.	37° 58.7' N 128° 45.8' E	Fl.R. period 4s	36 11	5	Red square steel tower; 21.	
16432 F 4455	Namae Hang.	37° 56.5' N 128° 47.5' E	Fl.R. period 4s	46 14	6	Red metal tower; 33.	

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KOREA							
16433 F 4455.4	-Namae Hang, S. breakwater.	37° 56.4' N 128° 47.4' E	Fl.G. period 4s	36 11	5	White round concrete tower.	
CHUMUNJIN HANG:							
16436 F 4450	-Chumunjin Dan.	37° 53.9' N 128° 50.0' E	Fl.W. period 7.5s	131 40	20	White round brick tower; 33.	Visible 148°-025°. Siren: 1 bl. ev. 60s. Radiobeacon. Aero Radiobeacon 10.2 miles SSE. DGPS Station.
16440 F 4452	-E. breakwater, head.	37° 53.2' N 128° 50.0' E	Fl.R. period 4s	46 14	6	Red round concrete tower; 32.	
16444 F 4452.5	--W. breakwater, head.	37° 53.1' N 128° 50.0' E	Fl.G. period 4s	36 11	5	White round concrete tower; 28.	
16448 F 4453	-No. "2" jetty, head.	37° 52.9' N 128° 50.1' E	Fl.G. period 6s	40 12	5	White round concrete tower; 33.	
16449 F 4449.3	-Breakwater, head.	37° 38.7' N 129° 03.2' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 33.	
16450 F 4449.35	-Groin, head.	37° 38.8' N 129° 03.1' E	Fl.G. period 5s	39 12	5	White round concrete tower; 33.	
16451 F 4449.8	Sach'onjin Hang, N. breakwater.	37° 49.9' N 128° 52.9' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
16451.5 F 4449.85	-S. breakwater.	37° 49.8' N 128° 52.9' E	Fl.G. period 5s	39 12	5	White round concrete tower; 33.	
16451.7 F 4449.6	Anin-dan.	37° 44.2' N 128° 59.5' E	Fl.R. period 4s	33 10	5	Red square steel tower; 21.	
16451.8 F 4449.65	-Groin.	37° 44.1' N 128° 59.4' E	Fl.G. period 4s	33 10	5	White square steel tower; 21.	
16452 F 4449.5	Chongdongjin Dan.	37° 40.4' N 129° 03.3' E	Fl.W. period 8s	292 89	12	White round tower; 33.	Visible 142°-333°.
16454 F 4449.1	Okkye Hang, N. breakwater.	37° 37.2' N 129° 04.2' E	Fl.R. period 4s	49 15	5	Red round concrete tower; 33.	Horn: 1 bl. ev. 50s.
16454.1 F 4449.2	-S. breakwater.	37° 37.2' N 129° 03.7' E	Fl.G. period 4s	49 15	5	White round concrete tower; 33.	
16454.2	-Sea berth.	37° 37.2' N 129° 03.7' E	Fl.(4)Y. period 8s	21 6	6	Yellow round fiberglass tower; 13.	
16456 F 4449	-Kanshin Tan.	37° 34.3' N 129° 07.1' E	Fl.W. period 5s	59 18	8	White round concrete structure; 34.	Visible 154°-344°.
16464 F 4447	Mutho Hang.	37° 33.1' N 129° 07.2' E	Fl.W. period 10s	259 79	20	White round concrete tower; 38.	Visible 174°-328°. Horn: 1 bl. ev. 55s
16466 F 4448	-W. breakwater, head.	37° 32.4' N 129° 07.1' E	Fl.G. period 6s	49 15	9	White round concrete tower; 36.	

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KOREA

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KOREA							
16469	-S. groin.	37° 32.4' N 129° 07.0' E	Fl.G. period 4s	46 14	5	White round concrete tower; 33.	
16478 F 4446.8	Tonghae Hang, wharf.	37° 29.8' N 129° 08.3' E	Fl.(2)G. period 5s	28 9	5	White pillar; 19.	
16480 F 4446.6	Bugpyeong Hang, N. breakwater, head.	37° 29.8' N 129° 09.2' E	Fl.(2)R. period 5s	46 14	9	Red round concrete tower; 28.	
RACON				B(-•••)			
16484 F 4446.5	Bugpyeong Hang, S. breakwater, head.	37° 29.7' N 129° 08.9' E	Fl.G. period 4s	52 16	8	White round tower; 32.	
16485	-S. breakwater.	37° 29.8' N 129° 08.7' E	F.W.	49 15			Visible 203°-225°.
16486	Tonghae Hang, Seabert.	37° 29.6' N 129° 08.8' E	Fl.(4)Y. period 8s	23 7	6	Yellow pillar; 13.	Private.
16487	Samchok Hang.	37° 26.1' N 129° 11.5' E	Dir.F.W.R.G.	105 32	W. 21 R. 17 G. 17	White steel tower.	R. 317°36'-319°12', W.- 320°48', G.-322°24'.
16488 F 4436	-S. breakwater, head.	37° 25.8' N 129° 11.8' E	Fl.G. period 4s	46 14	8	White round concrete structure; 33.	
16492 F 4437	-N. breakwater, head.	37° 25.9' N 129° 11.8' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 28.	
16496 F 4435	Pi Mal.	37° 22.7' N 129° 15.5' E	Fl.W. period 5s	236 72	12	White round concrete structure; 28.	
16500 F 4434	Changho.	37° 17.1' N 129° 19.3' E	Fl.W. period 5s	184 56	8	White round tower; 23.	
16502 F 4434.3	-Groin.	37° 17.1' N 129° 19.0' E	Fl.R. period 5s	36 11	5	Red round concrete tower; 32.	
16504 F 4434.2	-Breakwater, head.	37° 17.1' N 129° 19.0' E	Fl.G. period 5s	39 12	5	White round steel tower; 16.	
16505 F 4434.75	Toksan Hang, N. breakwater.	37° 22.4' N 129° 15.4' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 33.	
16506 F 4434.7	-S. breakwater.	37° 22.3' N 129° 15.4' E	Fl.G. period 5s	46 14	5	White round concrete tower; 36.	
16508 F 4433.7	Imunae Hang.	37° 13.9' N 129° 21.5' E	Fl.W. period 8s	197 60	14	White round concrete tower; 33.	
16516 F 4433.8	-Breakwater, head.	37° 13.5' N 129° 20.8' E	Fl.G. period 6s	36 11	5	White round concrete tower; 31.	
16518 F 4433.9	--Breakwater, head.	37° 13.6' N 129° 20.7' E	Fl.R. period 4s	36 11	6	Red square metal tower; 23.	
ULLUNG DO:							
16520 F 4446.2	-Hyongnangap.	37° 29.0' N 130° 55.0' E	Fl.W. period 14s	354 108	18	White octagonal tower; 30.	Visible 183°-40°. Horn: 1 bl. ev. 60s.
16524	--Jeodong Hang, N. breakwater, head.	37° 29.9' N 130° 54.8' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 28.	
16528	--S. breakwater, head.	37° 29.8' N 130° 54.8' E	Fl.G. period 5s	52 16	5	White round concrete tower; 28.	
16536 F 4443	Ch'onbu Hang, breakwater, head.	37° 32.6' N 130° 52.4' E	Fl.G. period 4s	29 9	5	White round concrete column; 25.	

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KOREA							
16540 F 4444	-Taep'ung Gam.	37° 31.0' N 130° 48.0' E	Fl.W. period 25s	561 171	18	White tower; 25.	Visible 002°-246°. Siren: 1 bl. ev. 50s. Radiobeacon. DGPS Station.
16542	-N. breakwater.	37° 31.8' N 130° 49.7' E	Fl.R. period 5s	56 17	5	STARBOARD (B) R, tower; 33.	
16544 F 4445	-Kanyong Mal.	37° 27.3' N 130° 52.5' E	Fl.W. period 5s	70 21	14	White round structure; 16.	Visible 270°-110°.
16548 F 4440	Tok To.	37° 14.2' N 131° 52.2' E	Fl.W. period 10s	341 104	25	White round concrete tower; 49.	Visible 000°-117°, 140°-000°.
	RACON		K(-•-)		10		
16551	Hosan Hang.	37° 10.5' N 129° 21.1' E	Fl.R. period 5s	46 14	5	Red round steel tower; 33.	
16551.1	-Hosan groin.	37° 10.5' N 129° 21.0' E	Fl.G. period 5s	46 14	5	White round steel tower; 33.	
16552 F 4432	Chukpyon Dong.	37° 03.0' N 129° 26.0' E	Fl.W. period 20s fl. 1s, ec. 19s	161 49	22	White octagonal concrete structure; 52.	Visible 162°-352°. Horn: 1 bl. ev. 50s
16556 F 4432.6	-E. breakwater, head.	37° 03.0' N 129° 25.4' E	Fl.R. period 4s	33 10	5	Red round concrete tower; 27.	
16560 F 4433	-W. breakwater.	37° 03.1' N 129° 25.3' E	Fl.G. period 4s	36 11	5	White quadrangular metal framework; 27.	
16564 F 4431.5	Chinmi Mal.	36° 54.0' N 129° 25.0' E	Fl.W. period 6s	190 58	8	White round concrete tower; 39.	Visible 184°-340°.
16565 F 4431.45	Osan Hang, N. breakwater, head.	36° 53.4' N 129° 25.3' E	Fl.R. period 4s	33 10	5	Red tower; 10.	
16566 F 4431.2	Sadong, N. breakwater.	36° 49.3' N 129° 27.3' E	Fl.R. period 5s	56 17	5	Red round concrete tower; 33.	
16566.2 F 4431.4	-S. breakwater.	36° 49.3' N 129° 27.2' E	Fl.G. period 5s	49 15	5	White round concrete tower; 34.	
16568 F 4431	Hwamo Mal.	36° 45.9' N 129° 28.7' E	Fl.W. period 7s	157 48	12	White round concrete tower; 33.	
16569 F 4430.5	Kusan Hang, N. breakwater.	36° 45.4' N 129° 28.5' E	Fl.R. period 5s	33 10	5	Red tower; 10.	
16570	Jiksan Hang, E. breakwater.	36° 43.4' N 129° 28.5' E	Fl.R. period 4s	33 10	6	White round steel tower; 19.	
16570.1	Jiksan Hang, S. breakwater.	36° 43.4' N 129° 28.4' E	Fl.G. period 4s	33 10	5	White round metal tower; 19.	
HUP'O HANG:							
16572 F 4426	-Hup'o.	36° 41.0' N 129° 28.0' E	Fl.W. period 10s	210 64	19	White octagonal concrete tower; 34.	Visible 210°-14°. Siren: 1 bl. ev. 60s.
16574 F 4427	-Hup'o Chedong.	36° 41.0' N 129° 28.4' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
16576 F 4429	-E. breakwater, head.	36° 40.3' N 129° 27.4' E	Fl.R. period 4s	36 11	5	Red round steel tower; 20.	
16580 F 4430	-W. breakwater, head.	36° 40.3' N 129° 27.5' E	Fl.G. period 4s	43 13	5	White round concrete tower; 33.	
16584 F 4424	Ch'uksan Hang.	36° 30.3' N 129° 27.2' E	Fl.W. period 5s	282 86	18	White octagonal concrete tower; 30.	Fishing light.

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KOREA							
16588 <i>F 4420</i>	-S. breakwater, head.	36° 30.4' N 129° 27.1' E	Fl.G. period 4s	33 10	5	White square metal tower; 26.	
16592 <i>F 4421</i>	-N. breakwater, head.	36° 30.6' N 129° 27.2' E	Fl.R. period 5s	43 13	5	Red round concrete structure; 33.	
16596 <i>F 4418</i>	Changp'o Mal.	36° 25.3' N 129° 26.2' E	Fl.W. period 6s	200 61	14	White round concrete tower; 39.	Visible 197°-010°.
16596.5 <i>F 4417</i>	Changp'o Mal, breakwater.	36° 24.3' N 129° 25.6' E	Fl.R. period 5s	43 13	6	Yellow round steel tower; 23.	
16597	Taejin Hang, N. breakwater.	36° 33.5' N 129° 26.1' E	Fl.R. period 5s	33 10	5	Red tower; 10.	
GANGGU HANG:							
16600 <i>F 4415</i>	-E. breakwater.	36° 21.2' N 129° 23.7' E	Fl.R. period 5s	49 15	11	Red round metal tower; 36.	
16604 <i>F 4414</i>	-W. breakwater.	36° 21.3' N 129° 23.4' E	Fl.G. period 5s	30 9	11	White square metal framework structure; 32.	
KUKYE HANG:							
16609 <i>F 4413.7</i>	-Kukye Hang, breakwater.	36° 18.9' N 129° 23.0' E	Fl.R. period 5s	56 17	5	Red round concrete tower; 33.	
16610 <i>F 4413.75</i>	-E. breakwater.	36° 18.9' N 129° 22.9' E	Fl.R. period 5s	42 13	5	Red round concrete tower; 33.	
16611 <i>F 4413.8</i>	-S. breakwater.	36° 18.9' N 129° 22.9' E	Fl.G. period 5s	42 13	5	White round concrete tower; 33.	
16612 <i>F 4413.6</i>	Weolpo Man.	36° 10.7' N 129° 23.7' E	Fl.W. period 7s	79 24	13	White round concrete tower; 33.	
-POHANG HANG:							
16614 <i>F 4410.5</i>	-Yonamgup.	36° 04.4' N 129° 25.3' E	Fl.W. period 5s	108 33	13	White octagonal concrete tower; 46.	
16616 <i>F 4413</i>	-W. breakwater, head.	36° 02.6' N 129° 23.0' E	Fl.G. period 5s	43 13	10	White round concrete tower; 33.	
16620 <i>F 4413.2</i>	-E. breakwater, head.	36° 02.6' N 129° 23.2' E	Fl.R. period 5s	43 13	14	Red round concrete tower; 33.	
16621 <i>F 4413.4</i>	Dongbin Bridge.	36° 02.4' N 129° 22.3' E	Iso.W. period 4s	26 8	7	Red round daymark, white stripes.	Iso.R. 4s 8m 4M and Iso.G. 4s 8m 4M mark width of navigable span. Iso.Y. 4s 3m 6M, Iso.Y. 4s 6m 6M and Iso.Y. 4s 4m 6M mark bridge pilings.
16624 <i>F 4412</i>	Pohang Shinhang Pier No. "1".	36° 01.2' N 129° 24.2' E	Dir.F.W.R.G.	236 72	W. 18 R. 15 G. 14	White square framework tower; 226.	R. 258°42'-262°, W.-265°18', G.-268°36'.
16626 <i>F 4411.4</i>	--Range, front.	36° 01.1' N 129° 25.6' E	F.G.	115 35	14	Framework tower; 98.	Visible 237°30'-245°30'.
16627 <i>F 4411.41</i>	--Rear, 1,290 meters 241°30' from front.	36° 00.9' N 129° 24.7' E	F.G.	240 73	14	Framework tower; 230.	Visible 236°-244°.
16628 <i>F 4412.6</i>	New Harbor, W. breakwater, head.	36° 01.2' N 129° 24.3' E	Fl.G. period 5s	39 12	10	White round fiberglass structure; 29.	
16632 <i>F 4412.5</i>	New Harbor, E. breakwater.	36° 01.1' N 129° 24.6' E	Fl.R. period 5s	39 12	10	Red octagonal concrete tower; 32.	

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KOREA							
16633 <i>F 4412.72</i>	--E. detached breakwater, W. head.	36° 01.1' N 129° 25.0' E	Fl.G. period 4s	33 10	5	White round tower; 25.	
16634 <i>F 4412.7</i>	--E. head.	36° 01.0' N 129° 25.0' E	Fl.R. period 4s	33 10	5	Red round tower; 25.	
16636 <i>F 4411</i>	--Outer Harbor, N. breakwater, head.	36° 01.6' N 129° 25.9' E	Fl.R. period 6s	66 20	13	Red octagonal concrete tower; 49.	
16640 <i>F 4411.2</i>	--S. breakwater, head.	36° 01.2' N 129° 25.6' E	Fl.G. period 6s	56 17	15	White round structure; 42.	
16642 <i>F 4412.8</i>	Water tower.	36° 00.1' N 129° 25.4' E	Fl.Y. period 5s	21 6	7		
16643 <i>F 4408</i>	Taedongbae-dong.	36° 03.6' N 129° 31.9' E	Fl.G. period 5s	31 10	5	White round steel tower; 24.	
16644 <i>F 4406</i>	Janggi Gab (Changgi Ap).	36° 04.5' N 129° 34.3' E	Fl.W. period 12s	101 31	27	White octagonal concrete tower; 85.	Visible 106°-347°. Siren: 1 bl. ev. 60s. Radiobeacon.
16648 <i>F 4410</i>	Daebo Hang, breakwater, head.	36° 04.8' N 129° 33.8' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 26.	
16648.5	-S. breakwater.	36° 04.8' N 129° 33.8' E	Fl.G. period 4s	42 13	5	White round concrete tower; 28.	
16648.6 <i>F 4410.1</i>	-W. breakwater.	36° 04.9' N 129° 33.8' E	Fl.(2)G. period 6s	39 12	5	White round concrete tower; 23.	
16652 <i>F 4409</i>	Gyoseogcho (Kyosokch'o).	36° 05.3' N 129° 33.6' E	Fl.G. period 5s	49 15	5	PORT (B) G, tower, topmark; 66.	
RACON				Z(--••)		10	
16656 <i>F 4404</i>	Sara Mal.	35° 59.3' N 129° 34.2' E	Fl.W. period 9s	59 18	13	White round concrete tower; 32.	Visible 208°-011°.
GURYONGPO HANG:							
16660 <i>F 4405</i>	-Breakwater, head.	35° 59.0' N 129° 33.6' E	Fl.R. period 4s	46 14	6	Red round concrete tower; 33.	
16661 <i>F 4405.5</i>	-S. breakwater.	35° 59.1' N 129° 33.6' E	Fl.G. period 5s	20 6	5	White round steel tower; 20.	
16662 <i>F 4403</i>	Yangp'o Hang.	35° 52.4' N 129° 31.9' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 33.	
16664 <i>F 4402</i>	Yangp'o.	35° 52.1' N 129° 32.2' E	Fl.W. period 7s	79 24	12	White round concrete tower; 31.	Visible 110°-021°.
KAMP'O HANG:							
16668 <i>F 4400</i>	-Songdae Khut.	35° 48.3' N 129° 30.8' E	Al.Fl.W.R. period 34s	98 30	W. 21 R. 18	White round concrete structure; 46.	Visible 197°-014°. F.W. visible 301°-309°, illuminates reef 350 meters SE. Siren: 1 bl. ev. 50s.
16672 <i>F 4398</i>	-S. breakwater, head.	35° 48.2' N 129° 30.6' E	Fl.G. period 4s	42 13	5	White round concrete tower; 36.	
16672.2	N. Gampo Hang.	35° 48.2' N 129° 30.5' E	Fl.(2)G. period 6s	43 13	5	White octagonal concrete tower; 56.	
16672.7	Upchon Hang, N. breakwater.	35° 41.3' N 129° 28.8' E	Fl.R. period 5s	49 15	5	STARBOARD (B) R, tower; 33.	
16673 <i>F 4397.4</i>	Chongja Hang, N. breakwater.	35° 36.8' N 129° 27.4' E	Fl.(2)R. period 6s	52 16	5	Red round concrete tower; 33.	

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KOREA							
16673.1 F 4397.5	-S. breakwater.	35° 36.8' N 129° 27.3' E	Fl.G. period 6s	52 16	5	White round concrete tower; 36.	
16674 F 4397	Idokso.	35° 33.8' N 129° 28.6' E	Fl.(2)W. period 5s	46 14	7	ISOLATED DANGER BRB, topmark; 52.	
16676 F 4388	Seul Do.	35° 28.5' N 129° 26.0' E	Fl.W. period 6s	59 18	8	Red round tower; 15.	Visible 225°-075°.
16680 F 4394	Ulgi.	35° 29.6' N 129° 26.6' E	Fl.W. period 10s	171 52	26	White octagonal concrete structure; 79.	Visible 184°-014°. Siren: 1 bl. ev. 50s (bl. 5s, si. 45s).
16680.9	Mip'o Hang, outer N. breakwater, head.	35° 31.3' N 129° 27.2' E	Fl.G. period 5s	59 18	8	White round concrete tower; 49.	
16681.2	-S. breakwater, head.	35° 31.4' N 129° 27.4' E	Fl.R. period 5s	59 18	9	Red round concrete tower; 49.	
BANGEOJIN HANG:							
16684 F 4390	-Breakwater, head.	35° 28.6' N 129° 25.9' E	Fl.G. period 5s	49 15	5	White square metal framework tower; 19.	
16686 F 4389	-Seul Do, breakwater, head.	35° 28.5' N 129° 25.8' E	Fl.R. period 5s	52 16	5	Red round concrete tower; 33.	
16688 F 4385	-Hwaam Chu.	35° 28.2' N 129° 24.6' E	Al.Fl.W.R. period 20s	161 49	W. R. 26 144.	White round concrete tower;	Visible 250°-162°. Horn: 1 bl. ev. 60s.
16690 F 4381.3	-Breakwater, E. head.	35° 28.1' N 129° 24.4' E	Fl.Y. period 4s	56 17	7	Yellow round concrete tower; 32.	
16691 F 4381.36	--W. head.	35° 28.0' N 129° 24.0' E	Fl.R. period 8s	69 21	13	Red round concrete tower; 49.	
--RACON							
			O (---)		10		
16692 F 4381.4	Ulsan Hang, Yugong Sea Berth "A".	35° 28.4' N 129° 23.6' E	Fl.(4)Y. period 8s	36 11	10	SPECIAL Y, beacon, topmark; 16.	
16696 F 4381.5	"B".	35° 29.1' N 129° 23.6' E	Fl.Y. period 4s	30 9	7	SPECIAL Y, beacon, topmark; 11.	
16698 F 4382.5	Jangsaengpo Hang, S. wharf.	35° 29.7' N 129° 22.3' E	Fl.(4)Y. period 8s	14 4	12	SPECIAL Y, pole, topmark; 13.	Private.
16699 F 4382.7	Changsaengpo, pier No. "1".	35° 29.9' N 129° 22.1' E	Fl.(2)Y. period 6s	24 7	7	SPECIAL Y, beacon; 16.	
16700 F 4382	Ulsan Hang, breakwater, head.	35° 30.1' N 129° 23.5' E	Fl.G. period 6s	46 14	13	White round concrete structure; 38.	
16702 F 4383	-Exports and Imports Wharf No. "A".	35° 31.2' N 129° 23.5' E	Fl.(4)Y. period 8s	20 6	7	SPECIAL Y, beacon, topmark; 13.	Private.
16702.5 F 4383.2	--No. "B".	35° 31.3' N 129° 23.5' E	Fl.Y. period 4s	20 6	7	SPECIAL Y, beacon, topmark; 13.	Private.
16704 F 4379	Onsan Hang, N. breakwater, head.	35° 26.9' N 129° 22.5' E	Fl.R. period 6s	46 14	13	Red round concrete tower; 33.	
16708 F 4379.2	-S. breakwater, head.	35° 26.8' N 129° 22.3' E	Fl.G. period 6s	46 14	13	White round concrete tower; 33.	
16709 F 4379.7	Onsan Jeopan Budu.	35° 27.0' N 129° 22.0' E	Fl.Y. period 4s		7	Yellow round fiberglass structure; 14.	
16710 F 4379.4	-Ssangyong oil refining wharf.	35° 26.9' N 129° 21.7' E	Fl.(4)Y. period 8s	30 9	7	Yellow square metal tower; 16.	
16710.5	--Pier "1".	35° 26.9' N 129° 21.6' E	Fl.(3)Y. period 7s	30 9	7	SPECIAL Y, beacon, topmark; 19.	

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KOREA							
16711 <i>F 4379.5</i>	-Taehan Yuhwa, "A".	35° 27.1' N 129° 21.4' E	Fl.(2)Y. period 6s	32 10	7	SPECIAL Y, tower, topmark; 15.	
16711.3 <i>F 4379.6</i>	--"B".	35° 27.2' N 129° 21.3' E	Fl.(2)Y. period 6s	32 10	7	SPECIAL Y, tower, topmark; 15.	Horn: 1 bl. ev. 25s (bl. 5s, si. 20s).
16711.5 <i>F 4379.7</i>	--"C".	35° 27.3' N 129° 21.2' E	Fl.(2)Y. period 6s	32 10	7	SPECIAL Y, tower, topmark; 15.	
16711.7	-SPM "C".	35° 25.9' N 129° 23.3' E	Fl.Y. period 4s			Yellow hull.	
RACON							
16712 <i>F 4378</i>	Kanjol Ap.	35° 21.6' N 129° 21.7' E	Fl.W. period 15s	115 35	26	White octagonal concrete tower; 55.	Visible 165°-045°. Horn: 1 bl. ev. 55s.
16713 <i>F 4377.9</i>	Nasa.	35° 21.1' N 129° 20.7' E	Fl.W. period 6s	62 19	8	White round concrete tower; 39.	
16714 <i>F 4377.6</i>	Wolnae Hang, S. breakwater.	35° 19.5' N 129° 16.8' E	Fl.G. period 5s	39 12	5	White round concrete tower; 32.	
16718	Hakri Hang, breakwater.	35° 15.7' N 129° 14.8' E	Fl.(2)G. period 5s	49 15	5	White round concrete tower; 37.	
16720 <i>F 4376</i>	Taebyon-ni (Talhen Ko), breakwater, head.	35° 13.1' N 129° 13.9' E	Fl.R. period 5s	33 10	12	Red round concrete tower; 13.	
16724 <i>F 4375.6</i>	Songjungri.	35° 10.0' N 129° 13.2' E	Q.(3)W. period 10s	52 16	7	E. CARDINAL BYB, tower, topmark; 50.	
16724.2	Kyosokchu.	35° 09.3' N 129° 12.4' E	Q.(3)W. period 5s	65 20	7	E. CARDINAL BYB, tower, topmark; 62.	
PUSAN HANG:							
16724.4 <i>F 4374.4</i>	-Yacht Port, breakwater, E. head.	35° 09.3' N 129° 08.5' E	Fl.R. period 4s	36 11	5	Red conical framework structure; 7.	
16724.8 <i>F 4374.7</i>	--W. breakwater, head.	35° 09.4' N 129° 08.4' E	Fl.(2)G. period 6s	36 11	5	White conical framework structure; 7.	
16725.2 <i>F 4374.5</i>	-Center, breakwater, E. head.	35° 09.3' N 129° 08.5' E	Fl.G. period 4s	36 11	5	White conical framework structure; 7.	
16725.6 <i>F 4374.6</i>	--W. head.	35° 09.3' N 129° 08.4' E	Fl.(2)R. period 6s	36 11	5	Red conical framework structure; 7.	
16725.8 <i>F 4374.8</i>	--Suyong Man fishing harbor, E. breakwater.	35° 09.5' N 129° 08.2' E	Fl.R. period 6s	33 10	5	Red round fiberglass tower on concrete base; 22.	
16725.9 <i>F 4374.81</i>	--W. breakwater.	35° 09.5' N 129° 08.2' E	Fl.G. period 6s	33 10	5	White round fiberglass tower, concrete base; 22.	
16727 <i>F 4374.2</i>	Millaktong, E. breakwater.	35° 09.0' N 129° 07.9' E	Fl.(2)R. period 6s	52 16	5	Red round concrete tower; 32.	
16727.1 <i>F 4374.3</i>	-W. breakwater.	35° 09.0' N 129° 08.0' E	Fl.(2)G. period 6s	52 16	5	White round concrete tower; 32.	
16727.5	Kwangalli Meteorological Observation Station.	35° 07.9' N 129° 08.1' E	Fl.(4)Y. period 8s	36 11	7	SPECIAL Y, tower, topmark; 69.	
16727.8	-Sangdo.	35° 02.1' N 129° 05.7' E	Fl.(2)W. period 5s	187 57	11	ISOLATED DANGER BRB, tower, topmark; 79.	
16728 <i>F 4356</i>	-Yong Do.	35° 03.1' N 129° 05.5' E	Fl.(3)W. period 18s	269 82	24	White round steel tower; 8.	Visible 210°-026°. Signal station (day only). Radio beacon. DGPS Station.

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KOREA							
16730	Pusan fairway buoy.	35° 04.0' N 129° 07.9' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		G(---)				
16732 F4374	-Oryuk To.	35° 05.5' N 129° 07.6' E	Fl.W. period 10s	174 53	22	White round concrete structure; 92.	Visible 203°-099°.
16733	-Middle breakwater, NE. head.	35° 05.8' N 129° 06.9' E	Fl.Y. period 5s	56 17	7	Yellow round concrete tower; 33.	
16733.1 F4356.6	--SW. head.	35° 05.1' N 129° 06.4' E	Iso.R. period 4s	66 20	10	Red round concrete tower; 10.	
16734 F4356.4	-Outer port, S. breakwater, E. head.	35° 04.7' N 129° 06.3' E	Iso.G. period 4s	66 20	12	White round concrete tower; 46.	
16735 F4356.5	--W. head.	35° 04.5' N 129° 06.0' E	Fl.Y. period 5s	52 16	7	Yellow round concrete tower; 33.	
16737	Tongsan-Dong, breakwater.	35° 04.1' N 129° 05.2' E	Fl.G. period 5s	46 14	5	White round concrete tower; 29.	
16740.1	-Gamman Wharf.	35° 06.5' N 129° 04.0' E	Fl.R. period 5s	66 20	12	STARBOARD (B) R, beacon, topmark; 56.	
16740.2	--S. breakwater.	35° 06.0' N 129° 03.9' E	Fl.G. period 5s	59 18	11	White round concrete tower; 52.	
16748 F4360	-Deungmudari.	35° 06.2' N 129° 03.5' E	Q.W.	39 12	12	N, CARDINAL BY, tower, topmark; 46.	
16749 F4357.6	Uam viaduct No. "1".	35° 07.4' N 129° 04.1' E	Fl.(4)Y. period 8s	17 5	5	SPECIAL Y, tower; 36.	
16749.5 F4357.8	-No. "2".	35° 07.5' N 129° 04.1' E	Fl.(4)Y. period 8s	17 5	5	SPECIAL Y, tower; 36.	
16752 F4366	-Nam Hang, W. breakwater, E. head.	35° 04.9' N 129° 02.1' E	Fl.G. period 5s	46 14	12	White round concrete tower; 20.	
16756 F4368	--E. breakwater, head.	35° 05.1' N 129° 02.0' E	Fl.R. period 5s	72 22	12	Red round concrete tower; 56.	
16759	-Fairway Buoy.	35° 01.7' N 129° 01.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	RACON		N(---)		3		
16760 F4355.4	Kamch'on Hang, E. breakwater.	35° 02.9' N 129° 00.7' E	Fl.(2)R. period 6s	105 32	8	Red round concrete tower; 99.	
16760.5 F4355.5	-W. breakwater.	35° 02.8' N 129° 00.6' E	Fl.(2)G. period 6s	105 32	12	White round concrete tower; 99.	
16763	-Entrance Range, front.	35° 03.5' N 128° 59.7' E	F.G.	138 42	14	Red and white square steel tower; 128.	
16763.5	--Rear, 500 meters 314°18' from front.	35° 03.7' N 128° 59.5' E	F.G.	174 53	14	Red and white round concrete tower; 23.	
16764 F4355	Tudo.	35° 02.9' N 129° 00.9' E	Fl.W. period 10s	177 54	18	White round concrete tower; 26.	Visible 204°-163°.
16765	-SW.	35° 02.6' N 129° 01.0' E	Fl.(2)R. period 6s	59 18	8	STARBOARD (B) R, beacon, topmark; 59.	Visible 249°-176°.
16768 F4354	So Do.	35° 01.5' N 128° 58.5' E	Fl.W. period 6s	335 102	17	White round concrete structure; 30.	
	RACON		M(---)		10		
16768.5	Songdo.	35° 02.6' N 128° 59.5' E	Fl.R. period 4s	66 20	5	STARBOARD (B) R, tower, topmark; 49.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KOREA							
16769 F 4354.7	-Jadam Mal.	35° 02.4' N 129° 00.1' E	Q.(6)+L.FI.W. period 15s	63 19	8	S. CARDINAL YB, tower, topmark; 46.	
16770 F 4354.5	Kyungdo.	35° 02.0' N 128° 59.1' E	FI.W. period 5s	135 41	11	White octagonal concrete tower; 33.	
16771	Tadaepo.	35° 03.2' N 128° 59.0' E	FI.G. period 10s	36 11	16	White round concrete tower; 30.	
16771.5	-Fishing harbor.	35° 03.2' N 128° 58.9' E	FI.(3)R. period 8s	36 11	9	STARBOARD (B) R, beacon; 33.	
16772 F 4353.5	Mokto.	34° 58.8' N 128° 59.4' E	FI.(2)W. period 6s	226 69	11	White round concrete tower; 30.	
	RACON		B(- • •)		10		
16774 F 4352.4	Shinbo Bridge Navigation Channel, center.	35° 05.2' N 128° 53.8' E	Iso.W. period 4s	23 7	10	White round daymark, red stripes.	
16774.5	Naktongpo Bridge Navigation channel, center.	35° 06.2' N 128° 55.9' E	FI.W. period 4s	23 7	7	White round daymark, red stripes.	
16775	Pukyongjedo.	34° 56.0' N 128° 58.4' E	FI.W. period 4s	164 50	12	White round concrete tower; 63.	
16775.5 F 4353.7	Namhyongjedo.	34° 52.9' N 128° 57.1' E	FI.(2)W. period 5s	98 30	11	ISOLATED DANGER BRB, tower, topmark; 79.	
16776 F 4352	Tongdu-mal.	34° 59.4' N 128° 49.7' E	FI.W. period 12s	344 105	21	White octagonal concrete tower; 133.	Visible 223°-137°. Siren: 1 bl. ev. 55s.
16778 F 4351.8	Daejug Do.	35° 00.3' N 128° 47.0' E	FI.W. period 6s	56 17	8	White round concrete tower; 39.	
16779 F 4352.3	Taehang-ni.	35° 00.7' N 128° 49.5' E	FI.G. period 5s	49 15	5	White round concrete tower; 34.	
16780 F 4351	Saegeun Seo.	35° 01.7' N 128° 44.1' E	FI.(2)W. period 5s	38 12	8	ISOLATED DANGER BRB, tower, topmark; 36.	
16780.4 F 4350.1	Uho Hang, E. breakwater.	35° 01.7' N 128° 43.0' E	FI.G. period 4s	30 9	5	White round steel tower; 15.	
16780.5 F 4350.2	-N. breakwater.	35° 01.7' N 128° 42.9' E	FI.R. period 4s	26 8	5	Red round steel tower; 15.	
16781	Chang-mal, breakwater, W. head.	35° 04.7' N 128° 46.9' E	FI.(2)R. period 6s	20 6	6	Red square steel tower; 12.	
16781	-Sangyu.	35° 01.5' N 128° 43.1' E	FI.G. period 6s	38 12	8		
16781.1	-E. head.	35° 04.7' N 128° 47.1' E	FI.(2)Y. period 6s	20 6	7	Yellow square steel tower; 12.	
16782	Kojin-mal, breakwater, W. head.	35° 02.9' N 128° 47.2' E	FI.(4)R. period 8s	33 10	6	Red square steel tower; 12.	
16782.1	-E. head.	35° 02.9' N 128° 47.6' E	FI.Y. period 6s	33 10	7	Yellow square steel tower; 12.	
16783	Yondo, breakwater.	35° 03.5' N 128° 46.7' E	FI.(4)G. period 8s	33 10	5	White square steel tower; 12.	
16784	Kadok Sudo Center Buoy No. "1".	35° 01.4' N 128° 47.3' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar.	
	RACON		G(— •)				
16788	-No "2".	35° 02.5' N 128° 40.5' E	L.FI.W. period 10s			SAFE WATER RW, pillar.	
	-RACON		K(— • —)		10		

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KOREA							
16792 F4345	Toggi Seom.	35° 04.4' N 128° 43.1' E	Fl.W. period 4s	194 59	8	White round concrete structure; 22.	
16796 F4344	Ch'ori Do.	35° 04.4' N 128° 41.4' E	Fl.W. period 6s	148 45	8	White round concrete structure; 22.	
16800 F4347	Budo Sudo (Pu Do Suido), on Madang Seo.	35° 06.2' N 128° 40.9' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 42.	
16802	Chungjuk To.	35° 08.0' N 128° 41.1' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 46.	
16804 F4346	Dotumari Am.	35° 05.7' N 128° 40.9' E	Fl.(2)W. period 5s	33 10	10	ISOLATED DANGER BRB, beacon, topmark.	
16805	Umji-do.	35° 05.4' N 128° 43.0' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
16808 F4343	-On Channel Cho (Che Roe Channel Reef).	35° 04.5' N 128° 40.4' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, beacon, topmark.	
	RACON		C(- • - •)		10		(3 & 10 cm)
16810	-Bridge.	35° 12.6' N 128° 37.3' E	F.W.	36 11	5	White round daymark, red stripes.	Marks center of navigable span.
MASAN HANG:							
16811	-E. breakwater, E. head.	35° 12.2' N 128° 35.1' E	Fl.G. period 4s	30 9	8	White round fiberglass tower; 21.	
16812	--W. head.	35° 12.2' N 128° 35.0' E	Fl.R. period 4s	30 9	8	Red round fiberglass tower; 21.	
16813 F4349.2	-Detached breakwater, E. head.	35° 12.1' N 128° 35.0' E	Fl.G. period 6s	38 12	8	White round concrete tower; 32.	
16814 F4349.3	-- W. head.	35° 12.0' N 128° 34.8' E	Fl.R. period 6s	38 12	8	Red round concrete tower; 32.	
16815 F4348.8	--W. detached breakwater, E. head.	35° 12.0' N 128° 34.7' E	Fl.G. period 4s	28 9	8	White round fiberglass tower; 25.	
16815.5 F4348.9	--W. head.	35° 12.1' N 128° 34.7' E	Fl.R. period 4s	30 9	8	White round fiberglass tower; 25.	
16815.9 F4348.7	Masan Hang.	35° 11.9' N 128° 34.6' E	Fl.G. period 4s	43 13	8	White round structure.	
16816 F4348	Maggae Do.	35° 08.3' N 128° 36.0' E	Fl.W. period 4s	65 20	10	White round concrete tower; 34.	
16817	Breakwater, head.	35° 08.0' N 128° 37.7' E	Fl.G.	7 2		White concrete cone; 10.	
16817.8 F4342.5	Paengnaegi-san, breakwater.	35° 04.0' N 128° 37.7' E	Fl.(2)G. period 6s	30 9	5	White round metal tower; 15.	
16818 F4342.4	Paegam (Baeg Am).	35° 02.3' N 128° 37.8' E	Fl.G. period 5s	46 14	5	PORT (B) G, beacon, topmark; 42.	
	RACON		B (- • •)				
16820 F4342	Jinhae Man (Chinhae Man).	35° 02.2' N 128° 36.8' E	Fl.(2)W. period 5s	31 9	8	ISOLATED DANGER BRB, tower, topmark; 29.	
16820.5	Bokjingaeyeo.	35° 03.9' N 128° 34.0' E	Fl.G. period 4s	23 7	5	Green round concrete tower; 27.	
16820.9	Jindong Hang.	35° 05.9' N 128° 28.8' E	Fl.R. period 6s	33 10	6	Red round concrete tower; 26.	

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KOREA							
16821	Kwangam Hang, breakwater.	35° 05.9' N 128° 29.9' E	F.I.R. period 4s	31 9	5	Red steel structure; 14.	
16821.1 F 4340.99	Changgun-san Bridge.	35° 04.5' N 128° 28.0' E	Iso.Y. period 4s	79 24	6		
16822	Sobombok To.	34° 59.9' N 128° 39.9' E	Q.W.	43 13	7	N. CARDINAL BY, beacon, topmark; 46.	
16823 F 4340.85	Chilcheon Bridge.	34° 58.8' N 128° 38.9' E	Iso.W. period 4s	62 19	7	Red round daymark, white stripes.	Iso.R. 4s 19m 4M and Iso.G. 4s 19m 4M mark width of navigable span. Iso.Y. 4s 14m 6M mark bridge pilings.
16824 F 4340.8	Mae Am.	34° 58.3' N 128° 38.9' E	F.I.G. period 4s	31 9	5	PORT (B) G, tower, topmark; 33.	
16826	Buoy "1".	35° 00.3' N 128° 34.8' E	F.I.G. period 4s			PORT (B) G, pillar, topmark.	
RACON							
			M(–)				
16828 F 4341	Hwangdok To.	35° 00.5' N 128° 37.4' E	F.I.W. period 5s	253 77	8	White round concrete structure; 23.	
16829 F 4351.9	Kyok-to.	34° 58.8' N 128° 42.7' E	Q.(3)W. period 10s	56 17	8	E. CARDINAL BYB, beacon, topmark; 52.	
16830 F 4340.9	Samsong, seabirth.	34° 54.6' N 128° 35.8' E	F.I.R. period 4s	27 8	5	Red round fiberglass tower; 13.	
16832 F 4341.4	Yech'im Do.	34° 56.7' N 128° 35.1' E	F.I.W. period 6s	138 42	8	White round concrete tower; 36.	
16836 F 4340.7	Ogapo Hang, N. harbor.	34° 56.2' N 128° 43.3' E	F.I.G. period 4s	33 10	5	White round concrete structure; 26.	
16838 F 4340.75	-E. breakwater.	34° 56.2' N 128° 43.3' E	F.I.R. period 6s	46 14	5	Red octagonal concrete tower; 27.	
16840 F 4340.5	Okp'o Hang, S. breakwater, head.	34° 53.5' N 128° 43.3' E	F.I.G. period 4s	33 10	5	White round concrete structure; 23.	
16844 F 4340.6	-N. breakwater, head.	34° 53.6' N 128° 43.2' E	F.I.R. period 4s	39 12	6	Red round concrete structure; 36.	
16846 F 4340.4	Nungpo Hang, E. breakwater, head.	34° 53.2' N 128° 44.4' E	F.I.G. period 6s	42 13	5	White round concrete tower; 36.	
16847 F 4340.45	-W. breakwater, head.	34° 53.1' N 128° 44.3' E	F.I.R. period 6s	42 13	5	Red round concrete tower; 36.	
16848 F 4340.3	Yangjiam Chwi.	34° 53.5' N 128° 45.2' E	F.I.W. period 6s	190 58	8	White octagonal tower; 28.	
CHANGSUNGPO MAN:							
16852 F 4338	-E. breakwater, head.	34° 51.6' N 128° 43.9' E	F.I.R. period 5s	31 9	5	Red square metal framework tower; 26.	
16856 F 4340	-W. breakwater, head.	34° 51.6' N 128° 43.8' E	F.I.G. period 5s	31 9	5	White square metal framework tower; 26.	
16857 F 4337.3	Chisepo Hang, detatched breakwater, E. head.	34° 49.7' N 128° 42.8' E	F.I.R. period 5s	39 12	5	Red octagonal concrete tower; 29.	
16857.5 F 4337.4	-W. head.	34° 49.7' N 128° 42.5' E	F.I.G. period 5s	39 12	5	White octagonal concrete tower; 29.	
16860 F 4336	Soi Mal.	34° 47.0' N 128° 44.5' E	F.I.W. period 20s	354 108	20	White concrete tower; 25.	Visible 207°-038°. Siren: 2 bl. ev. 60s.
16861	Tadaetap'o Hang, E. breakwater, head.	34° 43.6' N 128° 37.8' E	F.I.R. period 5s	42 13	5	Red octagonal concrete tower; 27.	

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KOREA							
16861.5	-W. breakwater, head.	34° 43.6' N 128° 37.9' E	Fl.G. period 5s	46 14	5	White octagonal concrete tower; 27.	
16862 F 4335	Bugyeo Do.	34° 41.0' N 128° 46.5' E	Fl.(2)W. period 5s	79 24	8	ISOLATED DANGER BRB, tower; 75.	
	RACON		B(-••)		10		
16864 F 4334	Hong Do.	34° 32.0' N 128° 44.1' E	Fl.W. period 10s	384 117	19	White framework structure; 26.	
	RACON		Y(-•--)		10		
16868 F 4322.7	Chwasari Do.	34° 33.2' N 128° 20.7' E	Fl.W. period 4s	177 54	8	White round concrete tower; 24.	
16872 F 4332	Somaemul To.	34° 37.2' N 128° 32.9' E	Fl.W. period 13s	298 91	26	White round concrete tower; 43.	Visible 235°-285°, 295°-305°, 320°-170°. Siren: 1 bl. ev. 50s (bl. 5s, si. 45s).
16874 F 4333	Go Am Island.	34° 29.9' N 128° 28.6' E	Fl.W. period 6s	102 31	8	White octagonal concrete tower; 46.	
	RACON		M(--)		10		
16875 F 4332.5	Sojido.	34° 38.5' N 128° 28.3' E	Fl.W. period 6s	161 49	8	White round tower; 29.	
16875.5	Taebiyongdaedo.	34° 40.9' N 128° 37.6' E	Fl.G. period 5s	85 26	5	PORT (B) G, tower, topmark; 69.	Visible 225°-089°.
16876 F 4331.7	Sokmun-do.	34° 41.4' N 128° 36.1' E	Fl.W. period 5s	56 17	8	White round concrete tower; 27.	
16876.5	Kaodo.	34° 40.7' N 128° 35.0' E	Fl.W. period 6s	56 17	8	White round concrete tower; 39.	
16876.7	Oyudo.	34° 39.3' N 128° 34.5' E	Fl.W. period 6s	52 16	8	White round concrete tower; 39.	
16876.9 F 4331.55	Daepo Hang, breakwater.	34° 43.0' N 128° 35.1' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 27.	
16877 F 4331.6	Mangsangak.	34° 41.2' N 128° 34.6' E	Fl.W. period 5s	49 15	8	White round concrete tower; 25.	
16879 F 4330.2	Kajo-do, breakwater.	34° 57.6' N 128° 31.9' E	Fl.W. period 5s	26 8	8	White round metal tower; 15.	
16880 F 4330	Kajo Do Suido, S. side of strait.	34° 55.1' N 128° 31.8' E	Fl.W. period 3s	112 34	10	White round concrete tower; 31.	
16880.5 F 4330.1	Songpo.	34° 55.3' N 128° 31.4' E	Fl.R. period 6s	33 10	5	Red round concrete tower; 26.	
16881	Norusom.	34° 55.1' N 128° 31.3' E	Fl.G. period 5s	33 10	5	PORT (B) G, tower, topmark; 43.	
16884 F 4322.9	Pu-do.	34° 46.1' N 128° 22.2' E	Fl.W. period 5s	151 46	8	White round concrete tower; 27.	
16886 F 4322.85	Ch'u Do.	34° 45.1' N 128° 18.5' E	Fl.W. period 6s	434 132	8	White round concrete tower; 39.	
16888 F 4322.8	Jeo Do, on islet close W. of Jo Do.	34° 44.7' N 128° 23.7' E	Fl.(2)W. period 5s	29 9	8	ISOLATED DANGER BRB, tower, topmark; 33.	
16892 F 4324	Jo Do, island, N. head.	34° 45.1' N 128° 25.6' E	Fl.W. period 4s	180 55	8	White round concrete tower; 52.	Visible 331°-066°.
16893 F 4322.75	Ogokdo.	34° 43.1' N 128° 25.8' E	Fl.W. period 6s	200 61	8	White hexagonal concrete tower; 37.	

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KOREA							
16894 F 4322.72	P'yongso.	34° 41.4' N 128° 24.3' E	Fl.G. period 4s	49 15	5	PORT (B) G, tower, topmark; 46.	
16896 F 4331.5	Gogsu Sao.	34° 44.8' N 128° 27.7' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, tower, topmark; 29.	
16898 F 4330.7	Pongam Do.	34° 44.8' N 128° 33.7' E	Fl.W. period 6s	72 22	8	White round concrete tower; 43.	
16899 F 4330.8	Pisando.	34° 48.6' N 128° 29.5' E	Fl.G. period 6s	33 10	5	Green round concrete tower; 36.	
16900 F 4331	Cheolcho, on islet close W. of Pongram Do.	34° 45.3' N 128° 30.5' E	Fl.R. period 4s	36 11	6	STARBOARD (B) R, tower, topmark; 33.	
16902 F 4331.25	Changjakji Hang, breakwater.	34° 46.3' N 128° 28.3' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 26.	
16904 F 4330.9	Koje Man.	34° 46.9' N 128° 32.0' E	Fl.W. period 5s	49 15	8	White round concrete tower; 46.	
16908 F 4325	Hansan Hang.	34° 47.9' N 128° 28.3' E	Fl.W. period 4s	42 13	8	Round concrete structure; 42.	
16911 F 4325.4	Taech'o.	34° 49.4' N 128° 27.8' E	Fl.R. period 5s	33 10	5	STARBOARD (B) R, tower, topmark; 33.	
16912 F 4326	Panghwa Do.	34° 50.1' N 128° 27.5' E	Fl.W. period 4s	95 29	8	White square metal tower; 32.	
16914 F 4325.7	Tonam Hang, breakwater, E. head.	34° 49.6' N 128° 26.3' E	Fl.R. period 4s	40 12	5	White octagonal concrete tower; 28.	
16915 F 4325.8	-W. head.	34° 49.7' N 128° 26.2' E	Fl.(2)G. period 6s	40 12	5	White octagonal concrete tower; 28.	
16915.5 F 4325.55	--Breakwater, W. head.	34° 49.9' N 128° 26.1' E	Fl.(2)R. period 6s	40 12	5	Red octagonal concrete tower; 28.	
16915.7 F 4325.5	--E. head.	34° 49.6' N 128° 26.4' E	Fl.G. period 4s	30 9	5	White octagonal concrete tower; 20.	
16916 F 4326.5	Chungmu Hang (Jang Seo).	34° 50.1' N 128° 26.2' E	Q.(6)+L.Fl.W. period 15s	30 9	8	S. CARDINAL YB, beacon, topmark; 34.	
16918 F 4325.9	-N. breakwater.	34° 50.3' N 128° 26.6' E	Fl.R. period 4s	42 13	5	Red round concrete tower; 34.	
16918.5 F 4325.85	-S. breakwater.	34° 50.2' N 128° 26.6' E	Fl.G. period 4s	42 13	5	White round concrete tower; 34.	
16919	Tongyeong, breakwater.	34° 50.3' N 128° 25.8' E	Fl.R. period 5s	30 9	6	Red round steel tower; 17.	
16920 F 4323.6	Tongyeong Hang, No. "7".	34° 50.2' N 128° 25.0' E	Fl.G. period 5s	31 9	8	PORT (B) G, tower, topmark; 52.	
16924 F 4323.8	-No. "8".	34° 50.2' N 128° 25.0' E	Fl.R. period 5s	33 10	8	STARBOARD (B) R, tower, topmark; 52.	
-RACON				C(- • - •)		2	
16928 F 4327	Saso.	34° 50.9' N 128° 27.8' E	Fl.W. period 6s	59 18	8	White round concrete tower; 33.	
16929 F 4326.3	-Ch'ungmu Hang Approach.	34° 50.5' N 128° 27.3' E	Fl.G. period 5s	49 15	5	PORT (B) G, tower, topmark; 37.	
16929.9	Yepo Hang, breakwater.	34° 56.4' N 128° 25.6' E	Fl.G. period 4s	36 11	5	White round concrete tower; 27.	
16930	Kojedo.	34° 56.1' N 128° 26.6' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 33.	

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KOREA							
16931	Anjeong, breakwater.	34° 57.0' N 128° 26.0' E	Fl.R. period 6s	49 15	7		Horn.
16931.1	-Korea Gas Company.	34° 57.0' N 128° 26.4' E	Fl.(4)Y. period 8s	40 12	7		
16932 F 4329	Myongdung Do, N. entrance to Kyonnaeryang Haehyop (Kyonnaeryang Haehyop).	34° 53.7' N 128° 29.0' E	Fl.(2)W. period 6s	95 29	8	White round concrete structure; 39.	Visible 016°-302°.
16936 F 4328	Kyonnaeryang Haehyop (Kyonnaeryang Haehyop).	34° 52.9' N 128° 28.5' E	Fl.G. period 4s	37 11	5	PORT (B) G, tower, topmark; 39.	
16940	Tongyong bridge.	34° 49.9' N 126° 24.4' E	Iso.W. period 4s	66 20	7		
16942 F 4323.1	Shirimmal.	34° 49.6' N 128° 23.2' E	Fl.W. period 6s	56 17	8	White square concrete tower; 36.	
16952 F 4323	Pil To.	34° 51.0' N 128° 20.6' E	Fl.W. period 4s	46 14	8	White round concrete tower; 17.	
16953	Tongeyoung, breakwater.	34° 51.4' N 128° 23.0' E	Fl.R. period 6s	36 11	5	Red round concrete tower; 27.	
16953.5	Kyobon-cho.	34° 42.3' N 128° 18.4' E	Fl.(2)W. period 5s	46 14	10	ISOLATED DANGER BRB, beacon, topmark; 46.	
RACON				K(-•-)	10		(3 & 10 cm).
16954 F 4322.5	Bong Do.	34° 39.9' N 128° 18.3' E	Fl.W. period 6s	351 107	8	White round concrete tower; 36.	
16956 F 4322.6	Yogji Do, W. breakwater.	34° 37.8' N 128° 16.6' E	Fl.R. period 4s	46 14	5	Red octagonal concrete tower; 27.	
16956.3	-E. breakwater.	34° 37.7' N 128° 16.6' E	Fl.G. period 4s	39 12	5	White octagonal concrete tower; 27.	
16956.5 F 4322.65	-S. breakwater.	34° 38.0' N 128° 16.4' E	Fl.(2)Y. period 6s	37 11	7	Yellow octagonal concrete tower; 27.	
16958	Napjakyeo.	34° 39.3' N 128° 20.5' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon; 46.	
16960 F 4322.4	Yogji Do, SW. peak.	34° 36.7' N 128° 14.7' E	Fl.W. period 6s	640 195	14	White round concrete tower; 43.	Visible 269°-146°.
16961	Heukcho.	34° 36.4' N 128° 15.6' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon; 46.	
16962 F 4321.55	Hadaeho Do.	34° 52.5' N 128° 14.8' E	Fl.W. period 6s	154 47	8	White round concrete tower; 39.	
16963 F 4321.8	Maekjonp'o Hang, W. breakwater.	34° 53.7' N 128° 10.1' E	Fl.G. period 6s	33 10	6	White steel staff; 16.	
16963.5	-Inner breakwater, head.	34° 53.8' N 128° 10.1' E	Fl.R. period 6s	39 12	5	Red octagonal concrete tower; 27.	
16964 F 4321	Yulpo Mal.	34° 53.2' N 128° 08.1' E	Fl.W. period 4s	105 32	8	White round circular tower; 18.	Visible 270°-132°.
16965 F 4321.08	Shinsu Hana, N. breakwater.	34° 54.0' N 128° 04.4' E	Fl.G. period 4s	40 12	5	White round concrete tower; 31.	
16966 F 4321.12	-S. breakwater.	34° 53.9' N 128° 04.4' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 31.	
16968 F 4320.45	Chu Do.	34° 54.4' N 128° 05.2' E	Q.(3)W. period 10s	39 12	8	E. CARDINAL BYB, beacon, topmark; 29.	
16972 F 4317	Jeo Do.	34° 56.4' N 128° 01.9' E	Fl.W. period 6s	59 18	8	White round concrete structure; 19.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KOREA							
16974 <i>F 4317.5</i>	Changso.	34° 55.8' N 128° 02.6' E	Fl.G. period 6s	43 13	5	PORT (B) G, beacon, topmark; 56.	
16975 <i>F 4317.7</i>	Nuk-to, E. breakwater.	34° 55.4' N 128° 02.5' E	Fl.G. period 4s	23 7	5	White round steel tower; 15.	
16976 <i>F 4318</i>	-On rock, E. entrance to Chinju Man.	34° 55.3' N 128° 03.3' E	Fl.R. period 5s	42 13	5	STARBOARD (B) R, tower, topmark; 49.	
16978 <i>F 4319.5</i>	Paman.	34° 54.5' N 128° 04.1' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
SAMCHEONPO:							
16984	-Hang Nae, breakwater, head.	34° 55.2' N 128° 04.2' E	Fl.R. period 4s	39 12	9	Red round concrete tower; 26.	
16986 <i>F 4320.2</i>	-Shin Hang.	34° 55.0' N 128° 05.0' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 33.	
16988 <i>F 4320.6</i>	--Range, front.	34° 54.0' N 128° 06.0' E	F.R.	102 31	7	Red square metal framework tower; 82.	Visible 018°-033°.
16992 <i>F 4320.61</i>	--Rear, 370 meters 025°24' from front	34° 54.8' N 128° 06.4' E	F.R.	128 39	7	Black square metal framework tower; 108.	Visible 018°-033°.
16995	-Breakwater, head.	34° 53.8' N 128° 06.3' E	Fl.(2)R. period 6s	36 11	5	Red round fiberglass tower; 22.	
16996 <i>F 4320.5</i>	-Coal pier.	34° 54.0' N 128° 07.0' E	F.R.	33 10	6	Red square metal tower; 13.	
17000 <i>F 4319</i>	-Hang Do.	34° 55.2' N 128° 04.9' E	Fl.W. period 4s	49 15	8	White round concrete tower; 26.	
17004 <i>F 4321.2</i>	Jang Got, on SE point of Ch'angson Do.	34° 49.6' N 128° 05.3' E	Fl.W. period 5s	118 36	8	White round fiberglass structure; 23.	
17006 <i>F 4321.31</i>	Myoso.	34° 52.7' N 128° 11.5' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17008 <i>F 4321.5</i>	Saryang-do.	34° 51.0' N 128° 12.0' E	Fl.W. period 5s	52 16	8	White round concrete tower; 33.	
17008.1	Donji Hang.	34° 50.2' N 128° 10.9' E	Fl.G. period 6s	33 10	5	White round concrete tower; 26.	
17008.5 <i>F 4321.52</i>	Tonggang.	34° 50.3' N 128° 14.3' E	Fl.W. period 4s	197 60	8	White round concrete tower; 24.	
17010 <i>F 4321.58</i>	Neunryang Po, W. breakwater.	34° 48.4' N 128° 14.7' E	Fl.G. period 6s	33 10	5	White round concrete tower; 24.	
17010.5 <i>F 4321.59</i>	-E. breakwater.	34° 48.4' N 128° 14.8' E	Fl.R. period 6s	39 12	5	Red round concrete tower; 31.	
17012 <i>F 4321.45</i>	-Moksokto, entrance to bay.	34° 48.9' N 128° 12.1' E	Fl.R. period 4s	62 19	6	STARBOARD (B) R, tower, topmark; 33.	
17013 <i>F 4321.47</i>	Nammudo.	34° 46.5' N 128° 13.0' E	Q.W.	62 19	7	N. CARDINAL BY, tower, topmark; 56.	
17016 <i>F 4322.95</i>	Paek So.	34° 47.7' N 128° 17.0' E	Fl.(2)W. period 5s	52 16	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17018	Mulgon Hang, N. breakwater.	34° 47.6' N 128° 03.7' E	Fl.R. period 5s	46 14	5	Red round concrete tower; 31.	
17018.5	-S. breakwater.	34° 47.6' N 128° 03.7' E	Fl.G. period 5s	43 13	5	White octagonal concrete tower; 27.	
17020 <i>F 4321.4</i>	Suu Do, island, W. side.	34° 49.7' N 128° 07.7' E	Fl.W. period 7s	56 17	8	White round concrete tower; 32.	Visible 328°-192°.

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KOREA							
17024 <i>F 4322.2</i>	Mijo Nam Hang, W. breakwater.	34° 42.1' N 128° 02.9' E	Fl.G. period 4s	33 10	5	White round concrete tower; 25.	
17028 <i>F 4322.3</i>	-S. breakwater.	34° 42.2' N 128° 03.0' E	Fl.R. period 4s	36 11	6	Red octagonal concrete tower; 29.	
17032 <i>F 4322</i>	Mijo Man, breakwater.	34° 42.8' N 128° 02.9' E	Fl.G. period 5s	29 9	5	White round concrete tower; 20.	
17036 <i>F 4321.6</i>	Jijog.	34° 49.8' N 128° 00.2' E	Fl.R. period 5s	24 7	3	STARBOARD (B) R, beacon, topmark.	
17040 <i>F 4315</i>	Koki To.	34° 56.8' N 127° 58.0' E	Fl.W. period 5s	89 27	8	White round concrete tower; 98.	
17044 <i>F 4314</i>	Namhae Do, island, N. head.	34° 56.7' N 127° 53.6' E	Fl.(2)W. period 6s	36 11	8	White round tower; 25.	Visible 075°-282°.
17046 <i>F 4311.8</i>	Wado Island.	34° 56.2' N 127° 51.5' E	Fl.W. period 5s	62 19	8	White round concrete tower; 33.	Visible 326°-261°.
17047	Noryang.	34° 55.9' N 127° 51.4' E	Fl.R. period 5s	36 11	5	STARBOARD (B) R, beacon, topmark; 43.	
17048 <i>F 4311.6</i>	Wa Gi.	34° 55.0' N 127° 50.0' E	Fl.(2)G. period 6s	29 9	3	PORT (B) G, beacon, topmark.	
17050 <i>F 4311.65</i>	Hadong Hukki.	34° 56.5' N 127° 50.1' E	Fl.W. period 4s	33 10	8	White square steel tower; 24.	
17051 <i>F 4311.7</i>	-Seabерth "A".	34° 56.4' N 127° 49.6' E	Fl.Y. period 4s	39 12	7	SPECIAL Y, tower, topmark; 15.	Horn: bl. ev. 50s (bl. 5s, si. 45s).
17051.5 <i>F 4311.75</i>	--"B".	34° 56.6' N 127° 49.7' E	Fl.Y. period 4s	39 12	7	SPECIAL Y, tower, topmark; 15.	
17052 <i>F 4312</i>	Noryangjin.	34° 56.7' N 127° 51.6' E	Fl.W. period 6s	43 13	5	White square tower; 30.	Visible 253°-100°.
17053	Noryang sudo Bridge, N. span.	34° 56.5' N 127° 52.5' E	F.W.	77 23	7	White round daymark, red stripes.	F.R., F.G. and F.Y. mark bridge pilings.
17053.5	-S. span.	34° 56.4' N 127° 52.5' E	F.W.	77 23	7	White round daymark, red stripe.	F.R., F.G and F.Y. mark bridge pilings.
17056 <i>F 4311</i>	Umo So.	34° 53.0' N 127° 48.9' E	Fl.R. period 6s	33 10	6	STARBOARD (B) R, beacon, topmark.	
17058 <i>F 4311.73</i>	<i>Korea Electric Pier, Buoy "11".</i>	34° 56.0' N 127° 49.2' E	Fl.G. period 4s			PORT (B) G, pillar, topmark.	
RACON							
		X(-••-)					
17058.1 <i>F 4311.73</i>	Korea Electric Pier, seabерth.	34° 56.5' N 127° 49.3' E	Fl.(4)Y. period 8s	39 12	7	Yellow round steel tower; 14.	
17058.2	-Buoy "8".	34° 54.5' N 127° 48.8' E	Fl.R. period 4s			STARBOARD (B) R, pillar, topmark.	
-RACON							
		Y(-•-)					
17058.5 <i>F 4308.15</i>	-Buoy "3".	34° 56.0' N 127° 49.5' E	Fl.G. period 4s			PORT (B) G, pillar, topmark.	
-RACON							
		T(-)					
17060 <i>F 4311.4</i>	Umsu Do.	34° 54.4' N 127° 49.6' E	Fl.R. period 5s	32 10	6	STARBOARD (B) R, beacon, topmark; 31.	
17063 <i>F 4308.15</i>	Jakdo.	34° 25.0' N 127° 54.2' E	Fl.W. period 10s	390 119	8	Square steel tower; 66.	
17064 <i>F 4308</i>	<i>Sori Do.</i>	34° 25.0' N 127° 48.0' E	Fl.W. period 12s	269 82	23	White hexagonal concrete structure; 30.	Visible 231°-110°. Siren: 1 bl. ev. 54s.

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KOREA							
17066 F 4308.05	-W. side.	34° 25.6' N 127° 47.2' E	Fl.G. period 6s	36 11	3	PORT (B) G, beacon, topmark.	
17068 F 4307.3	Kumong-am.	34° 28.2' N 127° 46.1' E	Fl.W. period 5s	69 21	8	White octagonal concrete tower; 33.	
17069 17069.1	Ando Hang, E. breakwater. -W. breakwater.	34° 28.5' N 127° 47.8' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 26.	
17069.5	Suri Do.	34° 28.4' N 127° 47.8' E	Fl.G. period 5s	43 13	5	Green round concrete tower; 26.	
17072 F 4307.5	An Do, (Paekkum).	34° 27.6' N 127° 48.5' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 26.	
17074 F 4307.7	Soyu.	34° 29.7' N 127° 49.7' E	Fl.W. period 6s	71 22	8	White octagonal tower; 29.	
17074.5	Huso.	34° 31.4' N 127° 46.6' E	Q.(3)W. period 10s	39 12	8	E. CARDINAL BYB, beacon, topmark; 43.	
17075 F 4307.8	Sohoenggando.	34° 31.7' N 127° 47.1' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17080 F 4308.2	Ganyeo Am.	34° 33.6' N 127° 46.1' E	Fl.W. period 6s	237 72	8	White octagonal concrete tower; 33.	
	RACON		Y(-•--)		11		
17084 F 4308.3	Sejondo.	34° 29.8' N 128° 05.2' E	Fl.W. period 12s	73 22	8	White round concrete tower; 39.	
17088 F 4308.35	Gudoi Seo.	34° 37.1' N 128° 07.2' E	Fl.W. period 6s	132 40	8	White round concrete tower; 46.	
17090	Mijo-gundo.	34° 40.8' N 128° 03.7' E	Fl.R. period 5s	66 20	5	STARBOARD (B) R, beacon, topmark; 49.	Visible 096°30'-248°.
17092 F 4308.9	Baeg So.	34° 37.7' N 127° 59.8' E	Fl.W. period 6s	85 26	8	White round concrete structure; 28.	
	RACON		Q(--•-)		10		
17096 F 4308.94	Kumsan.	34° 42.4' N 127° 59.0' E	Fl.(2)W. period 6s	203 62	3	White round concrete tower; 30.	Visible 298°-089°.
17100 F 4308.8	Dae Do.	34° 40.4' N 127° 57.0' E	Fl.W. period 10s	187 57	17	White round concrete structure; 24.	Visible 251°-168°.
17102	Oechi-do.	34° 41.7' N 127° 53.1' E	Fl.(2)W. period 5s			ISOLATED DANGER BRB, pillar, topmark.	
	RACON		N(-•)				
17104 F 4309	Yosu Hang.	34° 42.0' N 127° 47.4' E	Fl.W. period 5s	377 115	8	White octagonal concrete tower;	Visible 176°-352°. 29.
17108 F 4309.4	U Am.	34° 42.9' N 127° 48.0' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark.	
17112 F 4310.2	P'yongsan.	34° 44.8' N 127° 50.4' E	Fl.W. period 5s	194 59	8	White round concrete structure;	Visible 320°-166°. 27.
17116 F 4310	Odong Do.	34° 44.5' N 127° 46.2' E	Fl.W. period 10s	200 61	25	White octagonal concrete tower; Horn: 1 bl. ev. 30s. 82.	
17120 F 4309.8	Yang Am.	34° 44.6' N 127° 46.8' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, tower, topmark; 30.	

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KOREA							
17124 <i>F 4310.6</i>	Sam Gi.	34° 47.7' N 127° 49.1' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, beacon, topmark.	
	RACON		K(-•-)		11		
17126 <i>F 4310.3</i>	Yosu Hang, N. breakwater.	34° 44.8' N 127° 45.8' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 33.	
17128 <i>F 4310.4</i>	Yosu Hang, No. "2" breakwater, N. head.	34° 44.8' N 127° 45.2' E	Fl.G. period 5s	43 13	5	White round concrete structure; 33.	
17132 <i>F 4310.5</i>	-No. "2" Breakwater, S. head.	34° 44.6' N 127° 45.2' E	Fl.R. period 5s	43 13	6	Red round concrete structure; 33.	
17134	-Bridge, center span.	34° 43.6' N 127° 44.1' E	F.W.	66 20	7		F.R., F.G. and F.Y mark bridge pilings.
17136 <i>F 4310.57</i>	Changgundo.	34° 43.8' N 127° 44.2' E	Fl.(2)W. period 6s	36 11	8	White octagonal concrete tower; 33.	
17140 <i>F 4310.54</i>	Yosu Gu Hang.	34° 44.1' N 127° 44.1' E	Fl.G. period 4s	33 10	5	White round fiberglass structure; 24.	
17144 <i>F 4310.7</i>	Sang Tan.	34° 51.0' N 127° 49.0' E	Fl.(2)W. period 6s	36 11	3	White metal concrete structure;	Visible 346°-204°.
17148 <i>F 4308.72</i>	-Ya Do.	34° 43.1' N 127° 42.9' E	Fl.R. period 4s	36 11	6	Round red tower; 24.	
17152 <i>F 4308.74</i>	-Ammog Do.	34° 42.4' N 127° 41.9' E	Fl.W. period 5s	79 24	8	White round concrete tower; 25.	
17154	Hwataedo.	34° 34.6' N 127° 44.6' E	Fl.G. period 6s	36 11	5	PORT (B) G, tower, topmark; 36.	
17156 <i>F 4308.4</i>	Taehoenggan Do.	34° 34.7' N 127° 45.2' E	Q.(9)W. period 15s	33 10	5	W. CARDINAL YBY, beacon, topmark; 30.	
17160 <i>F 4308.5</i>	Kumsong.	34° 35.3' N 127° 45.4' E	Fl.R. period 6s	33 10	5	STARBOARD (B) R, tower, topmark; 33.	
17165 <i>F 4308.55</i>	Hajungdo.	34° 36.8' N 127° 42.8' E	Fl.R. period 4s	33 10	5		
17170	-Tanker terminal No. "1".	34° 51.3' N 127° 46.6' E	Fl.Y. period 4s	23 7	7	SPECIAL Y, tower, topmark; 15.	Horn: 1 bl. ev. 30s.
17171	--No. "2".	34° 51.7' N 127° 46.4' E	Fl.Y. period 4s	23 7	7	SPECIAL Y, tower, topmark; 15.	
17171.5 <i>F 4310.8</i>	-Nakpo.	34° 51.6' N 127° 45.9' E	Dir.F.W.R.G.	118 36	W. 21 R. 18 G. 18	White quadrangular steel tower; 115.	R. 161°36'-163°12', W- 164°48', G.-166°24'.
	-RACON.		B(-••)		8		
17172 <i>F 4310.86</i>	Yeosu Hojeong, fog signal.	34° 50.8' N 127° 47.0' E					Horn: 1 bl. ev. 25s.
17173	Seaberth, S.	34° 50.5' N 127° 46.9' E	Fl.Y. period 4s	46 14	7	Yellow steel tower; 23.	
17173.5	-N.	34° 50.8' N 127° 46.9' E	Fl.Y. period 4s	46 14	7	Yellow steel tower; 23.	
17173.7	-Hangumi.	34° 50.3' N 127° 47.2' E	Q.(3)W. period 10s		7	E. CARDINAL BYB, pillar, topmark.	
	-RACON		N(-•)				
17174	Myodo Sudo, fog signal.	34° 51.6' N 127° 44.5' E					Horn: 1 bl. ev. 20s.
17174.5	-Honamjongyu, fog signal.	34° 51.6' N 127° 43.7' E					Horn: 1 bl. ev. 20s.

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KOREA							
17188 F 4310.9	-Myodo Sudo (Honam Hwaryok) Range, front.	34° 51.1' N 127° 44.4' E	F.R.	79 24	10 66.	White metal framework tower;	Visible 176°-184°.
17192 F 4310.91	--Rear, 160 meters 180° from front.	34° 51.1' N 127° 44.2' E	F.R.	98 30	10 85.	White metal framework tower;	Visible 176°-184°.
17196 F 4310.94	-Honam Hwaryok Range, front.	34° 51.0' N 127° 44.1' E	F.R.	92 28	10 79.	White metal framework tower;	Visible 197°-205°.
17200 F 4310.95	--Rear, 115 meters 201° from front.	34° 51.2' N 127° 44.0' E	F.R.	102 31	10 89.	White metal framework tower;	Visible 197°-205°.
17200.2	Kwangyang "A".	34° 51.5' N 127° 42.5' E	Fl.Y. period 4s	26 8	7	Yellow square steel tower; 13.	Horn: 1 bl. ev. 25s.
RACON							
17200.5	"B".	34° 51.5' N 127° 42.4' E	Fl.Y. period 4s	26 8	7	Yellow square steel tower; 13.	
17200.8 F 4310.82	Kwangyang Passage III.	34° 52.9' N 127° 45.6' E	Fl.(2)R. period 6s	59 18	6	Red round concrete tower; 78.	
RACON							
17201 F 4310.97	-Myodo Yudmal.	34° 53.0' N 127° 44.6' E	Dir.F.W.R.G.	118 36	W. R. G.	21 18 18	White quadrangular steel tower; R. 302°36'-304°12', W.-305°48', G.-307°24'.
-RACON							
17205	Kwangyang Hang Bridge.	34° 57.6' N 127° 45.2' E	F.W.	56 17	7	Red round daymark, white stripes.	F.R. 17m 5M and F.G. 17m 4M mark width of navigable span. F.Y. 17m 6M mark bridge pilings.
17205.1	Somjindaegyo Bridge.	34° 57.2' N 127° 46.3' E	F.W.	33 10	7	Red round daymark, white stripes.	F.R. 10m 7M and F.G. 10m 4M mark width of navigable span. F.Y. 10m 6M mark bridge pilings.
17212 F 4308.6	Yo Ch'o.	34° 41.1' N 127° 42.0' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, beacon, topmark; 28.	
17215	Horido.	34° 35.0' N 127° 40.7' E	Q.W.	40 12	8	N. CARDINAL BY, beacon, topmark; 26.	
17216 F 4306	Paegya Do, island, E. head.	34° 37.0' N 127° 39.0' E	Fl.W. period 20s	164 50	22	White round concrete structure; 46.	Visible 157°-070°. Horn: 1 bl. ev. 40s.
17218 F 4305.5	Yuja Man.	34° 47.0' N 127° 31.5' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17219 F 4305.4	Chokkum-do.	34° 37.6' N 127° 31.5' E	Fl.W. period 6s	62 19	8	White octagonal concrete tower; 36.	
17220 F 4305	Nang Do.	34° 35.5' N 127° 33.1' E	Fl.W. period 5s	69 21	8	White octagonal concrete tower; 30.	Visible 233°-097°.
17222 F 4305.6	Changgu Do.	34° 35.6' N 127° 36.3' E	Fl.R. period 4s	43 13	5	STARBOARD (B) R, beacon, topmark; 49.	
17224 F 4307	Koso.	34° 32.5' N 127° 39.0' E	Fl.W. period 6s	110 34	8	White octagonal concrete tower; 30.	
17226	Yongdu-san.	34° 32.3' N 127° 41.7' E	Fl.W. period 6s	49 15	8	White round concrete tower; 36.	Visible 325°-247°.
17227 F 4299.72	Chijuk-to.	34° 26.5' N 127° 19.0' E	Q.(6)W.+L.Fl.W. period 15s	52 16	8	S. CARDINAL YB, beacon, topmark; 69.	
17228 F 4297	Sisan Do.	34° 22.5' N 127° 16.6' E	Fl.W. period 12s	121 37	8	White round concrete tower; 20.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KOREA							
17229.2	Shisando, W. breakwater.	34° 23.8' N 127° 15.8' E	Fl.(3)G. period 7s	36 11	5	White octagonal concrete tower; 27.	
17229.4 F 4297.3	-S. breakwater.	34° 23.8' N 127° 16.0' E	Fl.G. period 4s	52 16	5	White octagonal concrete tower; 33.	
17229.5	-E. breakwater.	34° 23.5' N 127° 16.0' E	Fl.R. period 5s	36 11	5	Red octagonal concrete tower; 27.	
17230 F 4297.4	-Island, N. head.	34° 24.7' N 127° 14.7' E	Fl.W. period 6s	177 54	8	White round concrete tower; 25.	Visible 351°-286°.
17230.5	Pungnam, N. breakwater.	34° 31.0' N 127° 15.0' E	Fl.R. period 5s	36 11	5	Red round steel tower; 23.	
17230.51	-S. breakwater.	34° 31.2' N 127° 15.0' E	Fl.Y. period 4s	36 11	7	Yellow round steel tower; 23.	
17231	-Chuinyo.	34° 27.0' N 127° 33.9' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 30.	
17232 F 4300.4	Sonjug Do.	34° 17.5' N 127° 21.2' E	Fl.W. period 5s	42 13	8	White round concrete tower; 27.	
17233 F 4296.8	Podunaji.	34° 18.8' N 127° 14.4' E	Fl.(2)W. period 6s	262 80	8	White round concrete tower; 33.	
17234	Cho Do, N. breakwater.	34° 14.4' N 127° 14.4' E	Fl.G. period 5s	59 18	5	White octagonal concrete tower; 42.	
17236 F 4295	Cho Do.	34° 12.6' N 127° 15.9' E	Fl.W. period 6s	184 56	8	White round tower; 24.	
17237	Nangdo Hang, breakwater.	34° 36.2' N 127° 32.0' E	Fl.Y. period 6s	39 12	7	Yellow round steel tower; 26.	
17240 F 4294.5	Yokman-do.	34° 11.0' N 127° 21.0' E	Fl.W. period 9s	69 21	8	White round concrete tower; 19.	
17244 F 4286	Geomun Do.	34° 00.5' N 127° 19.3' E	Fl.W. period 15s	226 69	23	White round brick structure; 21.	Visible 197°-109°. Every other flash intensified. Siren: 1 bl. ev. 50s. Radiobeacon. DGPS Station.
17246 F 4293	Man Am.	34° 04.5' N 127° 18.8' E	Fl.(2)W. period 5s	40 12	5	ISOLATED DANGER BRB, beacon, topmark; 36.	
17248 F 4292	Nogsan Got.	34° 04.0' N 127° 18.0' E	Fl.W. period 6s	292 89	8	White concrete column; 30.	Visible 075°-266°.
17249	Komundo Hang Bridge, center span.	34° 01.4' N 127° 18.5' E	F.W.	36 11	7	White round daymark, red stripe.	F.R. 7m 5M and F.G. 7m 4M mark limits of navigable span.
17250 F 4290.2	Komondo Hang, W. breakwater.	34° 01.5' N 127° 18.6' E	Fl.G. period 5s	33 10	5	White concrete column, 23.	
17251 F 4286.5	-E. breakwater.	34° 01.6' N 127° 18.8' E	Fl.G. period 4s	72 22	5	White octagonal concrete tower; 30.	
17252 F 4287	-S. breakwater.	34° 01.8' N 127° 18.7' E	Fl.R. period 4s	43 13	5	Red octagonal concrete tower; 29.	
17260 F 4294	Habaeg Do.	34° 03.4' N 127° 35.0' E	Fl.W. period 6s	525 160	18	White square concrete tower; 25.	
RACON				G (- - •)		10	
17261	Muhakto.	34° 19.3' N 127° 19.2' E	Fl.W. period 6s	36 11	8	White round concrete tower; 23.	Visible 304°-048°.
17262	Chimudo.	34° 19.8' N 127° 22.7' E	Fl.(2)W. period 6s	78 24	8	White round concrete tower; 56.	Visible 076°-279°.

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KOREA							
17264 <i>F 4300.6</i>	Daeduyeoog Seo.	34° 14.3' N 127° 32.2' E	Fl.W. period 5s	112 34	17	White round concrete tower; 20.	
17268 <i>F 4302</i>	Tanggeon Yeo.	34° 22.0' N 127° 30.8' E	Fl.W. period 10s	154 47	18	White round concrete structure; 27.	
	RACON		T(-)		10		
17272 <i>F 4304</i>	Naenaro Do.	34° 29.3' N 127° 30.4' E	Fl.W. period 5s	328 100	8	White round concrete structure; 18.	Visible 157°-333°.
17272.5 <i>F 4298.5</i>	Gyedo.	34° 29.5' N 127° 14.1' E	Fl.W. period 4s	46 14	8	White hexagonal concrete tower; 39.	
17273	Naebal Hang.	34° 28.6' N 127° 20.7' E	Fl.G. period 5s	36 11	5	White octagonal concrete tower; 27.	
17280 <i>F 4300</i>	Sayang Do.	34° 28.0' N 127° 26.6' E	Fl.W. period 5s	210 64	8	White round concrete structure;	Visible 237°-088°. 34.
17280.5 <i>F 4300.35</i>	Naro Yeoldo bridge, center span.	34° 28.6' N 127° 27.5' E	F.W.	85 26	7	White round daymark, red stripes.	F.R. 22m 5M and F.G. 22m 5M mark limits of navigable span.
17282 <i>F 4300.3</i>	Samam.	34° 29.2' N 127° 26.5' E	Q.(9)W. period 15s	43 13	8	W. CARDINAL YBY, beacon, topmark; 39.	
17283	Naroyolto, bridge.	34° 30.9' N 127° 26.1' E	F.G.	39 12	4		
17284 <i>F 4301</i>	Oenaro Do, NW. side, W. breakwater.	34° 27.3' N 127° 27.1' E	Fl.G. period 6s	62 19	5	White square steel tower; 8.	
17288	Narodo bridge, center span.	34° 28.5' N 127° 27.6' E	F.G.	79 24	4		Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17290 <i>F 4295.5</i>	Hwangjedo.	34° 11.4' N 127° 04.9' E	Fl.W. period 5s	171 52	18	White round concrete tower; 33.	Visible 152°-002°.
17291 <i>F 4295.7</i>	-W. end of island.	34° 11.2' N 127° 04.4' E	Fl.(2)W. period 6s	85 26	8	White hexagonal metal tower; 20.	Visible 334°-208°.
17291.3	Satong Hang, S. breakwater.	34° 19.8' N 127° 04.9' E	Fl.(2)R. period 6s	39 12	5	Red octagonal tower; 26.	
17291.35	-N. breakwater.	34° 19.9' N 127° 04.9' E	Fl.G. period 6s	39 12	5	White octagonal tower; 26.	
17292 <i>F 4296</i>	Sopto.	34° 18.0' N 127° 07.9' E	Fl.W. period 10s	171 52	18	White round concrete structure;	Visible 197°-097°. 15.
	RACON		C(-•-•)		10		
17292.5	Taebyong Pungdo.	34° 16.8' N 127° 09.6' E	Fl.W. period 6s	46 14	8	White round concrete tower; 31.	
17293	Sadong Hang, W. breakwater.	34° 19.9' N 127° 04.9' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 28.	
17294 <i>F 4297.8</i>	Sorokdo.	34° 30.4' N 127° 05.7' E	Q.(9)W. period 15s			W. CARDINAL YBY, beacon, topmark; 56.	
17296 <i>F 4298</i>	Sorok To, S. extremity.	34° 30.0' N 127° 07.0' E	Fl.W. period 4s	108 33	8	White round brick tower; 24.	Visible 258°-117°.
17298 <i>F 4299.2</i>	Nokdong Hang, N. breakwater.	34° 31.5' N 127° 07.5' E	Fl.(2)G. period 6s	39 12	5	White octagonal concrete tower; 27.	
17298.1	-N. breakwater.	34° 31.3' N 127° 07.5' E	Fl.G. period 4s	33 10	5	White octagonal concrete tower, 27.	
17298.5 <i>F 4299.6</i>	-S. breakwater.	34° 31.1' N 127° 08.3' E	Fl.G. period 5s	36 11	5	White octagonal concrete tower; 27.	

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KOREA							
17299 F 4299.4	--N. detached breakwater.	34° 31.4' N 127° 07.4' E	Fl.(2)R. period 6s	36 11	5	Red octagonal concrete tower; 26.	
17300 F 4299	Nuydong Hangy, E. breakwater, head.	34° 31.2' N 127° 08.3' E	Fl.R. period 5s	36 11	6	Red round concrete tower; 26.	
17301 F 4281.7	Kumdang Do.	34° 27.1' N 127° 01.6' E	Fl.W. period 6s	164 50	8	White round concrete tower; 32.	Visible 035°-252°.
17301.5 F 4279.6	Odongdo.	34° 26.5' N 127° 05.6' E	Fl.W. period 5s	128 39	8	White octagonal concrete tower; 46.	Visible 117°-156°, 299°-013°.
17302 F 4281.6	Kongdaejisan.	34° 21.9' N 126° 57.0' E	Fl.W. period 6s	92 28	8	White round concrete tower; 36.	Visible 230°-066°.
17303 F 4281.65	Tooduji.	34° 24.7' N 126° 57.4' E	Fl.W. period 4s	115 35	8	White round concrete tower; 32.	Visible 073°-350°.
17304 F 4281	Shinchi Do.	34° 19.1' N 126° 47.6' E	Fl.W. period 4s	121 37	8	White round concrete structure; 20.	
17304.5	Molso.	34° 18.9' N 126° 46.4' E	Fl.G. period 6s	36 11	5	PORT (B) G, beacon, topmark; 39.	Visible 095°-348°.
17305 F 4280.4	Wando Hang, breakwater.	34° 19.3' N 126° 45.3' E	Fl.(2)R. period 6s	33 10	5	Red square metal tower; 30.	
17306 F 4281.8	Kkamaksom.	34° 26.6' N 126° 48.9' E	Q.(6)+L.Fl.W. period 15s	36 11	8	S. CARDINAL YB, beacon, topmark; 36.	
17307 F 4281.9	Maryang Hang, E. breakwater.	34° 26.7' N 126° 49.5' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 28.	
17307.5	-Center breakwater.	34° 26.7' N 126° 49.5' E	Fl.G. period 4s	36 11	5	White round concrete tower; 28.	
17308 F 4281.4	Sodogu Do.	34° 17.0' N 127° 00.0' E	Fl.W. period 6s	105 32	8	White round concrete tower; 16.	
17309	Togudo.	34° 15.1' N 127° 00.7' E	Fl.W. period 5s	75 23	8	White octagonal concrete tower; 26.	
17310	Toryongnangdo.	34° 18.2' N 127° 00.2' E	Fl.W. period 4s	66 20	8	White octagonal concrete tower; 27.	Visible 235°-080°.
17312 F 4281.2	Mohwang Do.	34° 16.9' N 126° 54.0' E	Fl.(2)W. period 6s	164 50	8	White round concrete tower; 16.	
17316 F 4284	Yoso Do.	33° 59.1' N 126° 55.3' E	Fl.W. period 10s	292 89	18	White round concrete structure; 26.	Visible 046°-267°.
17316.5	Yoso Do, W. breakwater.	33° 59.3' N 126° 55.3' E	Fl.R. period 5s	43 13	5	Red octagonal concrete tower; 26.	
17320 F 4279.4	Hoenggan Do.	34° 15.0' N 126° 37.0' E	Fl.W. period 4s	121 37	8	White round concrete tower; 16.	
17320.5 F 4278.16	Yongjon Hang, E. breakwater.	34° 20.1' N 126° 36.2' E	Fl.R. period 6s	30 9	5	Red hexagonal steel tower; 19.	
17321	Haeman Pando.	34° 20.3' N 126° 36.3' E	Fl.Y. period 6s	26 8	7	SPECIAL Y, beacon; 19.	
17321.5	Tal to bridge, center span.	34° 24.1' N 126° 37.6' E	F.W.	16 5	7	White round daymark, red stripes.	F.R. 5m 5M and F.G. 5m 4M mark limits of navigable span.
17322 F 4279.45	Yongjoncho.	34° 14.3' N 126° 39.3' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 56.	
17324 F 4279.5	Kaksi So.	34° 12.8' N 126° 38.8' E	Fl.(2)W. period 5s	30 9	8	ISOLATED DANGER BRB, beacon, topmark; 27.	
17326 F 4279.7	Sokto.	34° 10.3' N 126° 37.7' E	Q.(3)W. period 10s	33 10	8	E. CARDINAL BYB, beacon, topmark; 36.	

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KOREA							
17327	Soan Hang, W. breakwater.	34° 09.0' N 126° 38.0' E	Fl.R. period 5s	46 14	5	Red octagonal concrete tower; 28.	
17327.1	-N. breakwater.	34° 09.1' N 126° 38.0' E	Fl.G. period 5s	43 13	5	Green octagonal concrete tower; 28.	
17328 F 4280.5	Meeruum.	34° 16.2' N 126° 45.4' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17332 F 4280	Somo Do, NW. extremity of island.	34° 13.5' N 126° 46.2' E	Fl.W. period 4s	216 66	8	White round concrete structure; Visible 031°-276°. 18.	
17336 F 4283.4	Chunsan To, S. breakwater.	34° 10.7' N 126° 51.2' E	Fl.R. period 6s	32 10	6	Red round concrete tower; 23.	
17338 F 4283.6	-N. breakwater.	34° 10.7' N 126° 51.3' E	Fl.G. period 6s	49 15	5	White round concrete tower; 30. Visible 039°-141°.	
17340 F 4282	Jagae Do.	34° 06.0' N 126° 36.0' E	Fl.W. period 20s	312 95	19	White round concrete structure; Visible 197°-107°. 27.	Siren: 1 bl. ev. 48s. Sounds in answer to vessel's signals. Signal station.
17341	Churuncho.	34° 04.4' N 126° 31.1' E	Fl.(2)W. period 10s	66 20	8	ISOLATED DANGER BRB, beacon, topmark; 78.	
RACON				C(- • - •)		10	(3 & 10 cm).
17344 F 4277.8	Heonggan Do.	34° 00.7' N 126° 19.6' E	Fl.W. period 10s	82 25	18	White round concrete tower; 32.	
17346 F 4275.6	Chuja Hang.	33° 57.7' N 126° 18.4' E	Fl.(2)R. period 6s	43 13	8	Red round concrete tower; 49.	
17348 F 4276	Chuja Kundo, on Sangchua Do.	33° 57.4' N 126° 18.3' E	Fl.G. period 5s	46 14	5	PORT (B) G, tower, topmark; 39.	
17352 F 4277	-Chuja Hang, breakwater, head.	33° 57.7' N 126° 18.1' E	Fl.R. period 4s	52 16	9	Red round concrete tower; 36.	
17356	Chuja Kundo.	33° 57.0' N 126° 18.0' E	Fl.W. period 20s	432 132	21	White hexagonal concrete tower; Visible 135°-277°, 292°-113°. 22.	Horn: 1 bl. ev. 40s.
17360 F 4275	Chuja Do Kamegyeo.	33° 57.4' N 126° 19.9' E	Q.W.	49 15	8	N. CARDINAL BY, tower, topmark; 33.	
17364 F 4277.9	Mang Do.	33° 59.5' N 126° 23.6' E	Fl.(2)W. period 9s	246 75	8	White round concrete tower; 28.	
17366	-Breakwater, head.	33° 56.2' N 126° 19.9' E	Fl.R. period 5s	52 16	5	Red round concrete tower; 33.	
17366.5 F 4274.85	-S. breakwater.	33° 56.2' N 126° 19.8' E	Fl.G. period 6s	46 14	5	White round concrete tower; 33.	
17368 F 4274.7	Bang Seo.	33° 55.3' N 126° 23.9' E	Fl.W. period 6s	82 25	8	White round concrete tower; 36.	
17372 F 4274.65	Hwa Do.	33° 43.9' N 126° 21.6' E	Fl.W. period 5s	302 92	17	White square concrete tower; 23.	
RACON				K(- • -)		10	
17376 F 4266	Sanchi.	33° 31.3' N 126° 32.7' E	Fl.W. period 15s	236 72	26	White round concrete tower; 59. Visible 071°-252°. Storm signals. Horn: 1 bl. ev. 50s. Radiobeacon 755 meters SSW.	
17380 F 4266.5	-Jeju Hang, breakwater, head.	33° 31.7' N 126° 32.6' E	Fl.R. period 5s	66 20	13	Red round concrete tower; 49.	
-RACON				C(- • - •)		10	
17381 F 4267	--Inner W. breakwater, head.	33° 31.2' N 126° 32.3' E	Fl.(2)R. period 6s	36 11	5	Red round steel column; 26.	

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KOREA							
17382 F 4267.5	--Outer port, E. breakwater, head.	33° 31.6' N 126° 32.6' E	Fl.G. , period 5s	36 11	9	White metal column; 26.	
17392	-AVIATION LIGHT.	33° 30.9' N 126° 29.3' E	Al.Fl.W.G. , period 5s	148 45			
17393 F 4265.7	-Dudo Hang, N. breakwater.	33° 30.5' N 126° 27.9' E	Fl.G. , period 6s	50 15	8	White round concrete tower; 33.	
17393.5	-S. breakwater.	33° 30.4' N 126° 28.0' E	Fl.R. , period 6s	62 19	9	Red octagonal concrete tower; 39.	
17396 F 4269	-Hwabuk Hong, W. breakwater, head.	33° 31.3' N 126° 33.9' E	Fl.R. , period 5s	39 12	6	Red round concrete structure; 20.	
17396.3	Samyang, No. "1" breakwater.	33° 32.0' N 126° 35.2' E	Fl.R. , period 4s	46 14	5	Red round pipe; 26.	
17396.4	-No "3".	33° 31.7' N 126° 34.7' E	Fl.R. , period 4s	43 13	5	Red round pipe; 26.	
17396.5	Korean Electric "A".	33° 31.9' N 126° 35.7' E	Fl.(2)Y. , period 6s	46 14	6	SPECIAL Y. tower.	Beacon "B" Fl.(2)Y.6s 14m 6M close W.
17396.8 F 4269.28	Sinchon Hang, E. breakwater.	33° 32.3' N 126° 37.0' E	Fl.G. , period 5s	36 11	5	White round metal tower; 26.	
17397 F 4269.3	Shinhungkwaggoch.	33° 33.1' N 126° 38.8' E	Fl.W. , period 6s	42 13	8	White octagonal concrete tower; 33.	
17398 F 4283.8	Changsodo.	33° 55.1' N 126° 38.5' E	Fl.W. , period 6s	276 84	16	White octagonal concrete tower; 36.	
17400 F 4269.5	-Talso.	33° 33.5' N 126° 41.8' E	Fl.(2)W. , period 6s	46 14	8	White octagonal tower; 33.	
17401	-W. breakwater.	33° 32.9' N 126° 41.8' E	Fl.R. , period 5s	33 10	5	Red round steel tower; 26.	
17402	-Kimnyong Hang, W. breakwater.	33° 33.5' N 126° 44.6' E	Fl.R. , period 6s	59 18	5		
17402.1 F 4269.9	--E. breakwater.	33° 33.6' N 126° 44.4' E	Fl.G. , period 6s	52 16	5	White round concrete tower; 36.	
17404 F 4270	-Haengwon-Ri, W. breakwater, head.	33° 33.4' N 126° 48.4' E	Fl.R. , period 4s	39 12	6	Red round concrete tower; 23.	
17407 F 4270.1	-Pyeongdae Hang, E. breakwater.	33° 32.2' N 126° 50.5' E	Fl.R. , period 5s	36 11	5	Red round metal tower; 26.	
17408 F 4270.2	-Sehwa Hang, E. breakwater, head.	33° 31.5' N 126° 51.6' E	Fl.G. , period 4s	42 13	5	White round fiberglass tower; 27.	
17412 F 4271	Pandatan.	33° 31.3' N 126° 54.6' E	Fl.R. , period 6s	43 13	5	Red octagonal tower; 33.	
17414	U do, Tuksaenggot.	33° 31.3' N 126° 57.3' E	Fl.(2)W. , period 6s	52 16	8	White octagonal concrete tower; 43.	
17416 F 4272.2	-U Do.	33° 30.9' N 126° 58.4' E	Q.(3)W. , period 10s	46 14	8	E. CARDINAL BYB, beacon, topmark; 43.	
17420 F 4272	-U Do.	33° 29.0' N 126° 58.0' E	Fl.W. , period 20s	404 123	20	White round brick tower; 25.	Visible 042°-019°. Siren: 2 bl. ev. 52s.
17424 F 4272.3	-E. breakwater.	33° 28.7' N 126° 56.2' E	Fl.G. , period 4s	56 17	8	White round concrete tower; 49.	
17425	-S. breakwater.	33° 29.3' N 126° 57.1' E	Fl.R. , period 6s	51 16	5	Red round concrete tower; 36.	
17429	Songsanpo.	33° 29.3' N 126° 55.5' E	Fl.(2)R. , period 6s	49 15	6	STARBOARD (B) R, beacon, topmark; 65.	

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KOREA							
17432 F 4272.42	--W. breakwater.	33° 28.5' N 126° 55.7' E	Fl.R. period 5s	39 12	5	Red round concrete tower; 36.	
17434 F 4272.35	--N. breakwater, E. head.	33° 28.4' N 126° 56.2' E	Fl.(2)R. period 6s	52 16	5	Red round concrete tower; 49.	
17435 F 4272.36	---W. head.	33° 28.4' N 126° 55.9' E	Fl.(2)G. period 6s	52 16	5	White round concrete tower; 49.	
17436 F 4272.5	-Pangdupo.	33° 25.5' N 126° 56.2' E	Fl.W. period 4s	131 40	8	White octagonal concrete tower; 39.	
17437	Sinyang hang.	33° 25.7' N 126° 55.2' E	Fl.G. period 6s	39 12	5	White round steel tower; 26.	
17440 F 4272.54	-On Pyeong.	33° 23.5' N 126° 54.8' E	Q.(3)W. period 10s	46 14	8	E. CARDINAL BYB, tower, topmark; 43.	
17444 F 4272.6	-Kaeminpo.	33° 19.0' N 126° 51.0' E	Fl.W. period 5s	46 14	8	White octagonal concrete tower; 22.	
17448 F 4272.57	-Pyoseon Hang.	33° 19.5' N 126° 50.9' E	Fl.G. period 4s	39 12	5	White round concrete tower; 30.	
17452 F 4272.7	-Kaeminpo, Got (Kama).	33° 17.9' N 126° 48.6' E	Fl.W. period 9s	51 16	8	White square metal framework tower; 21.	
17454	-Taebonggot.	33° 16.4' N 126° 44.7' E	Fl.W. period 6s	43 13	8	White concrete tower; 39.	
17455 F 4272.9	-Wimi Hang, E. breakwater.	33° 16.1' N 126° 39.7' E	Fl.R. period 6s	59 18	8	Red round concrete tower; 33.	
17455.5 F 4272.95	--W. breakwater.	33° 15.9' N 126° 39.8' E	Fl.G. period 6s	56 17	5	White round concrete tower; 33.	
17456 F 4272.8	-Chigwi Do.	33° 13.4' N 126° 39.5' E	Fl.W. period 5s	56 17	8	White round concrete tower; 39.	
17457	Pomongtong Hang, E. breakwater.	33° 14.3' N 126° 36.5' E	Fl.R. period 5s	39 12	5	Red round metal tower; 26.	
17460 F 4274.5	Sogwip'o Hang, E. breakwater, head.	33° 14.1' N 126° 33.9' E	Fl.R. period 6s	30 9	6	Red post; 10.	
17462 F 4274.2	-S. breakwater.	33° 13.9' N 126° 33.8' E	Fl.G. period 4s	33 10	5	White round steel tower; 11.	
17467	Seogwipo Oehang, breakwater.	33° 14.0' N 126° 34.0' E	F.W.	56 17	7	Red round concrete tower; 49.	Visible 095°30'-101°.
17468 F 4273	Nok Do.	33° 13.5' N 126° 34.0' E	Fl.W. period 6s	315 96	17	White round concrete tower; 31.	
17472	Beophwan Hang, S. breakwater.	33° 14.2' N 126° 31.0' E	Fl.G. period 6s	39 12	5	White round steel tower; 26.	
17476 F 4274.55	Saebyeol Got.	33° 13.3' N 126° 28.4' E	Fl.W. period 5s	42 13	8	White square concrete tower; 36.	
17477 F 4274.58	Hayejinhwang.	33° 13.7' N 126° 22.8' E	Fl.W. period 7s	72 22	16	White round concrete tower; 40.	
17480 F 4254	-Mara Do.	33° 07.0' N 126° 16.2' E	Fl.W. period 10s	167 51	21	White octagonal concrete tower; 53.	Siren: 1 bl. ev. 30s. Radiobeacon: DGPS Station:
-RACON				M(--)		30	
17482 F 4254.2	Kap'a Hang, S. breakwater.	33° 09.7' N 126° 16.6' E	Fl.G. period 6s	36 11	5	White square steel tower; 28.	
17483	Kwangpotan.	33° 10.2' N 126° 17.6' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 36.	

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KOREA							
17483.5	Kwabutan.	33° 10.3' N 126° 14.3' E	Fl.(2)W. period 10s	52 16	8	ISOLATED DANGER BRB, tower, topmark; 76.	
17484 F 4254.6	-Mosulpo Hang, E. breakwater, head.	33° 12.6' N 126° 15.1' E	Fl.R. period 5s	49 15	9	Red round concrete tower; 33.	
17488 F 4254.4	-W. breakwater, head.	33° 12.8' N 126° 14.8' E	Fl.G. period 4s	56 17	9	White round concrete tower; 33.	
17489.5 F 4254.9	Hwasun Hang, breakwater.	33° 14.0' N 126° 20.0' E	Fl.Y. period 4s	56 17	7	Yellow round pipe; 26.	
17490	-Sagye Hang, breakwater.	33° 13.7' N 126° 18.4' E	Fl.R. period 6s	52 16	13	Red round concrete tower; 43.	
17496 F 4255	-Ch'agwi Do.	33° 18.6' N 126° 08.8' E	Fl.W. period 6s	220 67	17	White concrete column; 16.	Visible 332°-208°.
17497	-Jejudo.	33° 18.8' N 126° 09.4' E	V.Q.(9)W. period 10s	52 16	7	W. CARDINAL YBY, beacon, topmark; 75.	
17500 F 4256	-Shingchang.	33° 20.6' N 126° 10.3' E	Fl.W. period 4s	62 19	8	White round concrete structure; 36.	
17501	Suyonggot.	33° 23.2' N 126° 13.5' E	Fl.W. period 6s	49 15	8	White octagonal concrete tower; 40.	
17501.2	-Hyeopjae Hang, breakwater.	33° 23.9' N 126° 14.5' E	Fl.G. period 4s	36 11	5	White round steel tower; 25.	
17502 F 4255.5	-Yongdang Sanggot.	33° 20.1' N 126° 09.0' E	Q.(9)W. period 15s	49 15	8	W. CARDINAL YBY, tower, topmark; 46.	
17504 F 4258	-Biyang Do.	33° 24.6' N 126° 13.7' E	Fl.W. period 6s	390 119	17	White round concrete tower; 17.	
17505 F 4259	--S. head.	33° 24.2' N 126° 13.8' E	Q.(6)+L.Fl.W. period 15s	42 13	8	S. CARDINAL YB, tower; 39.	
17508 F 4257	-Sobijo.	33° 25.0' N 126° 13.5' E	Q.W.	39 12	8	N. CARDINAL BY, tower, topmark; 33.	
17512 F 4263	-Hallim, N. breakwater, head.	33° 25.0' N 126° 15.2' E	Fl.G. period 5s	59 18	9	White round concrete tower; 49.	
17516 F 4262	--W. breakwater, head.	33° 25.0' N 126° 15.2' E	Fl.R. period 4s	43 13	9	Red round concrete tower; 26.	
17518 F 4263.5	-Unyongot.	33° 26.1' N 126° 15.5' E	Fl.W. period 5s	43 13	8	White round concrete tower; 33.	
17519	Younguntong Hang, W. breakwater.	33° 26.3' N 126° 16.3' E	Fl.R. period 5s	36 11	5	Red round metal tower; 26.	
17519.5	-Biyang Do.	33° 26.8' N 126° 16.6' E	V.Q.W.	49 15	7	N. CARDINAL BY, beacon, topmark; 53.	
17520 F 4264	-Kwidok Ni.	33° 26.6' N 126° 17.6' E	Fl.W. period 6s	59 18	8	White round concrete structure; 42.	
17528 F 4265.2	--N. breakwater.	33° 28.1' N 126° 19.7' E	Fl.R. period 4s	52 16	5	Red round concrete tower; 33.	
17528.5 F 4265.3	--E. breakwater.	33° 27.8' N 126° 19.8' E	Fl.G. period 5s	49 15	5	White concrete tower; 33.	
17528.7	Gamundong Hang.	33° 29.2' N 126° 23.6' E	Fl.R. period 5s	36 11	5	Red round steel tower; 26.	
17529 F 4278.3	Milmae Do.	34° 15.0' N 126° 19.9' E	Fl.W. period 4s	177 54	8	White round concrete tower; 37.	
17530 F 4278.2	Juggul Do (Chukkul do).	34° 14.0' N 126° 25.2' E	Fl.W. period 6s	167 51	8	White round concrete tower; 37.	Visible 351°-345°.

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KOREA							
17531 F 4278.15	Seoneob Do.	34° 11.4' N 126° 28.4' E	Fl.W. period 4s	167 51	8	White round concrete tower; 37.	Visible 351°-237°.
17531.5 F 4279.37	Hugil-to.	34° 16.5' N 126° 32.4' E	Fl.W. period 5s	46 14	8	White round concrete tower; 30.	
17532 F 4278	Oryong Do.	34° 17.2' N 126° 28.4' E	Fl.W. period 15s	305 93	21	White octagonal concrete structure; 27.	Horn: 1 bl. ev. 40s.
RACON				0(---)		8	(3 & 10 cm).
17533.5 F 4279.36	Galdo Hang.	34° 17.9' N 126° 31.8' E	Fl.G. period 5s	46 14	8	White square concrete tower; 36.	
17534	Yangdo.	34° 17.6' N 126° 30.7' E	Fl.W. period 4s	75 23	8	White octagonal concrete tower;	Visible 310°-150°. 27.
17535	Eobuldo.	34° 19.9' N 126° 28.3' E	Fl.(3)W. period 7s	52 16	8	White hexagonal steel tower;	30.
17536 F 4279	Oran-ni.	34° 20.9' N 126° 28.5' E	Fl.G. period 6s	36 11	5	White round concrete tower;	26.
17540 F 4279.3	Sang ma Do.	34° 27.0' N 126° 25.0' E	Fl.(2)W. period 6s	157 48	8	White round concrete structure; 17.	
17544 F 4278.4	Guja Do (Ku-do).	34° 19.1' N 126° 18.2' E	Fl.(2)W. period 6s	138 42	8	White round concrete tower; 26.	Visible 200°-098°.
17546	Marohae.	34° 21.6' N 126° 12.8' E	Fl.W. period 5s	69 21	8	White hexagonal metal tower; 19.	
17548 F 4243	Tokko-do.	34° 15.5' N 126° 11.1' E	Fl.W. period 6s	223 68	8	White round concrete tower; 10.	Visible 038°-101° and 116°-315°.
17551.8 F 4247.6	Turyang-do.	34° 21.1' N 125° 53.9' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 39.	
17552 F 4247.25	Nulog Do (Nurok-to), SE. head.	34° 20.7' N 125° 57.5' E	Fl.W. period 4s	43 13	8	White round concrete tower; 28.	
17554 F 4247.7	Oebyeong Do.	34° 22.5' N 125° 56.5' E	Fl.W. period 10s	267 81	18	White octagonal concrete tower;	Visible 068°-264°. 34.
17556 F 4246	Hajo Do.	34° 18.5' N 126° 05.4' E	Fl.W. period 10s	157 48	21	White round concrete structure;	Visible 130°-336°. 46.
17557	Dang Dan.	34° 19.1' N 126° 02.9' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, beacon, topmark; 26.	
17558	Pulmu Do.	34° 19.3' N 126° 10.3' E	Fl.W. period 4s	148 45	8	White round concrete tower; 34.	
17559	Hangando.	34° 19.0' N 126° 07.9' E	Fl.(2)W. period 6s	105 32	8	White octagonal concrete tower; 27.	
17559.5	Changjukto.	34° 20.8' N 126° 06.7' E	Fl.W. period 6s	59 18	8	White octagonal concrete tower; 27.	
17560 F 4247	Semog.	34° 18.0' N 126° 01.0' E	Fl.W. period 4s	56 17	8	White round concrete tower; 26.	Visible 018°-073° and 146°-215°.
17561	Taema-Do.	34° 17.1' N 125° 59.5' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, tower, topmark; 25.	
17562 F 4249.8	Haesu So.	34° 16.0' N 126° 01.5' E	Fl.(2)W. period 10s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17564 F 4249	Seogeocha Do.	34° 15.4' N 125° 55.5' E	Fl.W. period 6s	98 30	8	White round concrete tower; 19.	
17568 F 4249.2	-Seogeocha. Do Hang, E. breakwater.	34° 14.9' N 125° 55.0' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 28.	

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KOREA							
17572 F 4249.4	--W. breakwater.	34° 14.8' N 125° 54.9' E	Fl.G. period 4s	46 14	5	White round concrete tower; 28.	
17576 F 4248	Chuk-to.	34° 13.5' N 125° 50.8' E	Fl.W. period 10s	279 85	21	White round concrete tower; 30.	Visible 350°-323°. Siren: 1 bl. ev. 35s.
	RACON		Z(-- • •)		10		
17577	Pyonso.	34° 11.5' N 125° 49.6' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17580 F 4250	Pyongp'ung - do.	34° 08.0' N 125° 57.0' E	Fl.W. period 6s	154 47	8	White round concrete tower; 30.	
17581 F 4246.6	Somang Hang, S. breakwater.	34° 21.9' N 126° 07.9' E	Fl.(2)R. period 6s	49 15	5	Red round concrete tower; 33.	
17581.5 F 4246.65	-Somang Hang, N. breakwater.	34° 21.9' N 126° 07.8' E	Fl.G. period 6s	49 15	5	White round concrete tower; 33.	
17581.7	Songnamdo.	34° 23.4' N 126° 03.4' E	Fl.W. period 4s	43 13	8	White round steel tower; 26.	
17581.8	Chindo.	34° 24.1' N 126° 05.9' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 26.	
17582 F 4232.6	Pulto.	34° 26.2' N 126° 03.9' E	Fl.W. period 6s	171 52	8	White round concrete tower; 33.	Visible 202°-086°.
	RACON		B(-- • •)		10		
17583	Kalduri.	34° 28.5' N 126° 07.6' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17584 F 4232	Kasa Do.	34° 28.0' N 126° 03.0' E	Fl.W. period 15s	230 70	27	White round concrete structure;	Visible 233°-161°. Horn: 1 bl. ev. 45s.
17585	Kadokdo.	34° 26.9' N 126° 00.2' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 26.	
17586	Chisi Do.	34° 31.7' N 126° 00.9' E	Fl.W. period 6s	165 50	8	White round concrete tower; 34.	Visible 143°-269°.
17587	Shindo.	34° 35.5' N 125° 57.6' E	Fl.W. period 5s	59 18	8	White round concrete tower; 26.	
17588 F 4228.5	Bi Do (Pi-do).	34° 34.0' N 125° 54.9' E	Fl.(2)W. period 6s	95 29	8	White round concrete tower; 30.	
17592 F 4234	Tak Som.	34° 30.7' N 126° 09.8' E	Fl.(2)W. period 6s	95 29	8	White round concrete tower; 33.	Visible 036°-248°.
17596 F 4236	Ku Do, on small islet S. of Yul To.	34° 34.1' N 126° 11.8' E	Fl.W. period 4s	95 29	8	White round brick structure; 24.	
17598	Chindo Bridge.	34° 34.1' N 126° 18.4' E	F.W.	65 20	7	White round daymark, red stripes.	Marks center of navigable span.
17600 F 4241	Nog Do, SW. end of island.	34° 33.6' N 126° 19.2' E	Fl.W. period 4s	89 27	8	White round concrete tower; 26.	
17604 F 4242	Pangt'an Rock.	34° 33.5' N 126° 20.6' E	Fl.R. period 4s	43 13	5	STARBOARD (B) R, beacon, topmark; 42.	
17608 F 4238	Imha Do.	34° 36.5' N 126° 15.7' E	Fl.(2)W. period 6s	69 21	8	White round concrete structure;	Visible 323°-180°. 20.
17612 F 4237	Changdo.	34° 37.2' N 126° 13.4' E	Fl.W. period 6s	102 31	8	White round concrete tower; 28.	
17614 F 4235	Chi Do.	34° 40.0' N 126° 12.7' E	Fl.(2)W. period 6s	92 28	8	White round concrete tower; 37.	
	RACON		Y(-- --)		10		

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KOREA							
17616 F 4220	Siha Do.	34° 41.8' N 126° 14.6' E	Fl.W. period 12s	128 39	19	White round concrete tower; 25.	Visible 350°-213°. Horn: 1 bl. ev. 35s.
17617 F 4215	Chungsando.	34° 42.4' N 126° 11.7' E	Fl.W. period 6s	43 13	8	White octagonal concrete tower; 27.	
17620 F 4215	Pyon Do.	34° 45.1' N 126° 10.5' E	Fl.W. period 4s	89 27	8	White round concrete structure;	Visible 183°-330°. 20.
RACON				G(— • —)		10	
17621 F 4216.9	Pulmugi-do.	34° 45.5' N 126° 13.4' E	Fl.W. period 5s	105 32	17	White concrete tower; 36.	
17622 F 4217.3	Oedalto Island.	34° 46.5' N 126° 17.5' E	Fl.W. period 4s	49 15	8	White concrete tower; 27.	Visible 312°-205°.
17624 F 4217	-Hwaweon Bando.	34° 45.6' N 126° 18.0' E	Fl.W. period 5s	115 35	18	White round concrete structure; 24.	Visible 092°-296°. Siren: 1 bl. ev. 30s.
17625 F 4217.7	--Eastern.	34° 44.9' N 126° 19.2' E	Fl.W. period 6s	108 33	8	White round concrete tower; 27.	Visible 127°-304°.
17626	Tallido.	34° 45.4' N 126° 19.3' E	Fl.(2)W. period 6s	49 15	8	White concrete tower; 23.	Visible 245°-104°.
17627	Changjwa-do.	34° 46.9' N 126° 20.3' E	Fl.W. period 5s	46 14	8	White octagonal concrete tower;	Visible 207°-135°. 46.
17627.7 F 4217.8	Mokpo Hang Bridge.	34° 45.1' N 126° 21.9' E	F.W.	33 10	7	Red round daymark, white stripes.	F.G. 10m 4M and F.R. 10m 5M mark width of navigable span.
17628 F 4218	Monghado.	34° 46.0' N 126° 22.9' E	Fl.W. period 4s	98 30	6	Tower on concrete base; 49.	
17629	Tabul Hang "A".	34° 46.6' N 126° 26.1' E	Fl.(4)Y. period 8s	30 9	6	Yellow tower; 15.	
17629.5	"B".	34° 46.6' N 126° 25.9' E	Fl.Y. period 6s	30 9	7	Yellow tower; 15.	
17630 F 4218.3	Tongyang dolphin "A".	34° 46.7' N 126° 25.6' E	Fl.(2)Y. period 6s	30 9	7	Yellow round pipe.	Horn: 1 bl. ev. 20s.
17630.5 F 4218.35	"B".	34° 46.7' N 126° 25.7' E	Fl.Y. period 4s	30 9	7	Yellow round pipe.	
17632 F 4215.5	Hanaptokto.	34° 48.3' N 126° 13.0' E	Fl.W. period 6s	85 26	8	Round white tower.	
17633	Amchido.	34° 49.7' N 126° 09.9' E	Fl.(2)W. period 5s	40 12	8	ISOLATED DANGER BRB, beacon, topmark; 40.	
17636 F 4216	Amtae Do, E. extremity of island.	34° 51.7' N 126° 09.6' E	Fl.W. period 4s	125 38	8	White round brick structure; 23.	Visible 144°-339°.
17640 F 4216.5	Chaun-do.	34° 55.1' N 126° 05.6' E	Fl.(2)W. period 6s	112 34	8	White round concrete tower; 30.	Visible 133°-330°.
17641	Haeso.	34° 53.7' N 126° 07.2' E	Q.W.	26 8	8	N. CARDINAL BY, tower, topmark; 25.	
17642 F 4217.5	Hwangdo.	34° 55.5' N 126° 09.3' E	Fl.W. period 6s	108 33	8	White round concrete tower; 37.	
17642.5	Pigum-Toch'odo Bridge.	34° 43.0' N 125° 56.4' E	F.W.	79 24	7	Center span.	F.R., F.G. and F.Y. mark bridge pilings.
17643 F 4230	Daegog Do.	34° 42.4' N 125° 54.5' E	Fl.(2)W. period 6s	115 35	8	White round tower; 26.	
RACON				X(-••-)		10	

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KOREA							
17643.1 <i>F 4210.8</i>	Oegaldo.	34° 59.8' N 126° 05.3' E	Fl.W. period 5s	108 33	8	White round concrete tower; 27.	Visible 328°-208°.
17643.5 <i>F 4211</i>	Pyongpungdo.	34° 59.1' N 126° 11.8' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17644 <i>F 4229.8</i>	Odo.	34° 56.5' N 125° 57.5' E	Fl.W. period 4s	236 72	8	White round concrete tower; 36.	
17644.5 <i>F 4229.5</i>	Changgu-so.	34° 43.7' N 125° 52.6' E	Fl.W. period 5s	62 19	8	White round concrete tower; 29.	
17645 <i>F 4229.5</i>	Pokto.	34° 42.0' N 125° 50.3' E	Fl.(2)W. period 10s	52 16	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
RACON		O(---)		10			
17646 <i>F 4229</i>	Uido.	34° 37.1' N 125° 48.3' E	Fl.W. period 5s	272 83	15	White round concrete tower; 27.	Visible 345°-156°.
17648 <i>F 4229.1</i>	Kyongch'i Do.	34° 38.9' N 125° 53.8' E	Fl.W. period 4s	154 47	8	White round concrete tower; 29.	Visible 120°-061°.
17649 <i>F 4229.1</i>	Chongdar-am.	34° 39.1' N 125° 55.5' E	Fl.(2)W. period 5s	26 8	8	ISOLATED DANGER BRB, beacon, topmark; 59.	
17650 <i>-Touch'ado.</i>		34° 44.0' N 125° 57.8' E	Fl.W. period 6s	45 14	8	White octagonal concrete tower; 27.	
17652 <i>F 4213</i>	Sangsuchi Do.	34° 45.8' N 126° 01.2' E	Fl.(2)W. period 6s	121 37	8	White round concrete structure;	Visible 018°-299°. 27.
17656 <i>F 4231</i>	Jeung Do.	34° 44.2' N 125° 59.3' E	Fl.W. period 4s	49 15	8	White round concrete tower; 26.	Visible 085°-307°.
RACON		K(-•-)		10			
17660 <i>F 4213.5</i>	Samdo.	34° 46.1' N 126° 03.1' E	Fl.W. period 4s	49 15	8	White round concrete tower; 30.	
17661 <i>F 4214</i>	Sangsachi Do.	34° 45.6' N 126° 02.7' E	Q.(9)W. period 15s	36 11	8	W. CARDINAL YBY, tower, topmark; 43.	
17664 <i>F 4214</i>	P'algum Do.	34° 47.1' N 126° 05.1' E	Fl.W. period 6s	59 18	8	White round concrete structure;	Visible 296°-206°. 20.
17665 <i>F 4215</i>	Somajindo.	34° 46.4' N 126° 07.1' E	Fl.W. period 4s	45 14	8	White octagonal concrete tower; 28.	
17665.5 <i>F 4215</i>	Sinan bridge, center span.	34° 45.9' N 126° 07.9' E	F.W.	82 25	7		
17666 <i>F 4211.5</i>	Chinso Mal.	34° 52.3' N 125° 58.2' E	Fl.W. period 5s	197 60	18	White round concrete tower; 32.	Visible 335°-216°.
17668 <i>F 4212.5</i>	Use Do.	34° 47.3' N 125° 54.6' E	Fl.W. period 4s	222 68	8	White round tower; 30.	
17669 <i>F 4212.7</i>	Wonpy'ong Hang, W. breakwater.	34° 46.7' N 125° 54.7' E	Fl.(2)R. period 6s	45 14	5	Red round concrete tower; 30.	Visible 125°-235°.
17670 <i>F 4212.8</i>	-E. breakwater.	34° 46.7' N 125° 54.8' E	Fl.(2)G. period 6s	31 9	5	White steel mast; 16.	
17672 <i>F 4212</i>	Ch'ilbal Do.	34° 47.4' N 125° 47.3' E	Fl.W. period 15s	345 105	19	White brick column; 29.	
RACON		B(-••)		10			
17676 <i>F 4225</i>	Hajuk To.	34° 45.8' N 125° 26.7' E	Fl.W. period 5s	328 100	18	White round concrete tower; 19.	
17678 <i>F 4222.5</i>	Hojangdo.	34° 42.8' N 125° 24.5' E	Fl.W. period 10s	256 78	18	White round concrete tower; 27.	Visible 191°-100°.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KOREA							
17679 <i>F 4222.1</i>	Pulgun-yo.	34° 42.3' N 125° 28.1' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 36.	
17680 <i>F 4224</i>	Ka Do.	34° 42.1' N 125° 28.1' E	Fl.(2)W. period 6s	213 65	8	White round concrete structure; 20.	Visible 347°-311°.
	RACON		C(-•-•)		10		
17682	Taeihuksan Do, S. breakwater.	34° 41.5' N 125° 26.8' E	Fl.(2)G. period 6s	42 13	5	White octagonal concrete tower; 27.	
17683 <i>F 4223.4</i>	-N. breakwater.	34° 41.6' N 125° 26.5' E	Fl.(2)R. period 6s	42 13	5	Red octagonal concrete tower; 27.	
17684 <i>F 4223</i>	Taeihuksan Do, inner breakwater.	34° 41.3' N 125° 26.5' E	Fl.G. period 4s	39 12	5	White fiberglass tower; 24.	
17688 <i>F 4223.5</i>	Yongsan Do (Taehand-do).	34° 39.0' N 125° 28.8' E	Fl.W. period 4s	167 51	8	White round concrete tower; 30.	Visible 106°-020°.
17692 <i>F 4225.5</i>	Kyomaek To (Maemulda).	34° 31.2' N 125° 41.3' E	Fl.W. period 10s	420 128	16	White round fiberglass tower; 18.	Visible 225°-175°.
17694 <i>F 4223.8</i>	Taeihuksan Do.	34° 38.6' N 125° 23.1' E	Fl.W. period 6s	154 47	8	White hexagonal steel tower; 20.	
17696 <i>F 4222</i>	Hong Do.	34° 42.7' N 125° 12.3' E	Fl.(3)W. period 20s	291 89	24	White square concrete structure; 46.	Visible 035°-039°, 044°-237°. Siren: 1 bl. ev. 50s.
17697	-Chuk Hang.	34° 40.6' N 125° 12.2' E	Fl.(2)W. period 6s	98 30	8	White round concrete tower; 26.	Visible 220°-040°.
17700 <i>F 4226</i>	Hat'ae Do.	34° 24.0' N 125° 18.0' E	Fl.W. period 6s	105 32	8	White round concrete structure;	Visible 116°-308°. 20.
17704 <i>F 4228</i>	Manjae Do.	34° 12.6' N 125° 28.4' E	Fl.W. period 5s	640 195	16	White round concrete tower; 18.	
17708 <i>F 4227</i>	Sohuksan Do.	34° 05.5' N 125° 06.2' E	Fl.W. period 15s	276 84	27	White round brick structure; 36.	Visible 032°-268° except where obscured by shore (149°- 153°). Siren: 1 bl. ev. 60s.
17709 <i>F 4227.2</i>	Kagodo-ri.	34° 02.9' N 125° 07.4' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 23.	
17710 <i>F 4227.4</i>	-Mulsogmal.	34° 02.9' N 125° 08.7' E	Fl.W. period 10s	512 156	17	White octagonal tower; 21.	
17712 <i>F 4210</i>	Taerorok To.	35° 06.6' N 125° 59.4' E	Fl.W. period 5s	236 72	18	White round concrete tower; 23.	Visible 159°-035° and 046°- 077°.
17713 <i>F 4210.5</i>	Naedo.	35° 01.1' N 126° 12.6' E	Q.(9)W. period 15s	30 9	8	W. CARDINAL BY, beacon; 25.	
17714	Sambongdan.	35° 08.5' N 126° 09.9' E	Fl.W. period 4s	102 31	8	White round concrete tower; 33.	Visible 202°-035°.
17716 <i>F 4209</i>	Anma Do.	35° 20.1' N 125° 59.4' E	Fl.W. period 10s	279 85	18	White concrete column; 17.	Visible 333°-338° and 350°- 199°.
17718	Kyema Hang, groin.	35° 23.2' N 126° 24.4' E	Fl.R. period 5s	39 12	5	Red octagonal concrete tower; 26.	
17718.5	-Breakwater.	35° 23.2' N 126° 24.3' E	Fl.G. period 5s	46 14	5	White octagonal concrete tower; 26.	
17720 <i>F 4208</i>	Popsong, N. side of entrance.	35° 22.5' N 126° 24.8' E	Fl.W. period 4s	230 70	12	White concrete tower; 17.	Visible 049°-159°.
17721	Anma Hang, S. breakwater.	35° 20.7' N 126° 00.6' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
17722	-N. breakwater.	35° 20.7' N 126° 00.5' E	Fl.G. period 5s	52 16	5	Red round concrete tower; 33.	

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KOREA							
17726	Koryundo.	35° 34.2' N 126° 14.5' E	Fl.W. period 6s	115 35	8	White square concrete tower; 46.	
17726.5 F 4207.2	Pejam-yo.	35° 35.8' N 126° 13.6' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
17727 F 4206.7	Kalmaeyo.	35° 36.8' N 126° 14.7' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 56.	
17727.5	Taeri Hang, breakwater, head.	35° 34.2' N 126° 16.1' E	Fl.G. period 6s	43 13	5	White round concrete tower; 29.	
17728 F 4206.8	Wi Do, on Pajanggeum Hang, breakwater.	35° 37.3' N 126° 18.0' E	Fl.G. period 5s	43 13	5	White round concrete tower; 27.	
RACON				B(-•••)			
17729	-Pajanggeum Hang, groin.	35° 37.1' N 126° 18.1' E	Fl.(2)R. period 6s	39 12	5	Red round concrete tower; 28.	
17732 F 4207.4	-Changun So.	35° 34.5' N 126° 23.9' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
17733	-Kokunsan Kundo.	35° 39.0' N 126° 24.6' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
17736 F 4207.5	-Kaesom.	35° 35.8' N 126° 28.0' E	Fl.W. period 5s	56 17	8	White round structure; 20.	
17737 F 4207.65	Kyongpo Hang, N. breakwater.	35° 37.1' N 126° 27.7' E	Fl.G. period 7s	56 17	5	White round concrete tower; 33.	
17738	-Breakwater, head.	35° 37.2' N 126° 27.8' E	Fl.R. period 7s	59 18	5	Red round concrete tower; 33.	
17740 F 4207.7	-Chulpa Hong.	35° 35.1' N 126° 36.5' E	Fl.W. period 10s	56 17	5	White metal framework tower; 46.	
17744 F 4206.6	Sangwangdung Do.	35° 39.5' N 126° 06.5' E	Fl.W. period 5s	571 174	18	White round concrete structure; 17.	
17746 F 4206.38	Saemangeum beacon "A".	35° 43.2' N 126° 24.6' E	Fl.(4)Y. period 8s	28 9	6	SPECIAL Y, tower, topmark; 76.	
17746.5 F 4206.85	Pian-do.	35° 43.6' N 126° 27.6' E	Fl.W. period 6s	56 17	8	White round concrete tower; 32.	
17748 F 4206	Maldo.	35° 51.5' N 126° 18.9' E	Fl.W. period 10s	197 60	26	White octagonal concrete structure, on dwelling; 52.	Visible 324°-276°. Siren: 1 bl. ev. 55s.
RACON				C(-•--•)			
17749	-E. breakwater.	35° 51.3' N 126° 19.2' E	Fl.G. period 5s	59 18	5	White round concrete tower; 33.	
17749.5	-W. breakwater.	35° 51.0' N 126° 19.2' E	Fl.R. period 5s	59 18	5	Red round concrete tower; 33.	
17751 F 4205.5	Solp'un-so.	35° 51.8' N 126° 21.0' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 49.	
17752 F 4206.3	Sohoenggyong Do.	35° 51.2' N 126° 23.8' E	Fl.W. period 4s	98 30	8	White round concrete structure;	Visible 270°-224°. 25.
17753	Golseo.	35° 49.5' N 126° 22.8' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 72.	
17753.1	Heukdo.	35° 49.6' N 126° 22.3' E	Fl.(2)W. period 10s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17754 F 4206.35	-Hoenggan Do.	35° 51.2' N 126° 26.0' E	Fl.W. period 6s	177 54	8	White round concrete tower; 26.	
17756 F 4192	-AVIATION LIGHT.	35° 55.2' N 126° 37.1' E	Al.Oc.W.G. period 10s	125 38	21		

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KOREA							
GUNSAN HANG:							
17757	-Detatched breakwater, S. head.	35° 58.7' N 126° 29.5' E	Fl.(2)G. period 6s	79 24	8	White round concrete tower; 65.	
	-RACON		G(---)		10		
17758 F 4193.5	-Myongam.	35° 59.3' N 126° 31.4' E	Fl.W. period 5s	52 16	8	White round tower; 19.	
17759	-Entrance.	35° 58.2' N 126° 31.4' E	Fl.(4)Y. period 8s	52 16	7	Yellow square steel tower; 22.	
17760 F 4191	-Yok'yong.	36° 02.0' N 126° 30.9' E	Fl.W. period 7s	75 23	8	White round structure; 20.	
17764 F 4193	-Bieung Do.	35° 56.7' N 126° 31.5' E	Fl.W. period 4s	46 14	8	White hexagonal concrete tower; Visible 337°-228°. 43.	
17772 F 4196	-Kunsan Hang Ulho, beacon "B".	35° 58.7' N 126° 36.6' E	Fl.R. period 4s	46 14	9	STARBOARD (B) R, beacon, topmark; 48.	
17774 F 4195	-Sea-berth No. "A".	35° 58.6' N 126° 36.4' E	Fl.(4)Y. period 8s	31 9	7	SPECIAL Y, tower, topmark; 15.	Private. Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17775 F 4193.8	-Hyundai Oil, seaberth.	35° 58.7' N 126° 36.0' E	Fl.Y. period 4s	33 10	7	Yellow round fiberglass tower; 15.	Horn: 1 bl. ev. 15s (bl. 5s, si. 10s).
17776 F 4196.5	-Gunsan, E. head.	35° 58.8' N 126° 36.8' E	Fl.(4)Y. period 8s	49 15	12	SPECIAL Y, tower, topmark; 33.	
17780 F 4197	-Changsan Do.	35° 58.6' N 126° 37.0' E	Fl.R. period 5s	56 17	8	Red hexagonal concrete tower; 46.	
17782 F 4192.5	-Ferry Wharf "A".	35° 58.7' N 126° 37.7' E	Fl.(4)Y. period 8s	30 9	6	SPECIAL Y, tower, topmark; 13.	
17783 F 4192.55	-Ferry Wharf "B".	35° 58.7' N 126° 37.8' E	Fl.(4)Y. period 8s	30 9	6	SPECIAL Y, tower, topmark; 13.	
17784 F 4197.7	-Kunsan.	35° 58.5' N 126° 38.4' E	Fl.Y. period 6s	43 13	12	SPECIAL Y, dolphin, topmark; 18.	
17788 F 4198	-On drying rock, N. of Ip lee Do (Pari Do).	35° 59.0' N 126° 38.5' E	Fl.(2)R. period 6s	36 11	8	STARBOARD (B) R, beacon, topmark; 36.	
17789	-Training wall, head.	35° 59.0' N 126° 40.2' E	Fl.(4)Y. period 8s	33 10	7	Yellow round metal tower; 13.	
17789.5	--Tidal wall.	35° 59.3' N 126° 40.2' E	Fl.(4)Y. period 8s	33 10	7	SPECIAL Y, tower; 14.	
17792 F 4199	-Chonmang san.	36° 00.0' N 126° 40.7' E	Fl.G. period 4s	49 15	5	PORT (B) G, beacon, topmark.	
17794	-Changhang Hang No. "A".	36° 00.5' N 126° 40.9' E	Fl.(4)Y. period 8s	11 3	7	Post.	Private light.
17796 F 4205.2	-Breakwater, N. head.	35° 59.5' N 126° 42.2' E	Fl.R. period 4s	31 9	5	White round concrete tower; 18.	
17800 F 4204	-Minya Am.	35° 59.2' N 126° 43.4' E	Fl.(2)W. period 10s	42 13	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17802 F 4205	-Hwajin Sea-berth.	35° 58.9' N 126° 43.9' E	Fl.Y. period 10s	33 10	7	Yellow metal framework tower; 18.	
17803	Gwangam.	36° 09.9' N 126° 29.5' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 48.	
17804 F 4190	Yeon Do.	36° 04.7' N 126° 26.2' E	Fl.W. period 5s	636 194	18	White round concrete structure; 16.	

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KOREA							
17806 <i>F 4190.6</i>	-N. breakwater.	36° 04.9' N 126° 26.8' E	FI.R. period 7s	52 16	5	Red round concrete tower; 33.	
17808 <i>F 4190.5</i>	-S. breakwater.	36° 04.6' N 126° 26.8' E	FI.G. period 7s	36 11	5	White round concrete structure; 26.	
17812 <i>F 4206.4</i>	Shibidonga Do.	35° 59.4' N 126° 13.4' E	FI.W. period 7s	299 91	18	White round concrete tower; 16.	
17816 <i>F 4188</i>	Och'ong Do.	36° 07.5' N 125° 58.2' E	FI.(4)W. period 20s	200 61	20	White round concrete structure; 39.	Visible 341°-224°. Storm signals. Siren: 1 bl. ev. 45s. Reserve Bell. Radiobeacon.
17817	-W. breakwater.	36° 06.6' N 125° 59.3' E	FI.G. period 5s	59 18	5	White round concrete tower; 33.	
17817.2	-E. breakwater.	36° 06.7' N 125° 59.2' E	FI.R. period 4s	30 9	4	Red round steel tower; 19.	
17818 <i>F 4188.5</i>	-Kajin So.	36° 06.4' N 125° 59.9' E	FI.W. period 4s	95 29	8	White round concrete tower; 20.	
RACON		M(--)		10			
17820 <i>F 4189.5</i>	Oeyon Do Hang, E. breakwater.	36° 13.4' N 126° 04.9' E	FI.R. period 4s	36 11	6	Round red structure; 26.	
17821 <i>F 4189.55</i>	-W. breakwater.	36° 13.2' N 126° 04.9' E	FI.(2)G. period 6s	56 17	5	White round concrete tower; 33.	
17824 <i>F 4189</i>	-Breakwater, head.	36° 06.9' N 125° 59.2' E	FI.(2)G. period 6s	46 14	5	White round concrete structure; 26.	
17825 <i>F 4189.6</i>	Pulan Do.	36° 13.1' N 126° 06.4' E	FI.W. period 6s	200 61	8	White round concrete tower; 27.	
17825.5	Hangwon Hang, E. breakwater.	36° 09.5' N 126° 30.4' E	FI.(2)G. period 6s	52 16	5	White round concrete tower; 36.	
17825.7	-Breakwater.	36° 09.5' N 126° 30.3' E	FI.(2)R. period 6s	59 18	5	Red round concrete tower; 36.	
17826	Muchangpo Hang, breakwater.	36° 14.7' N 126° 32.2' E	FI.R. period 6s	52 16	5	Red round concrete tower; 36.	
17827	Kodaedo Hang, breakwater.	36° 23.6' N 126° 22.2' E	FI.R. period 6s	52 16	5	Red round concrete tower; 36.	
17827.1	Oejanggodo, E.	36° 24.3' N 126° 21.9' E	FI.(2)W. period 10s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17827.15	Oedo.	36° 27.2' N 126° 18.5' E	FI.W. period 6s	171 52	8	White round concrete tower; 39.	
17827.5	Oejanggodo.	36° 23.2' N 126° 20.7' E	FI.G. period 4s	36 11	5	White round tower; 20.	
17827.7	Sapsido, NW.	36° 21.8' N 126° 21.7' E	FI.R. period 5s	46 14	5	STARBOARD (B) R, beacon, topmark; 60.	
17828 <i>F 4189.7</i>	-Nok To.	36° 16.1' N 126° 16.2' E	FI.R. period 6s	42 13	5	STARBOARD (B) R, beacon, topmark; 26.	
17830 <i>F 4189.8</i>	Taehwasa Do.	36° 14.9' N 126° 17.0' E	FI.W. period 10s	331 101	17	White square concrete tower; 36.	
17832 <i>F 4187</i>	Soyeo Am (Mid Channel Rocks).	36° 19.2' N 126° 28.4' E	FI.R. period 4s	56 17	5	STARBOARD (B) R, beacon; 30.	
17836 <i>F 4186</i>	T'aech'on Hang, breakwater.	36° 20.0' N 126° 30.9' E	FI.R. period 6s	56 17	5	Red round concrete tower; 32.	

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KOREA							
17838 F 4186.2	-N. breakwater.	36° 19.7' N 126° 30.5' E	Fl.G. period 5s	39 12	5	PORT (B) G, beacon, topmark; 26.	
17839 F 4185.12	-Oejukto.	36° 23.6' N 126° 26.0' E	Fl.R. period 4s	49 15	5	STARBOARD (B) R, beacon, topmark; 59.	
17839.2 F 4185.15	-Ganseo.	36° 23.8' N 126° 26.6' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17839.5 F 4185.4	-Range, front.	36° 24.8' N 126° 29.5' E	F.R.	82 25	4	White square framework tower; 75.	Visible 019°-035°. Radar reflector.
17839.6 F 4185.41	--Rear, 750 meters 027° from front.	36° 25.2' N 126° 29.6' E	F.R.	105 32	4	White square framework tower; 16.	Visible 019°-035°. Radar reflector.
17839.8 F 4184.5	Taean Bando, SW.	36° 37.3' N 126° 16.9' E	Fl.W. period 6s	56 17	8	White round concrete tower; 56.	
17840 F 4154	Ong Do.	36° 38.7' N 126° 00.6' E	Fl.W. period 15s	246 75	19	White octagonal concrete structure; 46.	Siren: 1 bl. ev. 43s.
RACON							
17840.8 F 4154.25	Mokkae-do.	36° 39.2' N 126° 07.2' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
17841 F 4154.2	Haengyo.	36° 38.9' N 126° 09.9' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 56.	
17844 F 4184	Kyongnyolbi.	36° 37.4' N 125° 33.6' E	Fl.W. period 10s	351 107	26	White hexagonal concrete structure; 32.	Obscured by Kaori, 299°-308°.
RACON							
17848 F 4185	Amma Do.	36° 33.8' N 126° 17.4' E	Fl.G. period 6s	26 8	5	Round green concrete tower; 30.	
17850 F 4154.3	Anhung Shin Hang.	36° 40.6' N 126° 07.5' E	Fl.G. period 6s	56 17	15	White round concrete tower; 36.	
17851 F 4154.4	-S. breakwater.	36° 40.4' N 126° 07.8' E	Fl.R. period 6s	52 16	5	Red round concrete tower; 33.	
17852 F 4154.5	Anheung Hang, breakwater.	36° 40.5' N 126° 09.5' E	Fl.(2)R. period 6s	52 16	5	Red round concrete structure; 27.	
17854 F 4153	Kadae Am.	36° 46.3' N 125° 58.9' E	Q.(3)W. period 10s	49 15	8	E. CARDINAL BYB, tower, topmark; 56.	
RACON							
17856 F 4152	Moktok To.	36° 55.5' N 125° 47.3' E	A.I.L.FI.W.R. period 15s fl., ec. 3s fl., ec. 6s	217 66	W. R.	17 13	White round concrete structure; 19.
RACON							
17856.5 F 4151	Pan-so.	36° 58.2' N 125° 51.2' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 65.	
17858 F 4155.1	Chi-do.	37° 03.0' N 125° 58.9' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 78.	
INCH'ON HANG APPROACH:							
17860 F 4154.7	-Manripo.	36° 47.0' N 126° 08.0' E	Fl.R. period 6s	42 13	5	Red round concrete tower; 26.	
17863 F 4156.35	Sindotaso.	36° 53.6' N 126° 09.2' E	Fl.G. period 6s	52 16	13	PORT (B) G, beacon, topmark; 50.	
RACON							
G(--*)							
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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KOREA							
17863.2 <i>F 4330.4</i>	Jungnim Hang, breakwater.	34° 50.5' N 128° 34.7' E	Fl.R. period 4s	36 11	5	Red octagonal concrete tower; 27.	
17863.5	Kudo.	36° 55.2' N 126° 11.0' E	Fl.G. period 5s	52 16	5	STARBOARD (B) G, beacon, topmark; 46.	
17864 <i>F 4156</i>	-An Do.	36° 57.3' N 126° 10.2' E	Fl.W. period 10s	141 43	22	White round concrete tower; 59.	
	-RACON		M(--)		10		
17864.5	Taesan Hang, T'aean Hwaryok No. "1".	36° 54.8' N 126° 14.7' E	Fl.(4)Y. period 8s	39 12	7	Yellow round steel tower; 15.	
17864.6	-No. "2".	36° 54.8' N 126° 14.0' E	Fl.(4)Y. period 8s	39 12	7	Yellow round steel tower; 15.	Horn: (80 meters SW.) 1 bl. ev. 20s (bl. 5s, si. 15s).
17865 <i>F 4156.6</i>	-Samsung Seabерth "A".	37° 00.3' N 126° 20.6' E	Fl.(4)Y. period 8s	49 15	7	SPECIAL Y, tower; 18.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17865.1 <i>F 4156.65</i>	--"B".	37° 00.2' N 126° 20.4' E	Fl.(4)Y. period 8s	46 14	7	SPECIAL Y, tower; 18.	
17865.8	Samsung Quay "A".	37° 00.4' N 126° 21.1' E	Fl.Y. period 6s	20 6	7	Yellow round fiberglass structure; 21.	
17865.9	--"B".	37° 00.5' N 126° 21.2' E	Fl.Y. period 6s	20 6	7	Yellow round fiberglass structure; 21.	
17866 <i>F 4156.7</i>	-Taesan Seabерth "A".	37° 01.0' N 126° 21.3' E	Fl.Y. period 4s	49 15	7	SPECIAL Y, tower; 22.	
17866.1 <i>F 4156.75</i>	--"B".	37° 01.0' N 126° 21.1' E	Fl.Y. period 4s	46 14	7	SPECIAL Y, tower; 22.	Horn: 1 bl. ev. 25s.
17866.2	-Hyundai oil "B".	37° 01.2' N 126° 24.3' E	Fl.(2)Y. period 5s	49 15	7	SPECIAL Y, tower; 11.	Horn: 1 bl. ev. 15s.
17867	--"A".	37° 01.1' N 126° 24.8' E	Fl.(2)Y. period 5s	36 11	7	SPECIAL Y, tower; 11.	Horn: (500 meters WNW.) 1 bl. ev. 20s.
17868	-Chongkoktu.	36° 53.1' N 126° 10.6' E	Fl.W. period 5s	79 24	15	White round concrete tower; 23.	
17892 <i>F 4155</i>	Ui To.	37° 01.0' N 126° 00.0' E	Fl.W. period 6s	758 231	8	White round concrete tower; 30.	
17893.5 <i>F 4156.58</i>	Daesan Hang.	36° 59.0' N 126° 18.1' E	Fl.R. period 5s	52 16	5	Red round concrete tower; 52.	
17894 <i>F 4156.5</i>	Gain Seo.	37° 00.2' N 126° 18.9' E	Fl.W. period 5s	79 24	8	Round fiberglass tower; 31.	
	RACON		C(--•--)		10		
17895 <i>F 4149.3</i>	Udu-am.	37° 03.6' N 126° 04.4' E	Fl.(2)W. period 10s	52 16	6	ISOLATED DANGER BRB, beacon, topmark; 56.	
	RACON		Y(--•--)		10		
17896 <i>F 4157</i>	Changan So.	37° 04.4' N 126° 17.7' E	Fl.(2)W. period 5s	59 18	8	Red round concrete tower, black bands; 69.	
	RACON		G(--•--)		10		Azimuth coverage 137°-130°.
17898	Pang-do.	37° 00.6' N 126° 43.5' E	Fl.G. period 6s	49 15	5	Green round concrete tower; 62.	
	RACON		X(--••--)		10		

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KOREA							
PYONGTAEK HANG:							
17900	-Hanbo steel, "A".	36° 59.5' N 126° 43.3' E	Fl.Y. period 6s	36 11	7	Yellow round steel tower; 19.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17900.5	--"B".	36° 59.4' N 126° 43.9' E	Fl.(4)Y. period 8s	36 11	7	Yellow round steel tower; 19.	
17902 <i>F 4158.64</i>		36° 59.3' N 126° 43.9' E	Dir.F.W.R.G.	122 37	W. R. G.	22 18 18	White tetragonal steel tower; 99. R. 141°15'-142°27', W.-145°21', G.-146°33'.
17905	-Tongbu Steel Berth, "A".	36° 59.1' N 126° 45.0' E	Fl.(4)Y. period 8s	36 11	7	SPECIAL Y, tower, topmark; 17.	Horn: 1 bl. ev. 30s.
17906	--"B".	36° 59.0' N 126° 45.1' E	Fl.(4)Y. period 8s	36 11	7	SPECIAL Y, tower, topmark; 17.	
17910.6 <i>F 4158.7</i>	-Haejon "A".	37° 00.1' N 126° 46.7' E	Fl.Y. period 4s	30 9	7	Yellow square metal tower; 13.	Horn: (650 meters 310°) 1 bl. ev. 25s. Dolphin "F" marked by Fl.Y. 7M light. Horn: (300 meters 132°) 1 bl. ev. 35s.
17911.4 <i>F 4158.77</i>	-Petroleum pier, dolphin "A".	36° 59.7' N 126° 47.2' E	Fl.(4)Y. period 8s	49 15	7	SPECIAL Y, tower, topmark; 16.	Fl.(4)Y. 8s on dolphin "B" 300 meters SE. Horn: 1 bl. ev. 20s.
17911.5	--"C".	36° 59.6' N 126° 47.4' E	Fl.Y. period 4s	49 15	7	SPECIAL Y, tower, topmark.	
17911.6	-Seaberth "A".	36° 59.5' N 126° 47.4' E	Fl.Y. period 4s	49 15	7	SPECIAL Y, tower, topmark; 20.	Horn: 1 bl. ev. 45s.
17911.7	--"B".	36° 59.5' N 126° 47.6' E	Fl.Y. period 4s	49 15	7	SPECIAL Y, tower, topmark; 20.	
17911.9	-SK Gas Berth.	36° 59.6' N 126° 47.7' E	Fl.(4)Y. period 8s	39 12	8	Yellow round fiberglass tower; 14.	
17912 <i>F 4158.8</i>	-Asan Myoji.	36° 59.7' N 126° 47.7' E	Fl.G. period 4s	39 12	5	White round fiberglass tower; 22.	
17912.5	-Hanjin-gak.	36° 58.7' N 126° 48.1' E	Fl.R. period 6s	46 14	5	Red round concrete tower; 59.	
17913	-Breakwater.	36° 57.9' N 126° 49.5' E	Fl.R. period 4s	56 17	7	STARBOARD (B) R, tower; 36.	
-RACON				O(---)		10	
SOSURA HANG:							
17913.5	Seohae bridge, "P1".	36° 56.7' N 126° 49.4' E	Fl.Y. period 4s	141 43	6		F.G., F.W., F.R. lights mark bridge span.
17914	--"P5".	36° 56.7' N 126° 49.6' E	Fl.Y. period 4s	141 43	6		
17920 <i>F 4150</i>	Minotan.	37° 07.3' N 125° 55.6' E	Fl.(2)W. period 10s	43 13	8	ISOLATED DANGER BRB, tower; 26.	
17924 <i>F 4155.4</i>	Kakhul To.	37° 07.0' N 126° 01.0' E	Fl.W. period 6s	112 34	8	White round concrete tower; 23.	
17926 <i>F 4160</i>	Haksanso.	37° 07.1' N 126° 31.9' E	Fl.(2)R. period 6s	49 15	7	STARBOARD (B) R, beacon, topmark; 62.	
RACON				Y(-•--)		10	

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KOREA							
17928 F4159	Tori Do.	37° 07.0' N 126° 37.0' E	Fl.W. period 6s	190 58	5	White round structure; 30.	
17932 F4158	Bu Do.	37° 09.0' N 126° 20.8' E	Fl.W. period 15s	138 42	27	White round stone structure; 39.	Storm signals. Horn: 1 bl. ev. 40s.
	RACON		B(-••)		10		
17934 F4163	Tongso.	37° 11.0' N 126° 22.2' E	Fl.G. period 5s	39 12	5	Green round concrete tower; 53.	
17936 F4158.3	Pungdo.	37° 06.8' N 126° 23.3' E	Fl.W. period 6s	125 38	8	White octagonal concrete tower; 32.	
17936.3	-Breakwater.	37° 06.8' N 126° 23.7' E	Fl.(2)R. period 6s	49 15	5	Red round concrete tower; 30.	
17937	Mallyukto.	37° 06.8' N 126° 27.3' E	Fl.W. period 5s	138 42	8	White round fiberglass structure; 30.	
17938	Tangjin.	37° 03.6' N 126° 30.6' E	Dir.F.W.R.G.	105 32	W. 21 R. 18 G. 18	White square steel tower; 88.	R. 140°25'-141°24', W.- 144°54', G.-145°54'.
17938.1	-"A".	37° 03.7' N 126° 30.9' E	Fl.(4)Y. period 8s	59 18	7	Yellow round fiberglass structure; 22.	
17938.2	-"B".	37° 03.7' N 126° 30.7' E	Fl.(4)Y. period 8s	59 18	7	Yellow round fiberglass structure; 22.	
17940 F4158.2	Mudang Seo.	37° 09.2' N 126° 25.1' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
	RACON		C(-•-•)		10		
INCH'ON HANG:							
17944 F4164	-Paek Am, N. edge of reef.	37° 13.6' N 126° 24.6' E	Fl.(2)G. period 6s	59 18	7	PORT (B) G, beacon, topmark; 46.	
	-RACON		Z(-••)		10		
17949 F4164.25	-Yonghung-Do bridge, center span.	37° 15.3' N 126° 30.4' E	F.W.	92 28	8	Round daymark, red stripes.	F.R. 28m 5M and F.G. 28m 4M mark width of navigable span. Fl.Y. 4s 6M mark piers close E. and W.
17953 F4164.3	-Chi-do bridge, center span.	37° 14.0' N 126° 32.3' E	F.W.	39 12	8	Round daymark, red stripes.	F.R. 12m 5M and F.G. 12m 4M mark width of navigable span. F.Y. 6M mark piers.
17954 F4165	-Seo Sudo.	37° 19.5' N 126° 23.6' E	Fl.R. period 6s	56 17	7	Red round concrete tower on red building on metal piles; 36.	
	-RACON		K(-•-)		10		
17956 F4166	-Pukchangja Yo.	37° 19.8' N 126° 28.7' E	Fl.(2)W. period 5s	59 18	9	ISOLATED DANGER BRB, beacon, topmark; 46.	
	-RACON		X(-••-)		10		
17956.5 F4164.5	Namjangjaso.	37° 18.8' N 126° 28.9' E	Oc.R. period 4s	59 18	7	STARBOARD (B) R, tower, topmark; 49.	
17957	Korea Gas Berth "A".	37° 20.1' N 126° 35.4' E	Fl.Y. period 4s	39 12	7	SPECIAL Y, tower; 13.	Horn: 1 bl. ev. 30s.
17957.5	-"B".	37° 20.1' N 126° 35.6' E	Fl.Y. period 6s	39 12	7	SPECIAL Y, tower; 13.	
17957.6	Korean Gas Wharf "A".	37° 20.3' N 126° 36.4' E	Fl.(4)Y. period 8s	52 16	7	Yellow steel tower; 26.	

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KOREA							
17957.7	--"B".	37° 20.3' N 126° 36.6' E	Fl.(4)Y. period 8s	52 16	7	Yellow steel tower; 26.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17958	-Hankook Gas.	37° 19.9' N 126° 37.3' E	Fl.(3)Y. period 7s	59 18	7	SPECIAL Y, tower, topmark; 89.	
	-RACON		G (--*)		8		
17958.5	-N. breakwater.	37° 20.5' N 126° 36.2' E	Fl.G. period 4s	33 10	5	White round fiberglass tower; 13.	
17960	-P'almi Do. F 4167	37° 21.0' N 126° 31.0' E	Fl.(3)W. period 40s 3 fl. 16s, ec. 24s	233 71	18	White round concrete structure; 26.	Horn: 1 bl. ev. 30s. Signal station. Radiobeacon.
17961	-Paedangcha. F 4167.3	37° 22.8' N 126° 27.2' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 41.	
17962	-Ssangyong cement pier, "A". F 4172.16	37° 26.2' N 126° 36.8' E	Fl.(4)Y. period 8s	52 16	7	SPECIAL Y, tower, topmark; 15.	Horn: 1 bl. ev. 20s.
17962.5	--"B". F 4172.18	37° 26.1' N 126° 36.9' E	Fl.(4)Y. period 8s	52 16	7	SPECIAL Y, tower, topmark; 15.	
17962.7	--Tongyang cement Sea Berth.	37° 25.9' N 126° 36.9' E	Fl.Y. period 5s	36 11	7	Yellow round fiberglass tower;	Horn: 1 bl. ev. 30s.
17962.8	-Daewoo Sea Berth "A".	37° 25.8' N 126° 36.7' E	Fl.(2)Y. period 6s	36 11	7	SPECIAL Y, tower; 14.	Horn: bl. ev. 50s.
17962.9	--"B".	37° 25.8' N 126° 36.8' E	Fl.(2)Y. period 6s	46 14	7	SPECIAL Y, tower; 24.	
17963	-Coal wharf "A". F 4171	37° 26.1' N 126° 35.3' E	Fl.Y. period 7s	49 15	11	SPECIAL Y, tower, topmark; 29.	
17963.5	--"B". F 4171.2	37° 26.3' N 126° 35.4' E	Fl.Y. period 5s	46 14	7	SPECIAL Y, tower, topmark; 26.	
17968	-Daeseong "A". F 4172.4	37° 26.6' N 126° 36.8' E	Fl.Y. period 4s	46 14	7	SPECIAL Y, beacon, topmark; 13.	
17969	--"C". F 4172.19	37° 26.2' N 126° 36.7' E	Fl.Y. period 6s	36 11	7	SPECIAL Y, beacon, topmark; 15.	
17970.1	-Hyundai Seabерth "A". F 4172.51	37° 26.4' N 126° 37.1' E	Fl.(4)Y. period 8s	31 9	10	SPECIAL Y, beacon, topmark; 31.	
17970.3	--"B". F 4172.53	37° 26.4' N 126° 37.2' E	Fl.(4)Y. period 8s	33 10	7	SPECIAL Y, beacon, topmark; 14.	
17970.5	--"C".	37° 26.3' N 126° 37.1' E	Fl.(4)Y. period 8s	33 10	7	SPECIAL Y, beacon, topmark; 14.	
17972	-Chagyak To. F 4176	37° 29.8' N 126° 35.4' E	Fl.(2)W. period 6s	190 58	8	White octagonal concrete tower; 65.	
17973	Inchon Hang. F 4179.3	37° 31.3' N 126° 34.5' E	Fl.(4)W. period 8s	46 14	7	Yellow round steel tower; 15.	
17976	-Hwaryos Sea Berth "A". F 4179.2	37° 30.5' N 126° 36.2' E	Fl.Y. period 4s	36 11	7	SPECIAL Y, beacon, topmark; 13.	Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
17980	--"B". F 4179	37° 30.6' N 126° 36.2' E	Fl.Y. period 6s	36 11	7	SPECIAL Y, beacon, topmark; 13.	
17984	-Kyongin Energy Sea Berth "A". F 4178	37° 30.1' N 126° 36.4' E	Fl.Y. period 4s	26 8	7	SPECIAL Y, beacon, topmark; 15.	
17988	--"B". F 4178.4	37° 30.3' N 126° 36.3' E	Fl.Y. period 6s	26 8	7	SPECIAL Y, beacon, topmark; 15.	Horn: 1 bl. ev. 30s.
17989	--"C". F 4178.5	37° 30.3' N 126° 36.3' E	Fl.(3)Y. period 7s	33 10	7	SPECIAL Y, beacon, topmark; 21.	

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KOREA							
17990 <i>F 4178.6</i>	--"D".	37° 30.4' N 126° 36.3' E	Fl.(2)Y. period 6s	33 10	7	SPECIAL Y, beacon, topmark; 21.	
17991	--"E".	37° 30.1' N 126° 36.3' E	Fl.(4)Y. period 8s	42 13	7	Yellow square steel tower; 13.	
17991.4 <i>F 4174</i>	-Korean Air Sea Berth "A".	37° 29.8' N 126° 36.2' E	Fl.(4)Y. period 8s	42 13	7	Yellow round fiberglass tower; 17.	Horn: 1 bl. ev. 20s.
17991.5 <i>F 4175.2</i>	--"B".	37° 30.1' N 126° 36.2' E	Fl.Y. period 6s	42 13	7	Yellow round fiberglass tower; 17.	Horn: bl. ev. 43s.
17992 <i>F 4174</i>	-Sodu Am.	37° 28.8' N 126° 35.9' E	Fl.R. period 4s	52 16	8	Red round concrete tower; 52.	
17996 <i>F 4175.2</i>	-Hojong.	37° 29.0' N 126° 36.0' E	Fl.Y. period 6s	52 16	18	SPECIAL Y, beacon, topmark; 11.	Horn: 1 bl. ev. 20s.
18000 <i>F 4175.4</i>	--Dolphin "B".	37° 28.6' N 126° 35.8' E	Fl.Y. period 8s	52 16	18	SPECIAL Y, beacon, topmark; 11.	
18004 <i>F 4175</i>	-Inner Harbor Pier, head.	37° 28.3' N 126° 36.8' E	Fl.Y. period 6s	30 9	7	SPECIAL Y, beacon, topmark; 13.	
18008 <i>F 4174.5</i>	-Bulk Terminal.	37° 28.2' N 126° 36.7' E	Fl.Y. period 4s	30 9	7	SPECIAL Y, beacon, topmark; 9.	
18012 <i>F 4173.8</i>	-Tidal basin entrance, N. breakwater.	37° 28.0' N 126° 35.8' E	Fl.G. period 5s	52 16	8	White square concrete structure; 30.	
18016 <i>F 4173.6</i>	-Soweolmi Do, N. breakwater, angle.	37° 27.7' N 126° 35.8' E	Fl.R. period 5s	52 16	8	Red square concrete tower; 30.	
18017 <i>F 4173.52</i>	-Soweolmi Do, N. breakwater, head.	37° 27.7' N 126° 35.6' E	Fl.(3)G. period 7s	46 14	5	White octagonal concrete tower; 30.	
18018 <i>F 4173.5</i>	-Soweolmi Do, S. breakwater, head.	37° 27.5' N 126° 35.6' E	Fl.(3)R. period 7s	46 14	5	Red octagonal concrete tower; 30.	
18020 <i>F 4173.4</i>	--S. breakwater, angle.	37° 27.2' N 126° 35.8' E	Fl.G. period 5s	46 14	5	White concrete column; 31.	
18021	--"A".	37° 27.1' N 126° 35.8' E	Fl.(2)Y. period 6s	33 10	7	Yellow steel tower; 16.	
18021.5	--"B".	37° 27.2' N 126° 35.8' E	Fl.(3)Y. period 7s	33 10	7	Yellow steel tower; 16.	
18022	International breakwater.	37° 27.1' N 126° 35.6' E	Fl.R. period 5s	59 18	9	Red round concrete tower; 46.	
18028 <i>F 4172.15</i>	-Ssangyong Sea Berth.	37° 27.0' N 126° 36.0' E	Fl.Y. period 4s	54 16	7	SPECIAL Y, tower, topmark; 11.	
18032 <i>F 4172.1</i>	-SK Sea Berth.	37° 26.6' N 126° 35.6' E	Fl.Y. period 4s	39 12	7	SPECIAL Y, tower, topmark; 13.	
18032.2	Joyang.	37° 26.6' N 126° 35.5' E	Fl.(4)Y. period 8s	36 11	7	SPECIAL Y, tower, 14.	
18033	Yeongjongdo bridge, center.	37° 32.7' N 126° 35.0' E	F.W.	131 40	8		Marks center of navigable span. F.R. 5 miles close E. F.G. 4 miles close W.
RACON							
18040 <i>F 4148</i>	-Sonmi Do.	37° 17.2' N 126° 04.6' E	C(- • - •)	541 165	18	White round concrete structure; 31.	Visible 351°-281°.
18044 <i>F 4155.6</i>	-Seongab Do.	37° 05.4' N 126° 05.1' E	Fl.W. period 12s	164 50	8	White structure; 29.	
18048 <i>F 4149</i>	-Tokchok Pukni, breakwater.	37° 15.0' N 126° 07.0' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 24.	

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KOREA							
18049	-S.	37° 12.8' N 126° 05.5' E	Fl.(2)W. period 10s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 59.	
18050	Soyari.	37° 13.3' N 126° 09.6' E	Fl.R. period 4s	39 12	5	STARBOARD (B) R, beacon, topmark; 40.	
18051 F 4149.1	Dohang Sudo.	37° 13.8' N 126° 10.2' E	Fl.(2)R. period 6s	49 15	5	Red round concrete tower; 52.	
18052 F 4168.5	Soya Do.	37° 12.4' N 126° 11.7' E	Fl.W. period 4s	79 24	8	White octagonal concrete tower; 32.	
18056 F 4168	-Tongbaek To.	37° 11.7' N 126° 12.7' E	Fl.W. period 5s	102 31	9	White round concrete structure; 30.	
18060 F 4170	-Ijak To.	37° 10.8' N 126° 15.3' E	Fl.G. period 4s	49 15	5	Green round concrete tower; 46.	
18062 F 4170.4	-Kwangyo.	37° 10.1' N 126° 17.3' E	Fl.R. period 5s	43 13	5	STARBOARD (B) R, beacon, topmark; 52.	
18063	-Haejonso.	37° 10.8' N 126° 17.9' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, beacon, topmark.	
18063.5 F 4163.5	-Wolamdu, on islet.	37° 14.0' N 126° 19.2' E	Fl.R. period 5s	33 10	6	STARBOARD (B) R, beacon, topmark; 46.	
18063.7	-Chawolto.	37° 13.4' N 126° 21.3' E	Fl.(3)G. period 7s	39 12	5	PORT (B) G, beacon, topmark; 53.	
-RACON				M(—)		10	
18064 F 4169	-Muk'tong Do.	37° 16.0' N 126° 17.0' E	Fl.W. period 6s	85 26	8	White round concrete structure; 31.	
18068 F 4169.5	Sochochi Do.	37° 19.0' N 126° 17.0' E	Fl.W. period 4s	89 27	8	White square concrete tower; 28.	
18069	-Chociam.	37° 19.5' N 126° 13.5' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
18076 F 4146	-Sin Do.	37° 30.0' N 126° 03.0' E	Fl.W. period 6s	161 49	8	White round concrete tower; 20.	
18076.5	Songmodo.	37° 45.9' N 126° 20.5' E	Fl.R. period 6s	39 12	5	STARBOARD (B) R, beacon; 63.	
18077 F 4146.5	-Soyo.	39° 28.6' N 126° 15.2' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
18080 F 4145	-Soyonp'yong.	37° 36.0' N 125° 43.0' E	Fl.(2)W. period 6s	128 39	7	White round concrete tower; 20. Visible 224°-122°.	
18083	Nounso.	37° 34.8' N 125° 43.0' E	Fl.(2)W. period 10s	52 16	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
18087 F 4137.2	--Yonpang, S. breakwater.	37° 39.4' N 125° 42.8' E	Fl.G. period 6s	43 13	5	White octagonal concrete tower; 30.	
18088 F 4137.4	--E. breakwater, head.	37° 39.5' N 125° 42.8' E	Fl.R. period 6s	46 14	5	Red round concrete structure; 19	
HAEJU MAN:							
18093 F 4138	-Haricho.	37° 45.7' N 125° 38.2' E	Fl.W. period 12s	30 9	5	Red round concrete tower; 56.	Seasonal.
18094 F 4139	-Pupo Hang.	37° 48.0' N 125° 37.4' E	F.R.		2		
18096 F 4140	-Jincho.	37° 48.4' N 125° 43.2' E	Fl.W. period 12s	30 9	5	Black round concrete structure;	Seasonal. 55.

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KOREA							
18104 F4136	-Soch'ong Do.	37° 45.4' N 124° 43.9' E	Fl.(4)W. period 40s 4 fl. 20s, ec. 20s	272 83	20	White round concrete structure; 33.	Visible 254°-205°. Signal station (by day). Siren: 1 bl. ev. 45s.
	- RACON		K(-•-)				
18105	Monggumpo.	38° 11.3' N 124° 47.1' E	Fl.(2)W. period 30s	141 43	20		Siren.
18106	Oryuji Gi.	38° 20.7' N 124° 51.4' E	Fl.W. period 15s		15		
TAEDONG GANG:							
18112 F4116	-So Do.	38° 32.9' N 124° 45.9' E	Fl.W. period 20s	308 94	15	White roundr concrete structure; 31.	Visible 346°-268°.
18116 F4118	-Chamae Do.	38° 40.6' N 124° 58.7' E	Fl.W. period 18s	138 42	18	White round concrete structure; 31.	Visible 359°-279°. Horn.
18118 F4117.5	-Kuro Iso.	38° 35.6' N 124° 57.5' E	Fl.W. period 9s	26 8	5		
18118.5	-Huibonggang, SE. point of Chodo.	38° 30.4' N 124° 53.7' E	Fl.W. period 3s	118 36	10	White octagonal concrete tower; 29.	
18119 F4117	-Songmun Am.	38° 30.5' N 124° 54.4' E	Fl.W. period 10s		5		
18120 F4119	-Toku Somu, on islet.	38° 44.7' N 124° 58.3' E	Fl.W. period 15s	288 88	10		
18124 F4120	-Ch'an Do.	38° 40.9' N 125° 07.0' E	Fl.W. period 15s	124 38	10	White round concrete structure; 18.	Visible 040°-308°. Seasonal.
18128 F4122	-Chiri Do, on islet.	38° 42.0' N 125° 08.5' E	Fl.W. period 12s	66 20	10	White octagonal concrete structure; 25.	Seasonal.
18132 F4126	-P'i Do.	38° 40.7' N 125° 10.6' E	Fl.(2)W. period 30s	282 86	18	White square concrete tower; 108.	
18136 F4128	-Orip'o-ri, on point.	38° 39.4' N 125° 13.5' E	F.W.	118 36	5	White concrete structure; 23.	
18148 F4132	-Namp'o, Bu Pibalto.	38° 43.2' N 125° 24.6' E	Fl.W. period 9s	85 26	4	Framework tower on white hexagonal concrete structure; 36.	
18149	-Taegamdo.	39° 28.6' N 125° 06.8' E	Fl.W. period 12s		6		
YALU RIVER:							
18152 F4113	-Nap To, on islet.	39° 16.1' N 124° 43.0' E	Fl.W. period 5s		6		
18156 F4112	-Taehwa Do.	39° 26.3' N 124° 35.4' E	Fl.W. period 20s	312 95	20	White hexagonal metal framework structure; 79.	Visible 324°-188°.
18160 F4104	-Suun Do, in E. channel of Yalu River entrance.	39° 41.2' N 124° 24.6' E	Fl.W. period 10s	157 48	12	White round concrete structure; 26.	Visible 345°-189°.
18164 F4105	-Un Do (Un To), summit of island.	39° 43.7' N 124° 24.2' E	Fl.(2)W. period 6s 2 fl. 1.5s, ec. 4.5s	83 25	13	White square concrete structure; 22.	
18166 F4106	-Munbakdo.	39° 49.4' N 124° 20.5' E	Fl.W. period 3s		6		Seasonal.
18168 F4107	-Sampo.	39° 56.0' N 124° 21.0' E	Iso.W. period 6s	203 62	12	Red hexagonal brick structure; 33.	

The existence and operation of all navigational aids should be considered unreliable on the east coast of North Korea.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KOREA							
18176 <i>F 4100</i>	-Maan Do, in W. channel of Yalu River.	39° 48.1' N 124° 11.3' E	Fl.W. period 5s	237 72	10	White round brick structure; 26.	Visible 282°-241°. Discontinued during winter, when Yalu River is closed.

The existence and operation of all navigational aids should be considered unreliable on the east coast of North Korea.

Section 11

China

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18208 F 4067	Guanglu Dao.	39° 10.1' N 122° 25.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	292 89	11	White round concrete tower.	
18210 F 4068.1	Jiaoliu Dao.	39° 16.5' N 122° 42.7' E	Fl.R. period 6s	82 25	10	White square tower; 26.	
18212 F 4064	Yuan Dao.	38° 40.5' N 122° 09.8' E	Fl.W. period 15s	215 66	20	White round concrete structure; 66.	Reserve light Fl.W. 5s 10M.
	RACON		B(---•)				
18216 F 4062	Yu Yan.	38° 34.2' N 121° 38.4' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	65 20	14	White round concrete tower; 52.	
	RACON		Z(--•)				
18220 F 4058	Dasanshan Dao.	38° 51.9' N 121° 49.6' E	Fl.W. period 10s	266 81	23	White round stone structure; 39.	Visible 248°-158°. Reserve light range 10M. Siren: 4 bl. ev. 30s. Radiobeacon:
18222 F 4060	Xian Jiao.	38° 57.8' N 121° 59.2' E	Fl.W. period 5s	69 21	15	Red and white post on hexagonal concrete base; 54.	
	RACON		O(---)				
18225 4 065.5	Nandaquan.	39° 01.1' N 121° 54.9' E	Fl.(2)W. period 10s	187 57	20	White square concrete tower; 72.	
18226 F 4066	Dayao Wan, S. breakwater, head.	39° 00.1' N 121° 54.0' E	F.R.	85 26	12	Red beacon, white stripes; 72.	Channel marked by buoys.
18226.2 F 4065.5	-N. breakwater.	39° 00.2' N 121° 54.2' E	Fl.G. period 5s	66 20	10	White round concrete tower; 20.	
18227 F 4059.2	Dalian Gang, Oil Pier.	38° 59.0' N 121° 53.8' E	F.R.	39 12			
18228 F 4059	Shatuozi.	38° 58.1' N 121° 54.3' E	Fl.W. period 6s	120 37	18	White round concrete tower; 121.	
	RACON		Y(---)				
18229 F 4059.3	Daliangangxin Gang, Oil Terminal.	38° 58.6' N 121° 54.2' E	F.G.	52 16	2	White triangular framework structure; 56.	
18231 F 4059.5	-Operations Pier.	38° 58.3' N 121° 53.9' E	F.R.	33 10	8	White round concrete structure; 33.	
18234 F 4058.5	Jiucaituozi.	38° 57.0' N 121° 52.0' E	Fl.(2)W. period 6s	59 18	7	White round concrete tower; 26.	
DALIAN GANG:							
18236 F 4010	-Huangbai Zui.	38° 54.2' N 121° 42.9' E	Al.W.R. period 10s	312 95	W. 20 R. 10	White concrete tower; 51.	Visible 122°-007°.
18238 F 4012	-Zhongyue Pier, head.	38° 54.9' N 121° 42.1' E	F.G.		3	White beacon.	
18240 F 4016	-Jijiko Oil Pier No. "1", N. head.	38° 55.3' N 121° 41.0' E	F.G.	49 15	4	White square concrete post; 38.	
18244 F 4018	--Pier No. "2".	38° 55.2' N 121° 41.4' E	F.R.	49 15	8	White round concrete structure; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18256 F 4022	-Dagang Qu, E. entrance, N. side.	38° 56.3' N 121° 40.2' E	Iso.W. period 12s	43 13	5	Round stone pile; 43.	
18260 F 4020	--S. side.	38° 56.1' N 121° 40.1' E	Iso.R. period 12s	36 11	6	Round stone tower; 43.	
18264 F 4026	--N. entrance, E. side.	38° 56.7' N 121° 38.8' E	F.R.	62 19	6	Square metal structure, upper portion red; 62.	
18268 F 4028	--W. side.	38° 56.3' N 121° 38.2' E	F.R.	66 20	6	Square metal structure, upper portion red; 62.	
18272 F 4030	--W. entrance, N. side.	38° 56.3' N 121° 38.2' E	F.R.	36 11	4	White concrete column; 30.	
18276 F 4032	--S. side.	38° 56.3' N 121° 38.2' E	F.W.	36 11	6	White round concrete structure; 27.	
18277 F 4033	--Inner spur.	38° 56.2' N 121° 38.3' E	F.G.	30 9	8	White round concrete structure; 27.	
18279 F 4045	-Fuel pier.	38° 58.1' N 121° 39.1' E	F.R.	46 14	6	White round metal pile; 36.	
18280 F 4044	-Ganjingzi Big Wharf.	38° 57.5' N 121° 38.5' E	F.G.	39 12	6	White square metal framework tower; 40.	
18282 F 4043	--E. jetty.	38° 57.5' N 121° 38.0' E	F.W.	42 13	5		
18286	-Heshing Dao, No. "11".	38° 59.1' N 121° 46.3' E	Fl.G. period 4s			STARBOARD (A) G, pillar, topmark.	
	-RACON		G(—→)				
18312 F 3986	Laotieshan Xijiao.	38° 43.8' N 121° 08.0' E	Fl.(2)W. period 30s	328 100	25	White round metal structure; 46.	Visible 282°-178°. Reserve light Fl.W. 4s 10M. Radiobeacon.
	RACON		M(—)				
18316 F 4011	Xiaolongshan Dao.	38° 57.2' N 120° 58.5' E	Fl.W. period 5s	226 69	15	White round concrete tower; 28.	Visible 342°-227°.
18334 F 3983	Changxing Dao.	39° 31.4' N 121° 13.8' E	Fl.W. period 25s	653 199	25	White round concrete tower; 33.	Visible 354°-200°. Reserve light range 10M.
18334.3	Dagushan.	39° 51.6' N 121° 32.4' E	Fl.W. period 20s	259 79	20	Red and white concrete structure; 64.	Reserve light Fl.(3)W. 20s 12M
18334.6	Taiping Jiao.	40° 01.6' N 121° 49.6' E	Fl.W. period 15s	115 35	20	White concrete structure; 42.	
BAYUQUAN GANG:							
18334.7 F 3979	-Approach channel Range, front.	40° 17.2' N 122° 05.3' E	F.W.	69 21	10	Orange and white beacon, triangular topmark, point up; 82.	S. limit marked by F.G. lights in line. N. limit marked by F.R. lights in line. Reserve light F.W. 10M.
18334.71 F 3979.1	--Rear, 1740 meters 097°24' from front.	40° 16.8' N 122° 07.4' E	F.W.	157 48	10	Orange and white beacon, triangular topmark, point down; 147.	Reserve light F.W. 10M.
18334.75 F 3979.15	-N. breakwater.	40° 17.4' N 122° 04.9' E	Q.R.	30 9	4	White round structure; 38.	
18334.8 F 3979.2	-W. breakwater, N. head.	40° 17.2' N 122° 04.8' E	Q.G.	30 9	4	White concrete structure.	
18335 F 3978	Taizi Shan.	40° 17.7' N 122° 06.4' E	Fl.W. period 10s	430 131	25	Yellow concrete tower; 69.	Reserve light range 7M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18336 F3970	YINGKOU LIGHTSHIP.	40° 31.1' N 121° 59.0' E	Fl.W. period 12s	36 11	10	Red hull, name painted on sides.	
	RACON		Y(---)				
YING KOU:							
18340 F3950.71	-Bar Range, front.	40° 35.7' N 122° 09.6' E	F.W.	56 17	8	Black framework structure, triangular topmark, point up; 73.	Turning lights.
18344 F3971.1	--Rear, 950 meters 061° from front.	40° 36.0' N 122° 10.2' E	F.W.	105 32	8	Black framework structure, triangular topmark, point down; 106.	
18348 F3971.9	-Inner Channel Range, front.	40° 37.5' N 122° 08.8' E	F.R.	46 14	7	Black framework structure triangular topmark, point up; 59.	Forms range 040°15' with common rear. Visible 027°-057°.
18352 F3972	--Common rear.	40° 37.9' N 122° 09.2' E	F.R.	95 29	7	Black framework structure, triangular topmark, point down; 95.	Visible 035°-185°.
18353 F3972.1	--No. "4" Range, front.	40° 38.1' N 122° 09.2' E	F.R.	62 19	4	Black framework structure, triangular topmark, point up; 66.	Forms range 173°20' with common rear. Visible 099°-189°.
18358 F3972.3	Xishiba beacon.	40° 39.3' N 122° 08.5' E	Fl.R. period 4s				
18373 F3972.5	-W. channel Range, front.	40° 40.9' N 122° 08.4' E	F.W.	52 16	8	Black framework structure, triangular daymark, point up; 59.	
18374 F3972.1	--Rear, 650 meters 014°45' from front.	40° 41.3' N 122° 08.5' E	F.W.	85 26	8	Black framework structure, triangular daymark, point down; 92.	
18375 F3975	-Zaomu Gou.	40° 41.9' N 122° 08.5' E	Fl.W. period 4s	36 11	4	Black steel framework structure; 33.	
18376 F3976	-W. Channel Range No. "2", front.	40° 42.2' N 122° 08.7' E	F.R.	43 13	4	Black framework tower, black triangular daymark, point up; 39.	
18377 F3976.1	--Rear, 160 meters 353°20' from front.	40° 42.3' N 122° 08.7' E	F.R.	56 17	4	Black framework tower, black triangular daymark, point down; 52.	
18378 F3977	-Yongyuau Jiao.	40° 42.7' N 122° 09.9' E	Fl.W. period 6s	36 11	4	Black steel framework structure; 33.	
18380	Huludao Jiao.	40° 42.9' N 121° 01.3' E	Fl.(2)W. period 12s	423 129	18		
18382	Jinzhou Gang Range, front.	40° 48.7' N 121° 03.9' E	F.W.	138 42	12	White beacon, round daymark.	Channel marked by lighted port and starboard buoys.
18382.1	-Rear, 1820 meters 005°41' from front.	40° 49.7' N 121° 04.0' E	Fl.W. period 4s	240 73	12	White beacon, round daymark.	
18383 F3966.5	Basin No. "5" Range, front.	40° 47.9' N 121° 04.7' E	F.R.	49 15	6		
18383.1 F3966.51	-Rear, 110 meters 060° from front.	40° 47.9' N 121° 04.7' E	F.R.	66 20	6		
18384 F3966.2	-Pier.	40° 47.8' N 121° 04.0' E	Fl.W. period 4s	66 20	4		
18387 F3964	Tuan-shan Chiao.	40° 12.9' N 120° 27.3' E	Fl.(2+1)W. period 20s	135 41	18	White and red tower.	
	RACON		Z(--••)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18390	Huanhaisidi Zui.	40° 00.1' N 119° 54.8' E	Fl.W. period 10s	82 25	15	White round concrete tower; 40.	
RACON							
18408	Nanshan Tou. F 3937	39° 54.7' N 119° 37.0' E	Fl.W. period 15s	194 59	20	White round concrete tower; 161.	Reserve light range 10M. Radiobeacon.
18412	-Qinhungdao Gang Range, front. F 3937.4	39° 55.0' N 119° 37.3' E	F.W.	102 31	6	White concrete structure, "V"" daymark; 98.	E. and W. channel limits marked by F.G. and F.R., 2 F.G. and 2 F.R. ranges, respectively. 2 F.W. mark dredged channel.
18416	--Rear, 2180 meters 340° from front. F 3937.41	39° 56.1' N 119° 36.8' E	Iso.W. period 4s	154 47	6	White concrete structure, "V"" daymark; 154.	
18420	-Zhongxin Biao. F 3937.6	39° 53.7' N 119° 37.9' E	Iso.W. period 2s	52 16	6	Concrete tower; 49.	
-RACON							
	M(-)						
18424	-Oil pier, outer head. F 3949.5	39° 55.3' N 119° 39.3' E	F.R.	49 15	3	White concrete tower; 39.	
18428	-Fuel oil pier. F 3950	39° 55.6' N 119° 39.1' E	Fl.R. period 4s	39 12	3	White concrete tower; 39.	
18432	--Outer head. F 3950.5	39° 55.1' N 119° 39.4' E	Fl.W. period 3s	36 11	3	White concrete tower; 39.	
18440	-Range, front. F 3943	39° 54.5' N 119° 36.1' E	F.W.	72 22	3		Lights in line mark either side of fairway; front F.G., rear F.R.
18444	--Rear, 1056 meters 352°32' from front. F 3943.1	39° 55.0' N 119° 36.0' E	F.W.	118 36	3		
18448	-E. Channel Range, common front. F 3948	39° 56.1' N 119° 39.4' E	F.W.	105 32	12	White concrete tower, red bands; 84.	F.W. lights in line mark either side of fairway. Channel marked by Fl.R. and Fl.G. articulated beacons.
18448.1	--Middle, 926 meters 330° from common front. F 3948.11	39° 56.6' N 119° 39.1' E	Fl.W. period 6s	141 43	12	Red and white concrete tower, diamond daymark.	
18448.2	--Rear, 1946 meters 330° from common front. F 3948.15	39° 57.1' N 119° 38.7' E	F.W.	190 58	12	White concrete tower.	
18452	--Rear, 1200 meters 011° from front. F 3948.1	39° 56.8' N 119° 39.5' E	Oc.W. period 5s	144 44	6	White concrete tower, red bands; 148.	
18452.5	-Meisanqi Hangdao Range, front. F 3953.8	39° 56.0' N 119° 40.5' E	F.W.	56 17	6	White mast, diamond daymark;	Limits of channel marked by F.W. lights in line.
18452.6	--Middle, 400 meters 035° from front. F 3953.81	39° 56.4' N 119° 40.5' E	F.W.	91 28	6	White metal framework structure, diamond daymark; 101.	
18452.7	---Rear, 1235 meters 035° from front. F 3953.82	39° 56.6' N 119° 41.0' E	Fl.W. period 5s	131 40	6	White metal framework structure, diamond daymark; 130.	
18452.8	-Meisanqi terminal, head. F 3953.9	39° 55.5' N 119° 40.1' E	F.G.	52 16	3	Metal post; 58.	Harbor limits marked by lit articulated beacons.
18453	-Chenxiang Hangdao. F 3954.65	39° 55.7' N 119° 39.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	4	White concrete cylinder.	
18453.2	-S. pier, head. F 3954.9	39° 56.0' N 119° 40.1' E	Fl.(2)W. period 4s	39 12	3		
18453.4	-E. pier, head. F 3954.91	39° 56.1' N 119° 40.1' E	Fl.R. period 2s	16 5	1		
18454	-Detached breakwater, E. head. F 3942	39° 54.0' N 119° 35.8' E	Fl.R. period 4s	39 12	3	Round concrete tower; 33.	
18454.5	-Detached breakwater, W. head. F 3942.1	39° 54.0' N 119° 34.4' E	Fl.W. period 4s	39 12	3	Round fiberglass pole, green and white bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18456 <i>F 3943.8</i>	-S. breakwater, head.	39° 54.2' N 119° 36.4' E	Oc.W. period 2s	56 17	3	Round fiberglass beacon, green and white bands; 36.	
18460 <i>F 3944.5</i>	-Tideguage.	39° 54.4' N 119° 36.6' E	Fl.R. period 3s	9 3	1		
18464 <i>F 3943.9</i>	-Pier, head.	39° 54.4' N 119° 36.4' E	F.G.	66 20	3	Square concrete post; 56.	
18466 <i>F 3945</i>	-Pier "A".	39° 54.3' N 119° 35.7' E	F.G.	39 12	3	Concrete tower; 40.	
18468 <i>F 3941</i>	-W. Channel Range, front.	39° 54.4' N 119° 35.3' E	F.W.	98 30	6	White concrete tower, red bands; 102.	
18472 <i>F 3941.1</i>	--Rear, 1250 meters 310° from front.	39° 54.9' N 119° 34.7' E	Oc.W. period 5s	144 44	6	White concrete tower, red bands; 148.	Limits of channel marked by F.W. lights in line.
18476 <i>F 3936</i>	Jinshan Zui.	39° 48.6' N 119° 31.6' E	Fl.(2)W. period 6s	171 52	8	White metal framework structure; 92.	
	RACON		Z(-- •)				
18494	Jingtang Gang.	39° 12.8' N 119° 00.8' E	Fl.(2)W. period 10s	131 40	18	Red round tower, white bands; 115.	
18496 <i>F 3932</i>	-Caofeidian.	38° 55.0' N 118° 30.3' E	Fl.(3)W. period 12s	69 21	14	Black steel framework tower, can topmark; 75.	Radar Reflector.
	-RACON		C(-- • --)				
PO HAI:							
18500 <i>F 3908</i>	-Dagu.	38° 56.3' N 117° 58.8' E	Fl.W. period 10s	118 36	17	Round concrete tower, red and white bands; 126.	Reserve light Fl.W. 10s 10M. Channel marked by lighted buoys and beacons.
	-RACON		K(-- • -)		15		Frequency coverage 9330-9450 MHz. Azimuth coverage 050°-130°.
18504 <i>F 3910</i>	-Xingang, center of channel.	38° 58.8' N 117° 44.1' E	Fl.W. period 5s	92 28		Steel framework structure, black diamond daymark; 92.	Marks center of two-way channel.
18508 <i>F 3910.1</i>	--Rear, 1,700 meters 281°36' from front.	38° 59.0' N 117° 43.0' E	Iso.W. period 4s	171 52		Steel framework structure, black diamond daymark; 13.	
	--RACON		M(--)				
18512 <i>F 3912</i>	-N. channel Range, front.	38° 58.8' N 117° 44.1' E	F.W.	79 24		Steel framework structure, black triangular daymark; 79.	Marks middle of north channel. North limit of channel marked by front and rear beacons in line 281°36' each F.R. with square daymark.
18516 <i>F 3912.1</i>	--Rear, 1,700 meters 281°36' from front.	38° 59.0' N 117° 43.0' E	F.W.	154 47		Steel framework structure, black triangular daymark; 154.	
18520	-S. channel Range, front.	38° 58.8' N 117° 44.1' E	F.W.	82 25		Steel framework structure, black triangular daymark, point down; 75.	Marks middle of south channel. South limit of channel marked by front and rear beacons in line 281°36' each F.R. with black square daymark.
18524	--Rear, 1,700 meters 281°36' from front.	38° 58.9' N 117° 43.0' E	F.W.	148 45		Steel framework structure, black triangular daymark, point down; 144.	
18526	-Pier.	38° 58.9' N 117° 44.0' E	Fl.R. period 3s	36 11	5	Round structure, red and white bands; 27.	
18528 <i>F 9690.4</i>	Laizhou Wan.	38° 07.6' N 119° 33.3' E	Mo.(U)W. period 15s	66 20	15		Mo.(U) 15s 15M Siren marks wellhead 2.5 miles NNE. Fl.(2) 5s mark wellheads 1.4 miles and 5.8 miles S Siren.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18532 F 3897	Qimu Jiao.	37° 41.2' N 120° 13.7' E	Fl.W. period 5s	187 57	18	White round masonry tower; 16.	
18533 F 3898	Longkou Gang Range, front.	37° 38.6' N 120° 19.1' E	Iso.R. period 4s	82 25	6	Black metal framework tower, diamond daymark; 52.	
18533.5 F 3898.1	-Rear, 400 meters 086°30' from front.	37° 38.6' N 120° 19.8' E	F.R.	135 41	6	Black metal framework tower, diamond daymark; 69.	
18534 F 3899	-Turning lights Range, front.	37° 39.4' N 120° 19.1' E	F.R.	52 16	3	Black metal framework tower, diamond daymark; 69.	
18534.5 F 3899.1	-Rear, 240 meters 037°28' from front.	37° 39.5' N 120° 19.2' E	F.G.	69 21	3	Black metal framework tower, diamond daymark; 62.	
18536 F 3894	Beichangshan Dao.	37° 59.2' N 120° 42.8' E	Fl.W. period 10s	335 102	22	White round concrete tower; 40.	Visible 122°-253°. Reserve light range 10M.
18537 F 3895.35	Lujabazi.	37° 58.8' N 120° 39.2' E	Fl.W. period 3s	82 25	8	White round stone tower; 16.	
18538 F 3895.3	Miao Zui.	37° 58.0' N 120° 38.4' E	Fl.W. period 6s	157 48	8	White round stone tower; 16.	
18539 F 3895.28	Niutuozi.	37° 55.9' N 120° 40.1' E	Fl.(2)W. period 6s	105 32	8	White round stone tower; 16.	
18556 F 3892	Houji Dao.	38° 03.5' N 120° 38.4' E	Fl.W. period 12s	341 104	15	Black round tower, building white; 46.	
18558 F 3895.85	Penglai Gang.	37° 49.8' N 120° 44.6' E	Fl.W. period 5s fl. 1s, ec. 4s	295 90	20	White round stone tower.	
18560 F 3893.5	Dazhushan.	38° 01.2' N 120° 56.3' E	Fl.W. period 8s	669 204	15	Round tower, black and white bands; 33.	
18564 F 3893	Xiaozhushan Dao.	38° 01.3' N 120° 52.2' E	Fl.W. period 5s	340 104	18	White round tower; 16.	Obscured 258°-271°.
18568 F 3892.5	Beihuangcheng Dao.	38° 23.5' N 120° 54.7' E	Fl.(2)W. period 15s	561 171	25	White round stone tower; 33.	
RACON							
M(--)							
YEN-TAI:							
18572 F 3882	-Yantai Shan.	37° 32.9' N 121° 24.0' E	Fl.W. period 9s	263 80	20	White concrete tower.	Visible 210°-284°, partially obscured by shore.
18576 F 3884	-Breakwater, N. head.	37° 33.5' N 121° 23.8' E	Fl.R. period 4s	49 15	5	Red square metal framework structure; 39.	
18580 F 3886	-Breakwater, S. head.	37° 33.1' N 121° 24.0' E	Q.G.	49 15	8	Green square metal framework structure; 39.	
18584 F 3888	-Mole, head.	37° 33.3' N 121° 23.7' E	Fl.G. period 4s	33 10	8	Green square metal framework structure; 23.	
18586 F 3887	-Inner Harbor Range, front.	37° 33.1' N 121° 23.2' E	F.R.	102 31	3	Red square framework tower, white bands, triangular daymark, point up; 97.	
18586.1 F 3887.1	--Rear, 280 meters 280° from front.	37° 33.2' N 121° 23.1' E	F.R.	141 43	3	Red square framework tower, white bands, triangular daymark, point down; 128.	
18587 F 3882.5	-W. Port Area Range, front	37° 33.7' N 121° 22.1' E	F.R.	125 38	15	Round structure, red and white diamond daymark; 115.	N. and S. channel limits marked by F.G. range lights.
18587.1 F 3882.51	--Rear, 830 meters 248° from front.	37° 33.6' N 121° 21.6' E	F.R.	161 49	15	Round structure, red and white diamond daymark; 148.	
18587.5 F 3886.5	-W. Port Area, E. breakwater.	37° 34.1' N 121° 23.4' E	Q.R.	56 17	5	Red square framework structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18587.6 F 3881.4	-Vehicle Ferry Pier.	37° 35.4' N 121° 22.8' E	F.R.	30 9	6	Black steel framework structure; 5.	
18587.7 F 3881.5	-Operations Pier, head.	37° 35.6' N 121° 22.6' E	F.G.	42 13	8	White steel pipe; 26.	
18587.8 F 3881.6	-Salvage Pier, head.	37° 35.7' N 121° 23.5' E	Q.W.				
18588 F 3881	-Xiaoshanzi.	37° 35.6' N 121° 26.0' E	Fl.W. period 6s	69 21	6	White square brick tower; 26.	
18592 F 3880.5	-Dajiaoshi (Stickup Rock).	37° 34.8' N 121° 28.1' E	Fl.(2)R. period 6s	52 16	2	Red metal pole; 13.	Visible 031°30'-273°30'. Fishing light.
18596 F 3878	Kongtong Dao.	37° 33.7' N 121° 30.9' E	Fl.W. period 15s	256 78	20	White round concrete structure; 62.	
RACON		G(---)					
18600 F 3876	Jingzi Tou.	37° 33.7' N 122° 07.2' E	Fl.W. period 15s	302 92	25	White round stone tower; 26.	
18604 F 3880	Pei Shih.	37° 36.5' N 121° 35.4' E	Fl.(2)W. period 6s	92 28	8	White square stone tower; 12.	
18608 F 3868	Zhaobei Zui.	37° 27.7' N 122° 14.6' E	Fl.W. period 8s	95 29	15	White round metal tower and dwelling; 29.	Partially obscured by shore.
18612 F 3870	-Dahong, E. entrance, N. side.	37° 29.7' N 122° 12.9' E	Fl.W. period 5s	33 10	8	Round stone tower, red and white bands; 23.	Occasional.
18616 F 3869	Ri Dao.	37° 28.7' N 122° 12.1' E	Fl.(2)W. period 6s	62 19	7	White round stone tower; 16.	
18620 F 3874	Yashi Dao.	37° 31.7' N 122° 10.5' E	Fl.G. period 5s	46 14	8	White round stone tower; 16.	
18624 F 3871	-Qigan Zui.	37° 29.5' N 122° 08.4' E	Fl.W. period 12s	75 23	16	White round stone tower; 36.	Reserve light Fl.W. 3s.
18626 F 3871.7	Weihai Gang Range, front.	37° 30.4' N 122° 07.2' E	Oc.R. period 4s	102 31	4	Red and white framework tower, black triangular topmark, point up; 33.	
18626.1 F 3871.71	-Rear, 190 meters 270° from front.	37° 30.4' N 122° 07.1' E	F.R.	135 41	4	Red and white framework tower, black triangular topmark, point down; 122.	
18628 F 3871.63	Weihai pier, N side.	37° 30.4' N 122° 07.5' E	Q.R.	75 23	4		
18628.5 F 3871.6	-S. side.	37° 30.3' N 122° 07.5' E	F.R.	75 23	4		
18634 F 3867	Jiming Dao.	37° 27.1' N 122° 29.0' E	Fl.W. period 10s	252 77	15	Round stone tower, red and white bands; 26.	
18636 F 3866	Hailu Dao.	37° 26.8' N 122° 39.9' E	Fl.W. period 5s	233 71	15	White round stone tower; 23.	
RACON		X(---) period 20s					
18640 F 3864	Chengshan Jiao.	37° 23.7' N 122° 42.1' E	Fl.(2)W. period 20s	198 60	25	White round tower; 53.	Obscured 044°-117° and intermittently between 117°- 158° by 7 peaks including 150°-153° by Hailu Dao. Reserve light range 12M. Radio beacon.
18644 F 3863	Waizhe Dao.	37° 15.5' N 122° 35.0' E	Fl.W. period 6s	128 39	6	White round stone tower; 18.	
18648 F 3862	Haimaozi Tau.	37° 09.6' N 122° 34.1' E	Fl.W. period 12s	247 75	25	White round stone tower; 46.	
RACON		Y(---)					

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18652 <i>F 3860</i>	Mo ye Dao.	36° 53.8' N 122° 30.9' E	Fl.W. period 15s	93 28	15	Round stone tower, red and white bands; 70.	Siren: 2 bl. ev. 100s. Radio beacon.
18656 <i>F 3858</i>	Sushan Dao.	36° 45.1' N 122° 15.4' E	Fl.W. period 25s	379 116	20	White round stone tower; 33.	
18660 <i>F 3856</i>	Qianli Yan.	36° 16.1' N 121° 23.2' E	Fl.W. period 15s	276 84	24	Round stone tower, red and white bands; 49.	Obscured 324°-332°.
18662 <i>F 3851</i>	Changmen Yan.	36° 10.8' N 120° 56.8' E	Fl.W. period 2s				Occasional.
18664 <i>F 3850.6</i>	Laoshan Tou.	36° 08.1' N 120° 42.8' E	Fl.W. period 6s	341 104	10	White round stone tower; 16.	Obscured 072°-158°.
RACON		O(---)					
18666 <i>F 3850.5</i>	Tuolou Dao.	36° 04.7' N 120° 35.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	69 21	3	White round stone tower.	
CHIAO-CHOU WAN:							
18668 <i>F 3814</i>	-Chaolian Dao.	35° 53.7' N 120° 52.6' E	Fl.W. period 10s fl. 1s, ec. 9s	262 80	24	White octagonal stone tower; 42.	Siren: 3 bl. ev. 90s.
18670 <i>F 3816</i>	Xiaogong Dao.	35° 59.8' N 120° 35.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	135 41	3	White round stone tower.	
18672 <i>F 3818</i>	Dagong Dao.	35° 57.6' N 120° 29.5' E	Fl.W. period 5s	430 131	15	White round tower; 34.	
18676 <i>F 3820</i>	Zhucha Dao.	35° 56.4' N 120° 18.5' E	Fl.(3)W. period 10s	131 40	9	White round stone tower; 16.	Obscured 264°-276°.
18678 <i>F 3821</i>	Lian Dao.	35° 56.5' N 120° 19.6' E	Fl.W. period 6s	52 16	8	Fiberglass structure, red and white bands; 8.	
18679 <i>F 3811</i>	Liansan Dao.	35° 54.0' N 120° 10.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	318 97	12	Square stone tower.	
18679.2 <i>F 3811</i>	Laoling Shi.	35° 53.1' N 120° 09.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	6	White round concrete tower.	
18680 <i>F 3810</i>	Lingshan Dao.	35° 44.7' N 120° 09.4' E	Fl.W. period 6s	121 37	10	Round stone tower, red and white bands; 16.	Obscured 147°-310°.
18684 <i>F 3822</i>	Daqiao Dao.	35° 59.5' N 120° 19.7' E	Fl.(2)W. period 5s	39 12	12	Red structure, white concrete base; 41.	
RACON		B(-••)					
18686 <i>F 3823</i>	HUANDAO, OUTER CHANNEL LIGHTSHIP.	36° 00.1' N 120° 19.9' E	Fl.(2)W. period 10s			Red hull.	Radar reflector.
RACON		K(-•-)					
18688 <i>F 3826</i>	Ch'ing Tao.	36° 03.0' N 120° 19.0' E	Fl.R. period 6.5s	91 28	12	White octagonal stone tower; 51.	Reserve light Fl.R. 6.5s 9M.
18690	-Tuandao Wan.	36° 03.0' N 120° 18.1' E	Fl.G. period 4s	32 10	8	Round concrete structure, green and white bands; 20.	
18692 <i>F 3824</i>	Tuan Dao.	36° 02.7' N 120° 17.0' E	Oc.W.R.G. period 5s	78 24	15	Octagonal stone tower, black and white bands; 50.	R. 253°-283°, W.-184°, G.-213°, obscured -253°. Reserve light Fl.W. 3s 13M. Horn: 4 bl. ev. 30s.
RACON		Y(-•--)					

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18694	Huandao, Buoy No. "31".	36° 01.9' N 120° 15.4' E	Q.R.			PORT (A) R, pillar, topmark.	
	RACON		M(--)				
18700 F3825	ZHONGSHA JIAO LIGHTSHIP.	36° 04.0' N 120° 15.3' E	Fl.W. period 6s	33 10	6	Red hull with name painted on sides.	Radar reflector.
	RACON		Z(--••)				
18704 F3832	-Mati Jiao.	36° 04.6' N 120° 17.4' E	Fl.W. period 8s	28 9	12	White round stone tower, black bands; 36.	
	-RACON		C(--•--)				
18708 F3836	-Da Gang, breakwater, N. head.	36° 05.4' N 120° 18.2' E	Iso.W. period 4s	23 7	6	White stone structure; 16.	
18720 F3837.5	-Da Gang Entrance Left, Wharf No. "5", S. head.	36° 05.4' N 120° 18.5' E	F.R.	28 9	7	Round stone structure, red and white bands; 16.	
18728 F3837	-Da Gang Entrance Right, wharf No. "1", W. head.	36° 05.3' N 120° 18.7' E	F.G.	29 9	8	Round stone structure, green and white bands; 16.	
18732 F3844	-Da Gang Range, front, mole No. "2", NW. head.	36° 05.4' N 120° 19.0' E	Iso.G. period 2s	36 11	3	White metal framework structure, black and white trapezoidal daymark; 30.	
18736 F3844.1	--Rear, 1120 meters 074° from front	36° 05.6' N 120° 19.7' E	Iso.G. period 2s	62 19	4	White metal framework structure, black and white trapezoidal daymark; 60.	
18740 F3847	-Huang Dao oil wharf, front.	36° 04.2' N 120° 13.4' E	F.G.	52 16	3	Round steel tower, black and white bands; 37.	
18744 F3847.1	--Rear, 1016 meters 163°30' from front.	36° 03.6' N 120° 13.6' E	F.G.	62 19	3	Round steel tower, black and white bands; 37.	Visible 161°-166°.
18748 F3847.5	--Wharf.	36° 03.8' N 120° 13.6' E	F.R.	36 11	3	Red round steel tower; 21.	
18750 F3813	Lingshan Chuanchang, pier, head.	35° 54.6' N 120° 08.2' E	F.R.				
18751 F3809	Dazhushan Zui.	35° 43.4' N 120° 00.4' E	Fl.W. period 3s	397 121	20	White round stone tower.	
18751.2 F3808.8	Zhaitang.	35° 37.4' N 119° 55.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	262 80	10	Square stone tower.	
18751.4 F3808.6	Dongjiakou Zui.	35° 35.2' N 119° 45.4' E	Fl.W. period 1.5s	89 27	6	Round stone tower.	
18752 F3808	Rizhao.	35° 23.7' N 119° 33.4' E	Fl.W. period 8s	128 39	18	White concrete tower, black bands; 119.	
18753 F3808.2	-Coal Pier Range, front.	35° 22.7' N 119° 33.8' E	F.Y.	65 20		Steel pipe.	
18753.1 F3808.21	--Rear, 350 meters 345°45' from front.	35° 22.8' N 119° 33.8' E	F.Y.	85 26		Steel pipe.	
18753.7 F3808.4	--Head.	35° 21.9' N 119° 34.1' E	F.R.				
18753.9 F3807.7	Kuishan Zui.	35° 20.3' N 119° 30.7' E	F.R.	55 17	6	Triangular wooden framework tower.	Fishing light.
18756 F3806	Cheniu Shan.	34° 59.7' N 119° 49.5' E	Fl.W. period 12s	285 87	24	White round concrete tower; 72.	Obscured over small area by Ping Dao and Dalian Shan. Reserve light range 15M.
	RACON		C(--•--)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18758 <i>F 3800.4</i>	No. "1" LANBY. RACON	34° 49.0' N 119° 41.8' E	Fl.(2)W. period 10s 0(---)	8	Red spherical buoy. 18		
LIANYUN GANG:							
18760 <i>F 3804</i>	-Yangwo Tou.	34° 45.4' N 119° 29.7' E	Fl.(3)W. period 20s	410 125	18	White square concrete tower; 52.	Reserve light range 5M.
18761 <i>F 3800.5</i>	-Tide gauge.	34° 45.9' N 119° 35.9' E	Fl.(2)W. period 5s			ISOLATED DANGER BRB, beacon, topmark.	
18762 <i>F 3801</i>	-W. breakwater.	34° 44.8' N 119° 27.3' E	Mo.(C)Y. period 12s	28 9	5	SPECIAL Y, beacon, topmark.	
18764 <i>F 3802</i>	-E. breakwater.	34° 44.5' N 119° 27.5' E	F.R.	43 13	3	Red round tower; 34.	
18768 <i>F 3802.5</i>	-Pier No. "2", NE. head.	34° 44.4' N 119° 27.1' E	Q.W.	20 6	5	N. CARDINAL BY, beacon, topmark; 18.	
18777 <i>F 3800.7</i>	-Main Channel "A" Range, front.	34° 43.7' N 119° 29.2' E	F.R.	88 27	8	Steel structure on concrete base, diamond daymark, white and black stripe; 71.	F.Y. lights mark channel limits.
18777.1 <i>F 3800.71</i>	--Rear, 1470 meters 243° from front.	34° 43.3' N 119° 30.9' E	F.R.	151 46	8	Steel structure on concrete base, diamond daymark, white and black stripe; 53.	
18778 <i>F 3800.8</i>	-Main Channel "B" Range, front.	34° 43.8' N 119° 31.0' E	F.R.	52 16	5	Steel structure on concrete base, rectangular daymark, white and black stripe; 36.	
18778.1 <i>F 3800.81</i>	--Rear, 810 meters 112° from front.	34° 43.6' N 119° 31.5' E	F.R.	88 27	5	Steel structure on concrete base, rectangular daymark, white and black stripe; 71.	Warning light F.R. 1M.
18778.2 <i>F 3803.85</i>	-Kangyun Oil Pier Range, front.	34° 44.9' N 119° 28.6' E	F.R.	59 18	3	Metal framework structure, black and white rectangular daymark; 30.	
18778.21 <i>F 3803.86</i>	--Rear, 230 meters 000° from front.	34° 45.0' N 119° 28.7' E	F.R.	95 29	3	Masonry structure, black and white rectangular daymark; 15.	
18778.25 <i>F 3803.81</i>	-Kangyun Oil Basin Range, front.	34° 44.9' N 119° 28.5' E	F.G.	49 15	3	Metal framework structure, black and white round daymark; 20.	
18778.26 <i>F 3803.82</i>	--Rear, 130 meters 000° from front.	34° 45.0' N 119° 28.6' E	F.G.	69 21	3	Metal framework structure, black and white round daymark; 30.	
18778.6 <i>F 3803.6</i>	-Shuidao Range, front.	34° 45.1' N 119° 27.8' E	Q.R.	151 46	4	Concrete structure, white rectangular daymark, black stripe; 26.	
18778.7 <i>F 3803.61</i>	--Rear, 980 meters 090° from front.	34° 45.1' N 119° 28.6' E	Q.R.	243 74	4	Concrete structure, white rectangular daymark, black stripe; 34.	
18779 <i>F 3803.5</i>	-Coal pier.	34° 45.0' N 119° 24.9' E	F.R.	49 15	3	Black metal framework structure; 39.	
18779.3 <i>F 3803.4</i>	-Xugou Range, front.	34° 45.1' N 119° 22.5' E	F.R.	164 50	5	Metal framework structure, white rectangular daymark, black stripe; 160.	Reserve light Fl.W. 4s 5M. N. and S. limit of channel marked by F.Y. lights in line.
18779.31 <i>F 3803.41</i>	--Rear, 1330 meters 269°58' from front.	34° 45.1' N 119° 21.7' E	F.R.	266 81	5	Concrete tower, white rectangular daymark, black stripe; 76.	Azimuth coverage 225°-315°.
--RACON				M(--)		Azimuth coverage 225°-315°.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18779.4 <i>F 3795</i>	Sheyanghe Kou.	33° 49.2' N 120° 28.9' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	89 27	6	White metal framework tower, red bands.	
	RACON		O(---)				
18779.5 <i>F 3794.5</i>	Xinyanggang Kou.	33° 39.0' N 120° 34.0' E	Fl.W. period 12s	89 27	12	Wooden framework tower; 95.	
18779.6 <i>F 3794.2</i>	Doulonggang.	33° 28.9' N 120° 40.0' E	Fl.(3)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	10	Black wooden framework tower.	
18779.7 <i>F 3794.17</i>	Chuandonggang Kou.	33° 03.9' N 120° 47.5' E	Fl.W. period 12s	33 10	10	Black metal pile.	
18779.8 <i>F 3794.14</i>	Xiaoyang Gang.	32° 30.2' N 121° 07.0' E	Fl.(2)W. period 6s	30 9	7	Framework tower.	
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18780 <i>F 3762</i>	Sheshan.	31° 25.2' N 122° 14.5' E	Fl.W. period 6s	230 70	22	Round black tower; 55.	Reserve light Fl.W. 6s.
18784 <i>F 3753</i>	Jigu Jiao.	31° 10.4' N 122° 23.0' E	Fl.(2)W. period 6s	131 40	15	Red tower, white bands; 30.	Reserve light range 8M.
	RACON		B(•••)				
18792 <i>F 3752</i>	CHANGJIANG KOU LIGHTSHIP.	31° 06.1' N 122° 26.7' E	Fl.W. period 6s		10	Red hull.	Bell. Radar reflector.
	RACON		O(---)				
18794 <i>F 3751</i>	NANCAO LIGHTFLOAT.	31° 02.7' N 122° 16.3' E	Fl.(3)W. period 15s		10		Bell. Radar reflector.
	RACON		N(•-•)				
18796 <i>F 3750</i>	NANZI LIGHTSHIP.	30° 58.5' N 122° 11.1' E	Fl.W. period 10s	31 9	10	Red hull, name on side.	Bell. Radar reflector.
	RACON		M(---)				
18808 <i>F 3754.2</i>	Niupi Jiao tide station.	31° 08.4' N 122° 15.1' E	V.Q.(6)+L.Fl.W. period 10s	39 12	7	S. CARDINAL YB, beacon, topmark.	
	RACON		C(•••)				
18812 <i>F 3755</i>	Jiaduan Sha E.	31° 06.5' N 122° 10.0' E	Fl.Y. period 4s	25 8	4	Square metal framework structure; 23.	
	RACON		X(•••-)				
18816 <i>F 3767</i>	Zhong Jun.	31° 06.7' N 121° 54.3' E	Mo.(O)Y. period 12s	28 9	4	SPECIAL Y, beacon, topmark.	
18824 <i>F 3768</i>	JIUDUAN LIGHTSHIP.	31° 07.5' N 121° 55.7' E	Fl.(2)W. period 10s	33 10	7	Red hull, name on sides.	Bell. Radar reflector.
	RACON		K(•-•)				
18828 <i>F 3754.7</i>	Beicaozhong tide station.	31° 14.0' N 122° 00.6' E	Mo.(C)Y. period 12s	39 12	4	SPECIAL Y, beacon, topmark.	
	RACON		G(---•)				
18829 <i>F 3754.69</i>	Hengsha.	31° 18.0' N 121° 50.9' E	Fl.W. period 8s	187 57	18	White 4-sided concrete tower; 184.	Reserve light Fl.W. 8s 10M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA-CH'ANG CHIANG (YANTZEE RIVER)							
18830 F 3770	-Sewer Warning Beacon No. "3".	31° 15.9' N 121° 45.1' E	Mo.(C)Y. period 15s	30 9	3	SPECIAL Y, beacon, topmark.	
	-RACON		Y(-•--)				
18834	-No. "24" LANBY.	31° 19.3' N 121° 42.2' E	Fl.W. period 6s	10	Red superbuoy.	Radar reflector.	
	-RACON		Z(--••)				
18835 F 3771	-Fenghuang.	31° 22.7' N 121° 41.3' E	Mo.(C)Y. period 12s	31 9	3	SPECIAL Y, beacon, topmark.	
18836 F 3779	-Heliu No. "1".	31° 21.6' N 121° 37.4' E	Mo.(C)Y. period 12s		SPECIAL Y, articulated beacon, topmark.	Radar reflector.	
	-RACON		Q(--•-)				
HUANGPU JIANG:							
18840 F 3780	-Hetang.	31° 23.8' N 121° 31.2' E	Fl.W. period 5s	56 17	13	White conical metal pipe, red bands.	
	-RACON		Y(-•--)				
18841 F 3780.2	-Shigeng, breakwater No. "1".	31° 23.8' N 121° 31.1' E	Fl.Y. period 4s	22 7	6	Black metal framework structure, ball topmark; 27.	
18842 F 3780.3	--No. "2".	31° 23.7' N 121° 31.0' E	Fl.Y. period 4s	18 5	6	Black metal framework structure, ball topmark; 24.	
18843 F 3780.4	--No. "3".	31° 23.7' N 121° 30.9' E	Fl.Y. period 4s	19 6	6	Black metal framework structure, ball topmark; 23.	
18844 F 3780.5	--No. "4".	31° 23.7' N 121° 30.8' E	Fl.Y. period 4s	19 6	6	Black square concrete structure; 24.	
18845 F 3780.6	--No. "5".	31° 23.6' N 121° 30.7' E	Fl.Y. period 4s	21 6	6	Black square concrete structure; 24.	
18848 F 3781	--Range, front.	31° 23.4' N 121° 30.3' E	F.R.	85 26	8	White metal framework structure, red and white trapezoidal daymark; 79.	
18852 F 3781.1	--Rear, 210 meters 250°20' from front.	31° 23.3' N 121° 30.1' E	F.R.	112 34	8	White metal framework structure, red and white conical daymark; 118.	
18854 F 3782	-Wushui.	31° 22.8' N 121° 29.9' E	Mo.(C)Y. period 12s	27 8	3	SPECIAL Y, beacon, topmark.	
18855 F 3783	-Zhajing No. "1".	31° 20.6' N 121° 31.6' E	Mo.(C)Y. period 12s	22 7	4	SPECIAL Y, beacon, topmark.	
18857 F 3785	-Gaoqiao.	31° 19.8' N 121° 33.6' E	Fl.Y. period 4s	75 23	4	Concrete structure; 69.	
18858 F 3785.4	--Range, front.	31° 19.8' N 121° 33.6' E	F.R.	36 11		Triangular daymark.	
18858.1 F 3785.41	--Rear, 100 meters 139° from front.	31° 19.7' N 121° 33.6' E	F.W.R.W.(hor.)	43 13		Triangular daymark.	1m apart.
18860 F 3790	Baoshan, breakwater No. "1".	31° 25.1' N 121° 29.2' E	Fl.Y. period 2s	20 6	3	White and red metal framework structure; 10.	

CHINA

18864 F 3747.4	Tung Tao (Haijiao).	30° 44.1' N 123° 08.5' E	Fl.W. period 6s	187 57	10	White conical concrete structure; 41.
	RACON		K(-•-)			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18868 F3748	Daji Shan.	30° 48.6' N 122° 10.4' E	Fl.(2)W. period 10s	302 92	20	White round tower; 42.	Reserve light range 8M.
18872 F3746	Huaniao Shan.	30° 51.6' N 122° 40.3' E	Fl.W. period 15s	292 89	24	White round tower, black top; 54.	Visible 071°-294°, 301°-306°. Reserve light Oc.(4)W. 34s 6M. Siren: 5 bl. ev. 60s.
18876 F3747	Taman Shan (Giffard Rock).	30° 50.1' N 122° 35.7' E	Fl.W. period 4s	108 33	8	White square structure; 10.	
18877 F3741	Lisi Jiao.	30° 46.4' N 122° 27.8' E	Fl.(3)W. period 10s	125 38	10	Stone pyramid, white tiles; 27.	
18878 F3740.02	Mapigu.	30° 40.4' N 122° 24.6' E	Fl.(3)W. period 10s	420 128	9	White conical concrete structure, red bands; 52.	
18878.5 F3740.025	Neimati.	30° 40.3' N 122° 26.1' E	Fl.W. period 1.5s	36 11	9	White conical concrete structure; 25.	
18879 F3740.08	Daqianzui Tou.	30° 40.9' N 122° 33.3' E	Fl.(3)W. period 10s	115 35	10	White hexagonal tower; 28.	
18879.1 F3740.06	Dahuanglong.	30° 40.0' N 122° 34.7' E	Fl.W. period 4s	299 91	9	White conical concrete structure, red bands; 52.	
18879.5 F3740.055	Nandingxing.	30° 38.9' N 122° 30.6' E	Fl.(2+1)W. period 9s	423 129	15	White conical concrete structure, red bands; 55.	
RACON		Y(-- --)					
18879.6 F3739	Xiaobanian Shan.	30° 37.5' N 122° 28.3' E	Fl.(2)W. period 6s	236 72	9	White conical concrete structure, red bands; 52.	
PA-KO LIEH-TAO:							
18880 F3740	-Pan-yang Shan, E. end of island.	30° 38.3' N 122° 22.3' E	Fl.W. period 3s	62 19	14	Black round tower; 32.	Reserve light F.W. 8M.
-RACON		B(-- • •)					
18884 F3738	-Pai-chieh Shan.	30° 36.8' N 122° 25.2' E	Al.Fl.W.R. period 60s	246 75	22	Round tower, red and white bands; 47.	Obscured 166°-260°. Reserve light F.W. 8M.
18888 F3717.5	Ziaowugui.	30° 39.6' N 122° 00.6' E	Fl.W. period 4s	98 30	10	Black and white round concrete tower; 35.	Fishing light.
18892 F3717	Tangnao Shan.	30° 35.8' N 121° 58.0' E	Fl.(3)W. period 10s	135 41	18	White round structure; 75.	Obscured 323°-326°. Reserve light F.W. 7M.
18896 F3734	Xiasanxing Shan.	30° 26.0' N 122° 31.6' E	Fl.(3)W. period 20s	259 79	22	White hexagonal tower; 87.	Visible 112°-039°. Reserve light range 8M.
18900 F3728	Fengchao Yan.	30° 22.3' N 122° 41.3' E	Fl.W. period 10s	86 26	10	White round concrete post; 36.	
18902 F3730	Langgang Shan.	30° 26.2' N 122° 56.3' E	Fl.(4)W. period 10s	350 107	10	White round concrete structure; 48.	
RACON		Q(-- • -)					
18904 F3720	Xiaoguishan.	30° 12.6' N 122° 35.5' E	Fl.(2)W. period 10s	246 75	18	Black round tower; 36.	Obscured 019°-039°, 096°-114° and 269°-300°. Reserve light F.W. 8M.
RACON		O(-- --)					
18908 F3716.8	Yuxingnao.	30° 20.8' N 121° 51.5' E	Fl.(2)W. period 20s	89 27	15	Black round tower; 33.	Reserve light F.W. 8M. Siren.
18909 F3716.71	Xiaochang Shan.	30° 10.0' N 122° 06.9' E	Fl.W. period 3s	85 26	9	White stone tower; 13.	
18909.5 F3716.723	Liangmao Shan.	30° 07.2' N 122° 09.5' E	Fl.(2)W. period 6s	49 15	9	White stone tower; 13.	
18912 F3716.4	Taipingshan.	30° 05.1' N 121° 49.2' E	Fl.(3)W. period 10s	285 87	16	White round tower; 29.	Reserve light F.W. 8M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18916 <i>F 3716</i>	Qili Yu.	30° 00.0' N 121° 45.6' E	Fl.W. period 5s	167 51	18	White octagonal tower; 84.	Reserve light range 5M. Siren.
18920 <i>F 3715.4</i>	Dahuangmang Dao.	29° 58.5' N 121° 48.5' E	Fl.(2)W. period 6s	262 80	9	White square pyramidal stone structure; 28.	
18922 <i>F 3714.6</i>	Zhongzhu Shan.	29° 58.4' N 121° 47.7' E	Fl.(3)W. period 10s	154 47	10		
18928 <i>F 3715</i>	Changtiaozui.	29° 58.4' N 121° 45.9' E	Fl.(4)W. period 12s	59 18	10	Red and white hexagonal structure; 52.	
RACON							
18929 <i>F 3715.3</i>	-N. breakwater, head.	29° 58.7' N 121° 45.4' E	Fl.Y. period 2s	33 10	8	Column, red and white bands; 37.	
18930 <i>F 3715.2</i>	-Yong Jiang Kou Range, front.	29° 58.4' N 121° 44.2' E	F.R.	69 21	5	Metal framework structure, neon red square and round daymark; 64.	
18930.1 <i>F 3715.21</i>	--Rear, 450 meters 260°30' from front.	29° 58.4' N 121° 43.9' E	F.R.	108 33	5	Metal frame structure, neon red square and diamond daymark; 103.	
18932 <i>F 3714</i>	Luojiashan.	29° 58.5' N 122° 26.9' E	Fl.(3)W.R. period 9s	131 40	W. 15	White round tower, red bands;	W. 075°-088°, R.-203°, W.-256°, R.-272°, W.-332°, obsc.-075°. Reserve light F.W. 8M.
18936 <i>F 3712</i>	Dongtingshan, summit.	29° 52.0' N 122° 35.0' E	Fl.W. period 10s	180 55	20	White round tower; 28.	
18940 <i>F 3714.14</i>	Taohua Dao.	29° 46.3' N 122° 18.5' E	Fl.(3)W. period 12s	361 110	15	Round structure, black and white bands; 66.	Reserve light range 7M.
RACON							
18944 <i>F 3714.16</i>	Xiaoshuang Shan.	29° 47.8' N 122° 14.4' E	Fl.(2)W. period 6s	55 17	10	Octagonal structure, red and white stripes; 50.	
18948 <i>F 3714.18</i>	Xialan Shan.	29° 48.7' N 122° 14.3' E	Fl.W. period 4s	65 20	10	Octagonal structure, black and white stripes; 33.	
18952 <i>F 3714.2</i>	Liuwang Shan.	29° 50.1' N 122° 12.3' E	Fl.W. period 6s	52 16	9	White conical concrete structure; 47.	
18954 <i>F 3714.148</i>	Putuo Shan.	29° 59.1' N 122° 21.9' E	Fl.W. period 4s	243 74	18	Yellow tower.	
18956 <i>F 3714.22</i>	Yangxiaomao Dao.	29° 54.0' N 122° 09.1' E	Fl.(2)W. period 10s	160 49	15	White hexagonal concrete structure; 36.	Reserve light range 5M.
18960 <i>F 3714.24</i>	Zhairuo Shan.	29° 56.6' N 122° 05.7' E	Fl.W. period 4s	59 18	7	White round stone structure; 21.	
18964 <i>F 3714.26</i>	Loutou Jiao.	29° 56.0' N 122° 02.1' E	Fl.(3)W. period 10s	72 22	10	White hexagonal structure; 27.	Visible 260°-138°.
18966 <i>F 3716.48</i>	Banyang Jiao.	30° 01.0' N 121° 57.8' E	Fl.W. period 5s	62 19	10	White concrete tower.	
18968 <i>F 3714.28</i>	Tuni Zui.	29° 57.4' N 121° 57.9' E	Fl.(3)W. period 6s	46 14	7	White round structure; 23.	
18972 <i>F 3714.3</i>	Huangniu Jiao.	29° 57.9' N 121° 54.1' E	Fl.W. period 6s	59 18	9	White hexagonal concrete structure; 50.	
RACON							
18976 <i>F 3714.266</i>	Daxie Dao.	29° 55.1' N 122° 00.0' E	Q.G.	33 10	7	STARBOARD (A) G, beacon, topmark; 20.	
RACON							
18978 <i>F 3692</i>	Shangshuangshi.	29° 44.1' N 122° 02.6' E	Fl.R. period 4s	89 27	6	Red square stone structure; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18980 F3689	Nanjiu Shan.	29° 26.0' N 122° 13.2' E	Fl.(2)W. period 10s	174 53	16	White four-sided pyramidal tower; 33.	
18981 F3684	Jiushan Liedao.	29° 16.3' N 122° 08.1' E	Fl.(2)W. period 5s	49 15	10	ISOLATED DANGER BRB, beacon, topmark.	
	RACON		N(-•)				
18982 F3682	Yu Shan.	28° 53.2' N 122° 16.5' E	Fl.(2)W. period 20s	338 103	25	Red and white round tower; 49.	Reserve light Fl.(2)W. 20s 15M.
	RACON		O(---)				
18984 F3675.5	Xiaojiaotou.	28° 28.1' N 121° 54.7' E	Fl.(2)W. period 6s	75 23	10	White square stone structure; 17.	
18992 F3676	Taizhou Gangpan Dao.	28° 28.6' N 121° 52.5' E	Fl.R. period 3s	24 7	3	White conical stone structure; 30.	
18996 F3674	Zhu Yu, 1 mile W. of Xiadachen Dao.	28° 25.7' N 121° 50.1' E	Fl.(3)W. period 10s	207 63	10	White round concrete structure; 32.	
19000 F3670	Luo Yu.	28° 16.2' N 121° 44.0' E	Fl.W. period 3s	259 79	16	White hexagonal stone tower;	Reserve light range 5M. 28.
	RACON		B(-•••)				
19004 F3669	Yisuan Shan.	28° 12.8' N 121° 39.8' E	Fl.(3)W. period 10s	269 82	10	White conical stone tower; 33.	
19008 F3668	Wailongyan.	28° 12.6' N 121° 33.3' E	Fl.W. period 4s	59 18	10	White conical stone tower; 43.	
19010 F3667	Dadongjing Dao.	28° 08.0' N 121° 29.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	269 82	10	White round stone tower.	
19012 F3665	Xialangdang Dao.	28° 04.4' N 121° 31.9' E	Fl.(3)W. period 20s	194 59	16	White stone structure, red stripes; 31.	
19016 F3664.5	Qian Shan.	28° 03.2' N 121° 24.3' E	Fl.W. period 4s	148 45	10	White conical stone tower; 33.	
19018 F3660.8	Beipanshan Yu.	28° 00.8' N 121° 15.8' E	Fl.(2)W. period 6s	200 61	7	White round concrete tower.	
19020 F3662	Wenzhou Jia.	27° 59.0' N 120° 57.7' E	Fl.(2)W. period 6s	42 13	8	White round concrete structure; 20.	
19024 F3663.22	-Current guiding dam, No. "1".	28° 01.6' N 120° 40.0' E	Mo.(P)Y. period 12s	20 6	4	SPECIAL Y, beacon, topmark.	
19028 F3663.23	-No. "2".	28° 01.7' N 120° 40.9' E	Mo.(P)Y. period 12s	20 6	4	SPECIAL Y, beacon, topmark.	
19032 F3663.24	-No. "3".	28° 01.8' N 120° 40.9' E	Mo.(P)Y. period 12s	20 6	4	SPECIAL Y, beacon, topmark.	
19036 F3663.25	-No. "4".	28° 01.9' N 120° 40.6' E	Mo.(P)Y. period 12s	20 6	4	SPECIAL Y, beacon, topmark.	
OUJIANG BEI KOU:							
19040 F3662.3	-Qili.	27° 59.9' N 120° 52.9' E	Fl.(3)W. period 10s	43 13	8	White metal framework tower; 39.	
19048 F3662.4	-Cangxia.	27° 59.9' N 120° 51.1' E	Fl.(2)W. period 6s	36 11	7		
19052 F3662.6	-Longwantou.	27° 58.3' N 120° 48.2' E	Fl.(4)W. period 10s	43 13	8	White round concrete structure; 20.	
19053 F3662	-Laohu Yan Spur, N. beacon.	28° 01.8' N 120° 44.1' E	Fl.W. period 1.5s	13 4	4	SPECIAL Y, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19054 <i>F 3663</i>	-Laohu Yan Spur, S. beacon.	28° 01.6' N 120° 44.1' E	Mo.(P)Y. period 15s	20 6	5	SPECIAL Y, beacon, topmark.	
19060 <i>F 3663.6</i>	-Shizi Jiao.	28° 01.7' N 120° 38.4' E	Fl.W. period 6s	16 5	4	Gray square stone structure; 23.	
19064 <i>F 3663.5</i>	-Xiang.	28° 01.9' N 120° 38.8' E	Fl.(2)W. period 6s	49 15	4	Red concrete structure; 23.	
19068 <i>F 3661</i>	Dong Tou.	27° 57.7' N 121° 08.5' E	Fl.(2)W. period 6s	128 39	7	White round structure; 32.	
19072 <i>F 3661.5</i>	Huangda Zui.	27° 56.7' N 121° 02.8' E	Fl.(2)W. period 6s	46 14	7	White square metal framework structure.	
19076 <i>F 3660.4</i>	Yuan Yu.	27° 56.0' N 121° 13.3' E	Fl.(3)W. period 10s	141 43	16	White conical stone tower; 39.	
RACON							
			Y(-•--)				
19080 <i>F 3660</i>	Tasanpang Shan.	27° 52.0' N 121° 10.0' E	Fl.W. period 4s	39 12	7	White square pyramidal concrete structure; 12.	
19084 <i>F 3659</i>	Hutou Yu.	27° 50.0' N 121° 15.0' E	Fl.(2)W. period 6s	338 103	16	White square pyramidal concrete structure; 29.	
19085 <i>F 3648.6</i>	Lizhi Shan.	27° 41.0' N 120° 55.0' E	Fl.(3)W. period 10s	292 89	10	White round concrete tower, red bands.	
RACON							
			M(--)				
19085.5 <i>F 3648.8</i>	Beilong Shan.	27° 38.9' N 120° 57.9' E	Fl.W. period 6s	121 37	7		
19086 <i>F 3650</i>	Beijishan Liedao.	27° 37.5' N 121° 12.2' E	Fl.(3)W. period 20s	443 135	25	Red conical concrete structure; Reserve light range 15M. 67.	
19086.5 <i>F 3649</i>	Nanji Liedao.	27° 25.3' N 121° 04.0' E	Fl.(2)W. period 12s	203 62	18	White round tower.	
19087 <i>F 3648</i>	Xitai Shan.	27° 00.6' N 120° 41.8' E	Fl.W. period 4s	469 143	25	White hexagonal concrete structure; 80.	Reserve light range 15M.
RACON							
			K(-•-)				
19090 <i>F 3644</i>	Tung-yin Tao.	26° 22.3' N 120° 30.9' E	Fl.(3)W. period 15s	318 97	11	White round tower.	Visible 270°-060°. Horn.
19091 <i>F 3641.95</i>	Kuishan Dao.	26° 29.3' N 120° 08.0' E	Fl.W. period 4s	249 76	15		
RACON							
			Z(--••)				
MINJIANG KOU:							
19092 <i>F 3634.8</i>	-Rizhuang Jiao.	26° 04.5' N 119° 43.4' E	Fl.(2)W. period 6s	42 13	8	White round tower; 59.	
-RACON							
			K(-•-)				
19096 <i>F 3635</i>	-Baiyun Shan Range, front.	26° 05.4' N 119° 38.3' E	Fl.W. period 1.5s	154 47	13	White concrete tower, red band; 72.	Visible 263°45'-267°15'.
-RACON							
			O(--)		12		(3cm)
19100 <i>F 3635.1</i>	--Rear, 1289 meters 265°30' from front.	26° 05.3' N 119° 37.5' E	Iso.W. period 4s	298 91	13	White concrete tower, red band; 72.	Visible 263°45'-267°15'.
19104 <i>F 3635.2</i>	Huijiang Dao.	26° 07.3' N 119° 38.6' E	Fl.(3)W. period 10s	75 23	7	White round brick structure; 22.	
19112 <i>F 3635.4</i>	Fudou Shan Range, common front.	26° 08.0' N 119° 38.3' E	Fl.W. period 1.5s	98 30	10	Brick structure, red and white bands; 30.	
19114 <i>F 3635.42</i>	-Rear, 2001 meters 091° from common front.	26° 08.0' N 119° 39.5' E	Iso.W. period 4s	276 84	10	Brick tower, black and white stripes; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19116 <i>F 3635.41</i>	-Rear, 1960 meters 308° from common front.	26° 08.7' N 119° 37.4' E	Iso.W. period 4s	207 63	10	White brick structure; 30.	
19120 <i>F 3635.7</i>	-Jinpai Men.	26° 08.1' N 119° 35.6' E	Fl.W. period 5s	26 8	6	White pyramidal stone structure; 33.	
19122 <i>F 3635.65</i>	Dalu Jiao.	26° 05.5' N 119° 32.3' E	Fl.(2)W. period 5s	23 7	3	ISOLATED DANGER BRB, beacon, topmark.	
19124 <i>F 3628</i>	Wu-ch'iu Hsu.	24° 59.8' N 119° 27.2' E	Fl.W. period 5s	285 87	11	Black round tower; 64.	
19128 <i>F 3634.4</i>	-Qixing Jiao.	26° 04.9' N 119° 49.6' E	Fl.W. period 6s	39 12	10	White conical concrete structure; 53.	
-RACON		X(-••-)					
19132 <i>F 3634</i>	Tungchu Tao.	25° 58.1' N 119° 59.1' E	Fl.(1+2)W. period 20s	256 78	17	White round tower; 64.	Visible 150°-360°. Gun.
19132.5 <i>K 3634.2</i>	Bozhou Dao.	25° 58.6' N 119° 43.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	66 20	10	White square concrete structure.	
19133 <i>F 3633.3</i>	Li Yu.	25° 45.7' N 119° 48.2' E	Fl.(3)W. period 10s	82 25	7	Hexagonal concrete structure, red and white stripes; 40.	
19133.2 <i>F 3633.9</i>	Shuangpi.	25° 47.0' N 119° 39.6' E	Fl.(2)W. period 6s	95 29	10	White square concrete structure; 29.	
19133.4 <i>F 3633.8</i>	Songxia Gang, Xiluo.	25° 45.3' N 119° 38.9' E	Fl.R. period 4s	174 53	2	White conical concrete structure; 26.	Channel marked by articulated lights and buoys.
19133.6 <i>F 3633.4</i>	-Gu Yu.	25° 40.7' N 119° 37.4' E	Fl.(2)W. period 4s	108 33	7	White square concrete structure; 41.	
19134 <i>F 3632.5</i>	Dongxiang Dao.	25° 36.2' N 119° 54.0' E	Fl.(3)W. period 10s	157 48	16	Round concrete structure, black and white bands; 54.	Reserve light range 7M.
19136 <i>F 3632</i>	Niushan Dao.	25° 26.2' N 119° 56.2' E	Fl.(2)W. period 12s	295 90	24	White octagonal stone tower; 75.	Reserve light range 15M.
RACON		Z(--••)					
19136.5 <i>F 3633.17</i>	Lu Yu Reef, S.	25° 19.4' N 119° 28.6' E	Fl.W. period 6s	33 10	10	Red and white concrete structure; 37.	
19137 <i>F 3627.5</i>	Jian Yu.	24° 58.1' N 119° 02.1' E	Fl.(3)W. period 10s	69 21	10	Concrete structure, black and white stripes; 26.	
19138	Meizhou Wan, RACON.	25° 04.6' N 119° 02.5' E	N(-•)				(3cm)
19139 <i>F 3627.8</i>	Meizhou Dao, E.	25° 04.7' N 119° 09.0' E	Fl.W. period 6s	36 11	4	Gray pile.	
19141 <i>F 3627</i>	Dazou Yan.	24° 53.0' N 118° 59.0' E	Fl.W. period 15s	246 75	18	Red and white concrete structure.	
19144 <i>F 3626</i>	Ch'ung-wu, SW. corner of city wall.	24° 53.0' N 118° 55.0' E	F.W.	118 36	10	White square brick structure.	Fishing light.
19148 <i>F 3625</i>	Niao Yu.	24° 50.2' N 118° 49.6' E	Fl.(2)W. period 6s	88 27	10	Round black and white stone tower; 22.	
RACON		Z(--••)					
19150 <i>F 3620.8</i>	Xiangzhi Jiao.	24° 46.4' N 118° 46.6' E	Fl.(3)W. period 15s	167 51	16	Hexagonal brick structure, red and white stripes; 53.	Reserve light range 6M.
19150.4 <i>F 3620.4</i>	Shenu Wan.	24° 38.2' N 118° 41.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	56 17	10	Round tower, red and white bands.	
19150.6 <i>F 3620.25</i>	Baiyang.	24° 32.4' N 118° 33.1' E	Fl.W. period 4s	62 19	10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19150.8 F 3612.2	Tu Dao.	24° 24.4' N 118° 04.0' E	Fl.(2)W. period 6s	74 22	7	White round tower, black bands; 34.	
19151.6 F 3612.3	Qing Jiao.	24° 25.1' N 118° 03.1' E	Fl.(3)W. period 10s	40 12	7	White round tower, red bands; 59.	
RACON							
19152 F 3613	Huang Jiao.	24° 26.6' N 118° 04.4' E	Fl.(2)R. period 6s	46 14	3	Red octagonal concrete structure; 10.	
19156 F 3613.5	Zhangyu Jiao.	24° 27.0' N 118° 04.2' E	Fl.R. period 4s	25 8	3	PORT (A) R, tower, topmark; 30.	
19160 F 3614	Jiangxin Jiao.	24° 27.1' N 118° 04.1' E	Fl.(2)R. period 6s	26 8	3	PORT (A) R, tower, topmark; 30.	
19162 F 3612.5	Muquian Jiao.	24° 26.4' N 118° 02.6' E	Fl.(2)W. period 5s	39 12	7	ISOLATED DANGER BRB, beacon, topmark; 56.	
RACON							
19164 F 3615.5	Dayu, on S. end of island.	24° 27.6' N 118° 02.7' E	Fl.W. period 4s	144 44	7	White hexagonal tower, red stripes; 43.	
19168 F 3615	Hou Yu.	24° 28.1' N 118° 03.4' E	Fl.(2)W. period 6s	98 30	7	White round tower, red bands; 41.	
RACON							
19172 F 3616	Manyu Jiao.	24° 28.6' N 118° 03.7' E	Fl.W. period 4s	31 9	7	Green hexagonal structure; 46.	
19174 F 3617	Niufen Jiao.	24° 29.9' N 118° 04.3' E	Fl.(2)G. period 6s	16 5	7	STARBOARD (A) G, beacon, topmark.	
19176 F 3620	Pei-ting Tao.	24° 26.0' N 118° 30.3' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	119 36	11	White round brick tower; 57.	Gun: 1 report in answer to vessel's fog signal, 2 reports 5 minutes later, repeated while vessel's fog signal continues to be heard
19180 F 3612	-Ta-tan Tao, S. side.	24° 23.1' N 118° 10.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	299 91	10	White metal hut; 10.	
19184 F 3610	-Qing Yu.	24° 21.9' N 118° 07.6' E	Fl.(4)W. period 20s	135 41	18	White octagonal tower, red stripes; 33.	
19186 F 3609	-Jiuzhe Jiao.	24° 20.2' N 118° 09.7' E	Fl.(2)W. period 6s	43 13	10	White round tower, red bands; 46.	
-RACON							
19188 F 3605	Nanding Dao.	24° 08.0' N 118° 02.6' E	Fl.W. period 5s	197 60	10	Round stone structure, black and white bands; 33.	
RACON							
19192 F 3604	Qian Yan.	23° 54.5' N 117° 51.8' E	Fl.W. period 4s	85 26	10	White hexagonal structure; 38.	
19196 F 3606	Tung-ting Tao, Tungting Hsu, summit.	24° 09.8' N 118° 14.2' E	Fl.W. period 10s	226 69	11	Round black tower; 63.	Gun: 1 report in answer to vessel's fog signal, 2 reports 5 minutes later, repeated while vessel's fog fog signal continues to be heard
19197 F 3607	Zhenhai Jiao.	24° 16.2' N 118° 07.9' E	Fl.(2)W. period 6s	361 110	24	White hexagonal concrete structure; 74.	Reserve light range 15M.
19200 F 3603	Gulei Tou.	23° 43.2' N 117° 35.2' E	Fl.(2)W. period 10s	374 114	24	White round concrete structure;	Reserve light range 15M.
19204 F 3598.5	Shih Yu.	23° 34.7' N 117° 27.0' E	Fl.W. period 5s	180 55	9	Square concrete structure; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19205 F3598	Xiongdi Yu.	23° 31.9' N 117° 41.3' E	Fl.(3)W. period 10s	240 73	16	Red and white hexagonal stone tower; 40.	Reserve light range 6M.
	RACON		M(--)				
19206 F3587.7	Nanpeng Liedao.	23° 15.7' N 117° 17.0' E	Fl.W. period 12s	302 92	24	White round tower; 75.	
	RACON		K(--•--)				
19208 F3588	Biao Jiao.	23° 14.2' N 116° 48.3' E	Fl.W. period 8s	200 61	20	White round tower; 51.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
	RACON		K(--•--)				
19216 F3592	De Zhou.	23° 19.5' N 116° 45.4' E	Fl.W. period 5s	242 74	18	White tower; 74.	
SHANTOU GANG:							
19224 F3593	-No. "1" Range, front.	23° 19.5' N 116° 45.4' E	F.R.	108 33	7	White round structure, red stripe; 54.	
	-RACON		B(--•••)				
19224.1 F3593.1	--Rear, 1,620 meters 322° from front.	23° 20.2' N 116° 44.8' E	F.R.	157 48	7	White round structure, red stripe; 133.	
19229 F3589.2	-Submerged breakwater, head.	23° 17.2' N 116° 47.8' E	V.Q.(6)+L.FI.W. period 10s	27 8	5	S. CARDINAL YB, beacon, topmark.	
19230 F3589	-Chi Yu.	23° 16.9' N 116° 47.3' E	Fl.(2)W. period 6s	56 17	5	White concrete structure; 9.	
19231 F3589.4	-Breakwater, head.	23° 18.4' N 116° 46.8' E	Fl.G. period 4s	24 7	5	STARBOARD (A) G, beacon, topmark.	
19232 F3590	Chien Shih, on summit.	23° 18.9' N 116° 45.6' E	Fl.W. period 4s	39 12	4	White concrete structure; 7.	
19234 F3592.3	Lu Yu, S. side.	23° 19.5' N 116° 45.3' E	F.R.	22 7	3	White metal framework structure; 16.	
19236 F3595	Shantou Range No. "2", front.	23° 21.5' N 116° 42.8' E	F.R.	72 22	4	White metal framework structure; 46.	
19236.1 F3595.1	-Rear, 1,050 meters 311° from front.	23° 21.8' N 116° 42.3' E	F.FI.R. period 2s	128 39	4	White metal framework structure; 85.	
19240 F3594	-Lu Yu Danger, front.	23° 19.6' N 116° 45.2' E	F.W.	108 33	5	White concrete structure, triangular daymark, point up; 13.	Lights in line 127° indicate rocks on S. side of Ma Yu and SW. extremity of fish stakes on which fishing lights shown.
19240.1 F3594.1	--Rear, 243 meters 127° from front.	23° 19.6' N 116° 45.3' E	F.W.	164 50	5	White concrete structure, triangular daymark, point down; 23.	
19244 F3595.2	-No. "3" Range, front.	23° 21.2' N 116° 40.9' E	F.R.	92 28	4		
19244.1 F3595.21	--Rear, 1327 meters 283° from front.	23° 21.4' N 116° 40.1' E	F.FI.R. (vert.) period 3s	134 41	4	White metal framework structure; 33.	3 lights (vert.): 1 FI.R., 2 F.R.
19249 F3595.3	Gui Yu.	23° 20.2' N 116° 38.4' E	Fl.(2)W. period 6s	89 27	10	White metal framework tower; 46.	
19264 F3586	Shibeishan Jiao.	22° 56.4' N 116° 29.7' E	Fl.W. period 15s	223 68	22	Concrete tower; 195.	
	RACON		C(--•--•)				
19272 F3585	Jiazi Jiao.	22° 49.3' N 116° 05.8' E	Fl.W. period 9s	256 78	18	White square brick tower; 26.	Obscured 250°-070°.
19276 F3584	Tianwei Jiao.	22° 44.7' N 115° 48.8' E	Fl.W. period 7s	272 83	18	Gray hexagonal structure; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19280 F 3582	Zhelang Jiao.	22° 39.0' N 115° 34.2' E	Fl.W. period 8s	131 40	18	White round brick structure; 20.	
19284 F 3581.3	Shan-Wei.	22° 46.7' N 115° 20.0' E	Fl.W. period 6s	31 9	9	White round concrete structure; 20.	
19286 F 3581.35	-Pier.	22° 46.9' N 115° 20.6' E	Fl.W. period 20s	49 15	10	White metal framework structure; 36.	
19288 F 3581	Fuji Jiao.	22° 34.2' N 114° 54.3' E	Fl.W. period 13s	715 218	24	White round tower; 80.	
19288.5 F 3581.284	Tiezhen Jiao.	22° 32.7' N 114° 52.2' E	Fl.W. period 5s	49 15	6	White round concrete structure.	
19289	Daya Wan.	22° 35.1' N 114° 42.9' E	L.Fl.W. period 8s	213 65	10	Concrete tower; 76.	
RACON							
19290 F 3580.98	Qing Zhou.	22° 24.3' N 114° 40.0' E	Fl.W. period 6s	351 107	18	White round concrete tower; 64.	
RACON							
19292 F 3578.3	Mirs Bay, Shek Ngau Chau.	22° 28.0' N 114° 26.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	85 26	12	White concrete tower.	
19296 F 3578.4	-Wong Mau Chau.	22° 27.0' N 114° 24.0' E	Fl.R. period 5s	75 23	5	White square concrete tower; 16.	
19300 F 3580.95	Fan Tsang Chau.	22° 22.0' N 114° 23.3' E	Fl.(2)W. period 6s		5	White column; 12.	Obscured 250°-008°.
19306 F 3580.9	Fu Tau Pun Chau, NW. head.	22° 20.0' N 114° 22.0' E	Fl.(4)W. period 15s	24 7	3	White concrete tower; 13.	
19310 F 3580.93	Wave Rock.	22° 20.0' N 114° 22.0' E	Q.R.	13 4	2	White column; 7.	
19314 F 3580.88	Ki Yan Siak.	22° 22.0' N 114° 20.0' E	Fl.W. period 5s	26 8	5	White concrete structure.	
19318 F 3580.6	Ma Chai Pai.	22° 20.0' N 114° 20.0' E	Q.R.	12 4	1	White concrete column; 9.	
19322 F 3580.7	Kiu Tsui Pai.	22° 21.7' N 114° 17.1' E	Fl.(2)W. period 10s	25 8	5	White concrete tower.	
19326 F 3578	Waglan Island.	22° 10.8' N 114° 18.2' E	Fl.(2)W. period 20s	226 69	24	White round metal tower, red top, white lantern; 52.	Visible 112°-095°. Shown by day when fog signal is operating. Horn: 2 bl. ev. 60s.
-RACON							
19330 F 3576	Hok Tsui.	22° 12.5' N 114° 15.5' E	Fl.W. period 15s	197 60	20	White stone tower.	
19334 F 3575.6	Ninepin Island, N. head.	22° 16.0' N 114° 21.0' E	Fl.W.R. period 10s fl. 1s, ec. 9s	114 35	W. 10 R. 7	White square concrete tower; 16.	W. 058°30'-212°, R.-299°30', obsc.-058°30'.
19338 F 3575.8	Jam Pan Wan.	22° 16.2' N 114° 18.2' E	Fl.G. period 3s	43 13	3	White column.	
19342 F 3574	Tung Lung Island.	22° 14.4' N 114° 17.3' E	Fl.(3)W.R. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4s	184 56	W. 19 R. 10	White structure; 7.	R. 237°-264°30' (covering Ninepin Group), W.-137°30', obscured elsewhere. Horn: 3 bl. ev. 60s (bl. 5s, si. 5s, bl. 5s, si. 5s, bl. 5s, si. 35s). Aero Radiobeacon 150 meters N.
19346 F 3574	Tathong Channel, Buoy "TCS1".	22° 13.2' N 114° 20.2' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19349 F 3575.4	-Tai Long Pai.	22° 14.0' N 114° 16.0' E	Fl.(4)R. period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 10.4s	45 14	5	Concrete tripod, red and white checkers.	Radar reflector.
19352 F 3573.6	-Ngai Ying Pai, No. "91".	22° 14.6' N 114° 16.8' E	Fl.W. period 1.5s	39 12	6	White concrete tower.	
19353 F 3575	-Tai Miu Wan, jetty, head.	22° 15.0' N 114° 17.0' E	Q.W.	23 7	1	Galvanized column.	
19355 F 3572	-Hak Kok Tau.	22° 15.7' N 114° 15.4' E	Fl.(2)W.R. period 10s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 6.9s	163 50	W. R.	15 12	White tower on dwelling; 20. W. 156°30'-337°, R. elsewhere. Aero.Q.R. marks summit close W.
19358 F 3573	-Fat Tau Chau (Junk Island).	22° 17.0' N 114° 16.0' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	66 20	9	White concrete structure; 15.	
19364 F 3571.8	-Chi Wan, breakwater.	22° 16.4' N 114° 14.7' E	Fl.R. period 3s	20 6	3	White metal column.	
19367 F 3571.72	--Pier.	22° 16.4' N 114° 14.7' E	Fl.G. period 3s	20 6	2	White metal column.	
19370 F 3570	Eastern Fairway, A Kung Ngam.	22° 17.2' N 114° 13.9' E	Fl.R. period 5s	37 11	11	Red concrete tripod; 29.	Aero.F.Y. marks summit close SE.
19373 F 3571.5	--Typhoon shelter.	22° 17.2' N 114° 13.7' E	Fl.R. period 3s	23 7	3	White tower.	Fl.G. 3s, Fl.R. 3s and Q.R. mark inner breakwaters.
19373.5	--E. Entrance, on dolphin.	22° 17.0' N 114° 14.0' E	Fl.(2)W. period 10s	16 5	3	White beacon.	
19376 F 3568	-Sam Kok Tsui.	22° 17.3' N 114° 14.2' E	Fl.G. period 3s	29 9	5	Green pillar; 10.	
19379 F 3567	--Typhoon Shelter, breakwater.	22° 18.0' N 114° 14.0' E	Fl.R. period 3s	26 8	3	Red and white pillar; 20.	
19379.5 F 3566	--On shore, breakwater, SE.	22° 17.4' N 114° 14.2' E	Fl.G. period 3s	28 9	3		
19381 F 3569	-Lei Yue Mun.	22° 17.5' N 114° 13.9' E	Q.R.	16 5	1	White post on white beacon.	Radar reflector.
19386 F 3562.5	-Kwun Tong Typhoon Shelter, breakwater, E. head.	22° 18.4' N 114° 13.2' E	Fl.R. period 3s	23 7	3	White structure.	
19386.3 F 3562.55	--W. head.	22° 18.3' N 114° 13.1' E	F.R.	23 7	3	White structure.	Q.R. marks N. end of inner breakwater.
19386.6 F 3562.6	--E. breakwater, head.	22° 18.4' N 114° 13.2' E	Fl.G. period 3s	23 7	3	White structure.	
19389 F 3560.5	Kowloon Bay, To Kwa Wan Typhoon shelter, E.	22° 18.7' N 114° 12.1' E	Fl.R. period 3s	25 8	3	White structure.	
19389.2 F 3560.55	-S.	22° 18.6' N 114° 11.8' E	Fl.G. period 3s	25 8	3	White structure.	4 F.R. mark limits of anchoring prohibited area close SW.
19389.4 F 3560.6	-Middle.	22° 18.7' N 114° 11.8' E	Fl.R. period 3s	25 8	3	White structure.	
19389.6 F 3560.65	-N.	22° 18.8' N 114° 11.7' E	Fl.G. period 3s	25 8	3	White structure.	
19400 F 3551.2	-Wan Chai, entrance, E. side.	22° 17.1' N 114° 10.9' E	F.R.	22 7	3	White metal framework tower.	
19400.1 F 3551.4	--Entrance, E. side.	22° 17.1' N 114° 10.9' E	Fl.R. period 3s	24 7	5	White concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19400.2 <i>F 3551</i>	--W. side of entrance.	22° 17.1' N 114° 10.9' E	Fl.G. period 3s	23 7	3		
19400.3 <i>F 3553.3</i>	-W. Arm, Typhoon Anchorage.	22° 17.1' N 114° 10.9' E	Fl.G. period 3s	21 6	2	White column; 13.	
19400.4 <i>F 3553</i>	-N. Arm, W. head.	22° 17.1' N 114° 11.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	4	White metal column.	
19400.5 <i>F 3553.6</i>	-E. Arm.	22° 17.3' N 114° 11.2' E	Fl.R. period 3s	16 5	2	White column.	
19405 <i>F 3576.6</i>	Poi Toi Island.	22° 09.4' N 114° 15.5' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	220 67	18	White square building.	
19410 <i>F 3577</i>	Bluff Point.	22° 12.0' N 114° 13.0' E	Fl.(5)W. period 30s	220 67	20	White concrete tower; 10.	
19412 <i>F 3577.2</i>	Un Kok.	22° 11.0' N 114° 09.0' E	Fl.W. period 5s	116 35	10	White concrete tower; 13.	
19415 <i>F 3576.8</i>	Lo Chau, NW. head.	22° 11.0' N 114° 14.0' E	Fl.W.R. period 3s	122 37	W. 10 R. 8	White concrete structure; 27.	R. 000°-034°, W.-000°.
19417	E. Lamma Channel, Buoy "LCS1".	22° 09.3' N 114° 12.7' E	L.FI.W. period 10s			SAFE WATER RW, pillar.	Radar reflector.
19420 <i>F 3577.1</i>	-Ngan Chau.	22° 12.8' N 114° 11.1' E	AI.FI.W.R.W. period 10s	92 28	W. 11 R. 8	White square building.	
19422 <i>F 3577.4</i>	-Wong Chu Kok.	22° 12.6' N 114° 09.5' E	Fl.(4)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	90 27	10	White concrete tower; 13.	
19425 <i>F 3577.68</i>	-Ap Lei Pai.	22° 14.0' N 114° 10.0' E	Fl.W. period 15s fl. 1s, ec. 14s	16 5	5	White concrete tower.	
19427 <i>F 3577.84</i>	-Aberdeen Harbor, E. entrance, E. breakwater.	22° 14.3' N 114° 09.8' E	Fl.G. period 3s	21 6	2	White column; 10.	
19427.5 <i>F 3577.8</i>	--W. breakwater.	22° 14.2' N 114° 09.8' E	Fl.R. period 3s	21 6	2	White column; 10.	
19430 <i>F 3577.7</i>	--W. entrance.	22° 15.0' N 114° 09.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	2	White column; 10.	
19431 <i>F 3577.86</i>	--Wong Nei Pai.	22° 15.0' N 114° 10.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	5	White metal column.	
19432 <i>F 3577.64</i>	-Lung Shan Pai.	22° 14.5' N 114° 08.6' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	33 10	7	White tower; 19.	4 F.R. mark limits of submarine cable area in vicinity.
19437 <i>F 3577.6</i>	-Fo Yeuk Chau, W. end of island.	22° 15.0' N 114° 08.0' E	Fl.W. period 1.5s	36 11	5	White concrete tower; 36.	
19442 <i>F 3577.44</i>	-NE. Lamma Island.	22° 14.3' N 114° 07.3' E	Fl.W. period 5s	43 13	6	White concrete tower.	Visible 122°-315°. 4 F.R. mark limits of submarine cable area in vicinity.
19445 <i>F 3537.8</i>	-Kong Sin Wan.	22° 15.8' N 114° 07.5' E	Q.Y.	16 5	1	SPECIAL Y, column, topmark.	
19460 <i>F 3538</i>	Tsing Chau.	22° 17.0' N 114° 07.0' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	121 37	16	White round tower; 58.	Visible 277°-186°. F.R. lights mark the piers in Hong Kong harbor.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19473 <i>F 3548</i>	--China Ferry Terminal, breakwater, No. "1".	22° 18.1' N 114° 09.8' E	Fl.R. period 3s	25 8	3	White column.	
19473.3 <i>F 3548.2</i>	--No. "2".	22° 18.1' N 114° 09.8' E	Fl.G. period 3s	25 8	3	White column.	
19473.6	--N. breakwater.	22° 18.0' N 114° 10.0' E	Fl.R. period 3s	22 7	3	White tubular column.	
19476 <i>F 3545.4</i>	-Yau Ma Tei Typhoon Shelter, N. entrance, N. side.	22° 19.0' N 114° 09.3' E	Fl.R. period 3s	26 8	3	White column.	
19476.2 <i>F 3545.55</i>	--N. entrance, S. side.	22° 18.9' N 114° 09.2' E	Fl.G. period 3s	26 8	3	White column.	
19476.4 <i>F 3545.7</i>	--S. entrance, N. side.	22° 18.4' N 114° 09.3' E	Fl.R. period 3s	26 8	3	White column.	
19476.6 <i>F 3545.75</i>	--S. side.	22° 18.3' N 114° 09.2' E	Fl.G. period 3s	26 8	3	White structure.	
19480 <i>F 3541.3</i>	-Naval Typhoon Shelter, W. breakwater.	22° 19.5' N 114° 08.6' E	Fl.G. period 3s	23 7	2	White tubular structure.	
19480.5 <i>F 3541</i>	--E. breakwater, head.	22° 19.5' N 114° 08.7' E	Fl.R. period 3s	23 7	2	White column; 13.	F.R. shown near root.
19482 <i>F 3540.8</i>	-Naval Base, E. breakwater.	22° 18.9' N 114° 08.1' E	Fl.G. period 3s	19 6	3		
19482.1 <i>F 3540.85</i>	--W. breakwater.	22° 18.9' N 114° 08.0' E	Fl.R. period 3s	19 6	3		Head of breakwater marked by Q.R. 6m 1M.
19483 <i>F 3540.7</i>	--Range, front.	22° 19.2' N 114° 08.0' E	Q.W.	78 24	3	Black and white beacon, can topmark.	
19483.1 <i>F 3540.75</i>	--Rear, 100 meters 349°30' from front.	22° 19.2' N 114° 08.0' E	Iso.W. period 3s	95 29	3	Black and white beacon, can topmark.	
19483.5 <i>F 3535.666</i>	Rambler Channel, Tsing Yi Bridge, S. approach, W. side.	22° 20.9' N 114° 06.8' E	F.R.				
19483.6 <i>F 3535.668</i>	-E. side.	22° 20.9' N 114° 06.8' E	F.R.				
19484.1 <i>F 3535.42</i>	N. side.	22° 20.9' N 114° 06.8' E	Iso.W. period 4s	71 22	5		Q.R. and Q.G. mark limits of southbound underpass.
19485 <i>F 3535.78</i>	-Kwai Tsing Bridge, S. side.	22° 21.0' N 114° 06.8' E	Iso.W. period 4s	85 26	3		Q.R. and Q.G. mark limits of northbound underpass.
19485.1 <i>F 3535.72</i>	--N. side.	22° 21.0' N 114° 06.8' E	Iso.W. period 4s	79 24	3		Q.R. and Q.G. mark limits of southbound underpass.
19486	-Tsing Lai Bridge, S. side.	22° 21.4' N 114° 06.7' E	Iso.W. period 4s	69 21	3		Q.R. and Q.G. mark limits of northbound underpass.
19486.1	--N. side.	22° 21.5' N 114° 06.6' E	Iso.W. period 4s	59 18	3		Q.R. and Q.G. mark limits of southbound underpass.
19488 <i>F 3534.2</i>	-Typhoon Shelter, N. entrance, N. side.	22° 21.5' N 114° 06.7' E	Fl.R. period 3s	16 5	3	White metal column.	
19488.2 <i>F 3534.22</i>	--N. entrance, S. side.	22° 21.5' N 114° 06.7' E	Fl.G. period 3s	23 7	2	White metal column.	
19488.4 <i>F 3534.24</i>	--S. entrance, N. side.	22° 21.2' N 114° 06.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	2	White column.	
19488.6 <i>F 3534.3</i>	--S. entrance, S. side.	22° 21.2' N 114° 06.8' E	Fl.G. period 3s	23 7	2	White column.	
19492 <i>F 3534</i>	-Channel Rock.	22° 22.0' N 114° 07.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	13 4	6	Black and white post, black triangular daymark, point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19496 F 3536.5	-Tsing Tsuen Bridge, center.	22° 21.6' N 114° 06.6' E	Iso.W. period 4s	89 27	7	On span.	On N. and S. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers to N. marked by F.R.
19498 F 3537.7	Ting Kau Bridge, center.	22° 21.7' N 114° 04.9' E	Iso.W. period 4s	218 66	5		On E. and W. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers N. and S. marked by F.R.
19504 F 3537.6	Kau Yi Chau.	22° 17.2' N 114° 04.8' E	Fl.(2)W.R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	W. R.	11 8	White concrete framework tower. W. 128°-350°, obscured-081°, W.-092°, R.-128°. DGPS Station.
19508 F 3537.7	-S. side	22° 17.0' N 114° 04.6' E	Fl.(3)W. period 20s	23 7	3	White concrete structure.	
19512 F 3532.2	Ma Wan Fairway, channel lead light.	22° 21.8' N 114° 04.2' E	Dir.Oc.W.R.G. period 8s lt. 6s, ec. 2s	93 28	W. R. G.	8 4 4	White steel lattice tower. Light shown when vessel constrained by draft is transiting Ma Wan Channel. G. 335°-338°, W.-342°, R.-345°
19514 F 3532.25	-E.	22° 22.0' N 114° 04.4' E	3 Oc.R. (vert.) period 8s	46 14	2	White framework tower.	Obscured 015°-255°. Traffic signals.
19516 F 3531	Pun Shan Shek.	22° 19.3' N 114° 04.1' E	Fl.R. period 3s	23 7	5	White tower.	
19520 F 3530.6	Tang Lung Chau.	22° 20.4' N 114° 03.8' E	Fl.W. period 5s fl. 1s, ec. 4s	121 37	18	White framework tower; 39.	Visible 224°-099°. Aero Q.R. on summit 1770 meters WSW. Horn: 1 bl. ev. 15s (bl. 2s, si. 13s).
19521 F 3530.8	Kap Shui Mun Bridge, center.	22° 20.6' N 114° 03.3' E	Iso.W. period 4s	174 53	5		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers W. marked by F.R.
19523 F 3530.9	Tsing Ma Bridge, center.	22° 21.1' N 114° 04.5' E	Iso.W. period 4s	226 69	5		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers E. and W. marked by F.R.
19524 F 3532.3	Ma Wan, Nqau Lau Tsui.	22° 21.3' N 114° 03.9' E	L.Fl.W.Y.R.G. period 6s fl. 2s, ec. 4s	93 28	W. R. G.	5 3 3	White steel lattice tower. Light shown when vessel constrained by draft is transiting Ma Wan Channel. Y. 091°-158°, R.-213°, G.-258°, R.-286°, W.-321°.
19526 F 3532	-NE. Point.	22° 21.0' N 114° 04.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	26 8	5	White concrete column; 26.	
19528 F 3529.5	-NW. point.	22° 21.3' N 114° 03.3' E	3 Oc.R. (vert.) period 8s	46 14 40 12 33 10	2	White steel lattice tower.	Lights shown when vessel constrained by draft transits Ma Wan Channel. Visible 053°-091°.
19532 F 3530	-W. point.	22° 20.9' N 114° 03.2' E	Fl.W. period 3s	49 15	10	White framework tower; 25.	
19540 F 3521.54	Datum Rock.	22° 16.3' N 114° 03.8' E	Q.R.	23 7	3	White pillar; 21.	
19544 F 3531.3	Peng Chau, Wu Ying Pai.	22° 18.2' N 114° 02.0' E	Fl.(2)W. period 10s	16 5	3	White column.	
19546 F 3531.5	-W.	22° 18.0' N 114° 01.8' E	Q.R.	16 5	1	White column.	Q.R. shown from Tso Yuen Wan westward.
19548 F 3521.66	-Comber Rock	22° 17.0' N 114° 02.0' E	Q.R.	10 3	2	White column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19550 F 3521.7	Discovery Bay Marina, S. breakwater.	22° 17.4' N 114° 01.4' E	Fl.G. period 3s	23 7	3	White tubular structure.	
19550.5 F 3521.72	-N. breakwater.	22° 17.5' N 114° 01.4' E	Fl.R. period 3s	23 7	3	White tubular structure.	
19552 F 3521.6	Chau Kung Island.	22° 16.0' N 114° 03.0' E	Fl.R. period 5s	17 5	3	White metal column; 11.	F.W. on jetty 1.31 miles NW.
19554 F 3521.83	Ngan Kwong Wan.	22° 15.7' N 114° 00.3' E	Q.R.	20 6	2	Red and white checkered beacon.	
19554.5 F 3521.8	-Rock at entrance to bay.	22° 16.0' N 114° 01.0' E	Q.W.	25 8	4	White column; 19.	
19555	-Hei Ling Chau Island, Typhoon Shelter, N. entrance.	22° 15.2' N 114° 01.6' E	Fl.R. period 3s	23 7	3		
19556	-Hei Ling Chau Island, Typhoon Shelter, N. breakwater, N. head.	22° 15.1' N 114° 01.6' E	Fl.G. period 3s	23 7	3		
19556.2	--S. head.	22° 14.5' N 114° 01.9' E	Fl.R. period 3s	30 9	3		
19556.4	--S. breakwater, W. head.	22° 14.4' N 114° 01.8' E	Fl.G. period 3s	30 9	3		
19556.6	--E. head.	22° 14.5' N 114° 02.3' E	Fl.R. period 3s	30 9	3		
HONG KONG							
19556.7 F 3521.922	Hei Ling Chau beacon.	22° 14.5' N 114° 02.4' E	Fl.(2)W. period 10s	20 6	5	Black beacon, red band, double ball topmark.	
CHINA							
19556.8	-Hei Ling Chau Island, Rock SW.	22° 14.6' N 114° 02.2' E	Fl.(2)W. period 5s	16 5	1		
19557	--E. breakwater.	22° 14.6' N 114° 02.3' E	Fl.G. period 3s	30 9	3		
19558 F 3577.46	W. Lamma Island, Shek Kok Tsui, off point.	22° 14.1' N 114° 06.3' E	Fl.(3)W. period 15s	30 9	10	White concrete tower.	
19562 F 3577.5	-Otsi Kok.	22° 14.0' N 114° 06.0' E	Q.W.	11 3	1	White concrete pillar.	
19566 F 3523	S. Traffic Separation Scheme, Cheung Chau Rock.	22° 12.0' N 114° 03.0' E	Fl.(2)W. period 10s	21 6	9	White concrete tower.	
19570 F 3522.3	N. Traffic Separation Scheme, SE. extremity of Lantau Island.	22° 13.6' N 114° 01.1' E	Fl.(4)W. period 15s	16 5	4	White concrete tower.	
19574 F 3522	-Chang Chow Passage, on Adamaster Rock between Lan Tau Shan and Cheung Chau Island.	22° 13.0' N 114° 01.0' E	Fl.W. period 5s fl. 1s, ec. 4s	16 5	7	White concrete tower; 6.	Radar reflector.
19578 F 3523.2	-Cheuns Chau Island, Typhoon Shelter, N. breakwater, N. head.	22° 12.7' N 114° 01.4' E	Fl.G. period 3s	22 7	4	White column; 12.	
19578.2 F 3523.22	--S. head.	22° 12.5' N 114° 01.3' E	Fl.R. period 3s	22 7	4	White column; 12.	
19578.4 F 3523.23	--Middle breakwater, N. head.	22° 12.5' N 114° 01.2' E	Fl.G. period 3s	22 7	4	White column; 12.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19578.6 <i>F 3523.24</i>	---S. head.	22° 12.4' N 114° 01.3' E	Fl.R. period 3s	22 7	4	White column; 12.	
19578.8 <i>F 3523.25</i>	--S. breakwater, N. head.	22° 12.3' N 114° 01.2' E	Fl.G. period 3s	22 7	4	White column; 12.	
19579 <i>F 3523.26</i>	---S. head.	22° 12.0' N 114° 01.1' E	Fl.R. period 3s	22 7	4	White column; 12.	
19582 <i>F 3523.4</i>	-Shek Ku Chau.	22° 12.0' N 113° 59.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	6	White square concrete tower; 13.	Visible 048°30'-274°.
19586 <i>F 3523.8</i>	-Siu A Chau.	22° 11.0' N 113° 54.0' E	Fl.(2)W. period 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 3.4s	90 27	7	White pedestal.	
19588 <i>F 3524</i>	-Lantau Island, SW. extremity.	22° 11.8' N 113° 50.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	14	White square tower.	Visible 261°-154°, obscured elsewhere.
19590 <i>F 3515</i>	Wenwei Zhou.	21° 48.8' N 113° 56.2' E	L.Fl.W. period 6s	141 43	16	White round tower, white lantern, red top; 56.	
RACON							
19594 <i>F 3520</i>	Zhu Zhou.	21° 59.8' N 113° 49.5' E	Fl.W. period 4s	590 180	16	White round tower; 16.	
RACON							
N(-•)							
19606 <i>F 3521</i>	Sanya Pai.	22° 04.8' N 113° 48.2' E	Fl.W.R. period 6s	79 24	W. R.	13 8	White square structure; 20. W. 165°-320°, R.-165°.
19610 <i>F 3523.6</i>	Tai A Chau.	22° 09.4' N 113° 54.2' E	Fl.(4)W. period 15s	98 30	9	White concrete tower; 13.	
19618 <i>F 3521.2</i>	Guishan Dao.	22° 08.1' N 113° 48.8' E	Fl.W. period 5s	187 57	18	White round tower; 49.	
RACON							
B(-••)							
19622 <i>F 3521.3</i>	Shilong Jiao.	22° 10.1' N 113° 47.7' E	Fl.W. period 10s	131 40	13	White round tower; 33.	
19626 <i>F 3521.35</i>	Rongshu Tou.	22° 10.8' N 113° 47.7' E	Fl.W. period 8s	181 55	16	White square stone structure; 24.	
19628	MAYOU SHI LIGHTSHIP.	22° 16.5' N 113° 48.4' E	Fl.W. period 6s			Red hull, name on sides.	
RACON							
K(-•-)							
19640 <i>F 3416</i>	Fortaleza da Guia.	22° 12.0' N 113° 33.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	354 108	16	White round tower, red lantern;	Signals: Typhoon warnings.
19644 <i>F 3427</i>	Outer entrance range, front.	22° 11.8' N 113° 33.3' E	3 F.W. (vert.)	46 14	5	Black metal tower; 23.	Range lights shown by day when hydrofoils are operating and at night as needed.
19644 <i>F 3427</i>	Outer entrance range, front.	22° 11.7' N 113° 33.4' E	3 F.W. (vert.)	46 14	5	Black metal tower; 23.	Range lights shown by day when hydrofoils are operating and at night as needed.
19644.1 <i>F 3427.01</i>	-Middle, 278 meters 305° from front.	22° 11.8' N 113° 33.3' E	15 F.W. (vert.)	170 52	5	Black metal tower; 121.	
19644.2 <i>F 3427.1</i>	-Rear, 609 meters 305° from front.	22° 11.9' N 113° 33.1' E	4 F.W. (vert.)	220 67	5	Black metal tower; 36.	
19648 <i>F 3424</i>	Beacon No. "3", SE of breakwater.	22° 10.7' N 113° 35.1' E	Fl.G. period 2s	26 8	3	White beacon, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19656 F3426	Beacon No. "2".	22° 10.6' N 113° 35.0' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	26 8	3	Red and white beacon.	
RACON							
19658 F3427.5	S. Breakwater, "DS1".	22° 10.7' N 113° 34.8' E	Fl.Y. period 3s	26 8	5	Yellow metal tower on concrete base; 26.	Visible 125°-305°. Breakwater marked by beacons Fl.Y. 3s.
19660 F3427.2	N. Breakwater, "DN1".	22° 10.9' N 113° 34.8' E	Fl.Y. period 5s	26 8	5	Yellow metal tower on concrete base; 26.	Visible 305°-125°. Breakwater marked by beacons Fl.Y. 5s.
19664 F3428	Beacon No. "5".	22° 10.9' N 113° 34.7' E	Fl.G. period 4s	26 8	3	White concrete structure, green band, on piles; 26.	
19668 F3429	Beacon No. "4".	22° 11.0' N 113° 34.4' E	Fl.R. period 2s	26 8	3	White concrete structure, red band, on piles; 26.	
19672 F3430	Beacon No. "7".	22° 11.2' N 113° 34.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	3	White beacon, green band; 26.	
19676 F3432	Beacon No. "6".	22° 11.4' N 113° 33.8' E	Fl.R. period 2s	26 8	3	White concrete column, red bands; 26.	
19680	N. bridge pillar, "PN".	22° 11.4' N 113° 33.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	26 8	5	White square column, black and yellow bands; 13.	
19684	S. bridge pillar, "PS".	22° 11.4' N 113° 33.8' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	26 8	5	White square column, black and yellow bands; 13.	
19687 F3433	Beacon No. "9".	22° 11.5' N 113° 33.8' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	White concrete column, green bands; 13.	
19690 F3434	Beacon No. "8".	22° 11.5' N 113° 33.6' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	3	White beacon, red band; 23.	
19692 F3450	Enseada da Areia Preta N.	22° 12.6' N 113° 33.2' E	F.R.	23 7	2	Post on dolphin; 10.	Occasional.
19693 F3435.4	Porto Interior channel, No. "6".	22° 10.8' N 113° 33.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	2	White square column, red bands; 16.	
19696 F3435	-No. "5".	22° 10.8' N 113° 33.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	2	White square column, green bands; 16.	
19699 F3435.6	-No. "8".	22° 10.8' N 113° 33.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	2	White square column, red bands; 16.	
19702 F3435.2	-No. "7".	22° 10.9' N 113° 33.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	2	White square column, green bands; 16.	
19705 F3443	No. "16".	22° 10.6' N 113° 31.8' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	3	White beacon, red bands.	Radar reflector.
19708 F3442	Pedra d'a Areca, Beacon No. "14".	22° 10.5' N 113° 32.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	2	White concrete structure.	
19711 F3446	Pedra do Meio, Beacon "15".	22° 10.0' N 113° 32.0' E	Fl.W. period 5s fl. 1s, ec. 4s	26 8	2	Concrete structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19717 F 3448.5	Coloane Power Station, NE. pier, head, No. "31".	22° 08.4' N 113° 34.7' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	16 5	5	White metal structure; 19.	Radar reflector.
19720 F 3420	Ponta de Ka-ho, Beacon No. "17".	22° 07.7' N 113° 35.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	157 48	12	White column; 19.	
19723 F 3420.5	-Ponta de Hac-Sa.	22° 06.8' N 113° 34.4' E	Fl.(2)W. period 8s	180 55	12	Metal structure on concrete base.	
HONG KONG							
19724 F 3524.5	Wong Fa Pi.	22° 14.0' N 113° 49.8' E	Fl.(3)W. period 15s	22 7	5		
CHINA							
19725 F 3525	Tai O Bay.	22° 15.0' N 113° 51.0' E	Q.W.	26 8	4	White concrete tripod.	
19726 F 3525.5	Sha Chau.	22° 20.5' N 113° 53.4' E	Fl.(4)W. period 10s	93 28	10	White concrete structure.	
19727 F 3525.6	-	22° 21.0' N 113° 53.4' E	Dir.Oc.W. period 10s	24 7	2		Visible 082°-084°.
19728 F 3527.66	Tuen Mun, Typhoon Shelter, W. entrance, S. side.	22° 22.2' N 113° 58.4' E	Fl.R. period 3s	23 7	3	White column; 12.	
19728.2 F 3527.7	--W. entrance, N. side.	22° 22.3' N 113° 58.4' E	Fl.G. period 3s	23 7	2	White column, 12.	
19728.4 F 3527.72	--E. entrance, S. side.	22° 22.4' N 113° 58.6' E	Fl.R. period 3s	23 7	3	White column; 12.	
19728.6 F 3527.73	--N. side.	22° 22.4' N 113° 58.6' E	Fl.G. period 3s	23 7	2	White metal column; 12.	
19728.8 F 3527.8	-Gold Coast Marina, entrance, N. side.	22° 22.0' N 113° 59.3' E	Fl.R. period 3s	11 3	3	White column.	Aero Q.R. mark summits close N and NNE.
19729 F 3527.82	--S. side.	22° 21.9' N 113° 59.4' E	Fl.G. period 3s	11 3	3	White column.	Fl.R. and Fl.G. mark interior approach to marina.
19729.2 F 3527.6	Tsing Shan Wan, Sewer outfall.	22° 22.0' N 113° 58.0' E	Q.R.	16 5	3	White concrete tripod.	
19729.4 F 3527.74	Tuen Mun Castle Peak Bay.	22° 21.8' N 113° 59.1' E	Q.R.	11 3	1	White column; 6.	
19732 F 3527.9	Chi Shui-Men, Siu Ho Wan.	22° 18.8' N 113° 59.6' E	Q.W.	7 2	3	Black and yellow beacon, double cone daymark, points up.	Aero Q.R. marks summit close E.
19734 F 3528	-Luk Keng.	22° 20.0' N 114° 01.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	50 15	6	White concrete beacon; 15.	Visible 334°-289°30'
19736 F 3529	-Ha Pang.	22° 21.4' N 114° 01.7' E	Oc.W.G. period 3s	26 8	W. G.	11 9	White concrete pillar. W. 305°-265°, G.-305°. Aero Q.R. marks summit close N.
19738 F 3529.3	--E.	22° 21.3' N 114° 01.8' E	3 Oc.R. (vert.) period 8s	46 14	2	White framework structure.	Obscured 090°-330°. Traffic signals.
19742 F 3526	Lung Kwu Chau.	22° 22.8' N 113° 52.7' E	Fl.W. period 5s	175 53	15	White square concrete tower.	
19746 F 3526.2	Lan Kok Tsui.	22° 24.4' N 113° 54.3' E	Fl.(3)W. period 10s	430 131	15	White tubular structure.	

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CHINA							
19750 <i>F 3526.6</i>	Nim Wan, No. "1".	22° 25.3' N 113° 54.8' E	Fl.G. period 3s	30 9	2	Green steel pile.	Channel marked by lighted beacons. Radar reflector.
19752 <i>F 3526.8</i>	-NE.	22° 25.7' N 113° 55.2' E	Q.R.	10 3	2	White column.	
19753	Black Point Power Station.	22° 24.6' N 113° 54.2' E	Q.(9)W. period 15s	13 4	2	W. CARDINAL YBY, beacon, topmark.	
19754 <i>F 3458</i>	Chi-Wan Range, front.	22° 28.7' N 113° 52.8' E	Iso.R. period 2s	102 31	7	White square metal tower.	
19754.1 <i>F 3458.1</i>	--Rear, 460 meters 355°25' from front.	22° 29.0' N 113° 52.8' E	Oc.R. period 5s	138 42	7	White concrete structure, triangular topmark, point down; 33.	
19762 <i>F 3457.4</i>	Shekou, New Channel Range, front.	22° 28.7' N 113° 54.7' E	Iso.G. period 2s	46 14	4	White structure on concrete platform, red triangular topmark, point up; 43.	
19762.1 <i>F 3457.41</i>	-Rear, 550 meters 036°43' from front.	22° 28.8' N 113° 54.8' E	Oc.R. period 5s	60 18	6	White structure on concrete platform, red triangular topmark, point down; 58.	
19765 <i>F 3527.1</i>	Nam Sha Po.	22° 30.8' N 113° 59.7' E	Fl.(2)R. period 6s	20 6	10		
19766 <i>F 3527</i>	Hau Hoi Wan, on dolphin.	22° 28.6' N 113° 57.7' E	Q.R.	7 2	2	Dolphin.	
19768 <i>F 3526.9</i>	-Lau Fau.	22° 28.4' N 113° 56.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	20 6	5	White metal column.	
19770 <i>F 3458.4</i>	Dongma Zhou.	22° 29.9' N 113° 50.7' E	Fl.W. period 4s	187 57	5	White round brick structure; 7.	
19774 <i>F 3458.5</i>	Dachan Dao.	22° 31.2' N 113° 50.3' E	Fl.(2)R. period 6s	23 7	2	White concrete structure.	
19778 <i>F 3459</i>	Xiya Island.	22° 32.8' N 113° 49.1' E	Fl.(2)W. period 6s	82 25	3	White concrete post; 10.	Visible 272°-245°.
19779 <i>F 3452</i>	Tonggu Jiao.	22° 22.5' N 113° 37.4' E	Fl.(2)W. period 6s	180 55	18	White round stone tower and building; 36.	
19800 <i>F 3526.5</i>	Neilingding Dao.	22° 25.0' N 113° 47.0' E	Fl.(2)W. period 5s	46 14	12	White 3-sided stone structure.	
19804 <i>F 3456</i>	Dawang Jiao.	22° 26.1' N 113° 39.5' E	Fl.(2)W. period 6s	92 28	8	White triangular metal framework structure; 19.	
19810 <i>F 3465</i>	Jiaoyi Sha, S.	22° 41.1' N 113° 43.2' E	Q.(9)W. period 15s	17 5	4	W. CARDINAL YBY, beacon, topmark.	
19811 <i>F 3467</i>	-N.	22° 43.6' N 113° 41.6' E	Q.W.	17 5	4	N. CARDINAL BY, beacon, topmark.	
19812 <i>F 3466</i>	Shanban Zhou.	22° 43.0' N 113° 39.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	18	White square tower and building; Bell: 1 str. ev. 30s. 42.	
RACON							
		C(- - -)					
19820 <i>F 3473.9</i>	S. Range, front, 580 meters 009°03' from Nizhou Tou.	22° 54.2' N 113° 34.4' E	F.R.	59 18	5	White concrete pile, black stripe;	Reserve light Iso.W. 2s. 52.
19824 <i>F 3474</i>	-Nizhou Tou, common rear.	22° 54.6' N 113° 34.4' E	F.R.	78 24	5	Gray concrete pile, black stripe;	Reserve lights Oc.W. 5s on S. range, Oc.G. 5s on N. range.
19828 <i>F 3474.1</i>	--N. Range, front, 400 meters 138°43' from Nizhou Tou.	22° 54.8' N 113° 34.2' E	F.R.	59 18	5	White concrete pile, black stripe;	Reserve light Iso.G. 6s. 52.
19832 <i>F 3476</i>	Lianshan Range, front.	22° 59.7' N 113° 30.6' E	Iso.R. period 2s	56 17	5	White concrete tower; 46.	
19836 <i>F 3476.1</i>	Rear, 400 meters 326°04' from front.	22° 59.9' N 113° 30.5' E	Oc.R. period 6s	79 24	5	White concrete tower; 75.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
CANTON RIVER:							
19840 <i>F 3482</i>	-Dahao Zhou Range, front.	23° 04.9' N 113° 28.2' E	Fl.W. period 3s	30 9	5	White round tower; 24.	Tide gauge.
19844 <i>F 3482.1</i>	--Rear, 200 meters 132°33' from front.	23° 04.8' N 113° 28.4' E	Iso.W. period 2s	33 10	5	White round brick tower; 34.	
19848 <i>F 3483</i>	-Huangpu Gang Range No. "1", front.	23° 05.5' N 113° 27.8' E	Iso.G. period 6s	33 10	5	White round brick tower; 33.	
19852 <i>F 3483.1</i>	--Rear, 180 meters 324°40' from front.	23° 05.5' N 113° 27.8' E	F.G.	43 13	5	White round brick tower; 48.	
19856 <i>F 3483.2</i>	-Huangpu Gang Range No. "2", front.	23° 05.5' N 113° 27.6' E	Iso.G. period 6s	33 10	5	White round brick tower; 33.	
19860 <i>F 3483.21</i>	--Rear, 160 meters 312°33' from front.	23° 05.5' N 113° 27.5' E	F.G.	46 14	5	White round brick tower; 48.	
19864	-Liyu Gang.	23° 01.9' N 113° 22.9' E	Fl.W. period 4s	18 5	5		
19868	-Comus Rock.	22° 12.6' N 113° 33.2' E	Fl.G. period 4s				
19872	-Fenshuitou.	23° 02.2' N 113° 21.5' E	Fl.W. period 6s	33 10	4	Red and white beacon, ball topmark.	
19876	-Dawei Jiao.	23° 03.6' N 113° 16.0' E	Fl.W. period 4s	33 10	4		
19900	<i>Hebao Dao Buoy "1"</i> .	21° 49.8' N 113° 13.7' E	Fl.(2)G. period 6s			STARBOARD (A) G, pillar, topmark.	
RACON							
			K(- • -)				
19980 <i>F 3407</i>	Xiaojin.	21° 47.9' N 113° 01.4' E	Fl.W. period 6s	269 82	15	White hexagonal structure; 10.	
19984 <i>F 3406</i>	Weijia Dao.	21° 34.3' N 112° 47.9' E	Fl.W. period 5s	538 164	18	White round brick tower; 10.	
RACON							
			K(- • -)				
19984.5 <i>F 3406.5</i>	Modou Zhou.	21° 36.1' N 112° 44.0' E	Fl.W. period 4s	121 37	6	White square concrete pile; 7.	
19985 <i>F 3405.8</i>	Bijia Zhou.	21° 35.5' N 112° 34.3' E	Fl.(2)W. period 4s	72 22	6	White pyramidal framework skeleton; 10.	
19986 <i>F 3405.6</i>	Nanpeng Dao.	21° 32.8' N 112° 10.9' E	Fl.W. period 1.5s	626 191	20	White tower; 38.	Reserve light Fl.W. 8s 13M.
19988 <i>F 3405.5</i>	Huang-ching.	21° 33.0' N 112° 07.0' E	Fl.W. period 5s	42 13	8	White round concrete structure; 16.	
19992 <i>F 3405</i>	Hai-ling-shan Tao.	21° 33.4' N 111° 48.5' E	Fl.W. period 5s	145 44	12	White triangular steel tube framework structure; 26.	Fishing light.
19994	<i>Dazhu Zhou SBM.</i>	21° 20.9' N 111° 24.6' E	Fl.Y. period 3s				Horn.
RACON							
			X(- • • -)				
19996 <i>F 3404</i>	Dafangji.	21° 23.1' N 111° 11.2' E	Fl.W. period 6s	453 138	18	Red round concrete tower; 13.	
RACON							
			Z(- - • -)				
20000 <i>F 3359</i>	Nao Chou.	20° 54.2' N 110° 36.2' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	337 103	26	White round stone tower; 62.	Radiobeacon.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20004 <i>F3360</i>	-Doulong Cun N. Range, front.	20° 56.2' N 110° 37.8' E	F.W.	82 25	14	White pyramidal brick tower; 23.	Visible 136°-316°. Siren: (about 200 meters NE).
	-RACON		Z(--••)				
20008 <i>F3360.1</i>	--Rear, 200 meters 270° from front.	20° 56.2' N 110° 37.6' E	Iso.W. period 6s	131 40	14	Round stone structure, white and black bands; 85.	Visible 250°-290°.
20010 <i>F3360.4</i>	-Doulong Cun S. Range, front.	20° 56.4' N 110° 37.8' E	Oc.W. period 4s	49 15	8	White round concrete tower, black stripe; 44.	
20012 <i>F3360.41</i>	--Rear, 1750 meters 166°56' from front.	20° 55.4' N 110° 38.0' E	Q.W.	131 40	8	Truncated hexagonal pyramidal tower, upper part white and black stripes, middle part black and white stripes, lower part white; 57.	Visible 147°-187°.
20016 <i>F3368</i>	Longshui Ling Range, front.	21° 01.1' N 110° 32.2' E	F.W.R.	69 21	14	White truncated hexagonal pyramidal stone tower; 36.	W. 191°-221°, R.-270°, W.-308°, R.-358°.
20020 <i>F3368.1</i>	--Rear, about 1088 meters 303°46' from front.	21° 01.4' N 110° 31.8' E	Fl.(2)W. period 4s	190 58	10	White truncated hexagonal pyramidal stone tower; 36.	Visible 289°-319°.
LIN-HAI TAO:							
20024 <i>F3374</i>	-Nansan Dao Range, front.	21° 05.8' N 110° 33.7' E	Iso.W. period 6s	62 19	7	White truncated hexagonal pyramidal stone tower, black bands; 54.	Visible 210°-120°.
20028 <i>F3374.1</i>	--Rear, 1100 meters 325°05' from front.	21° 06.4' N 110° 33.4' E	F.W.	102 31	10	White truncated hexagonal pyramidal stone tower, black bands; 44.	Visible 237°-015°.
20032 <i>F3378</i>	-SW. extremity of island Range, front.	21° 05.5' N 110° 32.5' E	Iso.W. period 4s	69 21	7	Concrete structure; 77.	Visible 300°-120°.
20036 <i>F3378.1</i>	--Rear, 800 meters 076°46' from front.	21° 05.6' N 110° 33.4' E	F.W.R.G.	98 30	W. R. G.	7 4 3	Concrete structure; 106. W. 066°-084°, R.-124°, G.-310°-066°.
20040 <i>F3380</i>	-Donghai Dao Range, front.	21° 03.4' N 110° 28.6' E	Iso.W. period 4s	85 26	7	White hexagonal truncated pyramidal tower, black band; 23	
20044 <i>F3380.1</i>	--Rear, 480 meters 142°12' from front.	21° 03.2' N 110° 28.8' E	F.W.	138 42	7	White hexagonal truncated pyramidal tower, black bands; 46.	
20048 <i>F3381</i>	-Dongtoushan Dao Range, front.	21° 06.8' N 110° 24.8' E	Iso.W. period 4s	43 13	8	White concrete structure, black stripe; 30.	Visible 168°-188°.
20052 <i>F3381.1</i>	--Rear, 250 meters 177°40' from front.	21° 06.6' N 110° 24.8' E	Fl.W. period 1.5s	75 23	12	White concrete structure, black stripe; 37.	Visible 168°-188°.
20056 <i>F3379</i>	-Shitou Jiao Range, front.	21° 09.4' N 110° 23.6' E	F.R.	33 10	7		Visible 191°-065°.
20060 <i>F3379.1</i>	--Rear, 540 meters 322°13' from front.	21° 09.7' N 110° 23.4' E	F.R.	62 19	7	White hexagonal truncated pyramidal tower, black bands; 40.	Visible 312°-332°.
20064 <i>F3381.5</i>	--Oil Pier, S. head.	21° 09.5' N 110° 24.4' E	F.R.	19 6	2	Gray concrete pillar; 21.	Visible 217°30'-141°.
20065 <i>F3381.6</i>	--N. head.	21° 09.5' N 110° 24.5' E	F.R.	19 6	2	Gray concrete pillar; 21.	Visible 058°-340°30'.
20068 <i>F3383</i>	-Zhanjiang Basin Range, front.	21° 11.1' N 110° 24.4' E	F.G.	72 22	2	Gray concrete structure, triangular daymark, point up.	
20072 <i>F3383.1</i>	--Rear, 150 meters 344°57' from front.	21° 11.1' N 110° 24.4' E	F.G.	82 25	2	Gray concrete structure, triangular daymark, point down.	Signal station.
20076 <i>F3382</i>	-Maxie Range, front.	21° 11.8' N 110° 25.7' E	F.R.	56 17	5	White hexagonal truncated pyramidal tower; 12.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20080 <i>F 3382.1</i>	--Rear, 160 meters 023°10' from front.	21° 11.9' N 110° 25.7' E	F.R.	72 22	5	White hexagonal truncated pyramidal tower; 18.	
20082 -	Moyanlou Range, front.	21° 14.3' N 110° 26.9' E	F.R.	43 13	5	White stone structure, black bands.	
20082.1 --	Rear, 461 meters 030°17' from front.	21° 14.5' N 110° 27.0' E	F.R.	49 15	7	White stone structure, black bands.	
20083 -	Xiahai Range, front.	21° 15.0' N 110° 24.4' E	F.R.	39 12	7	Black and white brick structure.	
20083.1 --	Rear, 309 meters 199°47' from front.	21° 14.8' N 110° 24.4' E	F.R.	69 21	7	Black and white brick structure.	
20084 -	Diaoshun Dao Range, front.	21° 16.8' N 110° 23.8' E	Iso.W. period 4s	36 11	7	White stone structure, black bands.	
20084.1 --	Rear, 278 meters 322°31' from front.	21° 16.9' N 110° 23.7' E	F.W.	59 18		White stone structure, black bands.	
20086 <i>F 3316.2</i>	Fangcheng Gang.	21° 33.7' N 108° 23.7' E	Fl.W. period 6s	187 57	20	Red and white round steel tower; 98.	
20087 <i>F 3320.5</i>	-Beihai Xingang Range, front.	21° 28.3' N 109° 04.0' E	F.R.	72 22	3	Metal tower, triangular daymark, point up.	
20087.1 <i>F 3320.51</i>	--Rear, 450 meters 130° from front.	21° 28.2' N 109° 04.1' E	F.R.	92 28	3	Metal tower, triangular daymark, point down.	
20088 <i>F 3321</i>	Neigang Range, front.	21° 28.8' N 109° 05.2' E	F.R.	46 14	3	Black metal framework tower.	
20088.1 <i>F 3321.1</i>	--Rear, 151°36' from front.	21° 28.7' N 109° 05.2' E	F.R.	69 21	3	Black metal framework tower.	
20092 <i>F 3320</i>	Guantou Ling.	21° 27.2' N 109° 03.1' E	Fl.W. period 3s	394 120	12	White brick tower.	
QINZHOU WAN:							
20093.5 -	Damiaodum.	21° 35.5' N 108° 44.5' E	Fl.W. period 3s	118 36	6		Small craft channel on E. side of bay marked by light beacons.
20093.55 -	Tiaoduo Shi.	21° 33.8' N 108° 29.1' E	Fl.(2)W. period 6s	21 6	6		Fishing light.
20093.56 -	Shabadun.	21° 34.2' N 108° 29.0' E	Fl.W. period 4s	30 9	6		Fishing light.
20093.6 -	Emeiyue Shi.	21° 39.6' N 108° 34.2' E	Fl.(2)W. period 6s	19 6	4		Fishing light.
20093.65 -	Xihaijiang Jiao.	21° 40.8' N 108° 35.6' E	Fl.W. period 3s				
20093.66 -	Qingcaitou Dao.	21° 41.8' N 108° 36.1' E	Fl.W. period 4s				
20093.7 -	Qinzhou Gang.	21° 42.5' N 108° 34.9' E	Fl.R. period 3s				
20093.8 <i>F 3319</i>	Shatou Shi.	21° 41.5' N 108° 37.2' E	Fl.(2)G. period 6s	13 4	3	Green square concrete tower, triangular daymark, point up.	
20095 <i>F 3316.1</i>	Bailong Wei.	21° 30.1' N 108° 13.1' E	Fl.W. period 4s	295 90	18	White round tower.	
20096 <i>F 3326</i>	Weizhou Dao.	21° 00.7' N 109° 05.9' E	Fl.W. period 10s	301 92	15	White round stone tower; 49.	
RACON							
20100 <i>F 3327</i>	-Xieyang Dao.	20° 54.5' N 109° 12.5' E	K(-•-) period 4s	50 15	5	White wooden tripod; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20102 F3361	Zhanjiang Gang lightship.	20° 56.0' N 110° 40.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	10		Red hull, name on sides.	
	RACON		M(--)				
20104 F3328	-Jiaowei Jiao.	20° 13.4' N 109° 55.2' E	Fl.W. period 6s	111 34	18	Concrete tower; 106.	
	-RACON		B(-••)				
20108 F3336	-Hongkan.	20° 18.5' N 110° 23.8' E	Fl.W. period 8s	144 44	18	White round stone tower; 49.	
20110 F3358.5	-Luodou Sha.	20° 21.9' N 110° 34.8' E	Fl.W. period 4s	138 42	20	White round concrete tower; 42.	
	-RACON		K(-•-)				
20112 F3358	-Shangouhou (Peterson Pt.).	20° 26.0' N 110° 31.0' E	Fl.(2)W. period 6s	65 20	15	White round tower; 19.	
20116 F3334	-Paiwei Jiao.	20° 14.7' N 110° 16.9' E	Fl.W. period 3s	77 23	12	Round stone structure; 26.	
20120 F3348.4	-Tonggu Zui.	19° 38.2' N 111° 02.3' E	Fl.(2)W. period 8s	459 140	18	Hexagonal concrete tower; 33.	
	-RACON		K(-•-)				
20122 F3348.35	Beishi Dao.	19° 59.0' N 111° 16.1' E	Iso.W. period 2s	591 180	15	White hexagonal tower, red bands; 21.	
	RACON		X(-••-)				
20124 F3348.1	Mulan Tou.	20° 09.6' N 110° 41.0' E	Fl.(2)W. period 15s	289 88	25	White round concrete structure; 237.	Reserve light range 20M.
20128 F3348.3	Baochu Jiao.	20° 00.1' N 110° 56.0' E	Fl.W. period 6s	174 53	18	White round stone tower; 39.	Radio beacon about 0.5 mile NW.
	RACON		C(-•-•)				
20130 F3348.2	Zhong Shuidao lightship, No. "1".	20° 15.4' N 111° 04.3' E	Mo.(A)W. period 6s			Red hull, name on side.	
	RACON		B(-•••)				
20131 F3347.95	Baisha Men.	20° 04.3' N 110° 18.9' E	Fl.W. period 6s	256 78	18	White pyramidal concrete tower; 236.	
	RACON		K(-•-)				
20132 F3346	Xiuying.	20° 01.2' N 110° 16.1' E	Al.Fl.(3+1)W.R. period 45s W. fl. 1.5s, ec. 6s W. fl. 1.5s, ec. 6s W. fl. 1.5s, ec. 13.5s R. fl. 1.5s, ec. 13.5s	131 40	W. 15 R. 10	White round tower; 79.	
20136 F3347	-Haikou Wan Range, front.	20° 01.0' N 110° 16.6' E	F.R.	138 42	10	White square metal tower, triangular daymark, point up; 89.	
20140 F3347.1	--Rear, 430 meters, 163°08' from front.	20° 00.8' N 110° 16.6' E	F.R.	157 48	10	Black metal framework structure, triangular daymark, point down; 87.	
20144 F3347.3	-Breakwater, W. head.	20° 01.6' N 110° 16.4' E	Fl.G. period 2s	30 9	2	Square concrete tower; 32.	
20146 F3342.73	Yubao Jaio.	19° 59.5' N 109° 56.5' E	Fl.(3)W. period 15s	243 74	18	White pyramidal concrete tower, red bands; 177.	
	RACON		C(-•-•)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
HAI NAN TAO:							
20148 F 3342	-Lingao.	20° 00.7' N 109° 42.7' E	Fl.W. period 10s	65 20	15	Metal framework structure, red and white bands; 67.	The lighthouse should be passed at a distance of not less than 2 miles.
	-RACON		K(-•-)				
HAINAN DAO:							
20152 F 3339	-Bingma Jiao.	19° 53.5' N 109° 15.8' E	Fl.W. period 6s	233 71	22	White hexagonal structure, red stripes; 136.	Reserve light range 15M.
	-RACON		O(--)				
20156 F 3338.4	-Guanyin Jiao.	19° 34.7' N 109° 00.6' E	Fl.(3)W. period 9s	197 60	18	White square stone tower; 19.	
	-RACON		X(-••-)				
20157 F 3338.34	-Haitou.	19° 31.3' N 108° 56.6' E	Fl.(2)W. period 6s	30 9	4	White concrete tower.	
20160 F 3338.2	-Junbi Jiao.	19° 21.9' N 108° 41.0' E	Fl.W. period 8s	315 96	20	White hexagonal concrete tower; 27.	Reserve light range 12M.
	-RACON		K(-•-)				
20164 F 3337	-Yulin Jiao.	19° 05.9' N 108° 36.7' E	Fl.(2)W. period 6s	167 51	12	Steel pipe trestle, black and white bands; 19.	Signal station.
20168 F 3337.6	-Basuo Gang Range, front.	19° 06.4' N 108° 37.9' E	F.R.	46 14	10	White square structure, black stripe, triangular daymark, point up; 41.	
20172 F 3337.61	--Rear, 260 meters 089°03' from front.	19° 06.4' N 108° 38.1' E	F.R.	69 21	10	White square structure, black stripe, triangular daymark, point down; 66.	
20176 F 3337.1	-N. breakwater, head.	19° 06.5' N 108° 37.3' E	Fl.R. period 3s	17 5	5	White round concrete structure; 20.	
20180 F 3337.3	-W. breakwater, head.	19° 06.3' N 108° 37.3' E	Fl.G. period 3s	18 5	2	Green round concrete structure; 20.	
20184 F 3357.5	-Ganen Jiao.	18° 50.6' N 108° 38.1' E	Fl.W. period 6s	154 47	18	Round tower, red and white bands; 154.	
	-RACON		Y(-•--)				
20188 F 3357	-Yingge Zui.	18° 30.4' N 108° 41.3' E	Fl.(2)W. period 10s	131 40	22	White round concrete structure; 89.	
	-RACON		O(--)				
20192 F 3356	-Xigu Dao.	18° 19.4' N 108° 57.0' E	Fl.W. period 6s	292 89	18	White round tower; 50.	Reserve light range 12M.
	-RACON		K(•-•)				
20193	-South Hainan Dao Gas Platform.	17° 30.7' N 109° 01.4' E	Mo.(U)R. period 15s		10		Horn.
			F.R.				
20194 F 3350	-Ximao Zhou.	18° 13.7' N 109° 22.0' E	Fl.W. period 3s	450 137	18	White concrete pile; 46.	
20195 F 3350.5	-Baipai.	18° 14.2' N 109° 28.5' E	Fl.W. period 3s	49 15	10	White round concrete structure; 35.	
20195.5 F 3351	-San Ya Range, front.	18° 14.2' N 109° 29.6' E	F.R.	52 16	10	Triangular daymark, point up, on concrete base; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20195.51 <i>F 3351.1</i>	--Rear, 290 meters 071°30' from front.	18° 14.2' N 109° 29.9' E	F.R.	62 19	10	Metal structure, triangular daymark, point down; 52.	
20196 <i>F 3349</i>	-Jinmu Jiao.	18° 09.8' N 109° 34.3' E	Fl.W. period 10s	236 72	22	White round concrete tower; 59.	Reserve light range 15M.
	-RACON		O(-- -)				
20200 <i>F 3348.8</i>	-Linshui Jiao.	18° 23.3' N 110° 03.0' E	Fl.(3)W. period 20s	489 149	18	White octagonal tower; 33.	Reserve light range 12M.
	-RACON		K(- • -)				
20204 <i>F 3348.6</i>	-Dazhou Dao.	18° 39.7' N 110° 28.9' E	Fl.W. period 5s	571 174	15	White round tower; 40.	
	-RACON		X(- • • -)				
20208 <i>F 3348.5</i>	-Bai'an Dao.	18° 48.8' N 110° 34.0' E	Fl.(2)W. period 15s	265 81	18	White square tower, red stripes, white triangular daymark, point down; 39.	
	-RACON		K(- • -)				
20212 <i>F 3348.46</i>	-Boao.	19° 10.0' N 110° 34.9' E	Fl.(3)W. period 9s	92 28	15	White round brick tower; 76.	
20213 <i>F 3316.3</i>	Sanya Shi.	21° 30.7' N 108° 20.1' E	Fl.(2)W. period 6s	21 6	6	White stone structure.	

Section 12

Vietnam, Gulf of Thailand and South China Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20213.5	Dao Tran.	21° 14.2' N 107° 57.5' E	Fl.(4)W. period 15s	659 201	28	Yellow square tower, dwelling; 59.	
20214	Le Cancrat. F 3306	20° 49.5' N 107° 18.0' E	F.W.		20	White tower, red top; 16.	
PASSE DE LA PEROUSSE:							
20214.1	-Islet. F 3307	20° 52.5' N 107° 17.1' E	It.				
20214.2	-Ile Rousse. F 3309	20° 56.3' N 107° 18.3' E	It.				
20214.3	-L'Abille. F 3310	20° 57.9' N 107° 20.6' E	Fl.W. period 4s				
20214.4	-Cap Pha Entrance Range, front. F 3312	21° 00.4' N 107° 22.3' E	F.W.	26 8	8 39	White square tower, black bands; Visible 024°-045°.	
20214.5	--Rear, 816 meters 035° from front. F 3312.1	21° 00.6' N 107° 22.5' E	F.W.	39 12	12 52	White square tower, black bands; Visible 024°-045°.	
20214.6	-Range, front. F 3313	21° 01.4' N 107° 22.4' E	F.R.	26 8	8 49	White square tower, black bands; Visible 008°-028°.	
20214.7	--Rear, 650 meters 018° from front. F 3313.1	21° 01.6' N 107° 22.4' E	F.R.	39 12	14 59	White square tower, black bands; Visible 008°-028°.	
20214.8	-Range, front. F 3314	21° 02.0' N 107° 22.1' E	F.G.	42 13	3 62	White square tower, black bands; Occasional.	
20214.9	--Rear, 50 meters 357°30' from front. F 3314.1	21° 02.0' N 107° 22.2' E	F.G.	56 17	3	On wall.	Occasional.
20215	Baisu Yan. F 3316	21° 23.1' N 108° 12.5' E	Fl.W. period 4s	32 10	6	White rectangular stone structure; 33.	
20216	Xuy Nong Chao. F 3232	20° 37.3' N 107° 09.8' E	Fl.W. period 4s	361 110	20	Gray round masonry tower and dwelling; 98.	Radiobeacon.
20216.5	Dao Vinh Thu'c. F 3315	21° 23.8' N 107° 59.8' E	Fl.W. period 6s	279 85	16	White tower; 59.	
20220	Rocher du Large. F 3293	20° 39.0' N 107° 05.0' E	Fl.W. period 5s		5	White tower.	
CHENAL DE L'HAMELIN:							
20224	-Ile de l'Index, E. side. F 3296	20° 52.0' N 107° 07.0' E	F.W.	46 14	4	Truncated pyramidal structure.	
20228	-Ile de la Clochette, W. side. F 3297	20° 53.0' N 107° 08.0' E	F.W.	10 3	4	Truncated pyramidal structure.	
20232	-Le Porte Fanal. F 3298	20° 55.0' N 107° 07.0' E	F.R.	85 26	3	White pyramid.	
20236	-Ile de Repos, S. head. F 3299	20° 56.0' N 107° 06.0' E	F.W.	26 8	4	Truncated pyramidal structure.	
20240	Lach Huyen. F 3292	20° 50.0' N 106° 53.0' E	Iso.W. period 2s	30 9	8	Red metal hut on piles; 46.	Visible 226°-136°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
CUA NAM TRIEU:							
20244	-Entrance Buoy "O".	20° 42.0' N 106° 56.0' E	Fl.W. period 6s		Red buoy.		Pilot station.
20248 F 3268	-Bar Range, front.	20° 46.0' N 106° 51.0' E	Fl.(3)W. period 10s	26 8	10	Black piles, with hut on platform; 53.	
20252 F 3268.1	--Rear, 1.5 miles 303°30' from front.	20° 46.6' N 106° 49.8' E	Dir.F.W.	69 21		Black pyramidal concrete beacon, platform; 89.	Visible 302°30'-304°30'.
20256 F 3272	-Channel Range, front.	20° 50.0' N 106° 49.0' E	Fl.(4)W.R. period 17s	26 8	10	White hut on piles.	W. 313°-098°, R.-133°.
20260 F 3272.1	--Rear, 3241 meters 331° from front.	0° 00.0' 0° 00.0'	F.W.	48 15	12	Red framework tower; 89.	Visible 318°-343°.
20264 F 3278	-Coude, bend of channel.	20° 50.0' N 106° 47.0' E	F.W.R.	16 5	W. R.	9	Black hut on white piles; 43. W. 126°-276°, R.-286°, obscured elsewhere.
			L.Fl.R. period 8s fl. 2s, ec. 6s	23 7		6	Same structure.
20264.5 F 3280.4	-Song Bach Dang.	20° 52.7' N 106° 45.0' E	Mo.(B)W.R. period 6s	26 8	W. R.	10 6	Red metal framework tower on white dwelling, on piles. W. 180°-255°, R.-325°, W.-118°.
DINH VU CUT:							
20265 F 3279	-E. entrance, N. side.	20° 50.9' N 106° 45.8' E	Iso.W.R. period 3s	36 11		Red column on piles; 65.	W. 240°-150°, R.-240°.
20265.1 F 3279.2	--S. side.	20° 50.8' N 106° 45.8' E	F.R.	36 11	10	White triangular topmark on black tripod, white bands; 39.	Visible 092°-312°.
20265.5 F 3280	-W. entrance, N. side.	20° 51.2' N 106° 45.1' E	Iso.G. period 3s	46 14	10	Red metal framework tower on piles; 62.	Visible 277°-137°.
20266 F 3282	Song Cua Cam Range, front.	20° 52.7' N 106° 42.3' E	Oc.(3)W. period 6s	23 7	6	Red hut on piles; 46.	Visible 193°-073°.
20266.1 F 3282.1	-Rear, 335 meters 299° from front.	0° 00.0' 0° 00.0'	F.G.	26 8	3	Black tripod, white bands; 29.	
20267 F 3283	Haiphong Harbor.	20° 52.1' N 106° 40.3' E	F.R.	26 8	3	Black tripod; 56.	Visible 140°-050°.
20268 F 3286	Hon Dau.	20° 40.0' N 106° 48.7' E	Fl.(2)W. period 10s	203 62	17	Gray octagonal tower; 66.	Visible 140°-050°. Reported Fl.(2)W. 4.6s (1993). Radio beacon.
20272 F 3284	Cua Ba Lat.	20° 20.0' N 106° 38.0' E	Fl.W. period 4s		12		
20272.5 F 3283	Ba Lat.	20° 15.4' N 106° 35.7' E	Fl.(3+1)W. period 20s	121 37	17	Gray tower on yellow dwelling; 112.	Radio beacon about 3 miles NNW.
RACON							
20273 F 3280	Dao Bach Long Vi.	20° 08.0' N 107° 43.4' E	Fl.(2)W. period 10s	262 80	26	Octagonal gray tower on yellow dwelling; 75.	
20274 F 3285	Hon Me.	19° 21.7' N 105° 56.2' E	Fl.(3+1)W. period 12s		18		Visible 180°-000°.
20276 F 3220	Vinh River.	18° 46.0' N 105° 46.0' E	Fl.W. period 2.5s				
20277 F 3216	Cua Viet.	16° 53.8' N 107° 12.2' E	Fl.W. period 4s	92 28	15	Tower on yellow dwelling; 72.	
20278 F 3213	Thai Duong Thuong.	16° 34.3' N 107° 37.2' E	Fl.(3)W. period 10s	112 34	15	White square tower; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH CHINA SEA							
PARACEL ISLANDS:							
20280 F 3197.5	-Woody Island.	16° 50.2' N 112° 19.8' E	Fl.(3)W. period 9s	66 20	13	White round structure; 6.	Occasional.
20284 F 3199.5	-Bombay Reef.	16° 01.6' N 112° 26.5' E	Fl.W. period 4s	72 22	15	White round tower; 72.	
20288 F 3196	-North Reef.	17° 03.8' N 111° 28.0' E	Fl.(2)W. period 6s	72 22	15	White round tower; 72.	
NORTH DANGER REEF:							
20289 F 2825	-Northeast Cay.	11° 27.5' N 114° 21.3' E	Fl.(2)R. period 10s	23 7	5		
20289.2 F 2824.5	-Southwest Cay.	11° 25.9' N 114° 19.9' E	Fl.(2)W. period 6s	118 36	15	Gray masonry tower.	
20289.6 F 2824	Thitu (Pagasa) Island.	11° 02.5' N 114° 16.9' E	Fl.W. period 5s				
SPRATLEY ISLANDS:							
20290 F 2825.1	-Ladd Reef.	8° 39.4' N 111° 38.0' E	Fl.W. period 5s	131 40	16	White tower, red bands; 138.	
20290.1 F 2825.15	-West Reef.	8° 50.7' N 112° 11.7' E	Fl.(3)W.		16	White tower, red bands; 138.	
20290.2	Prince of Wales Bank.	8° 09.4' N 110° 35.5' E	Fl.(2)W. period 10s	72 22	12	Hut on pilings.	
20290.4	Alexandra Bank.	8° 02.0' N 110° 37.0' E	Fl.(4)W. period 13s	72 22	12	Hut on pilings.	
20290.6	Rifleman Bank.	7° 52.2' N 111° 44.5' E	Fl.(5)W. period 20s	72 22	12	Hut on pilings.	
20290.8 F 2825.18	Amboyna Cay.	7° 53.4' N 112° 55.1' E	Fl.(2)W. period 10s	72 22	16	Round masonry tower, gray dwelling; 82.	
RACON							
		A(- -)					
20291 F 9534.9	Prince Consort Bank.	7° 48.8' N 109° 56.9' E	Fl.(2)W. period 8s		12	Platform.	
20291.2	Grainger Bank.	7° 48.8' N 110° 28.4' E	Fl.(4)W. period 16s	72 22	12	Hut on pilings.	
VANGUARD BANK:							
20291.4	-Tu-Chin A.	7° 33.0' N 109° 42.0' E	Fl.(2)W. period 13s	72 22	12	Hut on pilings.	
20291.6	-Tu-Chin B.	7° 33.2' N 109° 48.0' E	Fl.(3)W. period 8s	72 22	12	Hut on pilings.	
VIETNAM							
VUNG DA NANG:							
20292 F 3204	-Mui Da Nang.	16° 08.3' N 108° 19.6' E	Fl.(2)W. period 10s	518 158	27	White round masonry tower; 29.	Visible 127°-323°.
20296 F 3206	-Da Nang, N. Fort Point.	16° 07.0' N 108° 13.0' E	Fl.W. period 2.5s	135 41	10	White masonry tower; 16.	Visible 300°-210°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20304 F3210	-Range front.	16° 07.0' N 108° 13.0' E	Q.G.	13 4	1	White tower.	
20308 F3210.1	--Rear, 384 meters 352° from front.	16° 07.2' N 108° 13.4' E	Oc.G. period 4s	13 4	1	White tower.	
20312 F3209	-Beacon No. "1".	16° 06.0' N 108° 13.0' E	Fl.W. period 4s	13 4	2		Fl.G. on S. head.
20316 F3211	-Breakwater, head.	16° 05.0' N 108° 14.0' E	Fl.R. period 2.5s	16 5	1	White pylon; 10.	
20320 F3184	Cu Lao Re.	15° 23.1' N 109° 08.8' E	Fl.W. period 4s	171 52	12	Black and white metal tower.	Visible 107°-147°.
20324 F3176	Vung Moi.	14° 15.0' N 109° 10.0' E	Iso.W. period 7s	167 51	11	White house; 18.	Visible 162°-338°.
QUI NHON HARBOR:							
20332 F3162	-Presqu'ile de Phuoc Moi, S. point.	13° 45.6' N 109° 15.4' E	Fl.G. period 4s	170 52	8	White tower, black bands; 26.	Visible 304°-233°.
20336 F3163	-AVIATION LIGHT.	13° 46.0' N 109° 13.0' E	Al.Fl.W.G. period 10s				
20364 F3158	Phuoc Chau (Ganbir).	13° 37.0' N 109° 22.0' E	Fl.(3)W. period 8s	387 118	16	White and black tower; 55.	Obsc. 104°-138°. Reported Fl.(3+1)W. 13s 28M (1986).
20368 F3154	Cap Varella.	12° 53.5' N 109° 27.9' E	Fl.(3)Y. period 10s	338 103	20	White tower; 56.	Visible 171°-356°. Signal station. Storm signal.
20372 F3148	Hon Tre (Mui Rachtrang).	12° 11.6' N 109° 20.3' E	Fl.(3)W. period 10s	335 102	26	White round tower, black bands; 47.	Difficult to distinguish during day due to white two-story building in proximity.
20376 F3150	Mui Chut, S. of Baie de Nha Trang.	12° 13.0' N 109° 13.0' E	F.W.	138 42	9	Turret on white house.	Visible 118°-028°.
VINH CAM RANH:							
20384 F3134	-Hon Chut, NE. head.	11° 46.9' N 109° 13.5' E	Fl.W. period 4s	192 59	5	Gray masonry tower; 19.	Visible 128°-038°.
20385 F3140	-Cam Lam, pier.	11° 53.5' N 109° 09.1' E	Fl.W. period 4s	30 9	4	White round concrete tower, black bands.	
20386.1 F3138.9	--Rear, 300 meters 015° from front.	11° 55.4' N 109° 11.6' E	Q.R.				
20386.2 F3139.1	--Rear, 200 meters 260° from front.	11° 55.3' N 109° 11.5' E	Q.G.				
20388 F3138	-Pointe Bai Sau.	11° 54.0' N 109° 12.0' E	Fl.R. period 4s	28 9	4	White conical tower, black bands; 25.	
20392 F3137	-Ammo Channel No. "1".	11° 55.0' N 109° 11.0' E	Fl.W. period 2.5s	15 5	4		
20396 F3137.2	--No. "2".	11° 54.8' N 109° 11.4' E	Fl.R. period 4s	15 5	2		
20397 F3137.4	-No. "3".	11° 55.1' N 109° 11.6' E	Fl.G. period 4s	15 5	3		
20400 F3137.8	--No. "8".	11° 55.4' N 109° 12.2' E	Fl.R. period 4s	15 5	2		
20404 F3122	Mui Dinh.	11° 21.5' N 109° 01.1' E	Fl.(2+1)W. period 16s	610 186	17	White square tower; 52.	Obscured when bearing more than 049°.
20408 F3118	Phan Thiet.	10° 55.1' N 108° 06.4' E	F.G.	65 20	6	Metal tower; 23.	Visible 055°-235°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20412 <i>F 3116</i>	Mui Ke Ga.	10° 41.5' N 108° 59.7' E	Fl.(3+1)W. period 10s	213 65	7	Light colored octagonal granite tower; 135.	
20416 <i>F 3066</i>	Mui Vung Tau.	10° 19.9' N 107° 04.9' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	633 193	29	White tower; 59.	Storm signals. Signal station.
RACON							
20428 <i>F 3070</i>	-Mui do Cao Trang.	10° 21.3' N 107° 03.9' E	Fl.(3)G. period 12s	66 20	8	Black and white square tower; 56.	Visible 010°-175°.
20432 <i>F 3076</i>	-Pointe Ganh Rai.	10° 23.0' N 107° 03.7' E	Fl.(2)G. period 4s	62 19	6	Pylon, black and white bands; 46.	
20436 <i>F 3078</i>	-Vung Tau Range, front.	10° 24.0' N 107° 05.0' E	Q.G.	17 5		Red dayboard, white reflective stripe.	
20440 <i>F 3078.1</i>	--Rear, about 997 meters 95°20' from front.	10° 23.5' N 107° 06.0' E	Oc.G.	38 12		Red dayboard, white reflective stripe.	
20444 <i>F 3082</i>	-Can Gio.	10° 23.9' N 107° 01.1' E	Fl.(3)W. period 8s	56 17	6	Octagonal hut on red and white piles.	Intensified 129°-335°.
20446 <i>F 3083</i>	-Song Nga.	10° 27.1' N 106° 56.4' E	Fl.(2)W. period 8s			Metal framework tower.	
20448 <i>F 3084</i>	-Ba Yen (Rach Cai Gau) Range, front.	10° 28.7' N 106° 56.4' E	Fl.(9)R. period 15s	30 9	3	Steel tower, red and white bands; 33.	Synchronized.
20452 <i>F 3084.1</i>	--Rear, 75 meters 335° from front.	10° 28.7' N 106° 56.4' E	Fl.(9)W. period 15s	39 12	5	Steel tower, red and white bands; 39.	Synchronized.
20452.5	-Beacon "15".	10° 32.3' N 106° 51.3' E	Fl.G. period 4s			White beacon, black band.	
20464 <i>F 3110</i>	Mui Den Do No. "24".	10° 44.0' N 106° 45.0' E	Q.(2)W. period 4s fl. 0.2s, ec. 0.6s fl. 0.2s, ec. 3s	30 9	4	White metal pylon, red lantern.	
SONG CAU TIEU:							
20472 <i>F 3060</i>	-Banc Norodom.	10° 14.8' N 106° 47.7' E	Dir.Fl.W. period 2.5s			Round tower on piles.	Intensified at 290°.
CON SON (POULO CONDORE):							
20476 <i>F 3046</i>	-Hon Bai Canh.	8° 39.9' N 106° 42.6' E	Fl.(3)W. period 10s	696 212	31	Square white tower on house, red roof; 52.	Visible 150°-070°, but partially obscured by Han Kao 230°-240°.
20480 <i>F 3048</i>	-Vinh Con Son.	8° 41.0' N 106° 36.0' E	F.R.	49 15	5	White pyramidal tower; 22.	A F.G. light is shown from head of landing jetty.
20484 <i>F 3048.1</i>	--Rear, 875 meters 339° from front.	8° 41.0' N 106° 36.1' E	F.W.	81 25	10	White pyramidal tower; 31.	
20488 <i>F 3049</i>	-Con Dao, at White Mark.	8° 39.0' N 106° 36.0' E	Fl.W. period 2.5s	13 4	6	White rock.	
20492 <i>F 3042</i>	Hon Khoai.	8° 25.7' N 104° 50.2' E	Fl.W. period 5s	984 300	30	Square granite tower, dwelling; 52.	Obscured 041°-055°. Obscured arc increases on approach within 9 miles. Reported Fl.(2)W. 9s (1989).
20493 <i>F 3040</i>	Hon Chuoi.	8° 56.8' N 104° 31.9' E	Fl.(2)W. period 7s	525 160	12	House; 33.	
20494 <i>F 3039</i>	Hon Nam Du.	9° 40.6' N 104° 21.3' E	Fl.(3)W. period 10s	1047 319	12	House; 33.	
20494.5 <i>F 3039.5</i>	Hon Tho Chu.	9° 17.6' N 103° 28.5' E	Fl.(4)W. period 15s	502 153	12	Lantern on house; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20496 F3021	Poulo Wai.	9° 55.0' N 102° 56.0' E	Iso.W. period 4s	269 82			
20500 F3036	-Entrance to Rach Giadi Long Xuyen.	10° 00.7' N 105° 04.7' E	Fl.(2)W. period 8s	56 17	10	White metal tower; 52.	Visible 088°-358°.
20504 F3032	Ha Tien Range, front.	10° 22.7' N 104° 28.7' E	Fl.(9)W. period 13.8s	29 9	10	White metal tower; 20.	
20508 F3032.1	-Rear, about 750 meters 044° from front.	10° 23.0' N 104° 29.5' E	Fl.(5)W. period 10s	46 14	10	White metal tower; 39.	
20512 F3030	Mui Nai.	10° 22.0' N 104° 26.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	203 62	6	Square stone tower; 26.	Visible 330°-107°, except where obscured by islands.
20516 F3022	Rach Duong Dong.	10° 13.0' N 103° 57.6' E	Fl.(3)W. period 9s	49 15	10	White tower; 16.	
20518 F3025	-An Thoi.	10° 00.8' N 104° 00.9' E	Mo.(A)W. period 6s	230 70	10	White tower; 16.	
20520 F3028	-Ham-Ninh.	10° 11.0' N 104° 03.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	26 8	4	Red and white steel tower; 23.	
CAMBODIA-THAILAND							
BAIE DE RIEM:							
20524 F3019	-Range, front.	10° 30.1' N 103° 36.6' E	F.W.	36 11	3	White metal framework pylon; 30.	Visible 334°-002°.
20528 F3019.1	--Rear, 290 meters 348° from front.	10° 30.2' N 103° 36.6' E	F.W.	42 13	7	White metal framework pylon; 39.	Visible 334°-002°.
20532 F3014	Kaoh Rung Samloen.	10° 33.0' N 103° 19.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 6.2s	395 120	24	White tower, red band; 59.	Visible 210°-136°.
20536 F3015	Kaoh Kaong Kang (Paletuviers).	10° 36.0' N 103° 26.0' E	Oc.(2)W. period 9s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 14	12	Metal pylon; 29.	
20540 F3016	-Kaoh Dek Koul.	10° 38.0' N 103° 27.0' E	Fl.G. period 6s fl. 1.5s, ec. 4.5s	79 24	8	Metal framework tower; 28.	
20544 F3017	-Kampong Saom (Sihanoukville), harbor basin, S. mole.	10° 39.0' N 103° 30.0' E	F.G.				
20548 F3012	Kaoh Kon.	11° 26.0' N 103° 00.0' E	F.W.	62 19	9	Red metal pylon; 29.	Occasional.
20552 F3010	Ko Kut.	11° 34.0' N 102° 35.4' E	Fl.W. period 10s	456 139	10	White metal framework tower; 98.	
20556 F3008	Khiong Yai.	11° 46.4' N 102° 53.3' E	Fl.W. period 4s	144 44	20	White metal framework tower; 98.	
20560 F3004	Laem Nam.	12° 02.6' N 102° 35.2' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	62 19	8	White concrete tower; 49.	
20564 F3006	Laem Ko Pu.	12° 09.8' N 102° 34.4' E	Fl.W. period 3s	33 10	8	White concrete beacon.	
20568 F3002	Laem Ngop.	12° 09.7' N 102° 23.7' E	Fl.W. period 3s	36 11	8	White concrete structure; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CAMBODIA-THAILAND							
20572 <i>F 3000</i>	Hin Kee Chang Rock, Chang Channel.	12° 09.9' N 102° 18.3' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	33 10	10 26	White metal framework tower;	
20576 <i>F 2998</i>	Ko Chik Nok.	12° 17.7' N 102° 14.3' E	Fl.W. period 3s	62 19	10	White concrete tripod; 23.	
20580 <i>F 2996</i>	Laem Sing.	12° 28.1' N 102° 03.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	285 87	10	White metal framework structure; 19.	
20584 <i>F 2992</i>	Mae Nam Prasae.	12° 41.7' N 101° 42.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	49 15	21	White metal framework structure; 52.	
20592 <i>F 2994</i>	Ko-Man Nok.	12° 34.0' N 101° 42.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	124 38	10	White metal framework tripod.	
20596 <i>F 2990</i>	Ko Samet.	12° 34.7' N 101° 26.9' E	Fl.W.R.G. period 5s	259 79	W. 10 R. 6 G. 5	White metal framework structure; 49.	W. 008°-078°, G.-083°30', W.-086°30', R.-090°, W.-099°, R.-102°30', W.-292°, obsc.-008°.
20598	Map Ta Phut Approach Buoy "B".	12° 29.8' N 101° 12.2' E	Fl.(4)Y. period 20s			SPECIAL Y, pillar, topmark.	
RACON							
			B(-•••)				
20599 <i>F 2987.5</i>	-SPM.	12° 29.1' N 101° 11.9' E	Fl.(6)W. period 15s		5	Orange mooring.	Horn: Mo.(U) ev. 30s.
20600 <i>F 2988</i>	Rayong.	12° 39.6' N 101° 16.5' E	Fl.(3)W.R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	57 17	W. 13 R. 9	White metal framework structure; 51.	R. 077°-087°, W.-077°. F.R. and F.G. lights mark river entrance.
20601 <i>F 2986</i>	Map Ta Phut Range, front.	12° 40.1' N 101° 08.9' E	Fl.W. period 3s	34 10	16		
20601.1 <i>F 2986.1</i>	-Rear, 590 meters 345°30' from front.	12° 40.4' N 101° 08.8' E	Iso.W. period 8s	42 13	17		
20602 <i>F 2986.5</i>	-W. breakwater, head.	12° 38.6' N 101° 09.1' E	Fl.W. period 4s	6 2	8	Red and white checkered structure.	
20602.5 <i>F 2987</i>	-Inner Range, front.	12° 40.3' N 101° 08.5' E	Fl.Y. period 2s	25 8	10		
20602.6 <i>F 2987.1</i>	--Rear, 620 meters 330° from front.	12° 40.6' N 101° 08.3' E	Iso.W. period 6s	39 12	12		
20603.5 <i>F 2985</i>	AVIATION LIGHT.	12° 43.3' N 101° 02.0' E	F.R.	899 274	10		
20604 <i>F 2984</i>	AVIATION LIGHT.	12° 41.0' N 101° 00.0' E	AI.W.G.				

THAILAND-EAST COAST							
20608 <i>F 2976</i>	Hin Chula, off Laem Samae San.	12° 35.7' N 100° 57.9' E	Fl.W. period 3s	26 8	8	Concrete tower, white and black bands; 20.	Iso.R. on radio tower.
20612 <i>F 2982</i>	Ko Chuang.	12° 31.0' N 100° 58.0' E	Fl.(2)W. period 20s fl. 0.5s, ec. 4s fl. 0.5s, ec. 15s	438 134	29	White brick tower; 49.	
			F.R.	425 130	8	Same tower.	Shows over Hin Chalan.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20616 F 2973.5	Ko Chorake.	12° 36.1' N 100° 55.2' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	200 61	10	White round steel framework tower; 10.	
20620 F 2975.4	Ao Sattahip, W. breakwater.	12° 37.0' N 100° 54.6' E	Fl.(2)W. period 5s	23 7	10	White square column; 13.	
20624 F 2975.3	-Oil pier.	12° 37.1' N 100° 54.9' E	Fl.W. period 4s	23 7	10	White beacon.	
20628 F 2975	-Range, front.	12° 37.4' N 100° 55.8' E	Q.Y.	69 21	8	White skeleton tower, red rectangular daymark, white stripe; 45.	Aero Radiobeacon 2.5 miles E.
20632 F 2975.1	--Rear, about 488 meters 017°36' from front.	12° 37.6' N 100° 54.9' E	Iso.Y. period 4s	95 29	8	White skeleton tower, red rectangular daymark, white stripe; 86.	
20634	-Ko Tao Mo, breakwater, head.	12° 38.6' N 100° 51.4' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	23 7	10	White beacon; 16.	
20640 F 2973	Laem Pu Chau.	12° 39.0' N 100° 51.2' E	Fl.(3)W. period 15s	551 168	19	White tower; 48.	
20642 F 2975.6	Ko Phra Noi.	12° 39.2' N 100° 53.9' E	Fl.R.			Beacon.	
20644 F 2970	Hin Khi Sua.	12° 40.9' N 100° 49.5' E	Fl.W. period 5s	24 7	5	Concrete tower, black and white bands; 22.	
20648 F 2968	Hin Rang Kwian.	12° 48.0' N 100° 48.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	48 15	9	White concrete pile structure; 23.	
20649	Chon Buri.	12° 55.3' N 100° 52.0' E	Fl.W. period 5s	315 96	14	Radio tower.	
20652 F 2964	Ko Chun.	12° 56.8' N 100° 51.7' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	35 11	W. R. 10 8	White concrete beacon; 13.	R. 334°-024°, W.-044°, R.-094°, W.-334°.
20656 F 2966	Vio Phai.	12° 56.0' N 100° 40.0' E	Fl.W. period 5s fl. 1s, ec. 4s	508 155	17	White concrete tower; 39.	
20660 F 2962	Ko Nok.	13° 01.0' N 100° 49.0' E	Fl.W. period 5s	46 14	10	White framework tower; 33.	
20661 F 2963	Laem Chabang.	13° 04.7' N 100° 52.4' E	Fl.W. period 10s	259 79	10	Structure; 29.	
RACON				C(-•-•)		30	
20662 F 2963.4	--Breakwater.	13° 03.9' N 100° 52.4' E	Q.(3)W. period 10s	33 10	5	E. CARDINAL BYB, beacon, topmark.	3 Q.W. lights mark breakwater center. Radar reflector.
20662.1 F 2963.5	--SE. head.	13° 03.3' N 100° 52.8' E	Q.(3)W. period 10s	33 10	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
20662.2 F 2963.6	-No. "11", N. pier.	13° 03.9' N 100° 53.0' E	Iso.R. period 6s	46 14	10	Green metal framework tower.	
20662.25	--Beacon "C".	13° 04.1' N 100° 53.8' E	Q.G.	33 10	10	Metal framework tower, black daymark, white stripe.	
20662.26	--Beacon "D".	13° 04.3' N 100° 54.0' E	Iso.G. period 6s	49 15	10	Metal framework tower, red daymark, white stripe.	
20662.3 F 2963.7	-No. "10", S. pier.	13° 03.6' N 100° 53.1' E	Iso.G. period 6s	46 14	10	Green metal framework tower.	
20662.35	--Beacon "A".	13° 03.4' N 100° 53.3' E	Q.W.	46 14	10	Metal framework tower, red daymark, white stripe.	

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THAILAND-EAST COAST							
20662.36	--Beacon "B".	13° 02.4' N 100° 54.0' E	Iso.W. period 6s	46 14	10	Metal framework tower, black daymark, white stripe.	
20664 F 2960	Ko Thai Ta Mun.	13° 06.5' N 100° 48.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	98 30	10	White concrete piles; 23.	
20666 F 2959	Si Racha Oil Terminal, Jetty No. "1", N. head.	13° 07.4' N 100° 52.9' E	Fl.R. period 2s	30 9	6		
20666.5 F 2959.4	-Jetty No. "2", N. head.	13° 07.4' N 100° 52.8' E	Fl.(2)R. period 3s	30 9	6		Identical light marks S. end.
			F.R.				
20666.7 F 2958.8	-SBM.	13° 07.7' N 100° 51.8' E	Mo.(S)W. period 5s			Yellow hull.	
20668 F 2958	Laem Wat (Wang).	13° 08.9' N 100° 49.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	9	White brick column; 29.	
20672 F 2954	Hin Sampayu.	13° 11.3' N 100° 47.9' E	Fl.(3)W. period 15s	55 17	10	White tower; 15.	
20692 F 2951.5	Khlong Dan.	13° 29.4' N 100° 48.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	49 15	10	White and red concrete structure; 49.	Fl.(2)Y. 5.5s 9m 9M light 1.6 miles SE on wastepipe pipe.
MAE NAM CHAO PHRAYA:							
20700 F 2939	-Bangkok Bar.	13° 22.7' N 100° 35.7' E	L.Fl.W. period 10s fl. 2s, ec. 8s	118 36	20	Concrete structure, red and white bands; 118. Helicopter platform.	Siren: 1 bl. ev. 20s.
	-RACON		O(--)		12		(3 & 10cm)
20701 F 2943.5	-Beacon "J" Range, front.	13° 27.1' N 100° 35.7' E	Q.R.	52 16	8	White framework tower, red rectangular daymark, white stripe.	Visible 5° each side of range line. Passing light range 5M.
20702 F 2943.51	--Beacon "K", 1.95 km. 210° from front.	13° 26.2' N 100° 35.2' E	Iso.R. period 6s	112 34	9	White framework tower, black rectangular daymark, white stripe.	Visible 5° each side of range line. Passing light range 9M.
20704 F 2941	-Beacon "A" Range, front.	13° 27.8' N 100° 36.9' E	Q.W.	52 16	5	White metal framework tower, red and white striped daymark.	Visible all around.
			Q.W.	49 15	8		Visible 029°-039°.
20708 F 2941.1	--Beacon "B", rear, 1,750 meters 034° from front.	13° 28.6' N 100° 37.2' E	Iso.W. period 6s	82 25	4	White metal framework tower, black and white striped daymark.	Visible all around.
			Iso.W. period 6s	79 24	9		Visible 029°-039°.
20712 F 2943	-Beacon "E" Range, front.	13° 30.6' N 100° 38.1' E	Q.Y.	52 16	9	White metal framework tower, yellow and black striped daymark.	Visible 121°-131°.
			Q.R.	51 16	8		Visible 025°-035°.
20716 F 2943.1	--Beacon "F", rear.	13° 31.4' N 100° 38.6' E	Iso.R. period 6s	82 25	9	White metal framework tower, white and red striped daymark.	Visible 025°-035°.
20720 F 2944	--Beacon "I", rear.	13° 30.0' N 100° 39.0' E	Iso.Y. period 6s	82 25	9	White metal framework tower, black and white striped daymark.	Visible 121°-131°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20724 F2942	--Beacon "C" Range, front.	13° 29.0' N 100° 37.0' E	Q.G.	52 16	4	White metal framework tower, red and white striped daymark.	Visible all around.
			Q.G.	49 15	8		Visible 013°-023°.
20728 F2942.1	--Beacon "D", rear, 1725 meters 018° from front.	13° 30.0' N 100° 37.0' E	Iso.G. period 6s	82 25	4	White metal framework tower, black and white striped daymark.	Visible all around.
			Iso.G. period 6s	79 24	8		Visible 013°-023°.
20732 F2945	-Beacon "G" Range, front.	13° 33.3' N 100° 34.4' E	Q.Y.	85 26	4	White metal framework tower, red and white striped daymark.	Visible all around.
			Q.Y.	82 25	8		Visible 301°-311°.
20736 F2945.1	--Beacon "H", rear, 0.5 mile 306° from front.	13° 33.6' N 100° 34.0' E	Iso.Y. period 6s	115 35	4	White metal framework tower, black daymark, white vertical stripe.	Visible all around.
			Iso.Y. period 6s	111 34	9		Visible 301°-311°.
20740 F2948	-No. "25".	13° 37.4' N 100° 32.7' E	Q.(9)W. period 15s	20 6	2	W. CARDINAL YBY, beacon, topmark.	
20744 F2948.2	-No. "19".	13° 37.6' N 100° 32.6' E	Fl.(4)Y. period 7s	20 6	2	SPECIAL Y, beacon, topmark.	
20748 F2948.4	-No. "13".	13° 37.7' N 100° 32.5' E	Fl.(3)Y. period 5s	20 6	2	SPECIAL Y, beacon, topmark.	
20752 F2948.6	-No. "7".	13° 37.9' N 100° 32.4' E	Fl.(2)Y. period 3s	20 6	2	SPECIAL Y, beacon, topmark.	
20756 F2948.8	-No. "1".	13° 38.1' N 100° 32.3' E	Q.(9)W. period 15s	20 6	2	W. CARDINAL YBY, beacon, topmark.	
20757	-"L1".	14° 41.5' N 100° 35.3' E	L.FI.Y. period 10s fl. 3s, ec. 7s	49 15	10	Yellow metal framework tower, black band.	
20757.3	-"L2".	14° 42.1' N 100° 34.8' E	L.FI.Y. period 10s fl. 3s, ec. 7s	49 15	10	Yellow metal framework tower, black band.	
20760 F2937	Ban Huia Phong.	13° 30.5' N 100° 16.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	9	White framework tower; 49.	
20764 F2935	Mae Nam Mae Khlong.	13° 21.2' N 100° 00.2' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	102 31	10	White framework tower; 98.	
20765 F2936	-Entrance channel beacon.	13° 18.5' N 100° 01.0' E	Fl.(2)G. period 4s	30 9	11		
20766 F2936.5	--"N".	13° 18.8' N 100° 01.2' E	Fl.W. period 4s	39 12	15		
20767 F2934.5	Ao Ban Laem.	13° 12.4' N 100° 02.6' E	Fl.W.R. period 9s	39 12	W. R. 5	Beacon.	W. 123°-329°, R.-123°.
20768 F2934	Laem Phak Bia.	13° 02.8' N 100° 05.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	72 22	10	White metal tripod.	
20772 F2933	Hua Hin.	12° 34.0' N 99° 58.0' E	V.Q.(6)+L.FI.R. period 10s	23 7	9	Concrete column, black and white bands; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20776 F 2932.7	Ban Khao Takiap.	12° 30.8' N 99° 59.1' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	430 131	10	White metal tripod; 23.	
20780 F 2932.4	Ko Sattakut.	12° 12.6' N 100° 02.2' E	Fl.(3)W. period 15s	525 160	10	White tripod; 33.	
20784 F 2932	Ko Raet.	11° 47.7' N 99° 49.4' E	Fl.W. period 3s	440 134	9	White concrete tower; 13.	
20788 F 2930	Hlaem Mae Ramphung.	11° 11.7' N 99° 34.7' E	Fl.W. period 6s	246 75	10	White metal framework tower; 98.	
20792 F 2928	Ko Rang.	10° 49.2' N 99° 29.2' E	Fl.W. period 9s fl. 1s, ec. 8s	328 100	10	White metal framework structure; 20.	
20796 F 2924	Ko Mattaphon.	10° 26.9' N 99° 15.5' E	L.Fl.W.R. period 7s fl. 2s, ec. 5s	154 47	W. R.	16 8	White metal framework tower; R. 208°-216°, W.-263°, R.-298°, W.-309°, R.-339°, W.-208°.
20797 F 2924.2	-Beacon "A".	10° 26.8' N 99° 14.8' E	Fl.G. period 3s	26 8		5	
20797.1 F 2924.3	--"B".	10° 26.7' N 99° 14.8' E	Fl.W. period 4s	46 14		7	
20800 F 2922	Ko Rang Banthat.	10° 07.0' N 99° 13.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	112 34	10	White metal framework structure; 29.	
20804 F 2923	Mae Nam Ta Ko.	10° 05.3' N 99° 09.0' E	Fl.W. period 3s	30 9		6	White concrete column; 20.
20808 F 2920	Lang Suan.	9° 56.3' N 99° 09.7' E	Oc.(2)W.R. period 5s	69 21	W. R.	15 12	White metal framework tower; R. 223°-308° over rocks, W.- 223°.
20812 F 2915.3	Ko Tao.	10° 07.2' N 99° 50.7' E	Fl.W. period 5s fl. 1s, ec. 4s	226 69	10	White concrete tower; 32.	
20816 F 2915.2	Ko Phangan.	9° 40.2' N 100° 04.5' E	Fl.(2)W. period 12s	345 105	10	White metal framework tower; 66.	
20820 F 2915	Laem Yai, on Ko Samui.	9° 34.1' N 99° 55.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	190 58	10	White framework tower; 49.	
20824 F 2914.8	Ban Ang Thong.	9° 32.0' N 99° 56.2' E	Fl.(2)W.R. period 7s	47 14	W. R.	15 12	R. shore-084°, W.-130°, R.- shore.
20828 F 2915.4	Ko Palikan.	9° 21.1' N 99° 41.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	105 32	9	White framework tower; 49.	
20830 F 2916	Erawan Gas Field RACON.	9° 08.3' N 101° 15.7' E	O(---)		15	Platform.	Azimuth coverage 010°-235° (3 & 10cm).
20830.4	Beanpot Gas Field RACON.	8° 50.8' N 101° 25.2' E	B(-••)		15	Platform.	(3 & 10cm).
20832 F 2914	Ko Wang Nai.	9° 18.7' N 99° 53.7' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	220 67	9	White metal framework structure; 29.	
20836 F 2916	Ko Prap, Bandon River.	9° 15.8' N 99° 26.2' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	243 74	21	White metal framework structure.	
20840 F 2916.3	-Beacon "A".	9° 16.7' N 99° 26.3' E	Fl.(2)R. period 6s	29 9	11		
20840.1 F 2916.5	-Beacon "B".	9° 16.0' N 99° 26.2' E	Oc.(2)W. period 7s	75 23	15		

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THAILAND-EAST COAST							
20844 F2917	-Beacon "C".	9° 12.2' N 99° 23.2' E	Fl.(2)G. period 6s	26 8	11		
20844.1 F2917.3	-Beacon "D".	9° 11.3' N 99° 22.9' E	Oc.(2)W. period 6s	75 23	15		
20848 F2918	Laem Sui.	9° 23.3' N 99° 18.9' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	115 35	10	White metal framework tower; 98.	
20852 F2912	Sichon.	9° 00.7' N 99° 55.2' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	75 23	W. R.	7 2	White metal framework tower; W. shore-254°, R. 254°-294°, W.-shore.
20856 F2910	Nakhon, Parkham Park Poon.	8° 33.4' N 100° 00.2' E	Fl.W. period 3s	115 35	11	White metal framework tower; 99.	Aero Radiobeacon 3.4 miles SSW.
20860 F2908	Laem Talumphuk.	8° 30.5' N 100° 09.0' E	Fl.(2)W. period 10s	98 30	10	White metal framework tower; 95.	
20868 F2909	Ko Kra.	8° 24.1' N 100° 45.2' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	584 178	10	White 3-legged concrete column; 49.	
20870	Bangkot Gas Field, Platform "W11" RACON.	8° 01.6' N 102° 28.5' E	S (•••)				Lighted.
20872 F2907	Ban Hua Ko.	7° 46.7' N 100° 22.3' E	Fl.W. period 3s	115 35	9	Gray metal framework tower; 102.	
20876 F2895	Ko Losin.	7° 20.1' N 101° 59.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	42 13	10	Metal framework structure, truncated concrete base, black and red bands; 23.	
20876.2	Mae Nam Ko.	6° 14.5' N 102° 05.6' E	Fl.Y. period 5s	16 5	6	White mast; 16.	
20877 F2895.5	Kelantan.	6° 14.5' N 102° 05.6' E	Fl.W. period 5s	33 10	10	White round concrete tower, diamond daymark.	
RACON							
20878 F2895.4	Sungai Kolok.	6° 14.2' N 102° 05.5' E	Oc.W.R.G. period 5s lt. 3s, ec. 2s	82 25	W. R. G.	15 11 11	White tower on concrete base; G. shore-197°12', W.-200°12', R.-shore.
20880 F2904	Songkhla Harbor.	7° 13.0' N 100° 36.0' E	Fl.(2)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 8.5s	350 107	21	White brick tower; 45.	
20884 F2905	--"A" Range, front.	7° 13.4' N 100° 34.5' E	Q.G.	36 11	21	White metal framework tower.	
20888 F2905.1	--Rear "B", 250 meters 225° from front.	7° 13.4' N 100° 34.2' E	Iso.G period 6s	62 19	21	White metal framework tower.	
20892 F2906	-S. breakwater, head.	7° 13.9' N 100° 35.2' E	Q.(2)R. period 3s	16 5	4	White beacon.	
20894 F2906.4	-N. breakwater, head.	7° 13.9' N 100° 37.4' E	Q.(2)R. period 3s	16 5	4	White beacon.	F.R. 3M marks each end of oil pier close WSW.
20896 F2900	Laem Ta Chi.	6° 57.0' N 101° 17.0' E	Fl.(3)W. period 8s	102 31	10	White metal framework tower; 95.	
20912 F2898	Khlong Sai Buri.	6° 42.6' N 101° 38.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	92 28	10	White metal framework structure; 85.	

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THAILAND-EAST COAST							
SUNGEI KELANTAN:							
20920 <i>F 2894</i>	-Sungei Tapang.	6° 12.6' N 102° 08.3' E	Fl.W. period 10s	6			Fishing light.
20922	-Dalam Rhu.	6° 12.2' N 102° 09.9' E	Fl.R. period 4s	36 11	5	Wooden framework structure, white daymark.	
20926 <i>F 2893</i>	-Pantai Sri Tujoh.	6° 13.2' N 102° 09.3' E	Fl.W. period 7s	36 11	12	White wooden framework tower.	
20930	Pulau Kuda.	6° 12.9' N 102° 13.9' E	Fl.(2)W. period 5s		8	White wooden tower, white square daymark.	
20932 <i>F 2890</i>	Sungai Kelantan Approach.	6° 10.7' N 102° 19.7' E	Fl.W. period 4s	60 18	10	Latticework tower, rectangular daymark; 50.	Visible 148°-299°. Temporarily removed (1986).
20934 <i>F 2889</i>	Pengkalan Daty, S. breadwater, head.	6° 10.1' N 102° 20.8' E	Fl.W. period 5s		10	White tower; 45.	
20935 <i>F 2888.5</i>	Kemasin.	6° 07.9' N 102° 22.5' E	Fl.G. period 6s	34 10	5	White tower.	
20936 <i>F 2888</i>	Menchat.	6° 04.0' N 102° 24.0' E	Fl.W. period 5s	40 12	10	Tower, white rectangular daymark.	
20938 <i>F 2887</i>	Tok Bali.	5° 53.6' N 102° 29.2' E	Fl.R. period 5s	23 7	8		
20940 <i>F 2885.7</i>	Pulau Perhentian Besar.	5° 53.3' N 102° 44.7' E	Fl.W. period 7s	145 44	10	Pedestal on rock.	
20942 <i>F 2885.6</i>	Seabelle rock.	5° 54.6' N 102° 42.6' E	Fl.W. period 4s	30 9	8	White column on piles.	
20944 <i>F 2886</i>	Sungei Semerak.	5° 52.0' N 102° 31.0' E	Fl.W. period 5s	45 14	10	White wooden tower; 46.	
20948 <i>F 2885.5</i>	Sungai Besut.	5° 49.8' N 102° 33.8' E	Fl.W. period 2s	39 12	8	White metal tripod; 36.	Fishing.
20952 <i>F 2885.2</i>	Kuala Setiu Bharu.	5° 39.8' N 102° 44.5' E	Fl.R. period 5s	26 8	5	White framework tower, red square daymark; 26.	Fishing.
20956 <i>F 2885.1</i>	Pulau Penang.	5° 44.4' N 103° 00.3' E	Fl.W. period 10s	433 132	10	Metal framework tower; 26.	
20958 <i>F 2885.15</i>	Batu Bara.	5° 38.7' N 102° 58.2' E	Fl.W. period 4s	253 77	11		
20960 <i>F 2885</i>	Tanjong Merang.	5° 32.0' N 102° 57.0' E	Fl.W. period 4s	68 21	8	White mast, white rectangular daymark; 19.	Obscured when leaving more than 278.
20964 <i>F 2884</i>	Batu Rakit.	5° 27.3' N 103° 03.3' E	Fl.(2)W. period 5s	26 8	8	White concrete pile.	
20965 <i>F 9532</i>	Lawit-A Platform RACON.	6° 33.0' N 103° 21.0' E	X(-••-)				Lighted.
20966 <i>F 9531</i>	Jerneh-A Platform RACON.	6° 34.5' N 103° 44.6' E	Y(-•--)				Lighted.
KUALA TERENGGANU:							
20968 <i>F 2880</i>	-Bukit Peteri	5° 20.2' N 103° 08.3' E	Fl.W. period 3s fl. 1s, ec. 2s	114 35	15	White brick pillar on fort.	
20970	-Kuala Terengganu No. "4".	5° 20.1' N 103° 08.0' E	Fl.(2)R. period 4s	26 8	5	White concrete pile.	
20972 <i>F 2880.5</i>	-Taman Syahbandar.	5° 20.3' N 103° 08.4' E	Fl.R. period 2s	36 11	5	White wooden framework.	
20974 <i>F 2881</i>	-Syahbandar beacon.	5° 20.5' N 103° 08.0' E	Fl.G. period 2s			White wooden framework tower, white square daymark; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20975 <i>F 2881.5</i>	-Pulau Duyang.	5° 20.4' N 103° 07.9' E	Fl.G. period 3s	29 9	5	White wooden framework	
20980	-Fairway Lighted Buoy.	5° 20.0' N 103° 09.0' E	L.Fl.W. period 10s			SAFE WATER RW, spherical.	
20992 <i>F 2878</i>	Chendering, head.	5° 16.0' N 103° 11.1' E	Fl.W. period 5s	249 76	10	White metal framework tower.	
20996 <i>F 2878.5</i>	-Breakwater, head.	5° 16.0' N 103° 11.0' E	Q.G.	26 8	5	White metal framework tower.	
20998 <i>F 2877</i>	Marang, breakwater.	5° 12.6' N 103° 12.9' E	Fl.R. period 3s	39 12	5	Red concrete tower.	
21000 <i>F 2876</i>	Pulau Kapas, S. head.	5° 13.0' N 103° 16.0' E	Fl.W. period 10s fl. 1.2s, ec. 8.8s	96 29	13	Steel structure.	Visible 300°-154°.
21004 <i>F 2870</i>	Tanjung Dungun.	4° 47.0' N 103° 26.0' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	226 69	20	Steel framework structure.	
21005 <i>F 2873</i>	Kuala Dungun.	4° 46.7' N 103° 25.6' E	Fl.R. period 4s	26 8	5	White post.	
21006 <i>F 2869.5</i>	Tanjung Pelor.	4° 39.3' N 103° 26.9' E	Fl.W. period 5s	70 21	8	White pillar on concrete base.	
21008 <i>F 2869.4</i>	Paka.	4° 38.7' N 103° 26.7' E	Fl.G. period 10s	27 8	5	White mast; 30.	
21010	Kertih Terminal, breakwater, N. head.	4° 35.9' N 103° 27.8' E	Fl.R. period 5s		11		
21011	--S. head.	4° 35.0' N 103° 28.2' E	Fl.G. period 5s		11		
21012 <i>F 2869.3</i>	-Sarus tower.	4° 36.0' N 103° 27.6' E	Q.Y.	30 9	10	SPECIAL Y, articulated beacon.	Marks cooling water intake.
21016 <i>F 2869.15</i>	Kertch Port Marine Control tower.	4° 34.0' N 103° 28.0' E	Iso.W.R. period 2s	115 35	W. 12 R. 9	Metal framework tower.	W. 180°-225°, R.-305°, W.-329°. Mo.(U)W. 15s 2M Horn on SBM 1.2 miles ENE. Mo.(U)W. 7.5s 2M Horn on SPM 2.4 miles E and 2.8 miles ESE.
21020 <i>F 2869</i>	Tanjong Labohan.	4° 31.2' N 103° 28.2' E	Fl.(2)W. period 4s	250 76	15	White metal framework tower; 20.	
21022 <i>F 2869.07</i>	Kuala Kertih.	4° 30.8' N 103° 27.3' E	Fl.(2)W. period 5s	36 11	5	Beacon.	
21028 <i>F 2867</i>	Kijal Coast.	4° 20.0' N 103° 29.0' E	Fl.W. period 5s		10	White tower; 30.	
21032 <i>F 2862</i>	Sungai Kemaman.	4° 14.3' N 103° 27.3' E	Fl.W. period 12s	343 105	15	White and red masonry structure.	
21034 <i>F 2859</i>	-Entrance Range, front.	4° 15.0' N 103° 27.7' E	Q.R.	69 21	12	Framework tower, white triangular daymark, point up, red stripe.	
21034.1 <i>F 2859.1</i>	--Rear, 457 meters 310° from front.	4° 15.6' N 103° 27.6' E	Iso.R. period 4s	108 33	12	Framework tower, white triangular daymark, point down, red stripe.	
21034.15	-E.	4° 12.7' N 103° 32.0' E	Q.G.	39 12	8	STARBOARD (A) G, beacon.	
21034.16	-N.	4° 13.1' N 103° 31.1' E	Fl.(2)G. period 10s	39 12	5	STARBOARD (A) G, beacon.	
21034.17	-S.	4° 12.9' N 103° 29.8' E	Q.R.	39 12	5	PORT (A) R, beacon.	
21034.2	-No. "1".	4° 13.8' N 103° 29.3' E	Fl.G. period 5s	33 10	2	Beacon on dolphin.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
21035	-No. "4".	4° 14.3' N 103° 28.3' E	Fl.R. period 3s	49 15	5	Red and white beacon.	
21036	-Range, front. F 2860.7	4° 15.4' N 103° 27.8' E	Q.G.	69 21	12	Framework tower, white triangular daymark, point up, red stripe.	
21040	--Rear, 210 meters 327°30' from front. F 2860.71	4° 15.2' N 103° 27.3' E	Iso.G. period 4s	89 27	12	Framework tower, white triangular daymark, point down, red stripe.	R. light on tower 800 meters E.
21040.2	-S. breakwater, head. F 2860.76	4° 14.8' N 103° 28.3' E	Fl.(2)R. period 5s	29 9	2		
21040.4	-No. "5". F 2860.8	4° 15.0' N 103° 28.3' E	Fl.(2)G. period 5s	29 9	2	Beacon on dolphin.	
21040.6	-E. breakwater, head. F 2860.9	4° 14.9' N 103° 28.5' E	Fl.Y. period 5s	33 10	3		L.P.G. jetty marked by F.R lights.
SUNGAI KEMAMAN:							
21042	-Range, front. F 2865	4° 14.6' N 103° 27.0' E	Q.G.	19 6	5	White pillar, white triangular daymark, point up.	
21042.1	--Rear, 340° from front. F 2865.1	4° 14.7' N 103° 27.0' E	Fl.G. period 2s	33 10	5	White pillar on piles, white triangular daymark, point down.	
21044	-Entrance Range. F 2864	4° 14.1' N 103° 26.7' E	Q.W.		5	White wooden framework tower, diamond daymark.	Moved as necessary.
21048	--Rear, 55 meters 288° from front. F 2864.1	4° 14.2' N 103° 26.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s		5	White wooden framework tower, diamond daymark.	
KUANTAN PORT:							
21052	-Tanjung Gelang. F 2857	3° 57.8' N 103° 26.2' E	Fl.(3)W. period 10s	279 85	25	White masonry tower; 23.	
21056	-Range, front. F 2858	3° 58.6' N 103° 26.3' E	Fl.Y. period 4s	43 13	10	Red square daymark, steel framework tower, 33.	Visible 296°06'-326°06'.
21060	--Rear, 960 meters 311°04' from front. F 2858.1	3° 59.0' N 103° 25.3' E	Fl.Y. period 4s	112 34	5	Red square daymark, steel framework tower, 98.	Visible 296°06'-326°06'.
21062.5	-No. "3".	3° 57.5' N 103° 27.3' E	Fl.(2)G. period 10s	49 15	8	STARBOARD (A) G, beacon.	
21064	-N. breakwater, head. F 2858.3	3° 58.2' N 103° 26.6' E	Fl.(4)G. period 12s	30 9	8	Green beacon; 20.	5 F.Bu. mark breakwater.
21068	-S. breakwater, head. F 2858.2	3° 58.1' N 103° 26.4' E	Fl.(4)R. period 12s	30 9	7	Red beacon; 20.	
21068.4	-Inner breakwater, head. F 2858.35	3° 58.2' N 103° 26.2' E	Fl.R. period 2s		5		
21068.6	-Naval Basin, N. mole. F 2858.5	3° 58.2' N 103° 26.0' E	Fl.G.				Fl.R. 300 meters SE.
21069	-SW. Basin Range, front. F 2858.7	3° 58.2' N 103° 25.2' E	F.R.			Beacon.	
21069.1	--Rear, 115 meters 252°14' from front. F 2858.71	3° 58.2' N 103° 25.2' E	F.R.			On warehouse.	
21069.6	-Palm oil berth. F 2858.6	3° 58.3' N 103° 25.8' E	F.W.				F.Bu. marks mineral oil berth 700 meters NW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
SUNGAI KUANTAN:							
21072 F 2854	-Sungai Balok.	3° 56.0' N 103° 23.0' E	Q.W.	25 8	4		Fishing light.
21076 F 2847	-Tg. Tembeling.	3° 48.0' N 103° 23.0' E	Fl.(2)W. period 10s fl. 0.2s, ec. 3.2s fl. 0.2s, ec. 6.5s	227 69	15	White lattice tower; 20.	Visible 197°-025°.
21080 F 2848	-Bukit Pelinding Range, front.	3° 48.6' N 103° 20.5' E	Fl.G. period 2s		10	White wooden mast, red diamond daymark, black stripe; 23.	
21084 F 2848.1	--Rear, 46 meters 323° 30' from front.	3° 48.6' N 103° 20.3' E	Q.G.		10	White metal framework tower, red diamond daymark, black stripe; 39.	
21088 F 2845	Kuala Pahang.	3° 32.1' N 103° 27.8' E	Fl.W. period 7s	39 12	10	White metal pole, white square daymark.	
ANAMBAS ISLANDS (INDO):							
21096 F 1832	-Mangkai Pulau.	3° 05.2' N 105° 35.9' E	Fl.(3)W. period 15s	643 196	25	White metal framework tower;	Visible 338°-239°. 131.
21096.5 F 1830	-Letong.	2° 59.5' N 105° 42.5' E	Fl.W. period 6s fl. 1s, ec. 5s	197 60	11		
21096.7 F 1831.5	-Tulai.	2° 59.5' N 105° 41.0' E	Fl.W. period 6s	82 25	15		
21096.8 F 1830.55	Tanjung Lelan.	2° 49.0' N 105° 43.8' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	131 40	18		
21097 F 1828	Pulau Damar.	2° 44.5' N 105° 22.8' E	Fl.W. period 3s	288 88	22		
21097.5 F 1831	Tokong Malangbiru.	2° 18.2' N 105° 35.8' E	Fl.W. period 4s	52 16	12	White beacon.	
21097.6 F 1830.8	Repong Island.	2° 21.7' N 105° 52.8' E	Fl.(4)W. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	72 22	14		
21097.7 F 1830.6	Serak Island.	2° 47.3' N 106° 00.8' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	72 22	14		
21097.8 F 1834	Nunsa Island.	2° 59.6' N 106° 24.8' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	82 25	15		
21098 F 1838.3	-NW. side.	3° 00.8' N 107° 45.4' E	Fl.(3)W. period 15s	41 12	11	White beacon.	
21100 F 1838	Midai Island.	2° 59.4' N 107° 46.7' E	Fl.W. period 20s	519 158	26	White metal framework structure; 98.	
21101 F 1836.8	Seluan.	4° 07.0' N 107° 50.7' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	125 38	17		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
21102 <i>F 1837</i>	Sedanau.	3° 47.8' N 108° 02.1' E	Fl.W. period 3s	41 12	11	White beacon.	
21104 <i>F 1837.6</i>	Karang Sedanau.	3° 44.5' N 108° 01.1' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	10	White metal framework structure; 49.	
21104.5 <i>F 1837.65</i>	Karang Burung.	3° 41.6' N 108° 02.4' E	Fl.W. period 3s	43 13	11	White beacon.	
21104.7 <i>F 1837.75</i>	Selat Lampa.	3° 40.0' N 108° 08.0' E	Fl.G. period 9s	102 31	15	Green metal framework tower; 98.	
21105 <i>F 1837.7</i>	-Karang Lampa.	3° 39.2' N 108° 06.3' E	Fl.G. period 3s	19 6	5	STARBOARD (A) G, beacon.	
21106 <i>F 1837.8</i>	Karang Setahi.	3° 37.5' N 108° 08.5' E	Fl.W. period 4s	43 13	11	White beacon.	
21108 <i>F 1836.7</i>	Tanjong Senoebing.	3° 57.7' N 108° 24.2' E	Fl.W. period 10s	348 106	24	Framework tower; 66.	
21112 <i>F 1836.5</i>	Sekatoeng.	4° 47.7' N 108° 01.2' E	Oc.W. period 3s lt. 2s, ec. 1s	321 98	26	White metal framework tower; 98.	
21114 <i>F 1836.6</i>	Semium.	4° 31.0' N 107° 43.9' E	Fl.W. period 5s	525 160	22	White lighthouse.	
SIANTAN:							
21117 <i>F 1835</i>	-Tanjung Pedas.	3° 13.9' N 106° 11.8' E	Fl.W. period 4s	269 82	15	White tower; 131.	
21120	--Terampa.	3° 13.0' N 106° 13.0' E	F.R.				
21121 <i>F 1836.1</i>	--NE.	3° 13.7' N 106° 14.3' E	Oc.G. period 5.5s lt. 3s, ec. 2.5s	20 6	7	STARBOARD (A) G, beacon, topmark.	
21122 <i>F 2842</i>	Pulau Berhala.	3° 14.7' N 103° 39.5' E	Fl.(2)W. period 5s	98 30	10	Wooden frame tower.	
21124 <i>F 2840</i>	Kampang Telaga Papan (Menasik).	3° 08.0' N 103° 27.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	5	White wooden framework tower, ball topmark.	
21128 <i>F 2839.5</i>	Kuala Pandan.	3° 05.0' N 103° 26.0' E	Fl.W. period 8s	32 10	6	White metal framework tower; 26.	Fishing light.
21129	Kuala Rompin, jetty.	2° 48.6' N 103° 28.8' E	Fl.R. period 4s	26 8	9	White concrete pile.	
21130	Batu Boya.	2° 45.4' N 103° 36.7' E	Fl.W. period 5s	26 8	8	White concrete pile.	
PULAU TIOMAN:							
21134	-Tanjung Penuba.	2° 51.3' N 104° 09.0' E	Fl.(2)W. period 5s	59 18	8	Concrete structure, white square daymark.	
21136	-Tanjung Lanting.	2° 43.3' N 104° 13.0' E	Fl.(3)W. period 15s	67 20	10	Concrete structure, white square daymark.	
21138 <i>F 2836.7</i>	Palau Tokong Bahara.	2° 40.0' N 104° 03.8' E	L.Fl.W. period 15s	46 14	8	White column on concrete base.	
21140 <i>F 2837</i>	Padang Endau, inner.	2° 40.0' N 103° 38.9' E	Fl.R. period 3s	38 12	4	White column on pile, red square daymark.	
21144 <i>F 2837.2</i>	-Outer beacon.	2° 40.2' N 103° 39.7' E	Q.W.	36 11	10	White column on piles, white square daymark, black stripe.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
21148 <i>F 2836.3</i>	Pulau Achi.	2° 39.3' N 103° 52.8' E	Fl.(2)W. period 10s	187 57	6	White square lattice tower.	
21150 <i>F 2836.1</i>	Pulau Harimau.	2° 33.6' N 103° 56.5' E	Fl.W. period 5s	318 97	16	White square lattice tower, red bands.	
21152 <i>F 2834</i>	Mersing (Br.).	2° 26.0' N 103° 51.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	35 11	5	Metal framework tower.	Difficult to distinguish from lights of town.
21156 <i>F 2833</i>	-Outer Channel Beacon.	2° 26.7' N 103° 51.1' E	Fl.R. period 4s	37 11	5	White concrete pillar, red square topmark.	Fishing light.
21160 <i>F 2833.4</i>	-Inner Channel Beacon.	2° 26.5' N 103° 50.8' E	Fl.G. period 5s	37 11	5	White concrete pillar, green triangular topmark.	Fishing light.
21164 <i>F 2836</i>	Pulau Stindan.	2° 28.0' N 103° 51.0' E	Fl.W. period 11s fl. 1s, ec. 10s	30 9	10	Column.	
21168	Tg. Tenggaroh.	2° 15.0' N 103° 58.8' E	Fl.W. period 10s		10		
21172 <i>F 2826</i>	Jason Bay, Sungai Sedili Besar.	1° 55.0' N 104° 08.0' E	Q.R.	18 5	1		
21173 <i>F 2827</i>	Kuala Sedili, Inner beacon.	1° 55.2' N 104° 07.4' E	Fl.(2)R. period 5s	37 11	5	White column on piles.	

Section 13

Singapore Strait and Strait of Malacca

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)							
21176 <i>F 1812</i>	Tanjong Berakit.	1° 13.2' N 104° 34.7' E	Fl.(2)W. period 10s fl. 1.5s, ec. 2s fl. 1.5s, ec. 5s	223 68	13	White metal framework structure; 98.	Visible 085°-341°.
21180 <i>F 1822</i>	Pulau Mungging.	1° 21.7' N 104° 17.9' E	Fl.W. period 3s	82 25	12	White metal framework structure; 26.	
	RACON		N(-)				
21184 <i>F 1737</i>	Tanjong Setapa (Langkah Baik).	1° 20.6' N 104° 08.1' E	Fl.(3)W. period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	140 43	14	Orange metal framework tower; 107.	
21186 <i>F 1821</i>	Tompok Utara.	1° 27.8' N 104° 27.0' E	Fl.(3)W. period 15s	82 25	16	White round fiberglass tower on pile.	
21188 <i>F 1820</i>	Pulau Batu Putch (Horsburgh).	1° 19.8' N 104° 24.5' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	102 31	20	White round tower, black bands; 112. Radar reflector.	
	RACON		O(---)		16		(3 & 10cm)
21200 <i>F 1736</i>	-Changi, AVIATION LIGHT.	1° 21.6' N 103° 59.4' E	Fl.W. period 1.5s	285 87	10	Control tower.	AI.W.G. 3s 1,330 meters 322°, identification beacon Mo.(CH)G. 7s 2,650 meters 024°. Obstruction light.
21200.5 <i>F 1735</i>	-Johor Shoal.	1° 19.1' N 104° 02.1' E	Fl.(3)W. period 15s	42 13	15	White round tower.	Visible 154°-084°.
21200.7 <i>F 1734</i>	-Frontier.	1° 18.9' N 104° 03.5' E	Fl.Y. period 3s	23 7	3	Yellow round tower on piles.	
21201 <i>F 1736.5</i>	--Cafhi Jetty, W. head.	1° 23.4' N 104° 00.0' E	F.R.				
21201.5 <i>F 1736.55</i>	--E. head.	1° 23.4' N 104° 00.1' E	F.R.				
21201.6 <i>F 1736.6</i>	--CAFHI Jetty Range, front.	1° 23.4' N 104° 00.1' E	Fl.Y. period 2s	16 5		White triangular daymark, red border, point up, on dolphin.	Visible 145°58'-175°58'.
21201.61	--Rear, 50 meters 145°58' from front.	1° 23.4' N 104° 00.1' E	Fl.Y. period 4s	23 7		White tower, white triangular daymark, red border, point down.	
21202 <i>F 1733.19</i>	South Changi.	1° 18.9' N 103° 58.7' E	Fl.Y. period 10s	16 5	4	Yellow round metal tower; 10.	
21204 <i>F 1739</i>	-Tg. Chek Jawa.	1° 24.5' N 103° 59.5' E	Fl.W. period 5s	89 27	10	White triangular daymark, point up, white concrete base; 20.	Visible 309°-314°.
21206 <i>F 1737.5</i>	-Sajahat Kechil.	1° 24.1' N 104° 01.4' E	Fl.Y. period 4s	16 5	3	Beacon.	
21208 <i>F 1740</i>	-Malang Papan.	1° 24.0' N 104° 00.0' E	Fl.G. period 5s	20 6	5	Green cone, point up concrete base; 13.	
21212 <i>F 1742</i>	-Fairy, Batu Puteh.	1° 23.5' N 103° 58.4' E	Fl.(2)R. period 10s	23 7	4	Red mast on red concrete base; 16.	
21216 <i>F 1744</i>	-Loyana.	1° 23.0' N 103° 58.0' E	Dir.Fl.(2)W.R.G. period 10s	19 6	10	Red concrete pile beacon, red triangular daymark, point up.	G. 128°-129°, W.-133°, R.-135°.
21220 <i>F 1748</i>	-Tg. Tajam.	1° 25.3' N 103° 55.7' E	Fl.(3)G. period 10s	20 6	4	Green triangular daymark, point up, green concrete base; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)							
21222 F 1745	Dawes Rock.	1° 25.7' N 103° 57.1' E	Fl.G. period 5s	5	White pile.		
SINGAPORE:							
21232 F 1756	-Sintap.	1° 28.0' N 103° 51.0' E	Fl.(3)W.R.G. period 15s	20 6	7	White concrete pile beacon, triangular topmark, marked "16".	G. 286°-316°, W.-320°, R.-324°, W.-116°.
21236 F 1758	-Kanan.	1° 28.6' N 103° 50.5' E	Fl.G. period 3s	23 7	5	White concrete pile structure.	
21240 F 1766	-Tebrau Reach Range, front.	1° 28.9' N 103° 48.5' E	Fl.G. period 5s	20 6	5	White concrete pile beacon, triangular topmark.	Visible 271°-061°.
21244 F 1766.1	--Rear, 1280 meters 289°04' from front.	1° 29.2' N 103° 47.7' E	Iso.G. period 5s	30 9	5	White concrete pile beacon, triangular topmark.	Visible 280°-027°.
21248 F 1771	-Power station, T-head pier, NE. end.	1° 28.0' N 103° 47.0' E	F.G.				F.R. shown from SW. end of T- head.
21252 F 1770.6	-Royal Malaysian Naval Base Jetty, head.	1° 27.3' N 103° 46.9' E	Q.R.	5	Metal column; 23.		
21256 F 1770.62	--Elbow.	1° 27.6' N 103° 46.8' E	Q.G.	5	Metal column; 23.		
21260 F 1733	-Bedok.	1° 18.5' N 103° 56.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	249 76	20	Red concrete cubicle on rooftop of 25 story apartment block; 249.	Visible 261°-067°.
21264 F 1733.17	-Keta.	1° 18.0' N 103° 58.0' E	Fl.Y. period 2s	33 10	5	Yellow metal tower, on piles, yellow triangular daymark.	Radar reflector.
21265	-Tanah Merah.	1° 18.7' N 103° 59.0' E	Fl.Y. period 5s	20 6	7	Yellow round tower.	
21268 F 1732.5	-Amber.	1° 17.9' N 103° 54.3' E	Fl.Y. period 2.5s	59 18	15	SPECIAL Y, tower.	Visible 256°-058°.
21276 F 1726.2	-South Kallang.	1° 16.8' N 103° 52.7' E	Fl.G. period 5s	16 5	3	STARBOARD (A) G, beacon, topmark.	
21280 F 1726.4	-South Marina.	1° 16.7' N 103° 52.5' E	Fl.R. period 5s	16 5	3	PORT (A) R, beacon, topmark.	
21284 F 1726.6	-Kallang.	1° 17.0' N 103° 52.5' E	Fl.(2)G. period 10s	16 5	3	STARBOARD (A) G, beacon, topmark.	
21288 F 1727	-North Marina.	1° 17.0' N 103° 52.0' E	Fl.(3)R. period 15s	16 5	3	PORT (A) R, beacon, topmark.	
21292 F 1726	-Stamford.	1° 17.3' N 103° 52.0' E	Dir.Fl.W.R.G. period 2.5s	39 12 W. R. G. 3 3 3	5	White rectangular concrete tower; 39.	G. 306°30'-311°30', W.- 316°30', R.-321°30'.
21296 F 1725	-AVIATION LIGHT.	1° 17.8' N 103° 51.2' E	Fl.W. period 2s	771 235	14	On hotel roof.	Obstruction light.
21298 F 1724	-Outer Shoal.	1° 15.0' N 103° 51.9' E	Fl.G. period 5s	23 7	5	STARBOARD (A) G, articulated beacon, topmark.	
21300 F 1721	-Terumbu Selegi.	1° 14.0' N 103° 50.0' E	Fl.R. period 2.5s	19 6	5	Red metal framework tower on red masonry base.	
21320 F 1719.2	-NW. Boat.	1° 15.2' N 103° 50.8' E	Fl.(3)R. period 15s	13 4	4	Red box, on red triangular masonry base.	
21332 F 1718.4	-Kulor.	1° 14.4' N 103° 50.9' E	Fl.R. period 5s	23 7	3	PORT (A) R, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
SINGAPORE:							
21336 <i>F 1698</i>	-Pulau Sakijang Pelepath.	1° 13.3' N 103° 51.3' E	Fl.W. period 2.5s fl. 0.8s, ec. 1.7s	195 59	15	Black wooden framework tower; 36.	
21340 <i>F 1699</i>	-Pulau Tembakul, off SE. head.	1° 13.3' N 103° 51.9' E	Fl.R. period 5s	20 6	4	Red GRP tower; 13.	
21342 <i>F 1699.5</i>	-Kusu.	1° 13.5' N 103° 51.5' E	Fl.R. period 2.5s	16 5	3	PORT (A) R, beacon, topmark.	
21344 <i>F 1718</i>	-Kias Reef, NW. of islet.	1° 13.9' N 103° 50.7' E	Fl.R. period 10s	13 4	3	PORT (A) R, beacon, topmark.	
21352 <i>F 1716</i>	-Renget Beacon.	1° 13.6' N 103° 50.8' E	Fl.R. period 5s	16 5	3	PORT (A) R, beacon, topmark.	
21354 <i>F 1718.6</i>	-Buran.	1° 15.1' N 103° 50.9' E	Fl.W. period 2.5s	13 4	4	White pile on white round base. Visible 234°48'-196°48'.	
21354.5 <i>F 1718.8</i>	-Causeway Range, front.	1° 15.7' N 103° 49.4' E	Q.R.		11		
21354.6 <i>F 1718.81</i>	--Rear, 60 meters 240°32' from front.	1° 15.7' N 103° 49.4' E	Iso.R. period 4s		11		
21355 <i>F 1720.6</i>	-SE. Buran.	1° 14.2' N 103° 50.5' E	Fl.G. period 5s	23 7	3	STARBOARD (A) G, beacon, topmark.	
21355.4 <i>F 1720.4</i>	-Sentosa.	1° 14.2' N 103° 50.0' E	Fl.R. period 2s	23 7	3	PORT (A) R, beacon, topmark.	
21384 <i>F 1701.86</i>	-Ampang SE. extremity of new E. breakwater.	1° 16.1' N 103° 47.8' E	Fl.R. period 2.5s	20 6	4	PORT (A) R, beacon, topmark.	F.I.Y. 2.5s on dolphin 0.8 mile ESE.
21388 <i>F 1702</i>	-Tanjong Berlayer, N. entrance to Keppel Harbor.	1° 15.8' N 103° 48.4' E	Fl.R. period 5s	27 8	4	Red concrete framework tower.	
21392 <i>F 1704</i>	-Tanjong Rimau.	1° 15.6' N 103° 48.5' E	Fl.G. period 5s	18 5	4	Green triangular daymark, green concrete base.	
21396 <i>F 1720</i>	-Terumbu Palawan.	1° 15.0' N 103° 49.0' E	Fl.G. period 2.5s	26 8	5	Green metal framework tower, green concrete base.	
PULAU BELAKANG PADANG (INDONESIA):							
21400 <i>F 1696</i>	-Batu Berhanti.	1° 11.1' N 103° 53.0' E	Fl.W. period 8s	54 16	13	White beacon, red band.	Radar reflector.
	-RACON		B(- • •)		7		
21408 <i>F 1697</i>	-N. point of reef.	1° 10.1' N 103° 52.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	7	Green structure; 33.	
21412 <i>F 1697.2</i>	-Mariaman.	1° 09.1' N 103° 54.3' E	Fl.G. period 3s	95 29	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
21416 <i>F 1697.3</i>	-Tenggara Marian.	1° 08.8' N 103° 54.6' E	Fl.R. period 2s	20 6	4	PORT (A) R, beacon, topmark.	Radar reflector.
21424 <i>F 1697.7</i>	Pulau Batam, Sekupang, on reef W.	1° 07.7' N 103° 55.3' E	Fl.G. period 7s	16 5	4	STARBOARD (A) G, beacon, topmark.	Radar reflector.
21428 <i>F 1697.73</i>	--N.	1° 07.8' N 103° 55.5' E	Fl.R. period 6s	26 8	4	PORT (A) R, beacon, topmark.	Radar reflector.
21436 <i>F 1697.5</i>	--Tanjung Kemudi, NW.	1° 08.5' N 103° 54.8' E	Q.(2)W. period 5s	26 8	6	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
21440 <i>F 1697.9</i>	Jodoh Bay, Baruampal.	1° 10.4' N 104° 00.6' E	Iso.W. period 3s	33 10	6	White beacon.	Radar reflector.
21452 <i>F 1697.94</i>	--Pu. Batan, S.	1° 10.0' N 104° 00.0' E	Fl.G. period 5s	26 8	4	STARBOARD (A) G, beacon, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21453 <i>F 1697.93</i>	--N.	1° 10.1' N 103° 59.9' E	FI.R. period 4s	26 8	4	PORT (A) R, beacon, topmark.	Radar reflector.
21456 <i>F 1697.95</i>	--Range, front.	1° 10.0' N 103° 59.9' E	FI.W. period 3s	43 13	8	White beacon, white triangular daymark, point up.	Radar reflector.
21460 <i>F 1697.96</i>	--Rear, 089°02' from front.	1° 10.1' N 104° 00.4' E	FI.W. period 5s	65 20	8	White beacon, white triangular daymark, point down.	Radar reflector.
---RACON				B(-••)		15	
21461 <i>F 1697.97</i>	Tering Bay, W. beacon.	1° 09.5' N 104° 03.6' E	FI.G. period 5s	23 7	6	STARBOARD (A) G, beacon, topmark.	
21461.1 <i>F 1697.971</i>	-E. beacon.	1° 09.5' N 104° 03.6' E	FI.R. period 5s	23 7	6	PORT (A) R, beacon, topmark.	
21461.3 <i>F 1697.981</i>	-SW. beacon.	1° 08.1' N 104° 03.6' E	FI.G. period 4s fl. 1.5s, ec. 2.5s	23 7	6	STARBOARD (A) G, beacon, topmark.	
21461.5 <i>F 1697.982</i>	-SE. beacon.	1° 07.9' N 104° 03.6' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	23 7	6	PORT (A) R, beacon, topmark.	
21461.7 <i>F 1697.983</i>	-S. beacon.	1° 07.8' N 104° 03.5' E	FI.Y. period 2s fl. 0.5s, ec. 1.5s	23 7	6	SPECIAL Y, beacon, topmark.	
21461.9 <i>F 1697.979</i>	-N. beacon.	1° 08.3' N 104° 03.6' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	23 7	6	PORT (A) R, beacon, topmark.	
21462 <i>F 1697.99</i>	Pulau Nongsa.	1° 12.2' N 104° 04.7' E	FI.W. period 8s	131 40	20	White beacon.	
21464 <i>F 1695.6</i>	Buffalo Rock.	1° 09.4' N 103° 48.8' E	Q.W.	52 16	13	N. CARDINAL BY, beacon, topmark.	Radar reflector.
RACON				K(-•-)			
21472 <i>F 1694.8</i>	Gusong.	1° 11.1' N 103° 47.8' E	FI.(3)G. period 10s	19 6	4	STARBOARD (A) G, articulated beacon, topmark; 19.	
21476 <i>F 1694.7</i>	Helen Mar Reef.	1° 07.4' N 103° 46.5' E	FI.W. period 6s	52 16	13	N. CARDINAL BY, beacon, topmark.	Radar reflector.
RACON				M(--)			
21480 <i>F 1694</i>	Pulau Takong Kecil.	1° 06.2' N 103° 43.1' E	FI.(2)W.R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	157 48	12	White metal tower; 99.	R. 065°-136°, W.-065°. Radar reflector.
21484 <i>F 1694.2</i>	-SSE. of Pulau Takong.	1° 05.9' N 103° 43.4' E	Q.(6)+L.FI.W. period 15s	36 11	11	S. CARDINAL YB, articulated beacon, topmark.	Radar reflector.
-RACON				TK(--•-)		16	
21491 <i>F 1691.8</i>	North Nipa.	1° 10.2' N 103° 39.7' E	Q.W.	39 12	12	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.
21492 <i>F 1692</i>	Nipa Reef, N. head.	1° 09.2' N 103° 39.4' E	FI.W. period 3s	52 16	13	White beacon; 33.	
RACON				N(-•)			
21495 <i>F 1693.9</i>	Pulau Cula.	1° 02.4' N 103° 42.7' E	FI.(3)W. period 15s	52 16	12	White beacon.	
21496 <i>F 1693.8</i>	Phillip Channel, Deep Water Route.	1° 03.5' N 103° 38.8' E	Q.(6)+L.FI.W. period 15s	36 11	11	S. CARDINAL YB, buoy, topmark.	Radar reflector.
RACON				D(-••)		16	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21500 F 1693	Raffles.	1° 09.5' N 103° 44.7' E	Fl.(3)W. period 20s	105 32	20	White round tower; 95.	Radar reflector. DGPS Station.
	RACON		O(---)				(3 & 10cm)
21504 F 1693.2	-Semaphore tower.	1° 10.0' N 103° 45.0' E	Iso.W. period 10s	135 41	6	Metal framework tower.	Traffic signals. At night, light "X"-shaped. By day, black cone points up over black cylinder. Occasional.
21508 F 1695	Pulau Sebarok.	1° 11.8' N 103° 48.5' E	Fl.R. period 5s	23 7	10	PORT (A) R, tower, topmark.	
21527 F 1695.1	Pulau Sebarok, Vopak Terminal Range, front.	1° 12.0' N 103° 47.8' E	Fl.Y. period 2s	23 7	4	Yellow metal pole, yellow triangular daymark, point up.	Fl.Y. 6s warning light on east end of jetty.
21527.1 F 1695.2	--Rear, about 180 meters 040°05' from front.	1° 12.1' N 103° 47.9' E	Fl.Y. period 4s	30 9	4	Yellow metal pole, yellow triangular daymark, point down.	
21528 F 1695.3	-Jambi West.	1° 12.1' N 103° 47.6' E	Q.(9)W. period 15s	13 4	3	W. CARDINAL YBY, beacon, topmark.	Q.R. lights mark ends of jetty 500 meters NNW.
21536 F 1688.6	Pulau Ular.	1° 14.2' N 103° 45.4' E	Q.W.	13 4	2	Black beacon.	
21540 F 1690.7	Gerita Beacon.	1° 13.4' N 103° 43.5' E	Fl.(2)W. period 10s	26 8	4	ISOLATED DANGER BRB, tower, topmark.	
21542 F 1690.8	Sudong Beacon.	1° 12.7' N 103° 42.9' E	Fl.Y. period 8s			Yellow metal framework tower.	
21544 F 1690.6	Selat Pauh.	1° 13.4' N 103° 45.0' E	Fl.G. period 5s	20 6	3	Green tubular tower on dolphin.	
21545 F 1690.72	Semakau, N.	1° 13.1' N 103° 45.5' E	Q.W.	20 6	3	N. CARDINAL BY, beacon, topmark.	Radar reflector.
21545.5 F 1690.725	Pulau Sakeng.	1° 12.6' N 103° 46.6' E	Dir.F.W.R.G.	49 15	13		G. 015°31'-016°33', W.- 017°37', R.-019°18'. Occasional.
21546 F 1690.73	-NE.	1° 12.6' N 103° 46.8' E	Fl.Y. period 5s	16 5	3	Yellow round tower; 10.	
21548 F 1689	Pulau Bukom Range, front.	1° 14.4' N 103° 45.8' E	Fl.Y. period 2s	23 7	11	Yellow steel pipe, yellow triangular daymark, point up.	Visible 157°48'-337°48'.
21548.1 F 1689.1	--Rear, 60 meters 246°47' from front.	1° 14.4' N 103° 45.7' E	Fl.W. period 4s	43 13	11	Yellow steel pipe, yellow triangular daymark, point down.	Visible 157°48'-337°48'.
21552 F 1690	-First Bukom.	1° 14.2' N 103° 46.3' E	Q.W.	13 4	5	N. CARDINAL BY, beacon, topmark.	
21556 F 1690.1	-Second Bukom.	1° 14.0' N 103° 46.0' E	Q.(6)+L.Fl.W. period 15s	13 4	6	S. CARDINAL YB, tower, topmark.	
21560 F 1690.2	-Third Bukom.	1° 14.0' N 103° 47.0' E	V.Q.W.	13 4	5	N. CARDINAL BY, tower, topmark.	
21564 F 1690.4	-Fourth Bukom.	1° 14.0' N 103° 47.0' E	V.Q.(6)+L.Fl.W. period 10s	13 4	6	S. CARDINAL YB, tower, topmark.	
21568 F 1690.5	-South Bukom.	1° 13.2' N 103° 46.9' E	Q.(6)+L.Fl.W. period 15s	13 4	3	S. CARDINAL Y, tower, topmark.	
21572 F 1690.55	-Jong.	1° 12.8' N 103° 47.4' E	Q.(3)W. period 10s	13 4	4	E. CARDINAL BYB, beacon, topmark.	
21576 F 1688	Cyrene Reef.	1° 15.3' N 103° 45.5' E	Fl.R. period 2.5s	26 8	10	Red framework tower.	
	RACON		M(--)				(3 & 10 cm)
21580 F 1687	Cyrene Reefs, Pandan.	1° 15.5' N 103° 44.5' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, tower, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21584 <i>F 1686.4</i>	Merbau.	1° 16.0' N 103° 44.0' E	Fl.(3)R. period 15s	23 7	5	Red metal framework tower, red concrete base.	
21586 <i>F 1701.8</i>	Seraya Chemical Pier Range, front.	1° 16.2' N 103° 44.3' E	Fl.Y. period 2s	26 8	1	Yellow steel pole, yellow cone daymark, point up.	
21586.1 <i>F 1701.81</i>	-Rear, 175 meters 281°28' from front.	1° 16.2' N 103° 44.2' E	Fl.Y. period 4s	33 10	1	Yellow steel pole, yellow cone daymark, point down.	
21588 <i>F 1701.75</i>	Pulau Seraya, AVIATION LIGHT.	1° 16.5' N 103° 43.8' E	Fl.W.	400 122	12	Power station chimney.	Obstruction light.
21590 <i>F 1700.6</i>	Palau Seraya, "OT1".	1° 16.7' N 103° 44.2' E	Fl.Y. period 10s	17 5		Yellow beacon.	
21590.5 <i>F 1700.65</i>	"OT2".	1° 16.8' N 103° 44.2' E	Fl.Y. period 2.5s	30 9		Yellow beacon.	
21591 <i>F 1700.7</i>	"OT3".	1° 16.8' N 103° 44.1' E	Fl.Y. period 4s	17 5		Yellow beacon.	
21594 <i>F 1700.3</i>	West Retan.	1° 17.5' N 103° 45.2' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark.	
21595 <i>F 1700.5</i>	Pasir Panjang Terminal, "PPT-1".	1° 17.1' N 103° 45.2' E	Fl.G. period 5s	16 5	3	STARBOARD (A) G, beacon, topmark.	
21595.1 <i>F 1700.52</i>	"PPT-2".	1° 17.1' N 103° 45.4' E	Fl.(2)G. period 10s	16 5	3	STARBOARD (A) G, beacon, topmark.	
21596 <i>F 1700.1</i>	-Damar Laut.	1° 18.0' N 103° 43.3' E	Dir.Fl.W.R.G. period 2.5s	39 12	W. R. G.	9 7 7	Beacon, white triangular daymark, point up. G. 308°36'-310°36', W.-313°36', R.-315°36'. In line 312°06' with beacon, white triangular daymark, point down.
21601 <i>F 1701.6</i>	Merlimau, E. terminal.	1° 17.6' N 103° 43.2' E	Fl.Y. period 3s				
21601.1 <i>F 1701.62</i>	-W. terminal.	1° 17.7' N 103° 42.8' E	Fl.Y. period 6s				
21604 <i>F 1685.48</i>	Chawan Beacon.	1° 17.0' N 103° 42.0' E	Fl.R. period 5s	10 3	3	PORT (A) R, pile, topmark.	
21608 <i>F 1685.6</i>	-Esso Bn. G.	1° 17.0' N 103° 42.0' E	V.Q.G.	26 8	5	Green tubular tower on dolphin; 6.	
21620 <i>F 1701.22</i>	GATX terminal, W. head.	1° 17.8' N 103° 44.0' E	Fl.Y. period 2.5s	13 4	4	Dolphin.	
21624 <i>F 1701.2</i>	-E. head.	1° 17.8' N 103° 44.0' E	Fl.Y. period 5s	16 5	4	Dolphin.	
21625 <i>F 1700.38</i>	-Caltex Range, front.	1° 17.6' N 103° 44.5' E	Fl.Y. period 2s	20 6	2	Triangular daymark, point up.	
21625.1 <i>F 1700.39</i>	--Rear, 110 meters 339°52' from front.	1° 17.7' N 103° 44.5' E	Fl.Y. period 4s	30 9	2	Triangular daymark, point down.	
21628 <i>F 1686</i>	Selat Sinki Beacon No. "1".	1° 14.0' N 103° 43.4' E	Fl.(3)G. period 15s	27 8	7	Green concrete tower.	
21632 <i>F 1685.8</i>	Terumbu Serebut.	1° 14.8' N 103° 42.1' E	Fl.(2)R. period 10s	29 9	10	PORT (A) R, beacon, topmark.	
RACON				G(-- •)		10	(3 & 10cm)
21636 <i>F 1686.3</i>	Ayer Beacon.	1° 16.1' N 103° 42.4' E	Dir.Fl.W.R.G. period 3s	33 10	W. R. G.	10 4 4	White metal pipe, white triangular daymark. G. 299°-305°, W.-309°, R.-315°.
21656 <i>F 1684</i>	Sultan Shoal.	1° 14.4' N 103° 39.0' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	66 20	20	White round tower on 2-story dwelling; 59.	Radar reflector.
RACON				K(-- • -)		15	(3 & 10cm)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21664 <i>F 1685.03</i>	Tuas.	1° 17.0' N 103° 39.4' E	Fl.R. period 5s	20 6	3	PORT (A) R, articulated beacon, topmark.	
21672 <i>F 1685.05</i>	Gul.	1° 17.3' N 103° 39.6' E	Fl.(3)G. period 15s	16 5	3	STARBOARD (A) G, articulated beacon, topmark.	
21680 <i>F 1682</i>	Tuas Piatu.	1° 18.5' N 103° 38.3' E	Fl.Y. period 5s	20 6	3	Yellow articulated beacon, yellow rectangular daymark.	
21681 <i>F 1684.4</i>	Tuas Fuel Oil Jetty, E.	1° 16.7' N 103° 38.8' E	Fl.Y. period 2s	16 5		Yellow pole on dolphin.	
21681.1 <i>F 1684.5</i>	-W.	1° 16.7' N 103° 38.6' E	Fl.Y. period 4s	16 5		Yellow pole on dolphin.	
21682 <i>F 1679</i>	Tuas jetty, NW. head.	1° 17.2' N 103° 36.8' E	Fl.Y. period 5s			Yellow tower.	
21682.1 <i>F 1679.2</i>	-SE. head.	1° 17.2' N 103° 36.8' E	Fl.Y. period 2.5s			Yellow tower.	
21685 <i>F 1681</i>	Johore Strait.	1° 20.7' N 103° 38.0' E	Fl.W. period 10s	49 15		White concrete tower.	
MALAYSIA-WEST COAST							
21686 <i>F 1680</i>	Pulo Merambong, W. entrance to Johore Strait.	1° 19.0' N 103° 37.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	40 12	5	White skeleton tower.	Visible 160°-061°.
21686.2 <i>F 1677.5</i>	Tanjung Pelepas Range, front.	1° 19.6' N 103° 33.7' E	Iso.W. period 2s	39 12	7	Concrete piled structure, large triangular daymark, vertical stripe.	Intensified 12M 1° each side of range.
21686.3 <i>F 1677.51</i>	-Rear, 015°42' from front.	1° 20.1' N 103° 33.8' E	Iso.W. period 2s	92 28	7	Concrete piled structure, black rectangular daymark.	Intensified 12M 1° each side of range.
21686.5 <i>F 1676.5</i>	Pengkalan Penghulu.	1° 17.2' N 103° 28.8' E	Fl.(2)G. period 5s	30 9	5	White structure, green triangular daymark.	
21687 <i>F 1676</i>	Kukup, outer.	1° 17.7' N 103° 26.6' E	Fl.G. period 3s	47 14	8	White column, green triangular daymark.	
21687.1 <i>F 1676.2</i>	--Inner.	1° 18.7' N 103° 26.5' E	Fl.R. period 4s	46 14	5	Red square on white column.	
21688 <i>F 1670</i>	Pontian Kechii, S. side of entrance.	1° 29.0' N 103° 23.0' E	Fl.W. period 5s	33 10	6	Metal framework beacon.	Fishing light. F.R. on radio mast 0.3 mile N.
21689 <i>F 1670.1</i>	Sungai Pontian Besar.	1° 30.3' N 103° 22.2' E	Fl.G. period 5s	33 10	5	White column on pile.	
21690 <i>F 1669</i>	Mudah Selatan.	1° 25.2' N 103° 11.1' E	Fl.(3)W. period 15s	82 25	15	White round fiberglass tower on pile.	
RACON					15		(3 & 10cm)
21691 <i>F 1669.1</i>	Panjang Selatan.	1° 23.4' N 103° 07.8' E	Fl.W. period 5s	85 26	15	White round fiberglass tower on pile.	
21692 <i>F 1668</i>	Pulau Pisang.	1° 28.1' N 103° 15.4' E	Fl.W. period 10s	493 150	20	White metal round tower; 53.	Visible over Pulo Cocob.
21696 <i>F 1660</i>	Sungai Benut.	1° 35.0' N 103° 16.2' E	Fl.W. period 10s	41 12	8	White tower on concrete pile.	
21698	Kuala Sg. Rengit.	1° 38.9' N 103° 08.1' E	Fl.W. period 4s	33 10	8	White structure.	
21699 <i>F 1657</i>	Parit Botak.	1° 42.0' N 103° 04.4' E	Fl.G. period 7s	35 11	5	White column, green triangular daymark.	
21701	Mudah Utara.	1° 37.2' N 102° 57.0' E	Fl.(2)W. period 6s		15	White round fiberglass tower on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21702 F 1654	Panjang Utara.	1° 35.4' N 102° 46.7' E	Fl.(2)W. period 10s	89 27	15	White round fiberglass tower on pile.	
21704 F 1653	Sugai Ayam.	1° 45.0' N 102° 56.0' E	Q.W.	21 6	3	White square metal framework structure.	Fishing light.
21708 F 1652	Pulau Sialu.	1° 47.0' N 102° 53.0' E	Fl.W. period 3s	57 17	5	White masonry tower; 49.	F.R. and F.G. mark passage through bridge 4.6 miles NNE. F.R. on radio masts 3.75 miles ENE.
21712 F 1652.5	Bukit Segenting.	1° 47.7' N 102° 53.2' E	Fl.(4)W. period 30s	282 86	23	White masonry tower; 46.	
21716 F 1650	Tanjong Tohor.	1° 50.7' N 102° 42.4' E	Fl.W. period 5s	52 16	13		Radar reflector.
MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)							
21718 F 1648	Parit Jawa.	1° 56.7' N 102° 37.6' E	Fl.R. period 4s	36 11	5	White column on piles, red square daymark.	
MALAYSIA-WEST COAST							
MUAR:							
21720	-Entrance Lighted Buoy, entrance to river.	2° 03.0' N 102° 30.1' E	Fl.G. period 5s			Green buoy.	
21724 F 1646	-N. side of river entrance.	2° 03.0' N 102° 33.0' E	Fl.W. period 10s	41 12	5	White metal pile structure; 40.	Obscured by trees when bearing less than 011°.
21728 F 1644	Pulau Undan.	2° 02.9' N 102° 19.9' E	Fl.(2)W. period 15s	175 53	18	Red octagonal tower, white square house; 49.	
21732 F 1640	Pulau Panjang.	2° 10.0' N 102° 15.0' E	Fl.R. period 5s fl. 1s, ec. 4s	18 5	6	White beacon.	
21734 F 1633	Batu Gelama.	2° 10.5' N 102° 14.9' E	Fl.W. period 5s	13 4	8	White round concrete tower; 12.	
MELAKA (MALACCA):							
21735 F 1637	-Entrance.	2° 11.1' N 102° 14.5' E	Fl.R. period 4s	34 10	5	White piled structure, red square daymark.	
21736 F 1634	-W. breakwater, head.	2° 11.3' N 102° 14.8' E	Fl.R. period 4s	12 4	4	Concrete column; 14.	Temporarily extinguished (1985).
21740 F 1636	-E. breakwater, head.	2° 11.3' N 102° 14.7' E	Fl.G. period 4s	12 4	4	Concrete column; 14.	Temporarily extinguished (1985).
21742	Tanjung Panchor.	2° 16.5' N 102° 04.1' E	Fl.G. period 4s	21 6	5	Beacon, white.	
21744 F 1629	Tanjong Bruas.	2° 13.0' N 102° 09.0' E	Q.R.	25 8	8	Orange concrete column on 3 pile base.	
21744.3 F 1628.65	NW. of Tanjung Keling.	2° 13.6' N 102° 08.0' E	Iso.Y. period 4s			Articulated beacon.	
21744.4 F 1628.6	-NW.	2° 13.7' N 102° 07.9' E	Q.Y.			Articulated beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
PELABUHAN SUNGAI UDANG:							
21744.6 F 1628.1	-SBM. -RACON	2° 11.7' N 102° 06.5' E	Mo.(U)W. U(••-)	period 10s	Yellow SBM.		Horn: Mo.(U) ev. 30s. Radar reflector.
21745 F 1628.3	-Oil terminal, N. dolphin.	2° 15.2' N 103° 10.0' E	F.R.				
21745.2 F 1628.35	-Berth "4".	2° 14.8' N 102° 07.4' E	Q.G.				
21745.4 F 1628.4	-Berth "3".	2° 14.5' N 102° 07.6' E	Q.R.				
21745.6 F 1628.45	-S. dolphin.	2° 14.3' N 102° 07.8' E	F.R.				
21746 F 1627.6	Sungai Baru.	2° 21.2' N 102° 02.1' E	Fl.R. period 4s	36 11	5	Beacon, white square daymark.	
21746.5 F 1627.9	Telok Gong intake.	2° 19.9' N 102° 02.7' E	Fl.Y. period 5s	36 11	7	Yellow column on piles.	
21747	Bu Tengah.	2° 21.2' N 101° 59.2' E	Fl.(4)W. period 6s	26 8	5		
21748 F 1626	Tanjong Tuan.	2° 24.5' N 101° 51.1' E	Fl.(3)W. period 15s	388 118	23	White round tower; 78.	
21749 F 1627	Kuala Linggi, outer.	2° 22.0' N 101° 57.2' E	Fl.(2)W. period 10s	13 4	5	White round beacon.	
21750 F 1627.4	-Inner.	2° 23.5' N 101° 58.2' E	Fl.(2)R. period 10s	10 3	5	White round beacon.	
21752 F 1623	Port Dickson.	2° 31.2' N 101° 47.8' E	Fl.R. period 4s	20 6	7	Black steel pile, red platform and column.	
21756 F 1623.6	Port Dickson Intake, Seaward head.	2° 32.0' N 101° 47.0' E	F.R.		4		
21760 F 1622.5	Arang.	2° 30.8' N 101° 47.2' E	Fl.(2)W. period 8s			ISOLATED DANGER BRB, articulated beacon, topmark.	
21764 F 1622	Pulau Arang, SW. side.	2° 31.0' N 101° 48.0' E	Fl.W. period 10s	90 27	9	White metal framework tower.	Visible 289°-138°30'.
21768 F 1621.5	-Kuala Lukut.	2° 33.6' N 101° 47.6' E	Fl.W. period 5s	26 8	8	White platform on concrete pile.	Fishing light.
21770 F 1621	Sungai Chuah.	2° 36.3' N 101° 45.3' E	Fl.W. period 15s	26 8	8	White square concrete tower.	Fishing light.
21771 F 1620.5	Sepang Outer.	2° 32.9' N 101° 43.9' E	Fl.G. period 2s	49 15	7	White metal framework tower, green triangular daymark.	
21772 F 1620	Kuala Sepang Besar.	2° 35.0' N 101° 42.8' E	Fl.W.R.G. period 4s	61 19	W. 15 R. 10 G. 10	White metal framework tower, white square daymark.	R. 266°-307°, W.-316°, G.-346°, W.-011°, R.-106°.
21774 F 1619.4	Sepat.	2° 34.1' N 101° 23.4' E	Q.W. C(-•-•)	39 12	14	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.
21776 F 1619	RACON						
21776 F 1619	Tanjung Gabang.	2° 40.9' N 101° 29.0' E	Fl.W. period 4s	92 28	16	Round concrete tower on piles.	
21780 F 1614	Bukit Jugra.	2° 50.1' N 101° 25.1' E	Fl.W. period 10s	479 146	24	White column; 82.	
21782	-Entrance	2° 48.1' N 101° 24.2' E	Fl.G. period 4s	30 9	5	White concrete column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21783 <i>F 1618</i>	Gosong Pasir Selatan.	2° 40.7' N 101° 06.5' E	Q.W.	39 12	11	N. CARDINAL BY, beacon, topmark.	
21784 <i>F 1616</i>	One Fathom Bank.	2° 53.3' N 100° 59.7' E	Fl.(4)W. period 20s	141 43	23	White round steel tower, red bands on piles.	
	RACON		O(---) period 120s		20		
21788 <i>F 1617</i>	Beacon, 9.4 km. SW. of One Fathom Bank.	2° 49.4' N 100° 56.1' E	Q.(6)+L.FI.W. period 15s	43 13	11	S. CARDINAL YB, articulated beacon, topmark.	Radar reflector.
21792 <i>F 1617.2</i>	Beacon, 10.5 km. SW. of One Fathom Bank.	2° 48.7' N 100° 56.3' E	Q.W.	36 11	11	N. CARDINAL BY, articulated beacon, topmark.	
	RACON		M(--)		20		
21794 <i>F 1617.4</i>	Beacon, 13.8 km. SW. of One Fathom Bank.	2° 48.8' N 100° 53.7' E	Fl.Y. period 10s	36 11	11	SPECIAL Y, articulated beacon, topmark.	
21796 <i>F 1616.5</i>	Blenheim Shoal.	3° 00.8' N 100° 51.8' E	Fl.W. period 10s	30 9	14	White steel articulated beacon.	
	RACON		T(-)				
21800 <i>F 1612</i>	Tanjung Tenteram.	3° 00.1' N 101° 12.5' E	Fl.R. period 3s	33 10	6	White column on piles, red square daymark.	
21803 <i>F 1610</i>	Tanjung Rhu.	2° 50.3' N 101° 16.9' E	Fl.W. period 5s	79 24	15	White round fiberglass tower on pile.	
21806 <i>F 1609</i>	Tanjang Mahang Range, front.	2° 54.9' N 101° 16.2' E	Q.W.	62 19	10	White lattice tower on concrete platform, white cone daymark, point up.	
21806.1 <i>F 1609.1</i>	-Rear, 200 yards 011°22' from front.	2° 55.0' N 101° 16.1' E	Iso.R. period 4s	85 26	8	White lattice tower on concrete platform, white cone daymark point down.	
21808 <i>F 1608</i>	-First Point Beacon No. "28".	2° 55.2' N 101° 16.6' E	Fl.R. period 4s	56 17	5	White column, red square topmark.	Visible 222°-032°.
21812 <i>F 1607</i>	-No. "27".	2° 55.6' N 101° 17.5' E	Fl.W. period 4s	56 17	5	White column, green triangular daymark.	
21816 <i>F 1606</i>	No. "25".	2° 59.0' N 101° 19.0' E	Fl.(2)R. period 15s	41 12	4	Black metal tower, white round daymark.	
21820 <i>F 1594</i>	-Tanjong Sarang Lang No. "24".	3° 00.0' N 101° 20.4' E	Fl.(2)W. period 10s	85 26	5	White steel framework structure, 2 white rectangular daymarks in vertical line; 82.	F.Y. lights mark NE, and SW. end on terminal 0.85 mile S.

-Port Kelang (Swettenham):

21824 <i>F 1598</i>	--South Port No. "14".	2° 59.9' N 101° 23.5' E	Fl.R.	30 9	3	White steel mast; 85.	
21825 <i>F 1596</i>	--South Port, entry.	2° 59.8' N 101° 23.6' E	Dir.Iso.W.R.G. period 4s	48 15	4	Top of 3 story building.	G. 080°42'-081°48', W.-087°54', R.-090°30'.
21826 <i>F 1597</i>	--Marine Department Signal Station.	3° 00.1' N 101° 23.4' E	Fl.R.	92 28	5	Building.	
21828 <i>F 1604</i>	--Beacon No. "17" Range, front.	2° 59.0' N 101° 23.6' E	Fl.W. period 3s	13 4	8	Beacon.	Marks W. limit of prohibited anchorage.
21832 <i>F 1604.1</i>	--Rear, No. "16", 21 meters 168° from front.	2° 59.1' N 101° 23.7' E	Fl.G. period 4s	17 5	8	Beacon.	
21834 <i>F 1595</i>	Tanjung Gila.	3° 00.0' N 101° 21.9' E	Fl.R. period 5s		5	White tower.	
21836 <i>F 1592</i>	-Beacon No. "20A" Range, front.	2° 59.7' N 101° 21.7' E	Q.W.	26 8	10	White concrete column.	
21840 <i>F 1592.1</i>	--Rear No. "19A", 145 meters 153°58' from front.	2° 59.6' N 101° 21.7' E	Fl.G. period 2s	39 12	11	White concrete column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21844 <i>F 1593</i>	--Sungai Labohan Gurap No. "21".	3° 00.0' N 101° 21.0' E	Fl.W. period 3s	41 12	4	Beacon, white rectangular daymark.	
21846 <i>F 1591</i>	-Coal and Oil Jetty, N. head.	3° 06.6' N 101° 18.7' E	Fl.R. period 5s				
21846.2 <i>F 1591.2</i>	--S. head.	3° 06.5' N 101° 18.6' E	Fl.R. period 5s				
21848 <i>F 1586</i>	-Pulau Angsa.	3° 11.2' N 101° 13.0' E	Fl.I.W.R. period 10s	117 36	W 22 R 15	White round concrete tower; 35.	W. 145°-315°, R.-145°. Partially obscured by Obstruction light F.R. 28m 323°30'-010°30'.
21856 <i>F 1585</i>	-Kuala Sungai Buloh.	3° 15.1' N 101° 17.0' E	Fl.W. period 3s	46 14	8	White column on piles.	
21860 <i>F 1578</i>	Kuala Selangor.	3° 20.0' N 101° 15.0' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	238 73	18	White round metal tower, masonry base; 90.	
21862 <i>F 1579</i>	-Kuala Sungai.	3° 18.5' N 101° 13.1' E	Fl.W. period 6s	42 13	8	White column on piles.	
21864 <i>F 1576</i>	Sungai Haji Durani.	3° 38.0' N 101° 01.0' E	Fl.W. period 5s	39 12	9	White concrete column; 39.	Fishing light.
21866 <i>F 1577</i>	Kuala Si Tengi.	3° 23.1' N 101° 09.9' E	Fl.R. period 5s	26 8	5	White structure.	
21868 <i>F 1576.4</i>	Sungai Tengorak.	3° 27.0' N 101° 07.0' E	Fl.W. period 3s	36 11	9	White concrete column; 39.	Fishing light.
21874 <i>F 1576.2</i>	Kuala Sg. Sekinchan.	3° 29.7' N 101° 05.4' E	Fl.G. period 4s	23 7	5	White structure.	
21876 <i>F 1574.6</i>	Sungai Burong.	3° 41.2' N 100° 55.7' E	Fl.W. period 3s	39 12	8	White column on piles.	Fishing light.
21878	Sungai Pulai.	3° 43.3' N 100° 54.9' E	Fl.(2)G. period 5s	38 12	5	White column on piles, green top.	
21880 <i>F 1574.3</i>	Kuala Bernam.	3° 45.6' N 100° 52.1' E	Fl.R. period 4s	39 12	5	White column on piles.	Fishing light.
21884 <i>F 1573.5</i>	Kuala Bernam.	3° 51.3' N 100° 49.2' E	Fl.W. period 4s	46 14	10	White round tower on pile.	
21888	-Fairway Lighted Buoy	3° 49.0' N 100° 46.0' E	L.Fl.W. period 10s			SAFE WATER RW, spherical.	
21892 <i>F 1573</i>	-Sungai Belukang.	3° 51.0' N 100° 45.0' E	Q.W.	33 10	10	Tower.	Fishing light.
21896 <i>F 1572</i>	Sungai Tiang.	3° 54.3' N 100° 42.3' E	Fl.W. period 5s	26 8	8	White structure.	
21898	Pulau Jarak.	3° 58.7' N 100° 06.1' E	Fl.(2)W. period 15s	531 162	20	White metal framework tower, red bands.	
21900 <i>F 1565</i>	White Rock.	4° 00.4' N 100° 30.5' E	Fl.(2)W. period 10s	70 21	15	Metal framework tower on concrete base; 39.	
	RACON		K(- * -)				
KUUALA PERAK:							
21904	-Fairway lighted buoy.	4° 03.5' N 100° 39.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
21908 <i>F 1569</i>	-Began Datoh.	3° 59.5' N 100° 47.2' E	Fl.R. period 12s		7	Mast.	
21909 <i>F 1570</i>	-Kota Setia.	4° 01.3' N 100° 52.2' E	Fl.W. period 6s		10	Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21911	Tapis Oil Field SPM RACON. <i>F 1558.4</i>	4° 08.0' N 105° 07.7' E	T(–)				
LUMUT:							
21912	-Pulau Katak. <i>F 1558.5</i>	4° 09.3' N 100° 37.2' E	Fl.W. period 4s	115 35	7	White brick tower; 36.	
-Selat Dinding - S. Entrance:							
21916	--South East Point, on Pulau Pangkor. <i>F 1560</i>	4° 11.3' N 100° 35.0' E	Fl.(2)W. period 4s	33 10	8	White round concrete tower; 17.	
21920	-Hospital Rock. <i>F 1560.2</i>	4° 12.9' N 100° 34.7' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	16 5	5	White stone column; 8.	
21921	--Muroh. <i>F 1560.5</i>	4° 13.3' N 100° 35.2' E	F.R.	38 12	5	White column, red square daymark.	Radar reflector.
21922	--Batu Gajah. <i>F 1560.6</i>	4° 13.3' N 100° 35.9' E	Q.W.	30 9	3	White post, triangular daymark.	
21923	--Beting. <i>F 1560.7</i>	4° 14.1' N 100° 35.1' E	F.R.	36 11	5	Black column, white triangular daymark.	2 F.Y. on head of jetty close E. Radar reflector.
21924	-Tanjung Hantu. <i>F 1554</i>	4° 18.6' N 100° 33.6' E	Fl.W. period 5s	98 30	13	White tower; 20.	
-Selat Dinding - N. Entrance:							
21928	--Dinding , NW Entrance Range, front, 1482 meters 127°57' to rear <i>F 1554.9</i>	4° 14.7' N 100° 35.0' E	Fl.(2)W.R.G. period 3s	19 6	W. R. G.	7 4 4	Black and white checkered tower, red square daymark. W. 126°30'-129°30', R.-308°, G.-126°30'.
21932	--Common rear. <i>F 1555</i>	4° 14.2' N 100° 35.6' E	Iso.W. period 4s	33 10	7		Visible 117°54'-137°54'.
21936	--River Rock, N. Channel Range, front, 820 meters 152°19' to rear. <i>F 1555.1</i>	4° 14.6' N 100° 35.4' E	Fl.W.R.G. period 3s	30 9	W. R. G.	7 4 4	White tower. W. 150°-154°, R.-332, G.-150°.
21940	--Batu Mandi. <i>F 1557</i>	4° 15.8' N 100° 33.0' E	Q.R.	23 7	5	Framework tower; 22.	Fishing light.
21944	--S. entrance Range, front. <i>F 1559</i>	4° 17.4' N 100° 34.3' E	Fl.(3)W. period 20s	36 11	9	White tower, black bands.	
21948	--Rear, 1852 meters 351°15' from front. <i>F 1559.1</i>	4° 18.4' N 100° 34.1' E	Fl.W. period 3s	53 16	10	White tower.	
21952	--NW. "3". <i>F 1557.3</i>	4° 16.2' N 100° 33.2' E	Oc.R. period 3s	19 6	3	Beacon.	
21956	--NW. "1". <i>F 1557.4</i>	4° 15.7' N 100° 33.9' E	Oc.R. period 3s	30 9	5	White tower.	
21960	--Tanjung Awang Kecil. <i>F 1558</i>	4° 15.2' N 100° 33.9' E	Fl.W. period 5s	23 7	8	White tower.	Fishing light.
21964	--NW. "2". <i>F 1557.5</i>	4° 15.3' N 100° 33.8' E	Oc.G. period 3s	19 6	3	Beacon.	Temporarily extinguished (1987).
21964.5	--Lloyd Rock. <i>F 1560.9</i>	4° 15.4' N 100° 35.2' E	Q.R.	33 10	3	White pillar.	
-Sungai Dinding:							
21965	--River Passage Range, front. <i>F 1562</i>	4° 14.1' N 100° 37.7' E	Fl.(3)W. period 20s	30 9	6	White tower, black bands.	R. lights on radio masts S. 120 meters and W. 1540 meters.
21965.5	--Rear, 250 meters 114°20' from front. <i>F 1562.1</i>	4° 14.0' N 100° 37.8' E	Q.W.	39 12	6	White tower.	
21966	--Lumut Naval Base, W. breakwater, head. <i>F 1562.4</i>	4° 14.3' N 100° 36.7' E	Oc.G. period 6s			Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21966.5	--E. head. F 1562.5	4° 14.3' N 100° 36.8' E	Oc.R. period 6s		Beacon.		3 F.Y. 7m 4M mark dolphins 0.5 mile SE.
21967	--Lumut Pier. F 1563	4° 14.2' N 100° 38.0' E	F.R.	20 6			
21968	Palau Talang. F 1553.2	4° 25.3' N 100° 34.6' E	Fl.W. period 7s	69 21	8	Beacon.	
21970	Kuala Beruas. F 1552.5	4° 26.7' N 100° 37.0' E	Fl.(2)W. period 10s	72 22	8	White tower, red bands.	
21972	Kuala Jurum Mas. F 1552	4° 32.1' N 100° 37.7' E	Fl.W. period 4s	30 9	8	White column on piles; 20.	Fishing light.
21976	Bagan Kuala Larut. F 1550	4° 47.0' N 100° 33.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	22 7	9	Black metal structure, white stripes, concrete base.	Fishing light.
21980	Kuala Kurau, entrance. F 1546	4° 59.5' N 100° 24.7' E	Fl.W. period 4s	23 7	8	Steel framework structure, concrete base.	Fishing light.
21984	Tg. Piandang. F 1544	5° 05.0' N 100° 21.5' E	Fl.W. period 3s	30 9	8	White metal structure, concrete base on piles.	Fishing light.
21988	Sungei Chenaam. F 1543	5° 07.6' N 100° 23.7' E	Fl.G. period 5s	42 13	5	White tower on piles.	
21990	Kuala Sungai Kerian. F 1542.5	5° 10.6' N 100° 25.0' E	Fl.R. period 3s	34 10	5	White structure, red square daymark.	
PINANG:							
21992	-Pulau Rimau. F 1540	5° 14.7' N 100° 16.5' E	Fl.(2)W. period 10s	129 39	22	White metal tower; 57.	Fl.Y. 7m 5M lights mark Anchoring Prohibited area to NE.
21996	-Kuala Jalan Baru. F 1540.6	5° 02.0' N 100° 11.5' E	Fl.(2)W. period 5s	41 12	8	White column on piles.	Fishing light.
21998	-Pulau Betung. F 1540.3	5° 18.6' N 100° 11.5' E	Fl.W. period 5s	20 6	8	White pillar.	
21999	-Sungai Pinang. F 1540.8	5° 23.6' N 100° 11.5' E	Fl.W. period 4s	26 8	10	White square concrete column.	Fishing light.
22000	-Teluk Tempoyak Kechil. F 1538	5° 16.0' N 100° 17.0' E	Aero.Fl.R. period 2s	519 158	12		Obstruction.
22004	-Teluk Tempoyak Besar. F 1538.4	5° 16.0' N 100° 17.0' E	Aero.Fl.R. period 2.4s	692 211	12		Obstruction.
22006	-Pulau Jerjak. F 1536	5° 19.4' N 100° 19.1' E	Fl.R. period 2.4s	712 217		Beacon.	
22008	-Great Kra Flat Range, front. F 1532	5° 20.3' N 100° 21.1' E	Fl.W. period 3s	18 5	8	White metal beacon on piles, white triangular daymark, black stripe.	Visible 034°-064°.
22012	--Rear, 580 meters 044°05' from front. F 1532.1	5° 19.1' N 100° 20.6' E	Q.W.	19 6	8	White metal beacon on piles, white triangular daymark, black stripe.	Visible 035°-065°.
22016	-Owen Beacon. F 1529	5° 19.8' N 100° 20.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	5	White column on piles.	
22020	-Great Kra Flat South Range, front. F 1527	5° 19.4' N 100° 20.6' E	Fl.W. period 3s	23 7	8	Red beacon, yellow bands, yellow triangular daymark.	Visible 090°-270°.
22024	--Rear, 570 meters 185°02' from front. F 1527.1	5° 20.4' N 100° 21.3' E	Q.W.	38 12	5	Red beacon, yellow bands, yellow round daymark.	Visible 090°-270°.
22026	-Pinang Bridge, Main Channel, S. Approach. F 1526.5	5° 21.2' N 100° 20.8' E	Oc.W.R.G. period 10s	121 37	W. 10 R. 8 G. 8		G. 358°30'-001°30', W.-008°30', R.-018°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
22026.1 <i>F 1526.4</i>	--N. Approach.	5° 21.2' N 100° 20.8' E	Oc.W.R.G. period 10s	121 37	W. 10 R. 8 G. 8		R. 175°-181°30', W.-188°30', G.-195°.
22028 <i>F 1526</i>	-Peal Beacon.	5° 22.2' N 100° 21.1' E	Fl.(2)G. period 5s		6	White beacon.	
22031 <i>F 1523.5</i>	-Bulk Cargo Terminal.	5° 22.0' N 100° 22.0' E	Oc.W.R.G. period 5s	39 12	W. 10 R. 8 G. 8	Red beacon, white bands, red triangular daymark.	G. 163°-166°30', W.-169°18', R.-173°.
22032 <i>F 1519</i>	-Sungai Perai, jetty.	5° 23.0' N 100° 22.0' E	2 F.W.	20 6		Metal columns.	One at each end. 2 F.G. shown from outer end (1 at each corner) of Mitchell pier.
22034 <i>F 1519.5</i>	-Sungai Perai.	5° 23.2' N 100° 22.5' E	Iso.W.R.G. period 4s	48 15	W. 10 R. 5 G. 5	White concrete beacon, red bands.	G. 061°-063°, W.-065°, R.-067°.
22036 <i>F 1522</i>	-Light "A".	5° 22.5' N 100° 21.9' E	Q.W.			Dolphin.	
22040 <i>F 1523</i>	-Light "D".	5° 22.3' N 100° 21.9' E	Q.R.				
22048 <i>F 1512</i>	-Wellesley, S. beacon.	5° 25.3' N 100° 22.2' E	Fl.W. period 5s	44 13	10	White column on pile.	
22052 <i>F 1514</i>	-Naval and Petroleum anchorage.	5° 25.3' N 100° 22.4' E	Fl.R. period 3s	46 14	5	Beacon, white circle.	Visible 090°-180°.
22053	-Container terminal, N. head.	5° 24.9' N 100° 21.6' E	Fl.(3)R. period 5s				
22053.5	--S. head.	5° 24.7' N 100° 21.6' E	Fl.(3)G. period 5s				
22056 <i>F 1494</i>	-Fort Point.	5° 25.0' N 100° 21.0' E	Fl.R. period 2s	87 27	16	White metal framework tower; 70.	F.G. shown from N. and F.R. from S. end of Swetterham pier. 2 F.G. shown from Church Street pier.
22064 <i>F 1524</i>	-North limit of Prohibited Anchorage, No. "3" Range, front.	5° 22.9' N 100° 20.0' E	Fl.W. period 2s	42 13	6	Black column on piles white disc topmark.	
22068 <i>F 1524.1</i>	--Rear, No. "2" about 914 meters 279° from front.	5° 22.9' N 100° 19.6' E	Fl.W. period 2s	43 13	6	Black column on piles white disc topmark.	
22072 <i>F 1525</i>	-South limit of Prohibited Anchorage, No. "8" Range, front.	5° 22.4' N 100° 19.9' E	Fl.G. period 2s	43 13	5	Black column on piles white disc topmark.	
22076 <i>F 1525.1</i>	--Rear, No. "7" about 704 meters 279° from front.	5° 22.5' N 100° 19.6' E	Fl.G. period 2s	43 13	5	Black column on piles white disc topmark.	
22088 <i>F 1486</i>	-Muka Head.	5° 28.6' N 100° 10.8' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	795 242	25	White stone tower; 45.	
22092 <i>F 1490</i>	Pulau Tikus.	5° 28.6' N 100° 17.9' E	Fl.W. period 3s	49 15	10	White stone column; 22.	Visible 098°-319°.
22096 <i>F 1488</i>	NORTH CHANNEL FLOAT.	5° 36.0' N 100° 12.0' E	L.Fl.W. period 10s			Red hull, white stripes.	Liable to drag out of position during the height of SW. monsoon.
22100 <i>F 1483</i>	Kuala Muda.	5° 34.7' N 100° 19.8' E	Fl.W. period 3s	33 10	10	White column on piles.	
22104 <i>F 1482</i>	-Tg. Dawai.	5° 40.8' N 100° 21.7' E	Fl.W. period 8s	22 7	10	White square tower.	
22108 <i>F 1480</i>	Yen.	5° 49.0' N 100° 22.0' E	Fl.W. period 6s	26 8	5	White concrete structure.	Fishing light.
22112 <i>F 1479</i>	Sungai Tabangau Entrance.	5° 58.0' N 100° 21.0' E	Fl.W. period 4s	30 9	4	White concrete pillar.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
22116 <i>F 1478</i>	Sungai Kedah.	6° 06.0' N 100° 17.0' E	Fl.(2)W. period 10s	50 15	5	White tower.	
22120 <i>F 1474</i>	Sungai Sanglang.	6° 14.9' N 100° 11.5' E	Fl.W. period 8s	33 10	8	White column on piles.	
22122 <i>F 1477.6</i>	P. Singa Besar, T. Pak Kehar.	6° 11.7' N 99° 44.9' E	Fl.W. period 10s	79 24	10	White square daymark on white tower.	
22123 <i>F 1477.3</i>	Pulau Kedera.	6° 15.4' N 99° 46.2' E	Fl.W. period 5s	260 79	15	White tower.	
22124 <i>F 1476</i>	Pulau Enggang.	6° 14.6' N 99° 52.6' E	Fl.W. period 8s	197 60	15	Red metal framework tower, white bands, concrete base; 36.	
22124.5 <i>F 1477.7</i>	Pulau Rebak Besar.	6° 17.5' N 99° 41.3' E	Oc.R.			Beacon.	
22125 <i>F 1476.4</i>	Pulau Langkawi SE. side.	6° 19.2' N 99° 53.1' E	Fl.G. period 5s	26 8	5	Metal pipe, white daymark.	
22126 <i>F 1476.5</i>	Pulau Timun. Tg Asam.	6° 18.7' N 99° 53.1' E	Fl.W. period 3s	33 10	8	Metal pipe, white daymark.	
22126.5 <i>F 1476.6</i>	-Tg. Penarak.	6° 18.4' N 99° 52.5' E	Fl.G. period 3s	22 7	5	Metal pipe, white daymark.	
22127 <i>F 1476.7</i>	-Pulau Bumbon Besar.	6° 17.4' N 99° 51.8' E	Fl.R. period 4s	33 10	4	Metal pipe, white daymark.	
22128 <i>F 1477</i>	Batuh Kuah.	6° 18.0' N 99° 51.0' E	Fl.G. period 2s	10 3	6	Round concrete tower, red and white bands.	
22130 <i>F 1476.3</i>	Pulau Sigal.	6° 19.6' N 99° 55.6' E	Fl.W. period 5s	91 28	15	White structure.	
22132 <i>F 1470</i>	Tanjung Chinchin, on Pulau Langkawi.	6° 26.0' N 99° 38.0' E	Fl.(3)W. period 15s	36 11	10		<i>Temporarily extinguished (1989).</i>
22134 <i>F 1471</i>	Pulau Dangli.	6° 27.0' N 99° 46.7' E	Fl.W. period 10s	282 86	15		
22138 <i>F 1472</i>	Kuala Perlis.	6° 24.2' N 100° 06.0' E	Fl.(2)W. period 5s	30 9	9	White beacon.	
22140 <i>F 1473</i>	Sungai Baharu.	6° 20.0' N 100° 09.4' E	Fl.W. period 4s	25 8	8	White square concrete tower; 28.	Fishing light.

THAILAND-WEST COAST							
22144 <i>F 1194</i>	Ko Yao.	6° 28.0' N 100° 04.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	265 81	10	White brick tower; 23.	
22148 <i>F 1193.8</i>	Tanjong Pauh.	6° 29.6' N 100° 05.3' E	Fl.W. period 3s	56 17	9	White metal framework tower; 49.	
22152 <i>F 1192.4</i>	Ko Palai.	6° 30.0' N 99° 10.8' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	160 49	10	White metal framework tower; 66.	
22156 <i>F 1192.5</i>	Ko Tangah.	6° 34.3' N 99° 27.3' E	Fl.W. period 6s	282 86	10	White metal framework tower; 66.	
22160 <i>F 1193</i>	Tanjong Po.	6° 36.6' N 99° 57.1' E	Fl.(2)W. period 12s	115 35	10	White framework tower; 49.	
22164 <i>F 1192</i>	Ko Lela.	6° 43.9' N 99° 42.5' E	Fl.W. period 5s	216 66	10	White metal framework tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-WEST COAST							
22168 F 1188	Goh Beng (Ka Chom Fai Ko Liang).	7° 04.4' N 99° 23.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	135 41	10	White brick tower; 39.	
22172 F 1186	Jongstar, N. bank.	7° 06.8' N 99° 40.2' E	Fl.W. period 5s	167 51	10	White metal framework tower; 59.	
22176 F 1184	Ko Nok.	7° 16.1' N 99° 28.0' E	Fl.W. period 3s	29 9	10	White metal framework tower; 23.	
22177 F 1184.5	-Ban Na Klua Nua.	7° 21.5' N 99° 29.0' E	Fl.(2)W. period 6s	24 7	15		
22177.1 F 1184.6	--N.	7° 21.8' N 99° 28.9' E	Fl.R. period 3s	16 5	11		
22178 F 1184.8	-Ko Kho.	7° 23.6' N 99° 30.5' E	Fl.G. period 3s	30 9	5		
22178.1 F 1184.9	--E.	7° 23.6' N 99° 30.5' E	Fl.W. period 3s	46 14	7		
22179 F 1185.1	-Sawmill.	7° 24.0' N 99° 30.3' E	Fl.W. period 3s	33 10	7		
22179.2 F 1185.2	--N.	7° 24.0' N 99° 30.3' E	Fl.R. period 3s	30 9	5		
22179.4 F 1185.4	-Ban Hua Hin.	7° 24.3' N 99° 30.4' E	Fl.Y. period 3s	30 9	6		
22179.6 F 1185.5	--N.	7° 24.4' N 99° 30.4' E	Fl.W. period 3s	33 10	7		
22180 F 1183	Ko Lanta.	7° 28.2' N 99° 05.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	102 31	10	White concrete tower; 16.	
22181 F 1182.8	Ko Ma.	7° 36.7' N 98° 52.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	295 90	10	White framework tower; 19.	
22182	Laem Phra Chao.	7° 45.7' N 98° 18.3' E	Fl.W. period 9s	308 94	22	White concrete tower; 49.	
22184 F 1170	Ko Kaeo Noi.	7° 44.0' N 98° 18.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	167 51	10	White concrete beacon.	
22188 F 1174	Ko Taphao Noi.	7° 50.0' N 98° 25.4' E	Fl.(2)W. period 20s	180 55	20	White brick tower; 37.	
22189 F 1174.3	Laem Phan Wa.	7° 48.0' N 98° 24.6' E	Fl.(3)W.R. period 15s	33 10	15		
22189.3 F 1174.6	-Entrance Range, front, "B".	7° 49.5' N 98° 24.2' E	F.R.	13 4	3	White beacon, triangular daymark, point down.	
22189.31 F 1174.61	--Rear, 280 meters 332° from front, "A".	7° 49.6' N 98° 24.2' E	F.R.	13 4	3	White beacon, triangular daymark, point down.	
22189.5 F 1174.8	Phuket Wharf, SE. corner.	7° 49.8' N 98° 24.3' E	2 F.R. (vert.)				2 F.R. (vert.) mark NW. corner of wharf.
22190 F 1175	Ko Phuket, Laem Tukkae.	7° 52.1' N 98° 24.9' E	Fl.R. period 4s	7 2	5		2 Fl.R. lights 0.4 mile and 0.6 mile NNW.
22190.2 F 1175.2	-Khlong Tha Chin.	7° 52.5' N 98° 24.9' E	Fl.R. period 2s	26 8	4		
22190.4 F 1175.4	-Harbor.	7° 52.7' N 98° 24.9' E	Fl.W. period 5s	36 11	7		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-WEST COAST							
KRABI:							
22192	-Ko Nok. F 1182	8° 01.7' N 98° 54.4' E	Fl.W. period 3s	66 20	9	White metal framework tower; 66.	
22193	"A".	8° 01.9' N 98° 54.0' E	Fl.R. period 3s	33 10	11		
22193.1	"B".	8° 02.3' N 98° 54.0' E	Fl.(2)W. period 6s	59 18	15		
22194	"C".	8° 02.7' N 98° 54.4' E	Fl.R. period 3s	23 7	7		
22194.1	"D".	8° 02.9' N 98° 54.4' E	Fl.W. period 4s	33 10	7		
22196	Goh Nom Sao Noi. F 1178	8° 18.5' N 98° 31.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	82 25	9	White concrete tower; 6.	
22200	Ko Similan Island. F 1168	8° 37.8' N 97° 38.6' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	554 169	17	White metal framework tower; 98.	
22204	Ko Ra, N. point. F 1166	9° 15.7' N 98° 18.6' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	121 37	10	White framework structure on white concrete tower; 29.	
22208	Ko Luk Kham Tai. F 1165	9° 27.4' N 98° 19.6' E	Fl.W. period 8s	322 98	10	White metal framework tower; 49.	
22212	Ko Chi. F 1164	9° 28.7' N 97° 54.0' E	Fl.W. period 10s	371 113	10	White metal framework tower; 49.	
22214	Ban Tablamu. F 1167	8° 35.2' N 98° 13.2' E	Fl.W. period 4s	262 80	10	White metal framework tower; 98.	
22215	Hin Khi Nok.	8° 36.2' N 98° 13.7' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	30 9	8	White metal structure on concrete base; 16.	
22216	Ko Khan. F 1162	9° 52.5' N 98° 26.6' E	Fl.W. period 3s	180 55	9	White brick tower; 39.	
22220	Koh Phayam. F 1163	9° 43.9' N 98° 23.1' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	197 60	10	White framework tower; 49.	
22224	Ko Son Thai. F 1161	9° 54.2' N 98° 30.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	112 34	10	White framework tower; 49.	
PAKCHAN RIVER:							
22228	-Ko Phi. F 1160	9° 57.6' N 98° 35.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	9	White metal framework tower; 33.	Aero Radiobeacon 5.8 miles NNW. (in Burma).

INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)

22232	Pulau Rondo. F 1300	6° 04.5' N 95° 06.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	633 193	24	White metal framework tower; 131.	
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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22236 F 1302	Breueh.	5° 45.0' N 95° 03.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	524 160	18	Red stone tower, white band; 144.	Visible 083°-288°.
			F.R.	433 132	13		Visible 084°-166°.
22238 F 1295	Pulau Bunta.	5° 33.3' N 95° 09.1' E	Fl.(4)W. period 20s	295 90	15	White metal framework tower; 131.	
22240 F 1312	Teluk Sabang, Ujun Lho Me.	5° 53.2' N 95° 18.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 16	7	White metal skeleton structure; 49.	Obscured when bearing more than 132°.
22244 F 1310	-Pulau Klah.	5° 53.0' N 95° 18.0' E	L.FI.W. period 30s fl. 7s, ec. 23s	101 31	15	White metal framework structure; 33.	Visible 109°-192° and in Lho Pria Laot 109°-087°.
22252 F 1313	-Peuninpun Signal Station.	5° 53.8' N 95° 18.7' E	F.W.		12	Mast.	Radiobeacon 0.25 mile NE.
22256 F 1313.5	-Balohan.	5° 49.8' N 95° 20.7' E	Fl.Y. period 3s	30 9	6	Beacon.	
22258 F 1314	Ujung Seuke.	5° 48.5' N 95° 22.5' E	Fl.W. period 2.5s	279 85	20		
22260 F 1308	Le Meule, near Ujung Tapagajah.	5° 53.9' N 95° 19.8' E	Fl.W. period 5s	95 29	10	White metal framework tower; 82.	Visible 125°-303°.
	RACON		M(--)				
22268 F 1315	Buro.	5° 41.3' N 95° 23.0' E	Fl.W. period 3s	46 14	10	White beacon; 49.	
22272 F 1317	Krueng Raja Baai.	5° 35.0' N 95° 30.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	9		
22273 F 1296	Palau Deudab, Ug Umpee.	5° 36.4' N 95° 11.3' E	Fl.W. period 4s	131 40	10	White fiberglass tower; 33.	Radar reflector.
22276 F 1316	Krueng Raya.	5° 36.8' N 95° 31.8' E	L.FI.W. period 8s fl. 2s, ec. 6s	115 35	12	White beacon; 40.	
22280 F 1314.5	Atjeh River.	5° 35.7' N 95° 19.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	29 9	8	White beacon.	
22284 F 1294	Lhonga.	5° 27.1' N 95° 14.4' E	Fl.(3)G. period 10s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 5.4s	38 12	8	Green light beacon; 38.	
22286 F 1319	Ug. Pidie.	5° 29.8' N 95° 53.3' E	Fl.(3)W. period 20s	197 60	41	White metal framework structure; 131.	
22292 F 1320.2	Sigli, approach.	5° 23.3' N 95° 58.4' E	Fl.W. period 3s	39 12	12	Beacon; 26.	Radar reflector.
22296 F 1293	Pulau Rusa.	5° 16.7' N 95° 12.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	390 119	11	White beacon; 33.	Radar reflector.
22300 F 1321.2	Kruenggeukan, W. breakwater, head.	5° 15.2' N 97° 01.9' E	Fl.(2)G. period 8s		4	Green framework structure; 25.	
22304 F 1321.4	-E. breakwater, head.	5° 15.1' N 97° 02.0' E	Fl.(2)R. period 8s		4	Red framework structure.	
22305 F 1321.7	-W. inner breakwater, head.	5° 14.9' N 97° 01.3' E	Fl.G. period 3s		4		
22307.5 F 1321.5	-Kuala Geukuech Range, front.	5° 14.9' N 97° 01.8' E	Q.W.	49 15	12		

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22308.5 F 1321.51	--Rear, 100 meters 200° from front.	5° 14.5' N 97° 01.7' E	Oc.W. period 4s	59 18	12		
22309 F 1321.6	-Public berth.	5° 14.5' N 97° 02.2' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	62 19	5	Tower; 59.	
22312 F 1321	Geukuch.	5° 14.5' N 97° 02.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s	49 15	12	White beacon.	Radar reflector.
RACON							
22313	-NE.	5° 14.6' N 97° 03.2' E	Fl.R. period 3s	16 5	10	Red metal framework structure; 17.	
22314	SPM.	5° 15.3' N 97° 03.9' E	Fl.Y. period 15s		6	Mooring tower.	
22316 F 1323	Blang Lancang E. breakwater.	5° 13.2' N 97° 06.7' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	9	Beacon.	Radar reflector.
22320 F 1323.2	-W. breakwater.	5° 13.7' N 97° 06.3' E	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	10	Green beacon; 26.	Radar reflector.
22324 F 1323.4	-Inner breakwater.	5° 13.3' N 97° 06.2' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	49 15	10	Beacon.	Radar reflector.
22340 F 1322	-Range, front.	5° 13.0' N 97° 06.0' E	Iso.W. period 2s	131 40	15	White beacon, orange triangular daymark, point up, black bands.	Radar reflector.
22344 F 1322.1	--Rear, 157 meters 205° from front.	5° 12.9' N 97° 05.8' E	Oc.W. period 8s	148 45	18	White beacon, orange triangular daymark, red bands.	Radar reflector.
22352 F 1323.51	--Rear, 170 meters 295° from front.	5° 13.7' N 97° 05.2' E	Oc.W.R.G. period 4s	146 44	W. R. G.	12 8 8	Beacon, red and white bands, orange triangular daymark, point down. W. 000°-278°, R.-301°, G.-000°.
22356 F 1324	Lhokseumawe.	5° 12.4' N 97° 07.9' E	Fl.W. period 3s	72 22	8	White metal framework tower; 43.	Obscured when bearing less than 148°.
22360 F 1326	-Pier, head.	5° 10.7' N 97° 09.0' E	Fl.Y. period 5s	49 15	6	White structure; 49.	
22364 F 1327	Tanjung Jambuair.	5° 15.0' N 97° 29.3' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	144 44	20	White framework tower, white octagonal base; 131.	
RACON							
22366	Platform "NSO-A" RACON.	5° 44.3' N 97° 50.6' E	B(-••)		20		
22367 F 1476.1	Pulau Perak.	5° 41.1' N 98° 56.3' E	Fl.(2)W. period 10s	420 128	16	White concrete tower, black bands.	
22368 F 1327.5	Idi.	4° 57.0' N 97° 46.2' E	Fl.W. period 3s	66 20	8	White metal framework structure; 66.	
22369 F 1327.8	Ujang Peureula.	4° 54.0' N 97° 53.9' E	Fl.(2)W. period 6s	39 12	11	White metal framework structure; 33.	
22372 F 1328	Ujung Peureulak.	4° 51.8' N 97° 54.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	52 16	13	White metal framework mast; 46.	
F.W.R.G.							
				43 13	10	Same structure.	R. (65°), G. (15°), W. (20°)

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22374 F 1329	Tualang AVIATION LIGHT.	4° 43.1' N 97° 50.3' E	Oc.W. period 2s lt. 1.3s, ec. 0.7s	400 122		White radio tower, orange band; 299.	<i>Reported seen at 23M.</i>
22376 F 1330	-Kuala Langsa Range, front.	4° 34.0' N 98° 04.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	10	Beacon, white triangular daymark, point up.	
22380 F 1330.1	-Rear, about 1300 meters 219°54' from front.	4° 33.0' N 98° 03.9' E	Iso.W. period 4s	59 18	12	Beacon, white triangular daymark, point down.	
22384 F 1330.5	-Entrance, N.	4° 33.0' N 98° 04.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	6	Beacon, red square daymark.	
22388 F 1330.6	-Entrance S.	4° 33.0' N 98° 03.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	33 10	6	Beacon, green triangular daymark, point upward.	
22392 F 1330.7	-Kuala Beukah.	4° 32.0' N 98° 01.0' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	65 20	12	White beacon.	
22394 F 1334	Ug. Tamiang.	4° 25.3' N 98° 16.7' E	Fl.(3)W. period 20s	144 44	20	White framework structure; 131.	
22395 F 1337	Pangkalansusu.	4° 07.0' N 98° 12.3' E	Fl.Y. period 4s	23 7	4	SPECIAL Y, beacon, topmark.	
22395.1 F 1337.5	-Panjang.	4° 07.1' N 98° 12.2' E	Fl.Y. period 5s	23 7	4	SPECIAL Y, beacon, topmark.	
SUNGAI DELI APPROACH:							
22396	-Belawan Channel Approach Buoy.	3° 58.0' N 98° 48.0' E	Iso.W. period 6s			SAFE WATER RW, pillar, topmark.	
22400 F 1352	Nipahlarangan.	3° 54.2' N 98° 40.6' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	144 44	17	White metal framework tower; 131.	
RACON							
22404	-Lighted Buoy No. "2".	3° 54.0' N 98° 45.0' E	Fl.R. period 5s			PORT (A) R, can, topmark.	
22408 F 1355	-Belawan.	3° 52.3' N 98° 44.2' E	Fl.G. period 5s	66 20	15	STARBOARD (A) G, beacon.	
-RACON							
22412 F 1355.9	-Entrance Range, front.	3° 50.1' N 98° 44.1' E	Fl.(3)W.R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	39 12	9	Red metal beacon, white bands; R. 000°-170°, W.-215°. 16.	
22416 F 1356	--Beacon II, rear, 1463 meters 187° from front.	3° 49.3' N 98° 44.0' E	Iso.W. period 6s	52 16	10	White framework structure; 39.	Common rear for outer and inner ranges.
22417 F 1356.05	--E.	3° 49.5' N 98° 45.2' E	Fl.Y. period 5s	20 6	4	SPECIAL Y, beacon, topmark.	
22420 F 1356.1	-Inner Range, Beacon III, front, about 914 meters 220° from Beacon II.	3° 48.9' N 98° 43.7' E	Q.(2)W. period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s	39 12	8	White framework structure; 18.	Visible 010°-190°.
22424 F 1362	-Middle Range Beacon IV, front.	3° 48.0' N 98° 43.0' E	Q.(2)W. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	26 8	8	White framework structure.	

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22428 F 1362.1	--Lighted Beacon V, rear, 1280 meters 200°30' from front.	3° 48.0' N 98° 43.0' E	Iso.W. period 4s	49 15	7	White beacon.	Visible 037°-007°.
22429 F 1362.5	-Kuala Deli, entrance.	3° 47.6' N 98° 43.0' E	Fl.G. period 3s	29 9	5	STARBOARD (A) G, beacon, topmark.	
22429.5 F 1362.2	---E.	3° 47.5' N 98° 43.3' E	Fl.Y. period 4s	20 6	4	SPECIAL Y, beacon, topmark.	
22430 F 1367	--On shore.	3° 47.1' N 98° 42.7' E	Fl.W. period 4s	42 13	5	White beacon.	
22431 F 1362.3	--S.	3° 46.9' N 98° 42.8' E	Fl.R. period 2s	29 9	5	PORT (A) R, beacon, topmark.	
22432 F 1364	-Gabion.	3° 47.9' N 98° 43.0' E	Fl.W. period 3s	49 15	8	Tower; 39.	
22436 F 1370	-Belawan, Ocean Quay Range, front.	3° 47.0' N 98° 42.0' E	Fl.W. period 3s fl. 1s, ec. 2s	62 19	6	White framework structure; 62.	2 Fl.R. on end of jetty 0.5 mile E.
22440 F 1370.1	--Rear, 350 meters 238° from front.	3° 47.2' N 98° 41.9' E	Oc.W. period 2s lt. 1.5s, ec. 0.5s	89 27	2	White framework structure; 98.	F.R. close E.
22441 F 1371	-Pertamina, jetty, E. head.	3° 47.5' N 98° 42.5' E	Q.R.	10 3	4	White pile.	
22442 F 1371.2	--W. head.	3° 47.5' N 98° 42.5' E	Fl.R. period 5s	10 3	4	White pile.	
22444 F 1372	Sei Nonang.	3° 47.5' N 98° 40.8' E	Fl.G. period 3s	42 13	6	Green beacon.	
SUNGAI ASAHDAN:							
22448 F 1373	-Nunang.	3° 47.0' N 98° 41.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	5	Red beacon.	
22449 F 1374.5	Tanjung Sibungabunga.	3° 39.2' N 98° 58.9' E	Fl.W. period 3s	69 21	10	White beacon.	
22450 F 1374	Bunga Banks.	3° 46.6' N 99° 04.3' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, topmark.	
22452 F 1375	Pulu Berhala.	3° 46.6' N 99° 30.0' E	Fl.(4)W. period 19s	630 192	30	White metal framework tower; 39.	
22456 F 1375.5	Kuala Bedagai.	3° 30.6' N 99° 13.7' E	Fl.W. period 5s	49 15	10		
INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22460 F 1378	Palau Pandang.	3° 25.6' N 99° 45.5' E	Fl.W. period 5s	206 63	15	White metal framework tower; 39.	
22462 F 1378.5	Pulau Salahnama.	3° 20.4' N 99° 43.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	397 121	12		
22463 F 1378.7	Tg Tiram Range, front.	3° 14.4' N 99° 35.5' E	Fl.W. period 3s	36 11	12	White beacon, white triangular daymark, point up.	
22463.5 F 1378.71	-Rear, 320 meters 164° from front.	3° 14.2' N 99° 35.6' E	Fl.(3)W. period 10s	49 15	12	White beacon, white triangular daymark, point down	
22464 F 1376	Kaula Tanjung Approach.	3° 23.4' N 99° 29.4' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	33 10	6	PORT (A) R, beacon, topmark; 16.	F.R. 3 miles SW. Radar reflector.

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22468 F 1379	Tandjung Tiram.	3° 14.2' N 99° 35.0' E	F.I.R. period 4s	36 11	5	Beacon, red square daymark.	
22470 F 1377	Kuala Tanjung.	3° 22.4' N 99° 28.1' E	Fl.(3)W. period 9s	39 12	12		
	RACON		D(-••)				
22471 F 1379.2	Tg. Tambuntulang.	3° 10.8' N 99° 46.1' E	Fl.(2)W. period 4s	46 14	10	White beacon.	
22476 F 1380	Bagan Asahan.	3° 00.9' N 99° 51.8' E	Fl.W. period 5s	62 19	12	White metal framework tower; 46.	Obscured by trees when bearing less than 180°.
22480 F 1382	-Outer bar.	3° 02.9' N 99° 52.0' E	F.I.R. period 4s fl. 1s, ec. 3s	58 18	10	Red beacon.	
22481 F 1379.5	-Entrance Range, front.	3° 01.5' N 99° 51.9' E	V.Q.(3)W. period 3.5s	43 13	12	Triangular daymark, point up; 29.	
22481.1 F 1379.51	--Rear, 0.84 mile 180° from front.	3° 00.9' N 99° 51.9' E	Fl.W. period 6s	52 16	12	Triangular daymark, point down; 39.	
22482 F 1383	-Range, front.	3° 03.6' N 99° 51.8' E	Q.(2)W. period 3.5s	43 13	12	Triangular daymark, point up; 29.	
22482.1 F 1383.1	--Rear, 0.4 mile 356°41' from front.	3° 03.3' N 99° 51.6' E	Fl.W. period 6s	52 16	12	Triangular daymark, point down; 39.	
22484 F 1386	Pulau Jemur.	2° 52.8' N 100° 34.0' E	Fl.W. period 5s	151 46	18	White metal framework structure; 79.	
22485 F 1383.8	Tanjung Siapi-api.	2° 56.5' N 100° 01.8' E	Fl.W. period 3s	46 14	12	White beacon.	
22486 F 1390	Tg. Leiding.	2° 45.5' N 99° 59.0' E	Fl.(2)W. period 8s	49 15	12		
22487 F 1384.2	Tanjung Datu.	2° 41.5' N 100° 05.9' E	Fl.W. period 5s	46 14	10	White beacon.	
22488 F 1385	Tanjung Lumbalumba.	2° 31.4' N 100° 08.6' E	Fl.W. period 5s	78 24	10	White beacon.	
22489 F 1385.5	Pulau Kantan.	2° 30.7' N 100° 09.7' E	Fl.G. period 4s	62 19	12	Green beacon.	
22492 F 1395	Tandjung Medang.	2° 07.5' N 101° 39.2' E	Fl.W. period 10s	171 52	13	White metal framework tower; 164.	Radar reflector.
22496 F 1395.5	Morong.	1° 55.1' N 101° 46.4' E	Fl.(3)W. period 15s	82 25	13	Beacon; 82.	
22500 F 1396	Raleigh Shoal.	2° 06.9' N 101° 53.4' E	Q.(2)W. period 5s	53 16	11	ISOLATED DANGER BRB, beacon, topmark; 43.	Radar reflector.
	RACON		O(---)				
22504	Amelia Bank Buoy.	2° 13.0' N 105° 18.0' E	L.F.I.R. period 12s			PORT (A) R, can.	
22508 F 1397	Rob Roy Bank.	1° 54.4' N 102° 03.1' E	Fl.(2)W. period 10s	52 16	13	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
	RACON		N(-•)				
22512 F 1402	Tanjong Lebang Range "F", common rear.	1° 41.3' N 101° 47.8' E	Iso.W. period 2s	59 18	14	White metal framework tower; 79.	
22516 F 1402.1	-Front "E", about 300 meters 316° from common rear.	1° 41.2' N 101° 47.8' E	Q.W.	46 14	12	White metal framework tower; 59.	Visible 311°48'-320°12'.
22520 F 1401.9	-Front "G", about 1425 meters 088° from common rear.	1° 41.3' N 101° 47.1' E	Q.W.	43 13	12	White metal framework tower.	Visible 083°48'-092°12'.

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22524 F 1403	Selat Rupat "D".	1° 36.7' N 101° 53.1' E	Iso.W. period 3s	43 13	12 49.	White metal framework tower;	
22528 F 1404	Tanjung Bakau Range "A" common front.	1° 32.0' N 101° 55.0' E	Q.W.	49 15	9 49.	White metal framework tower;	
22532 F 1403.9	-Rear "B", about 770 meters 165° from common front.	1° 31.6' N 101° 55.0' E	Iso.W. period 4s	95 29	12 92.	White metal framework tower;	
22536 F 1404.1	-Rear "C", about 760 meters 271° from common front.	1° 32.0' N 101° 54.5' E	Iso.W. period 4s	95 29	12 92.	White metal framework tower;	Visible 265°-274°12'.
22540 F 1402.5	Selat Bengkalis.	1° 39.1' N 101° 50.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	43 13	12 43.	Green metal framework tower;	
RACON				D(-••) period 30s	5	Azimuth coverage 185°-117°.	
22542 F 1406	Tg. Jati.	1° 35.8' N 102° 00.3' E	L.FI. period 8s	52 16	13		
22544 F 1407	Bengkalis.	1° 28.1' N 102° 06.4' E	Fl.W. period 10s	104 32	16		
22548 F 1408	-Tg. Balai, near Tanjung Labu.	1° 23.0' N 102° 09.0' E	Fl.W. period 7s	39 12	7	White framework structure.	
SUNGAI PAKNING:							
22552 F 1411	-Oil wharf No. "1", N. head.	1° 21.0' N 102° 09.0' E	Fl.R. period 2s	26 8	8	Post; 7.	F.G. on N. and S. end of pier No. 2.
22556 F 1413	Sungai Siak Range, front.	1° 12.7' N 102° 09.8' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	20 6	8	White framework structure; 18.	
22560 F 1413.1	-Rear, 2 kilometers 196° 24' from front.	1° 11.6' N 102° 09.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	36 11	8	White framework structure, white triangular daymark; 33.	
22564 F 1411.9	Selat Lalang Range, front, 180° to rear.	1° 13.3' N 102° 11.6' E	Iso.W. period 2s	49 15	8	Beacon, white triangular daymark, point up.	
22568 F 1412	-Common rear.	1° 13.1' N 102° 11.4' E	Iso.W. period 2s	59 18	8	Beacon, white triangular daymark, point down.	
22572 F 1412.1	Selat Lalang Range, front 270° to rear.	1° 13.0' N 102° 12.0' E	Iso.W. period 2s	49 15	8	Beacon, white triangular daymark, point up.	Visible 210°-270°.
22573 F 1412.6	Selat Panjang, S. of Tanjung Layang.	1° 11.3' N 102° 13.0' E	L.FI.Y. period 15s	33 10	10	SPECIAL Y, beacon, topmark.	
22578 F 1398	Gosong Clark, SE.	1° 42.8' N 102° 24.2' E	Fl.W. period 3s	46 14	12		
RACON				K(-•-)			
22580 F 1413.5	Tanjung Parit.	1° 31.5' N 102° 26.1' E	Fl.W. period 5s	138 42	17	White metal framework tower; 131.	
22582 F 1413.7	Tanjung Sekadi.	1° 15.9' N 102° 30.2' E	Fl.W. period 7.5s	102 31	15		
22584 F 1674	Pulau Iyu Kecil (The Brothers).	1° 11.5' N 103° 21.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	135 41	12 36.	White metal framework tower;	Visible 055°-325°. Obscured by Pulau Iyu Besar.
22584.2 F 1764.1	Karimun Besar.	1° 08.7' N 103° 19.1' E	Q.(9)W. period 15s	20 6	4	W. CARDINAL YBY, beacon, topmark.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22584.4 F 1674.4	-S.	1° 08.1' N 103° 19.2' E	Fl.(2)R. period 10s	20 6	4	PORT (A) R, beacon, topmark.	
22584.6 F 1674.2	-Assan.	1° 08.1' N 103° 18.8' E	Fl.(2)G. period 10s	20 6	4	STARBOARD (A) G, beacon, topmark.	
22584.8 F 1674.3	-Pengunju.	1° 06.8' N 103° 19.0' E	Q.(2)R. period 5s	20 6	4	PORT (A) R, beacon, topmark.	
22586 F 1674.5	Tanjung Piai.	1° 15.5' N 103° 30.6' E	Fl.W. period 3s	49 15	10	White round fiberglass tower on pile.	Radar reflector.
	RACON		M(--)		10		
22587 F 1417.6	Tanjung Sebatak, SE.	1° 02.1' N 103° 28.0' E	Fl.(2)W. period 5s	39 12	12	ISOLATED DANGER BRB, beacon, topmark.	
22588 F 1417.5	Tanjung Rambut.	0° 59.7' N 103° 26.8' E	Fl.(3)W. period 22s	135 41	12	White framework tower; 132.	
22592 F 1694.6	Jangkat.	0° 58.0' N 103° 42.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	122 37	11	White pyramidal tower; 98.	Radar reflector.
SELAT DURIAN:							
22596 F 1418	-Melvill Reef, W. side.	0° 51.9' N 103° 36.5' E	Fl.W. period 5s	36 11	10	White metal beacon; 26.	
22600 F 1420	-Middleburg Rif, N. head.	0° 51.0' N 103° 34.0' E	L.F.I.R. period 8s fl. 2s, ec. 6s	36 11	8	White metal framework tower.	
22602 F 1417.2	Tg. Lubuh.	0° 39.0' N 103° 24.1' E	Fl.W. period 8s	115 35	12	White beacon.	
22604 F 1417	Tanjung Manggung.	0° 48.4' N 103° 08.4' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	19 6	10	White beacon; 49.	
22608 F 1422	-Pulau Pelangkat, on reef.	0° 44.7' N 103° 35.0' E	L.FI.W. period 8s	43 13	10	White metal framework tower; 26.	
22610 F 1426	-Rukan Utara (North Brother).	0° 37.5' N 103° 45.5' E	Fl.W. period 4s	98 30	12	White metal framework tower.	
22612 F 1428	-Rukan Selatan.	0° 32.5' N 103° 46.3' E	Fl.W. period 5s	230 70	21	White skeleton iron tower; 72.	
22616 F 1429	Tanjung Datuk.	0° 00.5' N 103° 48.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	12	White beacon; 82.	
22617 F 1430	Buluh.	1° 00.9' N 103° 55.8' E	F.R.				
22618 F 1772.1	Batu Besar.	1° 09.7' N 104° 08.8' E	Fl.W. period 5s fl. 1s, ec. 4s	30 9	5		
22619 F 1772.15	-No. "3".	1° 09.7' N 104° 09.0' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	5	STARBOARD (A) G, beacon, topmark.	
22619.5 F 1772.2	-No. "4".	1° 09.7' N 104° 09.1' E	Fl.R. period 5s fl. 1s, ec. 4s	16 5	9	PORT (A) R, beacon, topmark.	
SELAT RIAU:							
22620 F 1772	-Karang Galang.	1° 09.6' N 104° 11.5' E	Fl.W. period 6s	33 10	10	White metal beacon, black bands; 33.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22620.5 F 1772.3	-Kabil Range, front.	1° 04.8' N 104° 08.4' E	Iso.W. period 2s	46 14	16	White beacon, triangular daymark, point up.	Fl.(3)R. 6s 4m 5M on dolphin 750 meters S.
22620.6 F 1772.31	--Rear, 0.65 mile 216°54' from front.	1° 04.3' N 104° 08.0' E	Iso.W. period 4s	98 30	16	White beacon, triangular daymark, point down.	
22621 F 1772.4	-South Range, front.	1° 03.2' N 104° 08.5' E	Q.W.	46 14	14	White beacon, triangular daymark, point up.	
22621.5 F 1772.41	--Rear, 325 meters 197° 53' from front.	1° 03.0' N 104° 08.4' E	Oc.W. period 3s lt. 2s, ec. 1s	75 23	15	White beacon, triangular daymark, point down.	
-Tanjung Uban:							
22624 F 1773	--N. pier, head.	1° 05.0' N 104° 13.0' E	F.R.				Private light.
22628	--S. pier, head.	1° 04.0' N 104° 13.0' E	F.R.				Private light.
22632 F 1774	-Pulau Tanjungsau, E. point.	1° 03.0' N 104° 11.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	112 34	7	White metal framework; 36.	Visible 151°-031°.
22636 F 1775	-Pulau Buan.	1° 02.8' N 104° 13.3' E	Fl.W. period 2s fl., ec. 1.5s	39 12	8	White metal framework structure; 33.	
22640 F 1776	-Pulau Loban.	0° 58.8' N 104° 13.8' E	Iso.W.R.G. period 8s	62 19	W. R. G.	9 5 4	Black metal framework structure; W. 290°-046°, G.-089°, R.-140°, W.-176°.
22644 F 1780	--Pulau Tunjuk, W. side front.	0° 57.0' N 104° 12.0' E	Iso.W. period 2s	52 16	11	White triangular daymark, point up.	Visible 175°-185°.
22648 F 1780.1	--Rear, 387 meters 180° from front.	0° 56.4' N 104° 12.4' E	Oc.W. period 3s	75 23	12	White triangular daymark, point down; 66.	Intensified 175°-185°. Lead through N. entrance to Riouw Strait. Partially obscured by trees 188°-267°.
22652 F 1786	-Pulau Terkulai, W. head.	0° 57.1' N 104° 20.6' E	Iso.W. period 4s	75 23	14	White metal framework tower; 66.	Visible 290°-109°30'.
22656 F 1790	-Batu Hitam.	0° 54.4' N 104° 26.6' E	Iso.W. period 2s	85 26	11	White beacon; 33.	
22660 F 1798	-Pulau Pangkil.	0° 48.9' N 104° 21.7' E	Fl.R. period 5s	33 10	12	Red beacon; 49.	Radar reflector.
22664 F 1796	--Range, front.	0° 56.0' N 104° 26.0' E	Fl.W. period 3s	23 7	6	White metal skeleton tower, white triangle daymark; 16.	
22668 F 1796.1	--Rear, 323 meters 004° from front.	0° 56.5' N 104° 26.4' E	L.Fl.W. period 5s fl. 2s, ec. 3s	36 11	4	White metal skeleton tower, white triangle daymark, point down; 23.	
22672 F 1806	-Pulau Mantang.	0° 44.6' N 104° 30.9' E	Fl.W. period 3s	203 62	20	White framework structure; 65.	Visible 269°-162°, except where obscured by islands.
22676 F 1802	-Pulau Karas Kecil.	0° 44.1' N 104° 22.3' E	Fl.W. period 5s	141 43	43	White metal framework tower; 36.	Visible 123°-018°.
22680 F 1807	-Maga Range, Front.	0° 47.4' N 104° 35.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	Wooden framework structure.	
22684 F 1807.1	--Rear, 740 meters 219° from front.	0° 47.0' N 104° 35.2' E	Fl.(2)W. period 10s	46 14	10	Wooden framework structure.	
22692 F 1807.5	Pulau Kambat.	0° 48.5' N 104° 40.2' E	Fl.W. period 3s	16 5	8	Wooden framework structure; 19.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22694 <i>F 1809</i>	Merapas.	0° 56.1' N 104° 55.3' E	Fl.(3)W. period 5s	397 121	22	White metal framework structure; 131.	
22695 <i>F 1808</i>	Karang Heleputan.	0° 37.7' N 105° 08.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	10	White beacon; 33.	

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Section 14

Sumatera and Jawa

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22696 F 1438	Pulau Kentar.	0° 02.0' N 104° 46.8' E	L.FI.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	400 122	26	White metal frame structure; 105.	Visible 121°-001°, except where obscured by islands.
22700 F 1440	Senayang.	0° 02.5' N 104° 39.0' E	Fl.Y. period 3s fl. 1s, ec. 2s	46 14	10	Mast; 13.	
22704 F 1440.2	-NW. side.	0° 03.0' N 104° 38.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	57 17	10	Mast; 19.	
22706 K 0953	Pulau Saya.	0° 46.8' S 104° 56.1' E	Fl.W. period 5s	42 13	11	White beacon.	
22708 K 0954	Pulau Lingga.	0° 18.2' S 105° 00.0' E	Fl.W. period 19s fl. 1s, ec. 18s	184 56	20	White metal framework tower; 33.	Visible 034°-064°, 175°-009°.
22709 K 0956	Daik.	0° 13.6' S 104° 37.9' E	Fl.W. period 3s	39 12	11		
22710 K 0957	Pulau Penuba.	0° 19.5' S 104° 28.0' E	Fl.W. period 3s	43 13	11		
22712 K 0958	Dabo.	0° 30.4' S 104° 34.2' E	Fl.W. period 3s	39 12	11		
22716 K 0981.5	Indragiri River, Tembilahan.	0° 20.0' S 103° 09.3' E	L.FI.W. period 7s	33 10	7	Beacon; 33.	
22720 K 0981	Tanjung Bakau.	0° 20.0' S 103° 47.5' E	Fl.(2)W. period 10s	49 15	12	White beacon; 49.	
22722 K 0980.4	Kuala Enok.	0° 34.1' S 103° 30.0' E	Fl.W. period 5s	44 13	12	White beacon; 33.	
22722.2 K 0980.5	-W. beacon.	0° 33.5' S 103° 28.0' E	Fl.R. period 6s	44 13	12	Red beacon.	
22724 K 0980	Pulau Muci.	0° 32.5' S 104° 01.8' E	F.W.	220 67	21	White framework tower; 70.	Visible 284°-192°.
RACON		M(—) period 20s		15		(3 & 10cm) Azimuth coverage 110°-010°.	
22726 K 0975	Selat Berhala.	1° 01.5' S 104° 21.5' E	Fl.(3)W. period 14s	138 42	18	White metal framework structure; 131.	
22728 K 0976	Berhala.	0° 52.2' S 104° 24.1' E	L.FI.W. period 15s fl. 5s, ec. 10s	82 25	12	White metal skeleton tower; 69.	Visible 237°-147°.
22730 K 0978	-Karang Speke.	0° 36.8' S 104° 06.3' E	Fl.(2)W. period 6s	42 13	12	Beacon.	
22732 K 0968	Muara Sabak.	1° 08.0' S 103° 51.0' E	F.R.	11 3		Wooden pile; 8.	F.R. lights are shown at Simpong Toea and Kampong Baroe.

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
	JAMBI RIVER:						
	-S. Niur:						
22736	--Outer Lighted Buoy.	0° 56.0' S 103° 53.0' E	L.FI.W. period 12s fl. 5s, ec. 7s			Bouy, red and white stripes.	
K 0973	Kuala Niur Range, front.	1° 02.0' S 103° 49.0' E	FI.W. period 6s fl. 1s, ec. 5s	36 11	11		
K 0973.1	-Rear, about 2.8 Kilometers 167°30' from front.	1° 03.0' S 103° 49.4' E	FI.W. period 6s	105 32	14		
K 0931	Tandjung Kampeh.	2° 11.0' S 104° 54.0' E	FI.W. period 5s	52 16	10	White beacon.	
	AIR MUSI:						
K 0932	-Entrance Range, No. "3", front.	2° 14.6' S 104° 55.1' E	FI.W. period 2s	29 9	7	White metal beacon; 16.	Tide gauge. Radar reflector.
K 0932.1	--Rear, No. "4", 1450 meters 214°30' from front.	2° 15.2' S 104° 54.7' E	Oc.W. period 4s	42 13	8	White metal beacon, red band; 30.	Radar reflector.
K 0934	-Inner Range, No. "2", front.	2° 13.1' S 104° 55.8' E	FI.W. period 5s	29 9	8	White post, triangular daymark, point up, on pile structure; 19.	Radar reflector.
K 0934.1	--Rear, No. "1", 1150 meters 005°30' from front.	2° 12.5' S 104° 55.9' E	L.FI.W. period 5s	49 15	8	White post, triangular daymark, point down, on pile structure; 52.	Tide gauge.
	--RACON		M(--)				
K 0936	-Tanjung Buyut.	2° 19.3' S 104° 54.9' E	2 F.R. (vert.)	108 33	6	Radio mast; 98.	
K 0938	-Range, front.	2° 23.0' S 104° 54.0' E	Iso.W. period 2s			Beacon; 33.	
K 0938.1	--Rear, 400 meters 194°30' from front.	2° 12.8' S 104° 54.3' E	FI.W. period 2.5s fl. 1s, ec. 1.5s			Beacon; 49.	
K 0938.4	-Parit Range, front.	2° 26.2' S 104° 56.3' E	FI.W. period 3s fl. 1s, ec. 2s	36 11	8	White beacon; 33.	
K 0938.41	--Rear, 325 meters 154° from front.	2° 26.4' S 104° 56.4' E	Oc.W. period 3s	55 17	10	White beacon, triangular daymark, point down; 49.	Visible 151°-157°.
K 0939	-NE. of Kramat.	2° 31.2' S 104° 56.4' E	FI.R. period 4s	46 14	6	Red and white tower, red square daymark; 33.	
K 0939.2	-Singris Island.	2° 34.3' S 104° 56.7' E	FI.R. period 5s	33 10	7	PORT (A) R, beacon, topmark; 33.	
K 0939.6	-Sedumara.	2° 36.4' S 104° 57.4' E	L.FI.R. period 6s fl. 2s, ec. 4s		10	PORT (A) R, beacon, topmark; 33.	
K 0939.64	-Pegadahan.	2° 37.0' S 104° 56.5' E	L.FI.W. period 7s			White beacon; 33.	
K 0939.7	-Ayam Island.	2° 39.9' S 104° 56.6' E	FI.G. period 3s			STARBOARD (A) G, beacon; 56.	
K 0939.8	-Upang.	2° 42.7' S 104° 57.4' E	FI.R. period 5s fl. 0.5s, ec. 4.5s	39 12	7	White beacon, red square daymark; 33.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22812 K 0940	-E. bank S. of Vpang.	2° 45.7' S 104° 57.3' E	Fl.R. period 2s	10 3	6	White framework tower.	
22816 K 0940.4	--W. bank.	2° 46.0' S 104° 56.6' E	Fl.W. period 5s		8	White triangular daymark.	
22820 K 0941	-N. of Selat Jaran.	2° 47.6' S 104° 56.2' E	F.W.	26 8	8	White framework tower.	
22824 K 0941.4	-Jaran Range, front.	2° 48.8' S 104° 54.6' E	Fl.W. period 3s	33 10	6	White beacon, white triangular daymark, point up; 33.	
22828 K 0941.41	--Rear, 475 meters 218°21' from front.	2° 49.0' S 104° 54.5' E	Fl.W. period 4s	52 16	8	White beacon, triangular daymark, point down; 49.	
22832 K 0942	-Burung.	2° 51.5' S 104° 53.7' E	L.Fl.G. period 8s fl. 3s, ec. 5s	33 10	6	STARBOARD (A) G, beacon, topmark; 33.	
22836 K 0943	-N. of Ayer Kumbang.	2° 54.7' S 104° 54.1' E	Fl.R. period 5s	46 14	8	White metal framework tower, concrete base; 26.	
22840 K 0943.2	-Ayer Kumbang.	2° 55.3' S 104° 54.1' E	Fl.R. period 5s	46 14	6	White metal framework tower, concrete base; 35.	
22844 K 0943.4	-N. of Palau Banjar.	2° 56.9' S 104° 52.2' E	L.Fl.W. period 5s fl. 2s, ec. 3s	52 16	6	Beacon.	
22848 K 0945	-Mariana, No. "3".	2° 57.0' S 104° 53.2' E	L.Fl.W. period 8s	46 14	8	White framework tower, concrete base; 36.	
22852 K 0947	-W. bank, No. "2".	2° 58.4' S 104° 51.1' E	Iso.W. period 6s	46 14	9	White framework tower; 36.	Notice board.
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INDONESIA (BANGKA)							
22856 K 1000	Tanjung Ular.	1° 57.6' S 105° 07.6' E	Fl.W. period 19.5s	66 20	19	White metal framework structure.	
22860 K 1001	Frederick Hendrik Rocks, entrance to Selat Banka.	1° 58.0' S 104° 57.2' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon.	Reported Fl.W. 4s (1987).
22862 K 1001.5	Ujung Batakarang, Sumatera.	1° 59.3' S 104° 42.7' E	Fl.W. period 5s	69 21	13	Beacon.	
22864 K 0998	Tg. Kelian.	2° 05.1' S 105° 07.9' E	Fl.W. period 5s	125 38	20	Stone tower, upper part red, lower part white; 164.	Visible from shore (Tg. Puni)-160°.
22868 K 0996	Muntok.	2° 04.5' S 105° 09.5' E	Fl.W. period 3s	105 32	20		
22872 K 0993	Tg. Selokan.	2° 24.0' S 105° 37.0' E	Fl.(3)G. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	33 10	6	Green beacon.	
22876 K 0992	Pulau Pelapasan.	2° 23.3' S 105° 45.0' E	Fl.(3)W. period 30s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 19.5s	217 66	21	White metal tower; 115.	Partially obscured eastward by other Nanka Islands.
RACON				NK(- • - • -) period 120s		16	
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INDONESIA (BANGKA)							
22878 <i>K 0991.3</i>	Tanjung Bedawu.	2° 35.5' S 105° 53.8' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14		
22880 <i>K 0994</i>	Karang Brom-Brom.	2° 12.2' S 105° 20.0' E	Fl.R. period 5s	49 15	7	Red beacon; 33.	
22884 <i>K 0991</i>	Tanjung Tapa.	2° 41.0' S 105° 47.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	52 16	6	Green beacon, green cone topmark.	
22896 <i>K 0990</i>	Tanjung Lelari.	2° 49.0' S 105° 57.0' E	Fl.R. period 10s	43 13	12	Red tower.	
22904 <i>K 0988</i>	Pulau Besar.	2° 52.7' S 106° 08.5' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	200 61	19	White octagonal framework tower, brown top, white cupola; 187.	Obscured when bearing more than 107° by Tanjung Lelari.
22908 <i>K 0984</i>	Toboali.	3° 00.9' S 106° 26.8' E	Fl.W. period 5s	105 32	16	White tower.	F.R. on radio mast 4 miles ENE.
22912 <i>K 0985</i>	Melvill Bank.	3° 02.4' S 106° 15.2' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	7	STARBOARD (A) G, beacon, topmark; 39.	Radar reflector.
22914 <i>K 0986</i>	E. Bank.	3° 00.5' S 106° 18.6' E	Fl.R. period 5s	49 15	10	PORT (A) R, beacon, topmark; 33.	Radar reflector.
22916 <i>K 0983</i>	-Pulau Maspuri (Lucipara).	3° 13.2' S 106° 13.2' E	Fl.W. period 5s	131 40	18	White metal framework structure; 157.	
22924 <i>K 0982</i>	Dapur.	3° 08.2' S 106° 30.8' E	Fl.W. period 10s	135 41	18	White metal framework structure; 46.	
RACON		D(-••)					
22926 <i>K 0981.9</i>	Tanjung Baginda.	3° 05.1' S 106° 44.3' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	75 23	14		
22928 <i>K 1011</i>	Karang Perleng.	2° 26.9' S 106° 28.7' E	Fl.W. period 5s	44 13	12	White beacon.	
22932 <i>K 1012</i>	Tanjung Berikat.	2° 34.3' S 106° 50.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	151 46	15	White metal tower; 98.	Visible 090°-000°.
22933 <i>K 1012.5</i>	Berikat.	2° 28.0' S 106° 58.6' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	13	White beacon.	
22934 <i>K 1010.7</i>	Pulou Beboear.	2° 17.3' S 106° 26.7' E	Fl.(3)W. period 10s	141 43	12	Beacon.	
22936 <i>K 1010.5</i>	Karang Teali.	2° 13.9' S 106° 17.2' E	Fl.G. period 4s	49 15	6	STARBOARD (A) G, beacon, topmark; 33.	
22940 <i>K 1009</i>	Tg. Bunga.	2° 08.0' S 106° 11.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	98 30	8	White beacon; 65.	
22944 <i>K 1010</i>	Karang Gosong.	2° 08.3' S 106° 13.4' E	Fl.G. period 5s	43 13	6	STARBOARD (A) G, beacon, topmark.	
22946 <i>K 1008</i>	Pangkal Pinang Range, front.	2° 05.7' S 106° 10.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White triangular daymark, point up.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BANGKA)							
22946.5 K 1008.1	-Rear, 926 meters 283°52' from front.	2° 05.6' S 106° 09.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	7	White triangular daymark, point down.	
22948 K 1007	Karang Merah.	2° 01.0' S 106° 15.0' E	Fl.(2)G. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	39 12	8	Green beacon.	Radar reflector.
22952 K 1005	Tg. Raja.	1° 53.9' S 106° 11.1' E	Fl.W. period 6s	98 30	14	White beacon.	Radar reflector.
22956 K 1004	Tg. Tuing.	1° 36.0' S 106° 03.0' E	Fl.W. period 6s	164 50	18	White beacon.	Radar reflector.
22957 K 1005.4	Karang Hidragraf Timur.	2° 01.2' S 106° 32.4' E	Fl.W. period 4s	42 13	12	White fiberglass tower; 33.	Radar reflector.
22958 K 1005.7	Karang Van Sittard.	2° 11.5' S 106° 45.1' E	Fl.(2)W. period 5s	42 13	12	ISOLATED DANGER BRB, beacon, topmark.	
22960 K 1006	General Elliot Reef.	2° 04.0' S 106° 18.8' E	L.Fl.W. period 18s	49 15	11	White metal framework tower; 33.	Radar reflector.
22964 K 1006.5	Kg. Miang.	2° 05.0' S 106° 17.5' E	Fl.R. period 4s	49 15	11	Red beacon, red square daymark; 33.	
RACON		D(- • •)		15		(3 & 10cm) Azimuth coverage 340°-100°.	
22968 K 1002	Teluk Klabat, Pulau Penyusu.	1° 31.8' S 105° 41.3' E	Fl.W. period 7.5s	118 36	14	White metal tower; 131.	
22969 K 1003	-Mantong Range, front.	1° 37.4' S 105° 44.0' E	Q.W.	39 12	12		Radar reflector.
22969.1 K 1003.1	--Rear.	1° 37.6' S 105° 44.2' E	Iso.W. period 4s	105 32	12		

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INDONESIA (BELITUNG)							
22972 K 1020	Pulau Simedang.	3° 19.1' S 107° 12.8' E	Fl.(4)W. period 20s	200 61	20	White 16-sided metal tower; 187. Radiobeacon.	
22972.2 K 1020.5	Karang Batu Malang.	3° 15.0' S 107° 28.2' E	Fl.W. period 5s	43 13	12	White beacon.	
22972.25 K 1020.7	Kennedy Island.	3° 20.3' S 107° 42.2' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14		
22972.3 K 1021.6	Karang-Karang Baginda.	3° 09.5' S 107° 02.5' E	Fl.G. period 7s	49 15	12	Green beacon.	
22972.5 K 1021.8	Batu Medang.	3° 22.2' S 106° 55.7' E	Fl.W. period 6s	49 15	13	White beacon.	
22973 K 1013	Karang Suji.	3° 34.7' S 106° 55.3' E	Fl.(2)W. period 10s	39 12	12		
22974 K 1021	Karang Genting.	3° 33.1' S 107° 41.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	11		
22974.5 K 1021.5	Pulau Kebatu.	3° 47.8' S 108° 03.0' E	Fl.W. period 5s	49 15	13	White beacon.	

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INDONESIA (BELITUNG)							
22975 K 1024.2	Karang Tominkor.	2° 55.8' S 107° 07.5' E	Fl.W. period 3s	43 13	12	White beacon.	
22975.5 K 1024.1	Karang Pandan.	2° 53.2' S 107° 12.4' E	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	43 13	12	ISOLATED DANGER BRB, beacon, topmark.	
22976 K 1024	Tanjung Ajer Lantjoer.	2° 53.0' S 107° 20.7' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	203 62	21	White metal tower; 88.	
22976.5 K 1024.05	Langir Island.	2° 48.3' S 107° 22.2' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14		
22977 K 1024.5	Pu Celaka.	2° 52.3' S 107° 01.0' E	Fl.(2)W. period 8s	105 32	15	White beacon; 98.	Obscured 218°-322°.
22977.5	Selemar.	2° 59.3' S 107° 06.6' E	Fl.G. period 5s	46 14	13	Green beacon.	
22978 K 1025	Tg. Murung.	3° 02.0' S 106° 53.7' E	Fl.W. period 10s	295 90	10	White beacon.	
22980 K 1022	Kasenga.	3° 02.7' S 107° 20.8' E	Fl.W. period 5s	66 20	12	Beacon, red and white bands; 59.	
	RACON		K(--)				

PULAU BELITUNG:

22984 K 1030	-Pulau Langkuas.	2° 32.1' S 107° 37.2' E	Fl.W. period 7.5s	200 61	20	White metal tower; 187.	Visible 003°-267°, except where obscured by islands.
22988 K 1032	-NE. Coast.	2° 37.5' S 108° 12.5' E	Fl.(2)W. period 8s	39 12	11	White metal framework structure; 33.	Obscured in places by trees.
22990 K 1410.5	-Manggar.	2° 50.8' S 108° 17.6' E	Fl.W. period 5s	72 22	14	White beacon.	
22992	-Buoy.	2° 42.0' S 107° 31.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s			Red and white stripes.	Radar reflector.
22998 K 1028.8	Tanjungpandan Harbor.	2° 44.8' S 107° 37.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	79 24	18	White beacon.	
23000 K 1028	-Tanjung Pandan.	2° 44.1' S 107° 35.7' E	Q.(2)G. period 8s	43 13	12	Green metal framework tower; 33.	Obscured 328°-064°.
23002 K 1028.7	-Beacon.	2° 43.9' S 107° 35.5' E	Fl.R. period 7s	23 7	6	PORT (A) R, beacon.	

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INDONESIA (SUMATERA-EAST COAST)

23004 K 0928	Panjurit.	5° 53.2' S 105° 47.2' E	Fl.(3)W. period 8s	177 54	18	White beacon; 19.	
	RACON		M(--)				
23008 K 0928.5	Dau Island.	5° 52.0' S 105° 46.0' E	Fl.R. period 4s	26 8	6	Red beacon.	

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INDONESIA (SUMATERA-EAST COAST)							
23009 K 0928.55	-Off SW. head.	5° 52.5' S 105° 45.8' E	Q.(6)+L.FI.W. period 15s	33 10	8	S. CARDINAL YB, beacon, topmark.	
23009.2 K 0928.6	Gosong Barak.	5° 52.2' S 105° 46.5' E	Q.Y.	33 10	6	SPECIAL Y, beacon, topmark.	
23009.4 K 0928.65	Tanjung Katila.	5° 51.8' S 105° 45.5' E	FI.G. period 3s		4	STARBOARD (A) G, beacon, topmark.	
23009.6 K 0928.7	Bakauhuni.	5° 52.2' S 105° 45.1' E	FI.(2)G. period 5s	33 10	6	STARBOARD (A) G, beacon, topmark.	
23012 K 0929	Kelapa Island.	5° 52.0' S 105° 45.0' E	FI.(2)R. period 6s	29 9	6	Red beacon.	
23013 K 0929.2	-SW head.	5° 52.6' S 105° 45.2' E	V.Q.(6)+L.FI.W. period 10s	33 10	8	S. CARDINAL YB, beacon, topmark.	
23013.5 K 0929.3	Karang Ujung Kanggalan.	5° 47.6' S 105° 48.5' E	FI.W. period 5s	43 13	12	White beacon.	
23014 K 0929.5	Pulau Mundu.	5° 40.8' S 105° 50.2' E	FI.W. period 6s	75 23	16	White beacon.	
23015 K 0929.6	Maginggai, S. of Tg. Penet.	5° 21.3' S 105° 49.2' E	FI.W. period 3s	46 14	11	White beacon.	
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INDONESIA (SUMATERA-SOUTH COAST)							
23016 K 0927	Tanjung Tua.	5° 54.2' S 105° 43.2' E	FI.(3)W. period 10s	164 50	12	White metal framework tower; 49.	
23020 K 0926.5	Serdang.	5° 49.2' S 105° 23.4' E	FI.(3)W. period 10s	202 62	21	Red lantern on white framework tower; 131.	
23024 K 0926	Palau Sebuku, Cukuh Banding.	5° 50.9' S 105° 32.0' E	FI.W. period 5s	116 35	11	White metal framework tower;	Visible 095°-324°. 33.
23028 K 0925	Pulau Tiga.	5° 49.0' S 105° 33.1' E	FI.(2)W. period 6s	98 30	13	ISOLATED DANGER BRB, beacon, topmark; 20.	
23036 K 0923.5	Ujung Cukucimanuk.	5° 39.4' S 105° 28.2' E	FI.(2)W. period 7s	75 23	10	White beacon; 49.	
23040 K 0923	Cendung Laut.	5° 33.8' S 105° 20.7' E	FI.G. period 5s fl. 0.5s, ec. 4.5s	288 88	7	Green metal framework structure; 39.	
23044 K 0922	Koeala.	5° 27.5' S 105° 19.0' E	FI.W.R. period 5s	134 41	20	White metal framework tower, white triangular daymark; 20.	R. 052°-057°, W.-067°, R.-072°.
23048 K 0920	Tanjungkarang-Telukbetung, reef.	5° 28.1' S 105° 16.5' E	FI.(2)W. period 10s	60 18	7	Red metal framework tower; 42.	
23052 K 0920.5	-Kunjit.	5° 26.8' S 105° 16.8' E	FI.W. period 3s	144 44	18	Beacon; 16.	
23056 K 0922.4	-Panjang.	5° 28.0' S 105° 19.0' E	F.R.	36 11	6	White metal framework structure; 30.	Often obscured by moored vessels.
23058 K 0922.2	--Entrance, N. side.	5° 27.9' S 105° 19.0' E	FI.R. period 2s fl. 0.5s, ec. 1.5s	33 10	11		
23060 K 0922.6	--S. side.	5° 28.0' S 105° 18.7' E	FI.G. period 5s fl. 0.5s, ec. 4.5s	30 9	4	STARBOARD (A) G, beacon, topmark.	Radar reflector.
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INDONESIA (SUMATERA-SOUTH COAST)							
23064 K 0923.2	-Maitem.	5° 35.8' S 105° 15.2' E	Fl.W. period 8s	138 42	18	White structure.	
23076 K 0914	Tg. Cukuhbalambing.	5° 55.6' S 104° 33.5' E	Fl.(2)W. period 10s	207 63	20	White metal tower, dwelling; 190. Visible 276°-138°, obscured by trees on Betna (Little Fortune) Island 105°-108°.	
	RACON		B(-•••)				
23080 K 0824	-Cocos Islands.	12° 05.0' S 96° 53.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	19 6	8	Metal framework structure; 23.	
23086 K 0911	Ug. Cukubatuberagam.	5° 38.4' S 104° 18.0' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16		
23088 K 0910	Ug. Walor.	5° 12.7' S 103° 54.3' E	F.W.	138 42	17	White metal framework structure; 131.	
23092 K 0906	Krui, on Salobu Point.	5° 11.0' S 103° 56.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	116 35	7	White metal framework tower; 42.	Visible 044°-123°. F.G. shown from W. mole, F.R. from E. mole.
23096 K 0904	Teluk Krui, Pulau Pisang.	5° 07.3' S 103° 51.1' E	L.Fl.W. period 15s	250 76	12	White metal framework tower; 102.	Visible 270°-150°.
23098 K 0900	Tanjung Linau.	4° 51.0' S 103° 24.5' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	98 30	13		
23099 K 0898	Tanjung Bandar.	4° 48.5' S 103° 20.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	12	White metal framework tower; 53.	
23100 K 0897	Tanjung Manna.	4° 29.0' S 102° 54.0' E	Fl.(3)W. period 15s	98 30	13		
23101 K 0895	Pulau Enggano.	5° 20.9' S 102° 17.3' E	Fl.(4)W. period 20s	197 60	20	White metal framework structure; 131.	
23101.5 K 0895.4	-Beacon.	5° 20.4' S 102° 17.3' E	Fl.W. period 5s	39 12	12	White.	

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INDONESIA (SUMATERA-WEST COAST)							
23101.7	Pulau Mega.	3° 59.9' S 101° 03.0' E	Fl.W. period 10s	108 33	16	White beacon.	
PULAU BAAI:							
23102 K 0885.5	-Range, front.	3° 55.4' S 102° 17.5' E	Q.W.	26 8	8	White beacon, white triangular daymark, point up.	
23102.2 K 0885.51	--Rear, 270 meters 145°30' from front.	3° 55.4' S 102° 17.6' E	Fl.W. period 3s	39 12	8		
23102.4 K 0885	-W. breakwater, head.	3° 53.9' S 102° 16.5' E	Fl.G. period 3s	26 8			
23102.6 K 0885.2	-E. breakwater, head.	3° 53.9' S 102° 16.6' E	Fl.R. period 2s	26 8			

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INDONESIA (SUMATERA-WEST COAST)							
	BENGKULU:						
23104 <i>K 0884</i>	-Pulau Tikus.	3° 50.5' S 102° 10.9' E	Iso.W. period 10s	109 33	16	Red and white metal framework tower; 98.	
23108 <i>K 0893</i>	-Lempuyang.	3° 49.8' S 102° 17.3' E	Q.(3)W. period 10s	56 17	10	White metal framework structure; 49.	Radar reflector.
23112	Serangai.	3° 25.0' S 101° 53.7' E	Fl.W. period 5s	69 21	14	White beacon.	
23115 <i>K 0883.65</i>	Tg. Bio.	3° 20.5' S 100° 28.0' E	Fl.W. period 4s	69 21	13	White beacon.	Radar reflector.
23116	Simonga.	3° 15.8' S 100° 34.3' E	Fl.W. period 8s	135 41	18	White structure.	
23120 <i>K 0883.6</i>	P. Silau.	3° 12.9' S 100° 17.9' E	Fl.W. period 5s	69 21	13	White beacon.	Radar reflector.
23124 <i>K 0883.7</i>	Sanggingi.	3° 07.8' S 100° 28.6' E	Fl.W. period 5s	46 14	12	White beacon.	
23126 <i>K 0883.55</i>	Tg. Laggaisao.	3° 02.5' S 100° 27.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	13	White beacon.	
23128 <i>K 0881</i>	Mukomuko.	2° 33.0' S 101° 05.0' E	Fl.W. period 5s	82 25	12	White beacon.	
23132 <i>K 0883</i>	Sikakap Strait.	2° 46.5' S 100° 13.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	10	White beacon; 19.	
23134	-N. side.	2° 46.5' S 100° 13.0' E	Fl.W. period 3s	49 15	10		
23135	Pulau Nusa.	2° 51.5' S 100° 09.0' E	Fl.W. period 4s	39 12	12	White beacon.	
23135.5 <i>K 0879</i>	Tg. Pinangpinang.	2° 30.0' S 99° 59.4' E	Fl.W. period 5s	39 12	11	White beacon.	
23135.7	Tg. Kinapet.	2° 24.1' S 99° 51.3' E	Fl.W. period 5s	69 21	14	White beacon.	
23136 <i>K 0878.1</i>	Palau Sipura.	2° 11.1' S 99° 43.8' E	Fl.W. period 5s	46 14	6	White framework tower; 39.	
23137 <i>K 0878</i>	Bukit Siiban.	2° 10.5' S 99° 43.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	79 24	14	White fiberglass structure; 33.	Radar reflector.
23138 <i>K 0877.8</i>	-Siburu.	1° 59.8' S 99° 35.9' E	Fl.W. period 5s	46 14	12	White beacon.	
23140 <i>K 0880</i>	Pulau Katangkatang.	1° 53.5' S 100° 33.8' E	Fl.(3)W. period 22s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 15s	72 22	13	White metal framework; 65.	
23142 <i>K 0880.2</i>	Gosong Sumedang.	1° 50.3' S 100° 45.8' E	Fl.W. period 3s	43 13	11	White beacon.	
23144 <i>K 0877</i>	Siberut Bay.	1° 35.9' S 99° 12.2' E	Fl.W. period 7s	147 45	15	White framework tower; 39.	
23148 <i>K 0877.5</i>	-Tg. Sikabai.	1° 35.7' S 99° 15.1' E	Fl.W. period 5s	46 14	12	White beacon.	
23150 <i>K 0877.2</i>	--Muarasiberut.	1° 35.7' S 99° 12.7' E	F.R.	26 8	2	Beacon; 6.	

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INDONESIA (SUMATERA-WEST COAST)							
23151	-Simalepet.	1° 33.8' S 99° 11.9' E	Fl.W. period 5s	49 15	12	White beacon.	
23152	-Sikabaloan. K 0876	1° 06.9' S 99° 00.0' E	Fl.W. period 7s	42 13	7	White beacon; 39.	
23152.5	-Tabekat Bay.	1° 04.8' S 98° 57.3' E	Fl.W. period 5s	49 15	12	White beacon.	
23153	Tg. Sigep. K 0875.7	0° 54.9' S 98° 54.2' E	Fl.W. period 5s	46 14	16		
23153.5	Tg. Sakaladat. K 0876.2	1° 11.5' S 98° 36.3' E	Fl.W. period 4s	69 21	13	White beacon.	Radar reflector.
23153.8	Pulau Ngiau. K 0877.6	1° 51.6' S 99° 04.4' E	Fl.W. period 5s fl. 1s, ec. 4s	108 33	16	White beacon.	
23154	Pulau Karaba Kecil. K 0875	1° 36.4' S 100° 32.8' E	Fl.(3)W. period 20s	144 44	18		
23156	Pulau Nuamuk, E. side. K 0874	1° 16.0' S 100° 18.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	150 46	7	White skeleton metal tower hidden by palm trees; 102.	Partially obscured within short distance of island from 033°- 062°, and within 1 mile from 099°-146°.
23158	Pulau Brintanggar. K 0873	1° 09.0' S 100° 19.5' E	Fl.W. period 5s	381 116	10	White framework tower; 49.	
23158.5	Pulau Sirandah. K 0872.5	1° 07.4' S 100° 19.9' E	Fl.W. period 3s	39 12	12		
23159	Gosong Gadang. K 0861.5	1° 03.1' S 100° 15.8' E	Fl.W. period 3s	56 17	10	Beacon.	
23160	Marlbro Reef. K 0862	1° 02.3' S 100° 20.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	12	Red beacon; 39.	
RACON							
			B(-•••)				
23161	Teluk Bungus. K 0872	1° 02.6' S 100° 23.4' E	Fl.W. period 3s	56 17	6	Beacon.	
23162	-Karang Sandung. K 0851	1° 03.3' S 100° 23.3' E	Q.(2)W. period 5s	59 18	12	ISOLATED DANGER BRB, beacon, topmark.	
23162.2	-Ujung Passar Cindakir. K 0851.5	1° 03.4' S 100° 23.8' E	Fl.R. period 2s	46 14	11	PORT (A) R, beacon.	Radar reflector.
23162.4	-Passar Batung. K 0852	1° 03.8' S 100° 24.3' E	Fl.W. period 3s	46 14	11	White beacon.	Radar reflector.
23162.6	-Ujung Sadah. K 0852.5	1° 04.0' S 100° 23.5' E	Fl.G. period 3s	46 14	11	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23162.8	-Ujung Cino. K 0853	1° 04.2' S 100° 23.9' E	Fl.G. period 5s	46 14	11	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23164	Ujung Batumandi (Ujung Sungei Bramei). K 0864	1° 02.5' S 100° 22.8' E	Fl.(3)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 14.7s	528 161	21	White tower, stone base; 46.	
RACON							
			M(--)				
23165	Pulau Toran. K 0858	1° 02.4' S 100° 10.2' E	Fl.W. period 4s	56 17	12	White metal framework tower; 49.	
23168	Beting Tampek. K 0871	1° 01.0' S 100° 23.0' E	Fl.G. period 5s	34 10	8	Beacon.	
23172	Teluk Bayur. K 0868	1° 00.0' S 100° 22.0' E	Fl.R. period 5s	20 6	7	White metal framework.	

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INDONESIA (SUMATERA-WEST COAST)							
23176 <i>K 0870</i>	Karsik Reef, SW. head.	1° 00.1' S 100° 22.2' E	Fl.G. period 4s	23 7	5	White beacon; 13.	
23180 <i>K 0870.2</i>	-NE. head.	1° 00.0' S 100° 22.3' E	L.Fl.W. period 7s fl. 2s, ec. 5s	23 7	6	Beacon; 13.	
23184 <i>K 0861</i>	Pulau Pisang.	0° 59.7' S 100° 20.1' E	Fl.G.	33 10	10	White metal framework tower; 33.	
23188 <i>K 0860</i>	Padang.	0° 58.0' S 100° 21.0' E	Fl.W. period 5s	30 9	10	White metal framework tower; 13.	
23190 <i>K 0859</i>	Karang Sipakal.	0° 55.7' S 100° 14.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	30 9	10	Beacon.	
23192 <i>K 0842</i>	Pulau Bodjo.	0° 38.5' S 98° 30.5' E	Fl.W. period 4s	391 119	21	White metal tower, stone dwelling; 197.	Visible 202°-113°.
23196 <i>K 0850</i>	Pulau Karsik.	0° 36.0' S 100° 04.0' E	Fl.(4)W. period 15s	105 32	16	White metal structure; 102.	Visible 246°-163°, except where obscured by the islands of Oedjoeng, Tangah, and Anso.
23198 <i>K 0845</i>	Ingaris.	0° 28.9' S 99° 51.2' E	Fl.(2)W. period 8s	39 12	13	White beacon.	
23200 <i>K 0846</i>	Pulau Ujung.	0° 25.5' S 99° 53.5' E	Fl.W. period 5s	98 30	12	White metal framework tower; 46.	
23201 <i>K 0844</i>	Moller Reef.	0° 04.3' S 99° 23.9' E	Fl.(3)W. period 15s	39 12	10		
23202 <i>F 1234</i>	Pulau Marit.	0° 00.9' N 98° 15.7' E	Fl.W. period 4s	49 15	15		
23204 <i>K 0838</i>	Pulau Sigata.	0° 07.5' S 98° 12.0' E	V.Q.(4)W. period 3s	382 116	26	White metal framework tower; 115.	Obscured by Pulo Simuk 94°- 102° and by Tanjung Hatik on bearings less than 348°, partially obscured 183°- 222°.
23206 <i>K 0838.5</i>	Pulau Simuk.	0° 05.0' S 97° 51.2' E	Fl.W. period 5s	46 14	12	Beacon.	Radar reflector.
23208	Pulutello.	0° 03.6' S 98° 16.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	23 7	6	White framework tower; 20.	
23209 <i>F 1235</i>	Pulau Pini.	0° 08.3' N 98° 31.3' E	Fl.W. period 8s	138 42	16	White framework tower; 98.	
23209.2 <i>F 1235.5</i>	-Tg. Simanusu.	0° 10.2' N 98° 47.5' E	Fl.W. period 4s	102 31	18	White beacon.	
23209.5 <i>K 0838.7</i>	Pulau Pono.	0° 06.5' S 98° 18.0' E	Fl.W. period 5s	46 14	13	Beacon.	Radar reflector.
23210 <i>F 1237</i>	Karang Ular.	0° 05.2' N 98° 56.7' E	Fl.W. period 4s	49 15	15		
23212 <i>F 1236</i>	Pulau Pangkal.	0° 08.3' N 99° 17.1' E	Oc.W. period 3s lt. 2s, ec. 1s	187 57	19	White metal framework tower; 26.	
23216 <i>F 1236.5</i>	Air bangis.	0° 11.1' N 99° 22.1' E	Fl.W. period 4s	33 10	6	White metal framework structure.	
23220 <i>F 1238</i>	Pulau Temang.	0° 21.8' N 99° 05.4' E	L.Fl.W. period 9s fl. 3s, ec. 6s	213 65	20	White metal framework tower; 72.	Visible 337°-217°.

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INDONESIA (SUMATERA-WEST COAST)							
23224 <i>F 1241</i>	Natal.	0° 33.0' N 99° 06.0' E	Fl.W. period 3s	49 15	6	White beacon.	
23224.5 <i>F 1242</i>	Karang Bayang.	0° 34.4' N 98° 59.3' E	Fl.W. period 5s	43 13	13	ISOLATED DANGER BRB, beacon, topmark.	
23225 <i>F 1242.5</i>	Sikarakara.	0° 36.6' N 99° 03.2' E	Fl.W. period 5s	42 13	12	White beacon.	
23228 <i>F 1244</i>	Pulau Labu, (Sidakah).	0° 51.6' N 98° 56.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	213 65	16 49.	White metal framework tower;	Visible 298°-205°. Radar reflector.
23232 <i>F 1255</i>	Teluk Dalam.	0° 32.6' N 97° 49.0' E	Fl.W. period 5s	651 198	19		
23236 <i>F 1255.2</i>	-Pier, head.	0° 33.9' N 97° 48.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	105 32	13		
23238 <i>F 1254.6</i>	Legundi.	0° 34.5' N 97° 44.0' E	Fl.W. period 6s	42 13	12	White beacon.	
23239 <i>F 1254.5</i>	T Soahebohu.	0° 35.2' N 97° 40.5' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	114 35	16	White beacon.	
23240 <i>F 1254</i>	Pulau Hinaka.	0° 52.0' N 97° 20.0' E	Fl.W. period 5s	178 54	12	White metal skeleton tower; 105.	Obscured 117°-126°, within distance of 9 miles obscured by islets in some places.
23244 <i>F 1254.2</i>	-SE. side.	0° 52.0' N 97° 20.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	33 10	5	Mast; 20.	
23244.2 <i>F 1254.4</i>	Tg Sirombu.	0° 56.2' N 97° 24.2' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	104 32	16	White beacon.	
23245.5 <i>F 1256</i>	Ug Sumabawa.	0° 48.8' N 97° 54.2' E	Fl.(4)W. period 17s fl. 0.3s, ec. 5s	72 22	13	White beacon.	
23246 <i>F 1257</i>	Punau Sumabawa.	0° 54.4' N 98° 00.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	108 33	16 98.	White metal framework tower;	Radar reflector.
23247 <i>F 1262.4</i>	Karang Pandjang.	1° 03.0' N 98° 18.5' E	Q.(6)+L.Fl.W. period 15s	39 12	12	S. CARDINAL YB, beacon, topmark.	
23247.5 <i>F 1253</i>	Seuba.	1° 10.0' N 97° 17.5' E	Fl.W. period 4s	69 21	14		
23248 <i>F 1248</i>	Tandjung M'ba'a.	1° 19.0' N 97° 36.0' E	Fl.W. period 5s	247 75	22 69.	White metal skeleton structure;	Visible from 145°, through S., until obscured by Tanjung Lembrau.
23252 <i>F 1248.4</i>	Gunong Sitoli.	1° 18.0' N 97° 36.0' E	F.R.	8 2	2	Flagstaff.	Occasional.
23256 <i>F 1248.2</i>	-Harbor.	1° 18.2' N 97° 36.2' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	33 10	6		
23258 <i>F 1249</i>	Pulau Sarangbuang.	1° 42.2' N 97° 26.3' E	Fl.(2)W. period 8s	180 55	14		
23259 <i>F 1265</i>	Pulau Mansalar.	1° 42.1' N 98° 27.9' E	Fl.W. period 5s	114 35	14	Beacon.	Radar reflector.

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INDONESIA (SUMATERA-WEST COAST)							
23260 F 1250	Gosong Baohi.	1° 26.1' N 97° 10.2' E	Fl.W. period 5s	92 28	15 82	White metal skeleton structure;	Radar reflector.
23261 F 1252	Lahewa.	1° 24.4' N 97° 10.2' E	Fl.W. period 3s	46 14	12	Beacon.	Radar reflector.
23262 F 1251	-Goso Uma Lahewah.	1° 28.0' N 97° 12.2' E	Fl.W. period 2s	49 15	10		
23267 F 1262.3	Bintanah.	1° 28.6' N 98° 10.4' E	Fl.W. period 5s	108 33	15	White framework tower; 98.	
23268 F 1262	South Pylades, SE. reef.	1° 40.7' N 98° 00.7' E	Fl.W. period 8s	52 16	13	ISOLATED DANGER BRB, tower, topmark.	Obscured by Palau Lakota.
23268.5 F 1260	Pulau Lakota.	1° 50.6' N 98° 01.2' E	Fl.W. period 6s	42 13	12	White beacon.	
23269 F 1262.5	Labu Labu Kecil.	1° 34.6' N 98° 36.2' E	Fl.(2)W. period 7s	187 57	15	White metal framework structure; 131.	
23271 F 1245	Pulau Ilir.	1° 15.9' N 98° 49.1' E	L.Fl.W. period 10s		24	White metal framework structure.	
23272 F 1263.5	Aik Habil.	1° 43.0' N 98° 47.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	5	Green beacon.	
23276 F 1263.3	Pulau Poncan.	1° 43.0' N 98° 46.0' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	36 11	5	Green beacon.	
23280 F 1264.5	Sarudut.	1° 43.0' N 98° 46.0' E	Fl.R. period 6s	33 10	5	Red beacon.	
23284 F 1263	Ujung Karang.	1° 44.0' N 98° 42.0' E	Fl.(3)W. period 17s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9.5s	134 41	17	White metal framework structure; 131.	
23285 F 1263.2	P. Pocan Kecil.	1° 43.3' N 98° 44.8' E	Q.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	39 12	13	E. CARDINAL BYB, beacon, topmark.	
23288 F 1264	Teluk Sibolga, pier.	1° 44.4' N 98° 46.3' E	Fl.W. period 5s	43 13	12	White metal framework; 13.	F.R. shown from near customhouse in Barus when vessels are in roadstead.
23289 F 1266.3	Ug Silabi.	2° 01.9' N 98° 16.0' E	L.Fl.W. period 10s	49 15	12	White beacon.	
23290 F 1265.5	Pulau Karang.	1° 58.2' N 98° 20.7' E	Fl.W. period 5s	42 13	12	Beacon.	Radar reflector.
23291 F 1267.5	Karang Rumambi.	2° 13.2' N 97° 45.9' E	Fl.(2)R. period 10s	46 14	13	Red beacon.	
23292 F 1267	Singkel.	2° 15.2' N 97° 45.6' E	Fl.W. period 6s	108 33	17	White framework tower; 98.	
23295 F 1271.5	Pulau Bagu.	2° 17.7' N 97° 23.7' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	105 32	16	White beacon.	
23296 F 1271	Pulau Baleh.	2° 18.0' N 97° 24.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	6	White beacon; 23.	
23298 F 1270.5	Panjang.	2° 16.9' N 97° 24.1' E	Fl.W. period 3s	102 31	7	White beacon.	

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INDONESIA (SUMATERA-WEST COAST)							
23300 F 1270	Pulau Panjang.	2° 16.8' N 97° 23.6' E	Q.(3)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	33 10	12	White beacon.	
23304 F 1273	Sarang Uln.	1° 58.7' N 97° 23.0' E	Fl.W. period 5s	135 41	17		
23305 F 1273.5	Pulau Babi.	2° 05.8' N 96° 36.7' E	Fl.W. period 5s	105 32	17	White beacon.	
23306 F 1281	Pulau Tepak.	2° 21.0' N 96° 15.0' E	Fl.W. period 9s	328 100	18	White beacon.	
23307 F 1280	Pulau Simeuloe.	2° 32.0' N 95° 55.5' E	Fl.(2)W. period 12s	295 90	18	White beacon.	
23308 F 1274	Teluk Sinabang, Ujung Babang.	2° 30.5' N 96° 24.0' E	Fl.W. period 3s	131 40	12		Visible 037°30'-306° except when obscured by Siumat Island.
23310 F 1278	Tinggi.	2° 50.5' N 95° 58.0' E	Fl.W. period 3s fl. 1s, ec. 2s	131 40	16	White metal framework structure; 98.	
23310.5 F 1277	Ujung Sirih.	2° 40.6' N 96° 09.7' E	Fl.R. period 7s	49 15	12	Red metal framework tower; 33.	
23311 F 1279	Pulau Siumat.	2° 38.4' N 96° 23.5' E	Fl.W. period 6s	138 42	17		
23312 F 1275	-Rangasa.	2° 30.3' N 96° 24.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	52 16	6	Green beacon; 49.	Radar reflector.
23316 F 1276	--Panjang Island.	2° 30.0' N 96° 23.6' E	Fl.G. period 3s	52 16	6		
23317 F 1277	-Ujung Sibigo.	2° 50.5' N 95° 54.6' E	Fl.G. period 5s	46 14	15	Green beacon.	
23318 F 1278.5	Salaut Besar.	2° 57.6' N 95° 24.0' E	Fl.(3)W. period 20s	76 23	14	White beacon.	
TAPAKTUAN:							
23320 F 1284	-Ujung Kupiah.	3° 15.0' N 97° 10.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	184 56	8	White metal framework tower; 45.	Visible 229°-133°.
23322 F 1291	Teluk Susoh.	3° 43.0' N 96° 48.5' E	Fl.W. period 3s	33 10	6	White beacon.	
23324 F 1290	Susoh.	3° 42.8' N 96° 48.4' E	Fl.G. period 5s	33 10	12	Green beacon; 23.	
23326 F 1289	Ujung Raya.	3° 44.2' N 96° 31.3' E	Fl.(4)W. period 20s	138 42	25		
23328 F 1292	Ujung Kareueng, Teluk Muelaboh.	4° 07.3' N 96° 07.4' E	L.Fl.W. period 8s fl. 2s, ec. 6s	89 27	11	White metal framework tower; 82.	Visible 269°-124°.
23328.5 F 1292.2	Krueng Teunom.	4° 26.5' N 95° 47.7' E	Fl.R. period 7.5s	112 34	14	White metal framework structure; 98.	
23329 F 1292.3	Rangas.	4° 38.2' N 95° 31.0' E	Fl.W. period 5s	164 50	17		
23329.5 F 1292.35	Ujung Baro.	4° 39.2' N 95° 32.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	197 60	17	White metal framework structure; 98.	

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INDONESIA (SUMATERA-WEST COAST)							
23330 <i>F 1292.5</i>	Palau Raya.	4° 52.6' N 95° 22.1' E	Q.(2)W. period 5s	236 72	18		
23331 <i>F 1292.7</i>	Ug Tangkura.	5° 06.6' N 95° 16.8' E	Q.(3)W. period 5s	147 45	16		
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INDONESIA (JAWA-ADJACENT ISLANDS)							
SELAT SUNDA:							
23332 <i>K 1050.2</i>	-Tanjung Layar.	6° 45.0' S 105° 12.7' E	Fl.(3)W. period 15s	163 50	18 98.	White metal framework tower;	Visible 343°-237°, except partially obscured 343°-007°, obscured by Princess Island 141°-199°.
23333 <i>K 1050.1</i>	-Tanjung Parat.	6° 31.6' S 105° 15.9' E	Fl.W. period 4s	105 32	16	White beacon.	
23335 <i>K 1050.3</i>	-Tanjung Alangalang.	6° 38.8' S 105° 22.3' E	Fl.Y. period 3s	39 12	8	SPECIAL Y, beacon, topmark.	
23334 <i>K 1050.5</i>	-Tanjung Lesung.	6° 28.2' S 105° 39.8' E	Fl.W. period 4s	75 23	14	White beacon.	
23335 <i>K 1050.05</i>	-Panto Binuangen.	6° 05.7' S 105° 52.9' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16		
23336 <i>K 1050</i>	-Tanjung Cikoneng (Tjikikoneng).	6° 04.2' S 105° 53.0' E	Fl.(2)W. period 20s	197 60	19	White metal tower; 190.	Obscured when bearing more than 216°.
23338 <i>K 1051.7</i>	-Paku.	6° 02.4' S 105° 55.4' E	Q.W.		10	N. CARDINAL BY, pole, topmark.	
23340 <i>K 1051</i>	Pulau Ular.	6° 00.0' S 105° 56.0' E	Fl.W. period 5s	210 64	8	Beacon.	
23342 <i>K 1051.1</i>	Palau Sangiang.	5° 58.0' S 105° 51.2' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16		
23344 <i>K 1052</i>	Pulau Tampurung.	5° 54.0' S 105° 55.8' E	Fl.W. period 3s fl. 1s, ec. 2s	253 77	13	White metal framework tower.	Obscured 045°-066°.
RACON							
			B(-•••)		20		
23346 <i>K 1052.5</i>	Merak.	5° 57.6' S 105° 59.8' E	Fl.W. period 5s	39 12	12	White beacon.	
23346.5 <i>K 1052.7</i>	-Inner.	5° 57.7' S 105° 59.9' E	Fl.W. period 3s	39 12	12	White beacon.	
23346.7 <i>K 1052.6</i>	-Jetty.	5° 57.8' S 105° 59.9' E	Fl.W. period 4s	39 12	12	White beacon.	
23347 <i>K 1052.9</i>	Pulau Merak Besar.	5° 56.3' S 105° 59.2' E	Fl.(2)G. period 14s fl. 0.3s, ec. 3s fl. 0.3s, ec. 10.4s		10	Green beacon, topmark.	
23348 <i>K 1053</i>	Salat Merak.	5° 56.0' S 105° 59.7' E	Q.(3)R. period 8s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 5.5s	29 9	6	Red beacon, topmark; 20.	
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INDONESIA (JAWA-ADJACENT ISLANDS)							
23352 K 1053.2	Merak Harbor.	5° 56.0' S 105° 59.5' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	39 12	6	Red beacon; 26.	
23353 K 1053.26	Tg. Sekong.	5° 55.1' S 105° 59.9' E	Fl.R. period 4s fl. 1s, ec. 3s		10	PORT (A) R, beacon, topmark.	
PELABUHAN SURALAYA:							
23354 K 1053.3	-Range, front.	5° 53.3' S 106° 01.8' E	Fl.W. period 4s	39 12	15		
23354.1 K 1053.31	--Rear, 143°31' from front.	5° 53.3' S 106° 01.9' E	Fl.W. period 4s	42 13	15		
23355.1 K 1053.33	-SW. approach.	5° 53.0' S 106° 01.6' E	Fl.W.R.G. period 5s	29 9	10		G.-132°30'-208°30', W.- 210°30', R.-222°30'.
23355.3 K 1053.35	-NE. approach.	5° 52.9' S 106° 01.7' E	Fl.W.R.G. period 6s	29 9	10		R.-042°30'-059°30', W.- 061°30', G.-132°.
23356 K 1053.6	-Tanjung Kamal.	5° 54.0' S 106° 01.0' E	Fl.W. period 1.5s	23 7	7		
23358 K 1053.7	Tanjung Piatu.	5° 52.8' S 106° 04.2' E	Fl.W. period 4s	39 12	13		
23358.5 K 1053.72	-Pulau Salira, N.	5° 52.7' S 106° 03.8' E	Fl.Y. period 4s	18 5	4		
23358.6 K 1053.74	--S.	5° 52.7' S 106° 03.9' E	Fl.Y. period 5s	18 5	4		
23359 K 1053.9	-Beacon.	5° 53.4' S 106° 05.5' E	Fl.R. period 5s fl. 1s, ec. 4s		10	Red beacon, topmark.	
23359.5 K 1053.91	--E.	5° 53.4' S 106° 05.6' E	Fl.G. period 5s fl. 1s, ec. 4s		10	Green beacon, topmark.	
23360 K 1054	Pulau Tunda.	5° 48.9' S 106° 17.0' E	L.Fl.W. period 6s	105 32	15	White metal framework tower; 98.	
23361 K 1054.5	Teluk Banten.	5° 56.0' S 106° 06.5' E	Fl.W. period 3s	49 15	12		
23362 K 1055	Karang Antu.	6° 01.5' S 106° 09.4' E	Fl.W. period 5s	43 13	12	White beacon.	
23363 K 1056	Pulau Tidang Besar.	5° 47.5' S 106° 28.4' E	Fl.(2)W. period 10s	20 6	6	ISOLATED DANGER BRB, beacon, topmark.	
23363.5 K 1056.5	Pulau Karangberas.	5° 45.9' S 106° 33.1' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, beacon, topmark.	
23363.6 K 1056.7	Layar Island.	5° 43.8' S 106° 33.4' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
23363.7 K 1056.8	Pandan Island.	5° 42.6' S 106° 33.8' E	V.Q.(9)W. period 10s	20 6	6	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
23363.8 K 1056.9	Karang Gosong Congak.	5° 42.0' S 106° 35.9' E	Q.(3)W. period 10s	20 6	6	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
23363.9 K 1056.6	Simedoun Island.	5° 43.2' S 106° 36.9' E	Q.(3)W. period 5s	20 6	6	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
23364 K 1058	Pulau Payung Besar.	5° 49.4' S 106° 33.3' E	Fl.(2)W. period 10s	105 32	10	White metal framework tower; 98.	Partially obscured 114°-263°.
23368 K 1060	Djong.	5° 51.3' S 106° 38.7' E	Fl.G. period 5s	33 10	11	Green tower on piles; 33.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23370 K 1061	Gosong Dapur.	5° 55.4' S 106° 43.6' E	Fl.(2)W. period 8s	49 15	10		
23372 K 1060.5	Palau Peniki.	5° 41.7' S 106° 42.7' E	Fl.W. period 5s	105 32	16 115.	White metal framework tower;	Radio beacon.
	RACON		K(-•-)				
23376 K 1042	Jaga Utara.	5° 12.4' S 106° 27.6' E	Fl.(2)W. period 11s	159 48	18	White skeleton tower; 157.	
23380 K 1043	Pulau Segama.	5° 10.1' S 106° 06.6' E	Fl.W. period 5s	149 45	22	White metal framework structure; 131.	
23382 K 1045	Gosong Serdang.	5° 04.6' S 106° 16.5' E	Fl.(2)W. period 10s	39 12	13	ISOLATED DANGER BRB, beacon, topmark.	
23383 K 1045.5	Tg. Bungin.	4° 33.5' S 106° 03.5' E	Fl.W. period 4s	39 12	12	White beacon.	
23383.5 K 1045.7	Tanjung Menjangan.	3° 49.7' S 106° 00.3' E	Fl.W. period 3s	39 12	12	White beacon.	
23384 K 1044	Chinta Oilfield Terminal.	5° 25.2' S 106° 14.3' E	Mo.(U)W. period 15s			Mooring buoy.	
23388 K 1040	Beting Raja.	5° 12.5' S 106° 44.5' E	Fl.W. period 5s	43 13	12	ISOLATED DANGER BRB, tower, topmark.	Radar reflector.
	RACON		B(-••)				
23392 K 1038	Beting Eka.	5° 17.5' S 106° 54.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	49 15	11	ISOLATED DANGER BRB, beacon, topmark; 33.	Radar reflector.
23396 K 1078	Tanjung Krawang.	5° 54.3' S 107° 00.5' E	Fl.(2)R. period 8s	42 13	10	Red beacon; 46.	
23400 K 1079	-Northward, 9.3 miles.	5° 45.0' S 106° 59.0' E	Fl.R. period 4s	29 9	8	Red square daymark on single pile (articulated light).	
23404 K 1062	Pulau Damar-besar.	5° 57.4' S 106° 50.4' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 9.2s	62 19	19	White metal tower; 164.	Obscured by islands 112°-116°.
	RACON		D(-••)		20		
23405 K 1063	-Karang Ayer Sedang.	5° 59.3' S 106° 46.6' E	Fl.G. period 3s	39 12	12	STARBOARD (A) G, beacon, topmark.	
23406 K 1064	-Pulau Nirwana.	6° 01.9' S 106° 51.2' E	Fl.G. period 5s	43 13	12	Green beacon; 33.	
23407 K 1065	Karang Jalan.	6° 02.3' S 106° 46.6' E	Fl.(2)W. period 10s	36 11	10	ISOLATED DANGER BRB, beacon, topmark.	
23407.5 K 1066	-Karang Pasir.	6° 03.9' S 106° 49.4' E	Fl.W. period 4s	39 12	12	White beacon; 33.	Radar reflector.
23407.7 K 1066.2	Pulau Puteri.	6° 04.1' S 106° 51.4' E	Fl.R. period 2s	46 14	12	Red beacon.	
23407.8 K 1066.4	Karang Lamteri.	6° 04.5' S 106° 49.9' E	Fl.G. period 2s	46 14	12	Green beacon.	
23408 K 1069	Sundra Kelapa, E. side.	6° 05.5' S 106° 48.2' E	Fl.(2)R. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	26 8	6	Red beacon; 16.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23412 K 1069.4	-W. side.	6° 05.5' S 106° 48.1' E	Fl.(2)G. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	26 8	6	Green beacon; 16.	
23416 K 1068.5	Jakarta, W. mole.	6° 06.3' S 106° 48.3' E	Fl.R. period 3s	56 17	5	White stone tower; 52.	
23416.1 K 1070	Muara Karang.	6° 06.5' S 106° 47.2' E	Fl.W. period 3s	56 17	14	White beacon.	Radar reflector.
23416.2 K 1070.3	-Entrance, W.	6° 06.0' S 106° 47.2' E	Fl.G. period 3s	39 12	10	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23416.3 K 1070.4	--E.	6° 06.0' S 106° 47.3' E	Fl.R. period 2s	39 12	10	PORT (A) R, beacon, topmark.	Radar reflector.
23416.4 K 1070.1	-Inner, W.	6° 06.3' S 106° 47.1' E	Fl.G. period 5s	33 10	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23416.5 K 1070.2	--E.	6° 06.3' S 106° 47.2' E	Fl.R. period 4s	33 10	8	PORT (A) R, beacon, topmark.	Radar reflector.
23417 K 1072.7	-Boat entrance, N. side.	6° 06.9' S 106° 48.5' E	Fl.G. period 5s	26 8	6	Green fiberglass beacon; 33.	
23417.1 K 1072.8	--S. side.	6° 06.9' S 106° 48.5' E	Fl.R. period 6s	33 10	9	White beacon, red bands.	
23420 K 1068	Jakarta Harbor.	6° 07.2' S 106° 48.5' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	65 20	11	Beacon; 31.	
23422 K 1072.9	Pipeline.	6° 06.1' S 106° 51.4' E	Fl.Y. period 3s	23 7	11	SPECIAL Y, beacon, topmark.	Radar reflector.
TANJUNGPRIOK:							
23423 K 1073	-Power Plant.	6° 06.8' S 106° 51.8' E	Fl.W. period 5s	43 13	11	White beacon.	
23423.2 K 1073.2	--Entrance, W.	6° 06.4' S 106° 51.9' E	Fl.G. period 4s	20 6	5	STARBOARD (A) G, beacon, topmark.	
23423.4 K 1073.21	--E.	6° 06.4' S 106° 52.0' E	Fl.R. period 4s	20 6	5	PORT (A) R, beacon, topmark.	
23428 K 1073.5	-Inner Harbor.	6° 05.8' S 106° 52.8' E	Fl.W. period 10s	151 46	18	White framework tower; 132.	Visible 090°-210°.
23432 K 1074	-W. mole, head.	6° 04.8' S 106° 52.8' E	Fl.G. period 5s	72 22	12	Green beacon, triangular daymark.	
23436 K 1076	-E. mole, head.	6° 05.0' S 106° 53.0' E	Fl.W.R. period 4s	72 22	12	Red beacon, square daymark.	W. 294°-354°, R.-294°. F.R. lights on water tower about 1.75 miles 204°.
23437 F 1076.5	-Channel.	6° 05.7' S 106° 52.8' E	Fl.R. period 5s	26 8	5	PORT (A) R, beacon.	
23440 K 1076.4	-W. elbow, E. mole.	6° 05.7' S 106° 53.2' E	Fl.R. period 3s fl. 1s, ec. 2s	20 6	5	Metal column; 13.	
23444 K 1076.9	-E. elbow, E. mole.	6° 05.7' S 106° 53.7' E	Fl.R. period 3s	33 10	12	Red beacon.	
23448 K 1076.6	--Pertamina Oil Jetty Approach.	6° 05.8' S 106° 53.7' E	Fl.G. period 3s	33 10	12	STARBOARD (A) G, beacon.	
23452 K 1076.7	-E. mole.	6° 05.6' S 106° 54.3' E	Fl.W. period 4s	33 10	12	White beacon; 33.	Visible 270°-090°.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23456 K 1076.8	-W. entrance to Min-tak Docks.	6° 05.9' S 106° 54.3' E	Fl.G. period 5s	33 10	12	STARBOARD (A) G, beacon; 33.	
23460 K 1084	Pulau Rakit.	5° 56.5' S 108° 22.7' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	178 54	20	Black and white metal framework tower; 164.	
23464	<i>Permanent Export SBM.</i>	6° 16.0' S 108° 28.0' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s			Mooring buoy.	Radar reflector.
			Fl.G. period 3s fl. 0.5s, ec. 2.5s				
23468 K 1086	Tanjung Idramuyu Balongan.	6° 20.0' S 108° 23.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s			White beacon, white daymark.	
CIREBON:							
23472 K 1090	-E. of Tanah Reef.	6° 31.6' S 108° 41.0' E	Fl.(2)W. period 5s	46 14	12	White beacon.	
23474 K 1091.1	-E. of Kali Kasunean.	6° 43.6' S 108° 35.4' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	4	PORT (A) R, beacon, topmark.	
23474.1 K 1091.11	--SW.	6° 43.7' S 108° 35.3' E	Fl.(2)G. period 6s	20 6	4	STARBOARD (A) G, beacon, topmark.	
23475 K 1091.12	-S. of Kali Kasunean.	6° 44.0' S 108° 34.9' E	Fl.W. period 5s	39 12	6	White beacon.	Radar reflector.
23476 K 1092	-Cirebon.	6° 42.9' S 108° 34.3' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	101 31	16	White metal framework tower; 98.	
23480 K 1092.5	-Cirebon Range, front.	6° 42.0' S 108° 34.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	Beacon, triangular daymark.	
23484 K 1092.51	--Rear, 600 meters 258° from front.	6° 42.4' S 108° 34.1' E	Q.(9)W. period 15s	61 19	13	Beacon, triangular daymark, point down; 56.	
23488 K 1093	-E. mole, head.	6° 42.4' S 108° 34.7' E	Fl.R. period 5s	30 9	10	White metal framework structure.	
23492 K 1095	-W. mole, head.	6° 42.3' S 108° 34.7' E	Fl.G. period 5s	29 9	4	White metal framework structure; 23.	
23494 K 1095.5	--Elbow.	6° 42.5' S 108° 34.5' E	F.R.		2		Aero.F.R. 63m 10M on mast 1.3 miles NW.
23500 K 1099	-Tg. Sanggarag.	6° 45.0' S 108° 49.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	6	White beacon; 33.	
23502 K 1101	Ujung Brebes.	6° 46.0' S 109° 00.7' E	Fl.W. period 4s	72 22	12	White metal framework structure; 65.	
23504 K 1105	Rede Tegal.	6° 51.0' S 109° 08.3' E	Iso.W. period 10s	105 32	15	White metal framework tower; 98.	
23508 K 1106	-E. side of harbor.	6° 51.0' S 109° 08.2' E	Fl.Y. period 3s	62 19	6	White metal framework tower; 56.	
23512 K 1108	-W. mole, head.	6° 50.7' S 109° 08.1' E	Fl.G. period 5s	43 13	6	Green framework tower; 39.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23516 K 1112	-E. mole, head.	6° 50.7' S 109° 08.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	43 13	6	PORT (A) R, beacon, topmark.	
23517 K 1110	--E. mole.	6° 50.9' S 109° 08.2' E	Fl.R. period 7.5s	33 10	6	Red metal framework tower; 30.	
23520 K 1102	Karang Jeruk.	6° 49.0' S 109° 12.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	12	White metal framework tower.	
PEKALONGAN:							
23524 K 1124	-W. mole, head.	6° 51.4' S 109° 41.5' E	Fl.G. period 6s	16 5	3	Metal mast.	
23528 K 1126	-E. mole, head.	6° 51.3' S 109° 41.6' E	Fl.R. period 6s	16 5	3	Metal mast.	
23532 K 1122	-Pekalongan.	6° 51.0' S 109° 41.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White metal framework structure; 46.	
23538 K 1120	Karang Bapang.	6° 34.3' S 109° 50.0' E	Fl.(2)W. period 5s	46 14	10	ISOLATED DANGER BRB, beacon, topmark.	
23539 K 1128	Tanjung Celong.	6° 54.3' S 110° 02.5' E	Fl.W. period 4s	99 30	20	White beacon.	
23542 K 1130	Kendai.	6° 55.8' S 110° 18.5' E	Fl.W. period 2s	52 16	7		
SEMARANG:							
23544	-SBM.	6° 53.3' S 110° 25.7' E	Iso.R. period 10s			Yellow buoy.	
23552 K 1133	-Range, front.	6° 57.0' S 110° 25.3' E	Fl.W. period 3s	52 16	11	Mast, triangular daymark, point up.	
23556 K 1133.1	--Rear, 600 meters 176° from front.	6° 57.4' S 110° 25.3' E	Fl.W. period 6s	75 23	11	Mast, white triangular daymark.	
23557 K 1133.3	-E. breakwater, head.	6° 55.4' S 110° 25.4' E	Fl.R. period 10s	46 14	10	Red beacon.	
23558 K 1134	-W. outer breakwater, head.	6° 55.1' S 110° 25.0' E	Fl.G. period 10s	46 14	10	Green beacon.	Light shown from S. end.
23559 K 1135	-W. inner breakwater, head.	6° 56.2' S 110° 25.1' E	Fl.G. period 5s	13 4	4	White metal framework tower;	26.
23559.1 K 1136	--Middle.	6° 56.5' S 110° 25.1' E	Fl.W. period 3s	13 4	4	Metal framework tower; 10.	
23560 K 1132	Tanjung Emmas.	6° 57.2' S 110° 25.1' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 9.2s	107 33	16	White metal tower; 98.	
KEPULAUAN KARIMUNJAWA:							
23568 K 1140	-P Njamuk.	5° 49.0' S 110° 11.0' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	99 30	16	Framework tower; 99.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23568.5 K 1140.2	-Karang Kapal.	5° 54.0' S 110° 13.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	43 13	10	White beacon.	
23569 K 1141	-Pulau Karimunjawa, Tg. Pudak.	5° 53.2' S 110° 26.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	82 25	12	White beacon.	
23570 K 1140.5	-Pulau Genting.	5° 50.6' S 110° 36.3' E	Fl.W. period 4s	164 50	20	White beacon.	
23571 K 1140.4	-Pulau Sintok.	5° 46.8' S 110° 30.6' E	Fl.Y. period 3s	39 12	6	SPECIAL Y, beacon, topmark.	
23571.5 K 1140.3	-Pulau Bengkoang.	5° 43.9' S 110° 24.5' E	Fl.Y. period 4s	39 12	6	SPECIAL Y, beacon, topmark.	
23572 K 1144	Pulau Mondoliko.	6° 23.0' S 110° 55.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	283 86	40	White skeleton metal tower; 52. Visible 069°-287°.	
RACON							
			K(- • -)		17		
23572.5 K 1144.1	Tg Bugel.	6° 27.4' S 111° 02.9' E	Fl.W. period 4s	102 31	20		
23572.8 K 1144.2	Juana Harbor.	6° 39.9' S 111° 10.2' E	Fl.W. period 6s	46 14	10	White beacon.	
23573 K 1144.3	Juana Channel, E. side.	6° 39.1' S 111° 10.1' E	Fl.R. period 3s	16 5	4	PORT (A) R, beacon, topmark.	Channel marked by lighted beacons.
23573.1 K 1144.35	-W. side.	6° 39.1' S 111° 09.9' E	Fl.G. period 3s	16 5	4	STARBOARD (A) G, beacon, topmark.	
23573.5 K 1144.6	Penowo Reef.	6° 38.8' S 111° 16.2' E	Fl.W. period 4s	46 14	7	White beacon.	
23573.6 K 1144.8	Pulau Gurian.	6° 41.5' S 111° 21.7' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	46 14	10	White beacon.	
23574 K 1145	Tg. Awarawar.	6° 45.8' S 111° 57.2' E	Fl.W. period 10s	230 70	22		Tuban Oil Terminal moored storage tanker 12.3 miles ENE.
23580 K 1139	Djapara.	6° 35.0' S 110° 39.5' E	Fl.W. period 3s fl. 1s, ec. 2s	56 17	8	White concrete; 49.	
23584 K 1138	Pulau Panjang.	6° 34.5' S 110° 37.8' E	Fl.(3)W. period 20s	72 22	18	White beacon.	
23586 K 1145.5	Tambakbojo.	6° 47.4' S 111° 53.9' E	Fl.W. period 3s	98 30	15		
PULAU BAWEAN:							
23588 K 1150	-Sangkpoera.	5° 51.3' S 112° 39.2' E	Fl.W. period 5s fl. 1s, ec. 4s	66 20	12	White metal framework tower; 36.	
23589 K 1151	-Range, front.	5° 50.9' S 112° 38.3' E	Fl.W. period 1.5s	16 5	7	White beacon, white triangular daymark, point up.	
23589.4 K 1151.1	--Rear, 0.65 mile 000° from front.	5° 50.3' S 112° 38.0' E	Fl.W. period 3s	230 70	13	White beacon, white triangular daymark, point down.	
23590 K 1149	--On rock.	5° 51.8' S 112° 38.2' E	Fl.(2)G. period 8s	43 13	12		
23591 K 1153	-Tanjung Mantegi.	5° 43.5' S 112° 40.9' E	Fl.W. period 7s	26 8	24	White beacon.	

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23591.5 K 1152	-Karang Gosong.	5° 46.2' S 112° 50.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	11	White beacon.	
23592 K 1424	Masalembo-Besar.	5° 33.2' S 114° 26.6' E	Fl.(3)W. period 21.5s	656 200	20	White metal framework tower; 131.	
	RACON		M(--)		24		
23593 K 1424.5	-SW. side of island.	5° 34.8' S 114° 24.8' E	Fl.R. period 6s	46 14	13		
23604 K 1426	Keramaian.	5° 02.0' S 114° 37.0' E	Fl.W. period 5s	52 16	8	White beacon.	
SURABAYA (WESTERN CHANNEL):							
23608 K 1157	-Ujung Pangkah.	6° 50.6' S 112° 32.8' E	Fl.W. period 6s	108 33	16	White beacon.	
23612 K 1162	-Karang Djamuang.	6° 55.6' S 112° 43.8' E	Fl.W. period 4s	135 41	41	White metal framework tower; 131.	Radio beacon.
	RACON		K(--)		12		(3 & 10cm)
23616 K 1158	-Mapia entrance Range, front.	6° 59.3' S 112° 42.0' E	Fl.W. period 3s	49 15	11	White square concrete tower, red bands, on platform; 46.	
23620 K 1158.1	--Tandjung Piring, middle, 5.1 kilometers 200° from front.	7° 02.0' S 112° 41.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	7	White metal framework; 46.	Visible 194°-204°.
23624 K 1158.2	--Sembilangan, Slimpil Point, rear, 200° from front.	7° 03.6' S 112° 40.4' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	174 53	19	White round concrete tower, black and white top; 164.	
23625 K 1158.55	-Gresik, pier.	7° 06.7' S 112° 39.2' E	Fl.W. period 5s fl. 1s, ec. 4s	52 16	8	White beacon.	
23625.2 K 1158.59	--N.	7° 06.7' S 112° 39.2' E	Fl.(4)Y. period 15s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.4s, ec. 11.6s	20 6	7	SPECIAL Y, beacon, topmark.	
23625.4 K 1158.51	--S. of entrance to Kali Miring.	7° 06.6' S 112° 39.2' E	Fl.(4)Y. period 15s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.4s, ec. 11.6s	20 6	7	SPECIAL Y, beacon, topmark.	
23625.8 K 1158.85	-Tepen, NE.	7° 07.9' S 112° 39.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	6	White beacon.	
23626 K 1159	-Pojok.	7° 08.4' S 112° 39.3' E	Fl.Y. period 5s	23 7	5	SPECIAL Y, beacon, topmark.	Marks pipeline with Special beacons 250 meters and 760 meters SSE.
23627 K 1160	-Tanjungan.	7° 09.3' S 112° 41.1' E	Fl.Y. period 4s	46 14	5	SPECIAL Y, beacon, topmark.	Radar reflector.
23628 K 1168	-Pisang.	7° 11.2' S 112° 41.2' E	Fl.G. period 5s	39 12	10	PORT (A) G, beacon, topmark.	Visible 138°-338°.
SURABAYA:							
23632 K 1174	-Karang Queen Olga Reef.	7° 10.9' S 112° 43.9' E	Fl.R. period 5s	36 11	7	PORT (A) R, beacon.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23636 <i>K 1182</i>	-Range, W. molehead of Naval Harbor, front.	7° 11.7' S 112° 44.2' E	Fl.G. period 3s	19 6	4	Green beacon.	
23640 <i>K 1182.1</i>	--Rear, 90 meters 151° from front.	7° 11.8' S 112° 44.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	29 9	4	Green metal framework structure.	In range indicate the W. limit of prohibited anchorage.
23644 <i>K 1183</i>	-Range, E. molehead of Naval Harbor, front.	7° 12.0' S 112° 44.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	19 6	4	Red beacon.	
23648 <i>K 1183.1</i>	--Rear, 76 meters 172° from front.	7° 11.8' S 112° 44.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	29 9	4	Red beacon.	In range indicate E. limit of prohibited anchorage.
23652 <i>K 1176</i>	-E. side of entrance to new harbor, NW. corner of N. pier.	7° 12.0' S 112° 43.0' E	F.R.	59 18	10	Corner of warehouse.	
23656 <i>K 1178</i>	-W. side of entrance to new harbor.	7° 12.0' S 112° 43.0' E	F.G.	42 13	7	Metal post.	
23660 <i>K 1179</i>	-Holland Pier, NW. angle.	7° 12.0' S 112° 44.0' E	F.R.	42 13	7	Roof of warehouse.	
23664 <i>K 1179.2</i>	--NE. angle.	7° 12.0' S 112° 44.0' E	F.G.	42 13	7	Metal post.	
23668 <i>K 1188</i>	-Kessek.	7° 10.0' S 112° 46.0' E	Fl.(3)W. period 12s	75 23	10	White beacon.	
23670 <i>K 1197</i>	Karang Manila.	7° 21.7' S 113° 10.1' E	Fl.(2)W. period 12s	39 12	12	ISOLATED DANGER BRB, beacon, topmark.	
23672 <i>K 1198</i>	Sirumpa Rock.	7° 25.0' S 113° 04.0' E	Fl.(2)W. period 10s	52 16	9	ISOLATED DANGER BRB, beacon, topmark.	
SELAT MADURA:							
23676 <i>K 1200</i>	-Karang Koko (Zwaantjes Reef.).	7° 28.0' S 113° 07.0' E	Fl.(3)W. period 13s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	59 18	12	White metal tower; 52.	
23684 <i>K 1204</i>	-Pasuruan.	7° 37.6' S 112° 55.2' E	Fl.W. period 5s	46 14	15	White mast; 39.	
23688 <i>K 1210</i>	-Probolinggo.	7° 44.5' S 113° 13.4' E	Fl.W. period 7s	75 23	14	White beacon; 52.	
23689 <i>K 1211</i>	--Off shore.	7° 43.3' S 113° 12.8' E	Fl.W. period 3s	75 23	9	White beacon.	
23692 <i>K 1212</i>	--W. mole, head.	7° 43.3' S 113° 13.0' E	Fl.G. period 5s	49 15	12	Green metal framework tower; 46.	During some months of the year in Probolinggo and Besuki, many sugar factories use electric lights which are visible from great distances.
23696 <i>K 1212.2</i>	--E. mole, head.	7° 43.3' S 113° 13.0' E	Fl.R. period 6s	46 14	13	Red beacon.	
23700 <i>K 1213</i>	--Kar Keranji.	7° 42.5' S 113° 35.0' E	Fl.W. period 5s	49 15	11	White beacon.	
23704 <i>K 1214</i>	-Besuki, near river entrance.	7° 44.0' S 113° 41.0' E	Fl.W. period 4s	49 15	5	Black framework tower, white bands.	
23708 <i>K 1220</i>	-Panarukan.	7° 42.0' S 113° 56.0' E	Fl.W. period 3s fl. 1s, ec. 2s	49 15	6	Metal framework tower, black and white bands; 46.	Visible 104°-228°.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23709 K 1218	--Panarukan, N. of Klatakan.	7° 42' S 113° 55.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	7	White metal framework structure; 26.	
23710 K 1222	Tg. Paciman.	7° 36.7' S 114° 02.4' E	Fl.W. period 5s	141 43	17		
23712 K 1223	Karang Mas.	7° 40.5' S 114° 26.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	9	Red beacon, two vertical black balls; 52.	
23714 K 1225	-Camplong.	7° 13.2' S 113° 19.2' E	Fl.(4)W. period 20s	69 21	16		
23715 K 1225.5	--E.	7° 13.0' S 113° 22.0' E	Fl.W. period 5s fl. 1s, ec. 4s	79 24	12	White beacon.	
23716 K 1226	-Gili Dua.	7° 14.9' S 113° 40.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	65 20	13	White beacon.	Radar reflector.
23718 K 1228	Giliraja.	7° 14.1' S 113° 47.9' E	Fl.W. period 6s	138 42	18	White beacon.	
23720 K 1230	-Bili Genteng.	7° 11.5' S 113° 53.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	49 15	12	White beacon; 26.	Obscured behind Gili Genteng and Gili Raja.
23724 K 1232	-Madura Tanjung.	7° 08.0' S 113° 54.0' E	Fl.W. period 3s fl. 1s, ec. 2s	59 18	12	Framework structure, red and white bands; 43.	Visible 194°-104°. Obscured by the point N. of Tandung of the bearing 293° and by various islands.
23728 K 1236	-Kalianget Range, front.	7° 03.2' S 113° 56.1' E	F.G.	33 10	4	White metal framework structure; 26.	Obscured behind Tg. Talangu.
23732 K 1236.1	--Rear, 146 meters 029° from front.	7° 03.1' S 113° 56.8' E	F.R.	59 18	4	White metal framework structure; 43.	Obscured by trees on bearing 355°.
23736 K 1238	-Berths Range, front.	7° 03.4' S 113° 56.6' E	Fl.W. period 6s	36 11	7	White metal framework structure; 26.	
23740 K 1238.1	--Rear, 100 meters 250° from front.	7° 03.4' S 113° 56.5' E	Fl.W. period 3s	39 12	7	White metal framework structure; 36.	
23742 K 1238.5	Karang Tembaga.	7° 06.6' S 114° 09.1' E	Fl.(3)W. period 10s	46 14	12	E. CARDINAL BYB, beacon, topmark.	
23744 K 1240	Pulau Sapudi.	7° 05.7' S 114° 16.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	194 59	7	White octagonal metal framework tower; 192.	Obscured 230°-322°.
23748 K 1242	-Gayam, mole, head.	7° 10.0' S 114° 19.5' E	F.R.	20 6	1	Wooden pole.	
23750 K 1243	Batu Putih.	6° 52.2' S 113° 56.3' E	Fl.(2)W. period 15s	174 53	19		Visible 098°-284°.
23751 K 1243.5	Sapulu.	6° 53.4' S 113° 06.8' E	Fl.Y. period 2s	10	SPECIAL Y, beacon, topmark.	Radar reflector.	
23752 K 1244	Punta Kamudi.	7° 06.2' S 114° 47.6' E	Fl.W. period 5s	57 17	16	White beacon.	
23754 K 1244.5	Karang Takat.	7° 01.8' S 114° 57.6' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	13	White beacon.	
23756 K 1245	Ketapang Bay, Patokanan.	6° 51.3' S 115° 13.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	12	White beacon.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23760 K 1246	Kalisangka.	6° 51.0' S 115° 15.0' E	F.R.	22 7		White pole; 56.	
23762 K 1247	P. Mamburit.	6° 50.6' S 115° 13.1' E	Fl.W. period 5s	148 45	21		
23764 K 1247	Pulau Sakala.	6° 56.0' S 116° 15.0' E	Fl.(3)W. period 20s	151 46	20 131.	White metal framework tower;	
23768 K 1246.5	Pulau Sepanjang.	7° 11.6' S 115° 53.1' E	Fl.W. period 4s	144 44	17	White structure.	
23770 K 1248.5	Pulau Sesii.	7° 05.9' S 115° 44.1' E	Fl.(2)W. period 8s	33 10	12	Beacon.	
23771 K 1246.3	Pulau Saibus.	7° 04.0' S 115° 42.5' E	Fl.W. period 6s	72 22	12	White beacon.	
23773 K 1224	Tanjung Candiban.	7° 53.3' S 114° 27.7' E	Fl.W. period 3s	197 60	18	White beacon.	
23774 K 1249	Pulau Tabuan.	8° 02.2' S 114° 27.6' E	Fl.W. period 5s fl. 1s, ec. 4s	56 17	11		
23775 K 1282.5	Pulau Menjangan.	8° 05.6' S 114° 31.6' E	Fl.Y. period 3s	49 15	6	SPECIAL Y, beacon, topmark.	
23776 K 1250	-Tanjung Bansering Range, front.	8° 04.0' S 114° 26.0' E	Fl.W. period 3s	49 15	9	White metal framework, red triangular daymark; 42.	Visible 215°-033°. Entering Bali Strait from the S.
23780 K 1250.1	--Rear, 550 meters 005° from front.	8° 03.8' S 114° 25.6' E	Fl.W. period 4s	92 28	7	White metal framework tower, white triangular daymark, point down; 65.	Visible 001°-011°.
23784 K 1256	-Tanjung Pasir.	8° 05.8' S 114° 26.1' E	Fl.W. period 5s	43 13	8	White metal framework structure; 26.	Visible 007°-247°. Obscured over a small arc behind Duiven Island.
23788 K 1257	-Meneng.	8° 08.0' S 114° 24.0' E	F.R.				
23789 K 1257.3	--S.	8° 08.1' S 114° 24.0' E	Q.(4)W. period 8s	33 10			
23791 K 1257.5	-Gili Manuk, entrance.	8° 09.2' S 114° 26.0' E	Fl.R. period 4s	39 12	8		
23792 K 1258	--S.	8° 09.7' S 114° 26.2' E	Fl.W.				
23792.5 K 1258.1	--Off shore.	8° 09.5' S 114° 26.2' E	Fl.Y. period 3s	39 12	8	Yellow beacon.	
23796 K 1258.2	-Banyuwang, AVIATION LIGHT.	8° 12.8' S 114° 22.6' E	F.R.	131 40	7	Radio mast; 131.	
23804 K 1282	-Tanjung Pengambengan.	8° 24.0' S 114° 36.0' E	Fl.W. period 5s fl. 1s, ec. 4s	141 43	43	White metal framework structure; 108.	Obscured bearing 139° by Tg. Pabocanaw.
23806 K 1261	-Tanjung Sembulungan.	8° 27.3' S 114° 23.6' E	Fl.W. period 3s	62 19	12	White beacon.	Radar reflector.
23821 K 1261.5	-Bedadung.	8° 22.8' S 113° 28.1' E	Fl.W. period 4s	138 42	18		
23821.2 K 1262	Sempu.	8° 25.3' S 112° 42.9' E	Fl.W. period 4s	75 23	12	Beacon.	
23821.3 K 1262.5	Teluk Segoro Wegi.	8° 22.3' S 111° 43.4' E	Fl.W. period 3s	167 51	12		
23821.5 K 1262.8	Teluk Pacitan.	8° 14.7' S 111° 05.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	12	White beacon.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23821.6 <i>K 1263.9</i>	Tg. Sadeng.	8° 11.5' S 110° 47.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	12	White beacon.	
23821.61 <i>K 1263</i>	-Range, front.	8° 11.7' S 110° 47.6' E	Iso.W. period 4s	75 23	12	Beacon, white triangle, point up.	
23821.62 <i>K 1263.1</i>	--Rear, 35 meters 064°29' from front.	8° 11.6' S 110° 47.6' E	Iso.W. period 2s	82 25	12	Beacon, white triangle, point down.	
23821.7 <i>K 1264</i>	Tanjung Gunung Batur.	8° 11.3' S 110° 41.7' E	Fl.W. period 6s	272 83	12	White beacon.	
23821.9 <i>K 1264.5</i>	Kali Opak.	8° 00.0' S 110° 15.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	144 44	15	White structure.	
23822 <i>K 1265</i>	Wates.	7° 55.7' S 110° 06.3' E	Fl.W. period 5s	104 32	12		
23822.2 <i>K 1276.5</i>	Ketawang.	7° 50.6' S 109° 52.9' E	Fl.G. period 4s	105 32	12	Green beacon.	
23822.4 <i>K 1276.2</i>	Klirong.	7° 46.8' S 109° 37.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	15	White structure.	
23822.6 <i>K 1276</i>	Tanjung Karang Batu.	7° 46.3' S 109° 25.2' E	Fl.W. period 5s	207 63	12		
23823 <i>K 1267</i>	Teluk Penyu.	7° 43.5' S 109° 01.3' E	Iso.W. period 4s	55 17	12		
23823.1 <i>K 1267.4</i>	-E.	7° 43.6' S 109° 01.5' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	39 12	8		
23823.2 <i>K 1267.5</i>	-W.	7° 43.6' S 109° 01.4' E	Fl.R. period 3s fl. 0.7s, ec. 2.3s	39 12	8		
CILACAP INLET:							
23824 <i>K 1268</i>	-Cimiring.	7° 46.9' S 109° 02.5' E	Fl.W. period 5.5s fl. 1.5s, ec. 4s	584 178	30	White stone tower; 105.	
	-RACON		K(-•-)		17		
23828 <i>K 1270.1</i>	-Entrance Range, front.	7° 45.0' S 109° 01.4' E	Q.W.	56 17	8	White tower, white, triangle, point up.	
23832 <i>K 1270.11</i>	--Rear, 475 meters 279° from front.	7° 44.9' S 109° 01.2' E	Oc.W. period 4s lt. 3s, ec. 1s	75 23	8	White tower, white triangular daymark, point down.	
23836 <i>K 1272</i>	-Second Range, front.	7° 45.8' S 109° 01.5' E	Iso.W. period 4s	56 17	8	White tower, white triangular daymark, point up.	
23840 <i>K 1272.1</i>	--Rear, 125 meters 245°40' from front.	7° 45.8' S 109° 01.5' E	Oc.W. period 4s lt. 3s, ec. 1s	69 21	8	White tower, white triangular daymark, point down.	
23842 <i>K 1273.2</i>	-Corner Range, front.	7° 45.8' S 109° 02.2' E	Q.W.	20 6		Yellow structure, white triangular daymark, point up.	
23842.1 <i>K 1273.21</i>	--Rear, 30 meters 096°30' from front.	7° 45.8' S 109° 02.2' E	Q.W.	30 9		Yellow structure, white triangular daymark, point down.	
23844 <i>K 1274</i>	-Third Range, front, "B3".	7° 46.0' S 109° 01.9' E	Q.W.	29 9	8	Beacon, white triangular daymark, point up.	
23848 <i>K 1274.1</i>	--Rear, "B4", 89 meters 124°30' from front.	7° 46.0' S 109° 02.0' E	Q.W.	42 13	11	Beacon, white triangular daymark, point down.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23852 K 1270	-Teluk Penyu.	7° 44.1' S 109° 01.2' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	59 18	12 49.	White metal framework tower;	
23856 K 1274.6	-Tanjung Sodong Range, front.	7° 45.0' S 108° 59.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	95 29	7	White triangular daymark, point up; 16.	
23860 K 1274.61	--Rear, 30 meters 180° from front.	7° 44.6' S 108° 59.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	98 30	7	White triangular daymark, point down; 19.	
23864 K 1275.3	-Jetty, E. head.	7° 43.9' S 108° 59.3' E	Fl.R. period 2s	16 5	4	PORT (A) R, beacon, topmark.	
23868 K 1275.4	-Jetty, N. head.	7° 43.7' S 108° 59.5' E	Fl.R. period 4s	16 5	4	PORT (A) R, beacon, topmark.	
23869 K 1278.2	Teluk Penanjung, Cikembulan, SE.	7° 41.5' S 108° 39.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	White beacon.	
23869.5 K 1278	-Teluk Parigi.	7° 41.1' S 108° 30.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	10	White beacon.	
23870 K 1277	Legok.	7° 48.4' S 108° 28.3' E	Fl.W. period 5s	138 42	15	White structure.	
23871	Teluk Cilauteureum.	7° 39.7' S 107° 40.9' E	Fl.W. period 6s	82 25	12	White beacon.	
23871.5 K 1280	Pelabuhan Ratu.	6° 59.2' S 106° 32.2' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16		

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Section 15

Borneo Including Sarawak, Sabah and Brunei

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SARAWAK)							
23872 F 1894	Tanjong Datu.	2° 04.8' N 109° 38.5' E	Fl.W. period 15s	561 171	18	Metal framework tower; 33.	
23876 F 1895	Sungai Sematan Range, front.	1° 49.0' N 109° 46.0' E	Fl.(2)W. period 4s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 2.2s	21 6	3	Metal column, white triangular daymark, point up	
23880 F 1895.1	-Rear, about 127 meters from front.	1° 48.4' N 109° 46.4' E	Fl.(2)W. period 4s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 2.2s	36 11	3	Metal framework tower, white triangular daymark, point down.	Synchronized with front light.
23884 F 1895.4	Kuala Sematan.	1° 49.0' N 109° 46.0' E	Fl.W. period 10s	19 6	5	Mast, white triangular daymark.	
23888 F 1896	Batu Mandi.	1° 44.0' N 109° 56.0' E	Q.W.	16 5	4	Concrete pile, black and white bands; 15.	
23892 F 1904.45	Kuala Moyan.	1° 36.0' N 110° 35.0' E	Fl.W. period 5s	20 6	4	White cone.	
23900 F 1896.4	Kuala Sibu Laut.	1° 42.0' N 110° 12.0' E	Fl.W. period 4s	22 7	4	Mast, white triangular daymark, point up.	
23904 F 1896.8	Santubong.	1° 47.0' N 110° 14.0' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, structure on wreck, topmark; 10.	
23906 F 1896.85	Tg Sipang.	1° 48.3' N 110° 20.1' E	Fl.W. period 7.5s		18		
23908 F 1897	Sungei Butal.	1° 42.0' N 110° 22.0' E	Fl.W. period 2s	19 6	4	White triangle.	
SUNGEI SARAWAK:							
23916 F 1898	-Tanjong Po.	1° 43.5' N 110° 31.2' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	430 131	24	White pyramidal tower; 60.	Obsc. 116°-132°, partially obscured shore-116°.
23920 F 1900	-Tanjong Embang Range, front.	1° 37.5' N 110° 30.3' E	Fl.W. period 3s	70 21	8	Metal framework tower, yellow stripes, red diamond daymark.	Reserve light F.W.
23924 F 1900.1	--Rear, 762 meters 209°28' from front.	1° 37.2' N 110° 30.1' E	Fl.W. period 3s	100 30	8	Metal framework tower, yellow stripes, red diamond daymark.	Reserve light F.W.
23928 F 1901	-River entrance Range, front.	1° 37.5' N 110° 26.9' E	Fl.(2)W. period 6s	70 21	8	Metal framework tower, yellow stripes, red diamond daymark.	Reserve light F.W.
23932 F 1901.1	--Rear, about 765 meters 247°20' from front.	1° 37.3' N 110° 26.6' E	Fl.(2)W. period 6s	100 30	8	Metal framework tower, yellow stripes, red diamond daymark.	Reserve light F.W.
23936 F 1901.4	-No. "1".	1° 39.1' N 110° 29.5' E	Fl.W. period 6s		9	White tower; 52.	
23940 F 1901.6	-Tg. Batu, No. "2".	1° 37.9' N 110° 27.6' E	Q.G.	30 9	4	White tower; 30.	
23944 F 1902.2	-Tanjong Renard, No. "3".	1° 35.6' N 110° 27.5' E	Q.G.	49 15	4	White tower; 49.	
23952 F 1902.4	-Batu Blat Reach, No. "5".	1° 33.1' N 110° 24.2' E	Q.R.	30 9	4	Red tower; 30.	

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MALAYSIA (SARAWAK)							
	-Turnabout Reach:						
23964 F 1902.8	--No. "8".	1° 33.9' N 110° 23.4' E	Q.R.	26 8		Red and white tower.	
	-Prima Donna Reach:						
23980 F 1903.4	--North Junction Point, No. "11".	1° 34.7' N 110° 24.1' E	Q.G.	26 8		Black and white framework tower.	
23988 F 1904	--No. "13" Range, front.	1° 34.6' N 110° 22.1' E	Q.W.	30 9		White framework tower.	Intensified 261°-269°.
23992 F 1904.1	--Rear, 36 meters 264°10' from from front.	1° 34.6' N 110° 22.1' E	Q.W.	43 13		White framework tower.	Intensified 261°-269°.
	-Horseshoe Reach:						
23996 F 1904.2	--No. "14".	1° 34.6' N 110° 22.1' E	Q.G.	26 8		Black and white framework tower.	
24000 F 1904.3	--No. "15".	1° 34.2' N 110° 22.2' E	Q.G.	23 7		Black and white framework tower.	
24004 F 1904.34	--No. "16".	1° 34.2' N 110° 22.3' E	Fl.R. period 3s	23 7	2	Red framework tower.	
24008 F 1904.4	--No. "17".	1° 34.0' N 110° 22.7' E	Q.R.	26 8		Red and white framework tower.	
24016 F 1904.6	Kuala Semera.	1° 34.0' N 110° 40.0' E	Fl.W. period 3s	20 6	4	White triangular daymark, point down.	
24024 F 1904.75	Kampong Pendam.	1° 30.0' N 110° 44.0' E	Fl.W. period 20s	26 8	4		
24028 F 1904.7	Sungai Sebangan.	1° 33.0' N 110° 46.0' E	Fl.W. period 6s	30 9	8	Metal framework tower, white triangular daymark.	
24036 F 1904.8	Sungai Simunjan.	1° 24.0' N 110° 45.0' E	Fl.W. period 6s	21 6	5	Metal framework tower, white triangular daymark.	
24040 F 1904.9	Kuala Tebela.	1° 33.0' N 110° 51.0' E	Fl.W. period 6s	20 6	4	Galvanized mast, white triangular daymark, point up.	
24044 F 1905	Batang Lutar, Kampong Sebuyau.	1° 31.0' N 110° 56.0' E	Fl.R. period 2s	40 12	6	Metal framework tower, white triangular daymark.	
24048 F 1905.7	Kuala Maludam.	1° 40.0' N 111° 01.0' E	Fl.W. period 3s	20 6	4	White triangular daymark, point down.	
24052 F 1905.8	Kuala Samarang.	1° 41.0' N 111° 06.0' E	Fl.R. period 4s	20 6	3	White triangular daymark, point down.	
24056 F 1905.6	Tg. Batang Marau.	1° 45.4' N 111° 05.0' E	Fl.W. period 4s	74 23	10	Metal framework tower, white triangular daymark.	
24060 F 1909.6	Kuala Nyabor (Kuala Grigat).	2° 03.0' N 111° 11.0' E	Fl.W. period 4s	27 8	3	Mast, white triangular daymark	
24064	Batang Rajang Approach Buoy.	2° 10.0' N 111° 04.0' E	Fl.(2)W. period 10s			Red and white striped buoy.	Radar reflector.
24068 F 1908	Tanjong Jerijeh.	2° 10.0' N 111° 10.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 11.2s	125 38	23	White metal framework tower, rectangular daymark; 120.	
24072 F 1910	-Karang Jerijeh.	2° 08.0' N 111° 11.0' E	Q.R.	32 10	2	Tripod, white slats; 32.	
24076 F 1909.4	Tg. Selalang.	2° 06.0' N 111° 12.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	53 16	6	White metal framework tower; 55.	
24078 F 1909.1	Wong Sands.	2° 06.3' N 111° 08.6' E	Fl.W. period 8s		18		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SARAWAK)							
24084 <i>F 1913</i>	Kuala Belawi.	2° 14.0' N 111° 11.0' E	Fl.W. period 4s	20 6	4	White triangular daymark, point down.	
24088 <i>F 1914</i>	Tg. Sedi.	2° 26.1' N 111° 17.8' E	Fl.W. period 5s	70 21	9	Metal framework tower, white diamond daymark; 59.	
24090 <i>F 1914.2</i>	Tg. Pasir.	2° 26.3' N 111° 15.1' E	Fl.W. period 2s				
24093 <i>F 1913.9</i>	Kual Paloh.	2° 29.6' N 111° 11.4' E	Fl.(4)W. period 20s		16	Beacon.	
24096 <i>F 1915</i>	Kampong Betanak.	2° 38.0' N 111° 17.0' E	Fl.W. period 15s	20 6	4		
24100 <i>F 1915.5</i>	Kampong Penipak.	2° 42.0' N 111° 17.0' E	Fl.W. period 20s	20 6	4		
24104 <i>F 1916</i>	Tanjung Sirik.	2° 46.8' N 111° 19.2' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	125 38	23	Steel framework tower; 120.	Difficult to distinguish.
RACON							
			K(-•-)				
24108 <i>F 1916.4</i>	Bruit.	2° 42.0' N 111° 23.0' E	Q.W.	20 6	5	Mast, triangular daymark.	
24112 <i>F 1917</i>	Tanjong Jol.	2° 41.9' N 111° 25.7' E	Fl.(3)W. period 15s	30 9	4		
24116 <i>F 1917.4</i>	Kvala Matu.	2° 43.0' N 111° 28.0' E	Fl.W. period 4s	21 6	5	Metal mast, white triangular daymark; 6.	
24120 <i>F 1918</i>	Tanjong Budu.	2° 51.0' N 111° 39.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	80 24	12	Steel framework tower, white diamond topmark.	
24120.5 <i>F 1918.4</i>	Tanjang Duga.	2° 50.2' N 111° 40.3' E	Q.W.	20 6	5	Beacon, white triangular daymark.	
24121 <i>F 1918.2</i>	Kuala Igan Range, front.	2° 51.1' N 111° 38.4' E	Fl.W. period 3s	33 10	5		
24122 <i>F 1918.21</i>	--Rear, 0.1 mile 187°44' from front.	2° 50.9' N 111° 38.4' E	Fl.W. period 3s	47 14	5		
24124 <i>F 1920</i>	Kuala Oya, Entrance, W. side.	2° 52.0' N 111° 52.0' E	Fl.W. period 6s	30 9	5	Mast, white triangular daymark; 20.	
24125 <i>F 1920.2</i>	-Beacon.	2° 53.2' N 111° 52.2' E	Fl.W. period 7s		18		
24134 <i>F 1922.4</i>	Kuala Mukah Range, front.	2° 54.5' N 112° 05.4' E	Q.W.	26 8	9	Beacon, triangular daymark, point up.	
24134.1 <i>F 1922.41</i>	-Rear, 180°06' from front.	2° 54.1' N 112° 05.7' E	Q.W.	49 15	9	Beacon, triangular daymark, point down.	
24135 <i>F 1922.5</i>	-Beacon.	2° 55.4' N 112° 05.5' E	Fl.(2)W. period 12s		17		
24135.5 <i>F 9516.31</i>	"D35 Q-A" Platform RACON.	3° 45.8' N 112° 03.8' E	D(-••)				
24136 <i>F 1923.4</i>	Batang Balingian Range, front.	3° 00.0' N 112° 35.0' E	Fl.W. period 2s	30 9	8	White metal framework tower, white triangular daymark; 40.	
24140 <i>F 1923.41</i>	--Rear, 105 meters 160° from front.	3° 00.9' N 112° 35.0' E	Fl.W. period 2s	50 15	8	White metal framework tower, white triangular daymark; 59.	
24141 <i>F 9526.3</i>	Central Luconia Gas Field Platform RACON.	4° 20.1' N 112° 40.7' E	L(-•••)				
24142 <i>F 1923.6</i>	Kuala Tatau, N.	3° 05.7' N 112° 47.5' E	Fl.(2)W. period 10s	16 5	5	On stranded wreck.	
24144 <i>F 1923.7</i>	Kuala Tatau entrance Range, front.	3° 05.0' N 112° 47.7' E	Fl.W. period 4s	33 10	4		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SARAWAK)							
24148 K 1923.71	-Rear.	3° 05.2' N 112° 47.4' E	Fl.W. period 4s	39 12	4		
24152	Tanjong Kidurong Approach.	3° 15.0' N 112° 42.0' E	Mo.(U)W. period 15s		Vent stack.		
24156 F 1924	Kuala Bintulu Range, front.	3° 11.2' N 113° 01.8' E	F.G.	39 12	6	Cone topmark, point up.	Moved to meet changes in the channel.
24160 F 1924.1	-Rear, 91 meters 098°30' from front.	3° 11.2' N 113° 02.1' E	F.G.	67 20	6	Metal framework structure, white triangular daymark, point down.	Tidal signals.
24164 F 1924.3	Kuala Bintulu, N. side of entrance.	3° 11.3' N 113° 01.5' E	Fl.(2)R. period 6s	26 8	5	On black wreck with red bands.	Fl.(2)G. 6s 5M marks stranded wreck 430 meters SSW.
24168 F 1925	Tanjong Kidurong.	3° 16.6' N 113° 03.9' E	Fl.(2)W. period 15s	295 90	23	Aluminum framework tower.	
BINTULU:							
24172 F 1925.2	-Outer Range, front.	3° 15.3' N 113° 04.3' E	Iso.W. period 12s	98 30	15	White trapezoidal daymark.	Radar reflector.
24176 F 1925.21	--Rear, 840 meters 100°04' from front.	3° 15.2' N 113° 04.8' E	Iso.W. period 12s	148 45	18	White trapezoidal daymark.	Synchronized with front. Radar reflector.
24176.5	-Fairway Buoy.	3° 16.1' N 112° 59.0' E	L.Fl.W. period 10s			SAFE WATER RW, spherical.	
-RACON							
24176.7 F 1925.25	-Outer breakwater "27".	3° 15.8' N 113° 03.0' E	Oc.R. period 6s	19 6	5	Red structure.	
24177 F 1925.3	-Inner Range "28A", front.	3° 15.6' N 113° 04.5' E	Iso.R. period 6s	39 12	14	Red trapezoidal daymark.	Radar reflector.
24178 F 1925.31	--Rear "28B", 200 meters 085°05' from front.	3° 15.7' N 113° 04.8' E	Iso.R. period 6s	52 16	14	Red trapezoidal daymark.	Synchronized with front. Radar reflector.
24178.5 F 1925.35	-LNG basin, "16".	3° 15.9' N 113° 03.2' E	Oc.Y. period 5s	10 3	5	White beacon.	
24178.6 F 1925.33	--"32".	3° 15.8' N 113° 03.0' E	Oc.R. period 5s	10 3	5		
24179 F 1925.4	-Inner breakwater, N., "26".	3° 15.7' N 113° 03.8' E	Oc.R. period 4s	10 3	5	Red structure.	
24179.5 F 1925.45	--S., "25".	3° 15.5' N 113° 03.8' E	Oc.G. period 4s	10 3	5	White structure.	
24180 F 1925.55	-Shell loading jetty, "33".	3° 15.7' N 113° 04.5' E	Oc.R. period 5s	10 3	5		
24180.5 F 1925.5	-Petroleum jetty "34".	3° 15.6' N 113° 04.4' E	Oc.R. period 5s	10 3	5		
24184 F 1925.8	Tanjong Payong.	3° 44.5' N 113° 25.6' E	Fl.W. period 10s	75 23	16	White fiberglass beacon; 30.	
24188 F 1926	Kuala Suai Range, front.	3° 48.0' N 113° 29.0' E	Fl.W. period 6s		4	White triangular daymark, point up.	
24192 F 1926.1	--Rear, 30 meters from front.	3° 47.7' N 113° 29.4' E	Fl.W. period 6s		4	White triangular daymark, point down.	
24196 F 1927	Kuala Niah Range, front.	3° 58.0' N 113° 42.0' E	Fl.W. period 3s	16 5	4	White triangular daymark, point up.	
24200 F 1927.1	--Rear, 31 meters 125° from front.	3° 58.1' N 113° 42.3' E	Fl.W. period 3s	19 6	4	White triangular daymark, point up.	
24204 F 1928	Kuala Sibuti Range, front.	4° 00.0' N 113° 43.0' E	Fl.W. period 3s	16 5	4	White triangular daymark, point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SARAWAK)							
24208 <i>F 1928.1</i>	--Rear, 30 meters from front.	3° 59.5' N 113° 43.4' E	Fl.W. period 3s	19 6	4	White triangular daymark, point down.	
24212 <i>F 1929</i>	Kuala Bakam.	4° 16.0' N 113° 56.0' E	Fl.W. period 6s	20 6	4	Mast, white cone, point up.	
24216 <i>F 1930</i>	-Miri.	4° 22.0' N 113° 58.0' E	Fl.W. period 10s fl. 1s, ec. 9s	155 47	16	Gray steel framework tower; 60. Two F.R. lights on radio towers 0.5 mile and 0.6 mile E.	
24220 <i>F 1930.3</i>	-Miri outer.	4° 22.8' N 113° 58.2' E	Fl.W. period 4s		8	Red beacon, white band.	
24228 <i>F 1930.4</i>	-Miri, Inner Range, front.	4° 23.0' N 113° 58.0' E	F.R.			Red triangular daymark.	Moved to meet changes in the channel. For use with local knowledge only. Occasional.
24232 <i>F 1930.41</i>	--Rear.	4° 22.9' N 113° 58.4' E	F.R.			Red triangular daymark.	
24234 <i>F 1931</i>	--Kuala.	4° 22.8' N 113° 58.2' E	Fl.W.R.				W. 130°-138°, R.-234°, W.-239°, R.-130°.
24238 <i>F 1933.8</i>	Kuala Baram.	4° 35.6' N 113° 56.2' E	Fl.G. period 3s			Red and white beacon.	Marks wreck. Fl.G. lights mark wrecks 1.43 miles NW., 0.55 mile SSW., and 1.35 miles ENE. Fl.(2) 8s light marks wreck 0.7 mile NNW.
24240 <i>F 1934</i>	Tanjong Baram.	4° 35.8' N 113° 58.6' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	126 38	25	Gray steel framework tower.	
BRUNEI							
24241 <i>F 1934.5</i>	Kuala Belait Range, front.	4° 35.3' N 114° 10.7' E	F.G.	19 6	2		May be moved to meet changes in channel.
24241.5 <i>F 1934.51</i>	--Rear, 103°30' front.	4° 35.3' N 114° 10.7' E	F.G.	19 6	2		
24244 <i>F 1934.9</i>	Sungai Tutong.	4° 46.7' N 114° 36.4' E	Fl.(2)W.	33 10	4	Metal mast.	
24245 <i>F 1935</i>	Binturan Firing Range, "B1".	4° 53.2' N 114° 40.5' E	Fl.Y. period 10s			Beacon.	
24245.2 <i>F 1935.2</i>	-"B2".	4° 56.0' N 114° 45.1' E	Fl.Y. period 5s			Beacon.	
24248 <i>F 1934.8</i>	Ampa Patches.	4° 57.0' N 114° 22.0' E	Fl.(4)W. period 20s	57 17	12	Metal tripod.	
24249 <i>F 9527.48</i>	-Magpie Oilfield.	5° 06.1' N 114° 26.9' E	Fl.(3)W. period 10s	98 30	15	Oil platform.	
	-RACON		M(--)				
24252	RACON, Fairley Oilfield.	4° 57.1' N 114° 04.0' E	F(••-•)		2		
BRUNEI CHANNEL:							
24256 <i>F 1939</i>	-North Rambler Banks, No. "26".	4° 59.3' N 115° 05.6' E	Fl.R. period 4s	29 9	5	Concrete pile structure, yellow square, black top on platform.	Radar reflector.
24256.2 <i>F 1939.5</i>	-No. "20".	4° 59.6' N 115° 05.5' E	Q.(3)+L.Fl.W. period 15s			E. CARDINAL BYB, beacon, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BRUNEI							
24257 F 1940	-Muara Bar, No. "27".	4° 59.5' N 115° 05.3' E	Q.(3)W. period 10s	18 5	8	E. CARDINAL BYB, beacon.	Radar reflector.
24258 F 1940.2	-Pulau Maura Besar Range, front.	4° 59.6' N 115° 05.9' E	F.W.	33 10	10	Beacon, white triangular daymark, point up.	
24259 F 1940.21	--Rear, 280 meters 051° from front.	4° 59.8' N 115° 06.0' E	F.W.	53 16	12	Beacon, white triangular daymark, point down.	
24260 F 1940.3	-Badu Kang East, No. "28".	4° 58.0' N 115° 04.0' E	Fl.R. period 3s	30 9	5	Three pile concrete structure, red square daymark.	Radar reflector.
24264 F 1940.4	-Badu Kang West, No. "29".	4° 58.0' N 115° 03.0' E	Fl.G. period 3s	30 9	6	Three pile concrete structure, green square daymark.	
24265 F 1941	-South BarBank No. "30" Range, front.	4° 56.3' N 115° 01.7' E	Fl.(2)R. period 3s	29 9	4	Concrete pile structure, red square on wooden tower.	
24266 F 1941.1	--Pulau Churmin, N. end, rear, about 880 meters 226°54' from front.	4° 56.0' N 115° 01.3' E	Fl.(2)W. period 10s	52 16	12	Metal framework tower, red and white square.	
24268 F 1941.2	-Barrier Bar, No. "31".	4° 56.0' N 115° 02.0' E	Q.G.	26 8	4	Concrete tripod, green square daymark.	Radar reflector.
				26 8		concrete tripod.	
24272 F 1941.6	-Churmin Rock No. "32".	4° 56.0' N 115° 01.0' E	Q.R.	26 8	4	Concrete tripod, red square daymark.	Radar reflector.
24276 F 1941.8	-Tanjong Simasta No. "33".	4° 54.0' N 115° 00.0' E	Fl.(2)G. period 3s	30 9	4	Concrete tripod, green square daymark.	
24280 F 1942	-Pelambayan No. "35".	4° 53.0' N 114° 59.0' E	Fl.G. period 10s	24 7	4	Concrete tripod, green square daymark.	
24284 F 1942.4	-Buang Tawar No. "36".	4° 52.0' N 114° 58.0' E	Fl.R. period 3s	30 9	4	Concrete tripod, red square daymark.	
24288 F 1942.7	-Bandar Seri Begawan, Kota Batu No. "37".	4° 53.0' N 114° 58.0' E	Fl.G. period 5s	20 6	2	Concrete pile structure, green square daymark.	
24290 F 1942.9	-No. "38".	4° 51.7' N 114° 56.9' E	Q.R.			PORT (A) R, beacon.	
24292 F 1943	-Pulau Sibungor, No. "39".	4° 52.0' N 114° 57.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	30 9	4	Concrete tripod, green square daymark.	
24294 F 1943.2	-No. "41".	4° 52.5' N 114° 56.9' E	Fl.(4)G. period 10s			STARBOARD (A) G, beacon.	
24295 F 1943.3	-No. "38A".	4° 52.6' N 114° 56.7' E	Fl.(2)R. period 15s			PORT (A) R, beacon.	
24296 F 1943.4	-No. "40".	4° 53.0' N 114° 57.0' E	Fl.(4)R. period 10s	36 11	5	Concrete tripod, red square daymark.	
24298 F 1943.5	-No. "42".	4° 53.0' N 114° 56.8' E	Fl.R. period 5s			PORT (A) R, beacon.	
24316 F 1938	Tanjung Sapo, on Pulau Muara Besar, No. "22".	4° 59.7' N 115° 07.6' E	Fl.W.R. period 10s	91 28	10	White metal framework tower.	W. 221°-88°, obsc.-153°, R.-221°. Lighted beacons 60, 62, 64 and 66 mark channel to Tg. Lumba Lumba.

MUARA HARBOR:

24328 F 1936.5	-Muara entrance Range, front.	5° 01.3' N 115° 05.1' E	F.G. (neon)	49 15	10	Metal framework tower on piles, red truncated triangle, point up, white stripe; 46.
24332 F 1936.51	--Rear, about 1037 meters 209°48' from front.	5° 00.8' N 115° 04.8' E	F.G. (neon)	92 28	12	Metal framework tower, red truncated triangular daymark, point down, white stripe; 89.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BRUNEI							
24334 <i>F 1936.55</i>	-No. "1AW".	5° 04.0' N 115° 06.5' E	Q.G.	36 11	6	Green beacon.	
24335 <i>F 1936.56</i>	-No. "2AE".	5° 03.9' N 115° 06.7' E	Q.R.	36 11	6	Red beacon.	
24336 <i>F 1936.4</i>	-No. "1", near W. breakwater, head.	5° 04.0' N 115° 06.0' E	Q.G.	35 11	6	Concrete pile structure, green square daymark.	Radar reflector.
24340 <i>F 1936.42</i>	-No. "2", E.	5° 03.5' N 115° 06.5' E	Q.R.	36 11 11 3	6	Concrete pile structure, red square daymark.	Radar reflector.
24344 <i>F 1936.43</i>	-Training Wall No. "3" W.	5° 03.1' N 115° 06.0' E	Fl.G. period 3s	30 9	6	Concrete pile structure, green square daymark.	<i>Destroyed (1989).</i>
24348 <i>F 1936.44</i>	-No. "4", E.	5° 03.0' N 115° 06.2' E	Fl.R. period 3s	30 9	4	Concrete pile structure, red square daymark.	Radar reflector.
24352 <i>F 1936.45</i>	-No. "5", W.	5° 02.6' N 115° 05.7' E	Fl.G. period 5s	30 9	6	Concrete pile structure, green square daymark.	<i>Temporarily extinguished (1989).</i> Radar reflector.
24356 <i>F 1936.46</i>	-No. "6", E.	5° 02.5' N 115° 05.9' E	Fl.R. period 5s	30 9	4	Concrete pile structure, red square daymark.	Radar reflector.
24360 <i>F 1936.6</i>	-No. "7", near W. breakwater, head.	5° 02.0' N 115° 05.0' E	Fl.(3)G. period 5s	30 9	6	Concrete tripod, green square daymark on platform.	Radar reflector.
24362 <i>F 1936.47</i>	-SE. of Naval Base.	5° 01.8' N 115° 05.4' E	Q.R.		4	PORT (A) R, beacon.	
24364 <i>F 1937</i>	-No. "12", close NW. of Tanjong Ledong.	5° 01.2' N 115° 04.3' E	Fl.(2)R. period 5s	19 6	3	Piles, red and white square daymark on platform.	Radar reflector.
24365 <i>F 1937.2</i>	-No. "14".	5° 00.8' N 115° 04.3' E	Fl.R. period 10s	26 8	3	Concrete tripod, red square daymark on platform.	Radar reflector.
24366 <i>F 1937.25</i>	-No. "16".	5° 00.3' N 115° 04.6' E	Fl.(2)R. period 15s	29 9	3	Concrete tripod, red square daymark on platform.	<i>Fl.(4)Y. beacon marks sewer end 0.7 mile W.</i> Radar reflector.
24367 <i>F 1937.3</i>	-No. "18".	4° 59.9' N 115° 05.0' E	Fl.R. period 5s	29 9	3	Concrete tripod, red square daymark on platform.	Radar reflector.
24368 <i>F 1936</i>	Pelong Rocks, southern summit.	5° 05.0' N 115° 03.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	79 24	13	Metal framework tower; 36.	
24372 <i>F 9527.5</i>	-Champion Shoals.	5° 12.7' N 114° 44.6' E	Fl.(4)W. period 10s	112 34	15	Oil platform.	
-RACON							
C(-•-•)							

MALAYSIA (SABAH)							
24376 <i>F 2825.2</i>	Layang-Layang, Swallow Reef.	7° 24.0' N 113° 50.0' E	Fl.W. period 5s	26 8	10	Gray triangular concrete tower.	
24380 <i>F 2825.3</i>	Semarang Barat Besar, Royal Charlotte Reef.	6° 57.0' N 113° 36.0' E	Fl.(2)W. period 10s	26 8	10	Gray triangular concrete tower.	
24384 <i>F 2825.4</i>	Semarang Barat Kecil, Louisa Reef.	6° 20.0' N 113° 14.0' E	Fl.W. period 10s	26 8	10	Gray triangular concrete tower.	
BRUNEI BAY:							
24386.2 <i>F 1945.2</i>	-Kuala Lawas.	4° 59.0' N 115° 24.6' E	Fl.R. period 3s	20 6	5	PORT (A) R, beacon, topmark.	
24387 <i>F 1946</i>	Sipitang.	5° 05.0' N 115° 32.8' E	Fl.R. period 5s			PORT (A) R, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24388 <i>F 1946.5</i>	-Teluk Padas.	5° 09.5' N 115° 31.7' E	Fl.R. period 3s	20 6	5	PORT (A) R, beacon, topmark.	
24392 <i>F 1947</i>	Pulau Kuraman.	5° 14.0' N 115° 08.0' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	215 66	24	White frame tower, red dome; 50.	Obscured from NE. by Pulau Labuan.
24396 <i>F 1949</i>	Pulau Papan.	5° 15.2' N 115° 16.2' E	Fl.W. period 7s	79 24	15	White framework tower.	Obscured 180°-270°.
24397 <i>F 1948.5</i>	--SW.	5° 14.9' N 115° 16.0' E	Fl.G. period 3s		8	STARBOARD (A) G, beacon.	
VICTORIA (LABUAN):							
24404 <i>F 1951.8</i>	-New Liberty Pier, SE. head.	5° 16.3' N 115° 14.7' E	F.W.			Dolphin.	
24418 <i>F 1951.6</i>	-ASB jetty, head	5° 15.5' N 115° 14.7' E	F.R.				
24424 <i>F 1951.3</i>	-Hamilton Point, Flour Feed Mill Pier.	5° 14.8' N 115° 14.6' E	F.R.		5		F.R. on mill roof 400 meters WNW.
24432 <i>F 1949.8</i>	-East Channel Beacon No. "1", Port.	5° 20.0' N 115° 18.0' E	Fl.R. period 5s	39 12	7	PORT (A) R, beacon, topmark.	
24436 <i>F 1950.2</i>	--No. "2", Port.	5° 17.6' N 115° 18.3' E	Fl.R. period 10s	10 3	3	PORT (A) R, beacon, topmark.	
24440 <i>F 1948</i>	-Bethune Head.	5° 23.6' N 115° 15.0' E	Fl.(2)W. period 15s	151 46	20	White metal framework tower; 79.	
24442.1 <i>F 1953.2</i>	Sarangtong.	5° 17.4' N 115° 22.1' E	Fl.G. period 5s	30 9	6	Metal structure, green cone topmark.	
24442.2 <i>F 1953.4</i>	-Off N. head.	5° 17.9' N 115° 22.5' E	Fl.R. period 5s	30 9	5	Metal structure, red can topmark.	Visible 185°-050°.
24443 <i>F 1954.2</i>	Pine Point Shoals.	5° 33.3' N 115° 27.1' E	Fl.R. period 5s		8	PORT (A) R, beacon.	
24445 <i>F 1954.5</i>	Nosong Shoals.	5° 43.1' N 115° 30.4' E	Fl.G. period 3s		8	STARBOARD (A) G, beacon.	
24446 <i>F 1955</i>	Pulau Tiga.	5° 43.9' N 115° 38.3' E	Fl.(4)W. period 20s	242 74	23	White metal framework tower; 82.	Visible 050°-235°.
24448 <i>F 1955.6</i>	Dunlop Shoals.	5° 42.0' N 115° 37.0' E	Fl.G. period 3s	23 7	3	STARBOARD (A) G, beacon, topmark.	Temporarily extinguished (1990).
24450 <i>K 1954.4</i>	Tangut Rock.	5° 38.8' N 115° 35.8' E	Fl.R. period 3s		8	PORT (A) R, beacon.	
24452 <i>F 1955.7</i>	Kuala Penyu.	5° 35.0' N 115° 37.7' E	Fl.R. period 3s	20 6	5	PORT (A) R, beacon, topmark.	
24457 <i>F 1955.8</i>	Tanjung Papar.	5° 45.0' N 115° 53.9' E	Fl.G. period 5s	20 6	5	STARBOARD (A) G, beacon, topmark.	
24458 <i>F 1955.9</i>	Deluar Shoals.	5° 52.8' N 115° 42.2' E	Fl.R. period 5s	23 7	8	PORT (A) R, beacon, topmark.	
24460	Dampier Shoals, "KTMP-A".	6° 06.0' N 115° 36.0' E	Fl.(2)W. period 15s			Oil platform.	
24464 <i>F 1956</i>	Pulau Gaya.	6° 02.5' N 116° 00.7' E	Fl.W. period 5s	550 168	35	White framework tower, red bands; 80.	Temporarily extinguished (1987).
24468 <i>F 1956.6</i>	Pulau Plompong.	6° 01.0' N 116° 04.0' E	Fl.G. period 3s	32 10	6	Green 5 legged structure, green daymark.	
KOTA KINABALU (JESSELTON):							
24472 <i>F 1957</i>	-E. side of Grieve Reef.	6° 00.0' N 116° 04.0' E	Fl.(2)W. period 7s	42 13	6	Red metal column, black bands, black vertical balls; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24476 <i>F 1957.3</i>	-No. "2".	6° 00.1' N 116° 04.2' E	Fl.G. period 3s	33 10	6	Green 5 legged structure, green triangular daymark.	
24480 <i>F 1958</i>	-Gueritz Shoal.	6° 00.1' N 116° 04.5' E	Fl.(2)W. period 8s	29 9	5	ISOLATED DANGER BRB, beacon, topmark.	F.R. on radio masts 2.9 miles and 4 miles SSW. R. light on building 2 miles ENE.
24484 <i>F 1957.8</i>	-Comber Reef.	6° 00.0' N 116° 05.0' E	Q.R.	3	PORT (A) R, beacon, topmark.		
24488 <i>F 1957.9</i>	-Tanjong Lipat.	6° 00.0' N 116° 05.0' E	Fl.R. period 2s	3	PORT (A) R, beacon, topmark.		
24492 <i>F 1957.6</i>	--Normanhurst Reef.	6° 00.2' N 116° 05.1' E	Fl.(4)W. period 20s	3	Green pile, green triangular daymark.		
24496 <i>F 1957.7</i>	--SW. head.	6° 00.2' N 116° 04.9' E	Fl.R. period 5s	36 11	4	PORT (A) R, beacon, topmark.	
24500 <i>F 1958.05</i>	-Pier, head.	5° 59.0' N 116° 05.0' E	F.R.	15 5	3	Mooring dolphin.	
24504 <i>F 1958.2</i>	-Harris Reef.	6° 00.0' N 116° 04.0' E	Fl.(2)W. period 5s	18 5	3	Black and yellow beacon.	
24508 <i>F 1958.9</i>	-Tanjong Aru.	5° 57.6' N 116° 01.5' E	Fl.G. period 5s	18 5	5	STARBOARD (A) G, beacon, topmark.	
24510 <i>F 1959.8</i>	Sapangar Bay.	6° 04.6' N 116° 06.8' E	Fl.G. period 3s	33 10	6	STARBOARD (A) G, beacon, topmark.	F.I.G. 3s on beacon 0.8 mile NE.
24511 <i>F 1959.5</i>	-Melanim Point.	6° 04.7' N 116° 05.9' E	Fl.R. period 3s	33 10	6	PORT (A) R, beacon, topmark.	F.I.R. 3s on beacons 0.9 mile and 1.5 miles NE.
24512 <i>F 1961.3</i>	Slime Rock.	6° 23.0' N 116° 19.0' E	Fl.R. period 5s	31 9	8	Five leg metal structure, square topmark.	Visible 297°-158°.
24516 <i>F 1961</i>	Pulau Usukan.	6° 24.0' N 116° 20.0' E	Fl.(2)W. period 15s	190 58	17	White metal framework tower; 20.	Aero Radiobeacon 15.8 miles SSW.
24520 <i>F 1961.5</i>	Tanjong Nabolan.	6° 22.0' N 116° 20.0' E	Fl.G. period 5s	33 10	4	Green five leg metal beacon, triangular daymark.	
24524 <i>F 1962</i>	Mantanani Islands.	6° 43.0' N 116° 18.0' E	L.FI.W. period 10s fl. 2s, ec. 8s	155 47	15	Round stone tower; 16.	Obscured 258°-278°.
24528	South Furious Shoals "SFV-A".	6° 47.0' N 116° 14.0' E	Mo.(U)W. period 15s			Vent stack.	
24532 <i>F 1964</i>	Pulau Kalampunian.	7° 03.0' N 116° 45.0' E	L.FI.W. period 20s fl. 2.5s, ec. 17.5s	85 26	15	White tower, red bands; 50.	
24536 <i>F 1968</i>	-Sandilands Rock.	6° 52.0' N 116° 52.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	7	STARBOARD (A) G, tripod.	
KUDAT HARBOR:							
24540 <i>F 1969</i>	-Gueritz Rock.	6° 53.0' N 116° 51.0' E	Q.R.	18 5	3	Pile, black and white checkered conical topmark; 18.	
24544 <i>F 1970</i>	-Wharf, head.	6° 53.0' N 116° 51.0' E	F.R.			Dolphin.	
24545 <i>F 1974.3</i>	Sungai Murudu.	6° 37.1' N 116° 49.1' E	Fl.R. period 5s	5	PORT (A) R, beacon, topmark.		
24545.5 <i>F 1974</i>	Sungai Mattunggong.	6° 39.2' N 116° 48.6' E	Fl.G. period 5s	5	STARBOARD (A) G, beacon, topmark.		
24546 <i>F 1971</i>	Pulau Bengkoka.	6° 50.2' N 117° 00.5' E	Fl.G. period 5s			STARBOARD (A) G, beacon, topmark.	
24547 <i>F 1973</i>	Zebra Reefs.	6° 45.4' N 116° 57.9' E	Fl.G. period 5s			STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24553 <i>F 1976.2</i>	South Channel Dangers.	7° 05.0' N 117° 08.7' E	Fl.R. period 5s	23 7	6	PORT (A) R, pile, topmark.	
24561 <i>F 1977.5</i>	-Eastwards.	6° 59.1' N 117° 19.4' E	Fl.R. period 5s			PORT (A) R, pile, topmark.	
24564 <i>F 1978.6</i>	Lubani Rock.	6° 54.0' N 117° 23.0' E	Fl.G. period 3s	23 7	4	STARBOARD (A) G, topmark.	
24568 <i>F 1978</i>	Pulau Kukaban.	6° 55.8' N 117° 24.3' E	Fl.W. period 10s	30 9	10	White framework tower.	
24580 <i>F 1979</i>	-Gibson Reef.	6° 50.2' N 117° 32.7' E	Fl.G. period 5s	23 7	5	STARBOARD (A) G, pile, topmark.	
24584 <i>F 1978.9</i>	Sipindung Cay.	6° 51.5' N 117° 32.9' E	Q.R.	20 6	3	PORT (A) R, pile, topmark.	
24585 <i>F 1979.3</i>	Harrison Reef.	6° 50.2' N 117° 34.2' E	Fl.R. period 5s	26 8	6	PORT (A) R, pile, topmark.	
24589 <i>F 1979.8</i>	Leonan Reef.	6° 44.5' N 117° 37.4' E	Fl.G. period 5s	20 6	5	STARBOARD (A) G, pile, topmark.	
24593 <i>F 1981</i>	Pulau Lankayan.	6° 31.1' N 117° 55.0' E	Fl.G. period 5s			STARBOARD (A) G, pile, topmark.	
24595 <i>F 1981.8</i>	Turtle Rock.	6° 12.4' N 118° 02.6' E	Fl.(2)W. period 8s		6	ISOLATED DANGER BRB, beacon, topmark.	
24596 <i>F 1982</i>	Pulau Siligaan.	6° 10.0' N 118° 04.0' E	Fl.W. period 10s	85 26	15	White metal framework tower, red bands.	
24596.2 <i>F 1982.08</i>	-Reef, P. Silingaan, E.	6° 10.5' N 118° 04.4' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24596.4 <i>F 1982.14</i>	-Reef, P. Silingaan, SE.	6° 10.2' N 118° 04.4' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24597 <i>F 1982.2</i>	Pulau Gulisaan.	6° 09.1' N 118° 03.1' E	Fl.G. period 5s	20 6	7	STARBOARD (A) G, pile, topmark.	
24600 <i>F 1982.4</i>	Pulau Bonting.	6° 07.0' N 118° 00.0' E	Q.W.	35 11	3	White pile, red bands.	
24602 <i>F 1983</i>	Gubbins Rock.	6° 03.3' N 118° 11.6' E	Fl.(2)W. period 8s		6	ISOLATED DANGER BRB, beacon, topmark.	
24604 <i>F 1984</i>	-Pulau Berhala.	5° 52.2' N 118° 08.9' E	Fl.W. period 6.5s	635 194	28	White framework tower; 65.	
24605 <i>F 1986.5</i>	Allard Bank.	5° 49.3' N 118° 05.9' E	Fl.G. period 5s	23 7	5	STARBOARD (A) G, beacon, topmark.	
24606 <i>F 1985</i>	Sandakan Harbor, entrance to Trusan Duyong.	5° 48.4' N 118° 09.1' E	Fl.R. period 5s			PORT (A) R, beacon, topmark.	
24608 <i>F 1986</i>	-Reef.	5° 48.0' N 118° 04.0' E	Q.G.	16 5	3	STARBOARD (A) G, beacon, topmark; 18.	Q.R. on radio mast 3 miles NE.
24608.2 <i>F 1985.7</i>	-On reef E. of Tg. Buli Luku.	5° 47.1' N 118° 03.8' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24609 <i>F 1985.3</i>	-Pulau Bai, NE.	5° 47.8' N 118° 07.6' E	V.Q.(3)W. period 3s		6	E.CARDINAL BYB, beacon, topmark.	
24610 <i>F 1985.5</i>	--NW.	5° 46.9' N 118° 05.6' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24612 <i>F 1987</i>	Selat Kinabatangan.	5° 39.0' N 118° 36.0' E	Fl.W. period 10s	79 24	15	White metal framework tower, red bands.	
24616 <i>F 1987.5</i>	Pegasus Reef.	5° 47.0' N 118° 50.0' E	Fl.(2)W. period 8s	46 14	9	ISOLATED DANGER BRB, beacon, topmark.	
24620 <i>F 1988</i>	Tanjong Terang.	5° 25.3' N 119° 12.6' E	Fl.W. period 6s	85 26	25	White metal framework structure; 75.	Visible 121°-315°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24624 F 1988.3	Tanjong Labian.	5° 09.0' N 119° 13.0' E	L.FI.W. period 10s fl. 2s, ec. 8s	85 26	15	White metal framework tower.	Visible 225°-45°.
24628 F 1988.6	Tg. Tungku.	5° 00.0' N 118° 52.0' E	Fl.(3)W. period 20s	80 24	15	White metal lattice tower; 75.	
24632 F 1989	Tanjong Membatu.	4° 57.0' N 118° 38.0' E	Fl.W. period 5s	230 70	15	White metal lattice tower; 35.	
24636 F 1990	Armstrong Reef.	4° 56.0' N 118° 26.0' E	Fl.(2)G. period 15s	26 8	7	STARBOARD (A) G, tower.	
24640 F 1990.2	Pulau Sakar, off E. head.	4° 59.0' N 118° 23.0' E	Q.R.	18 5	3	Pile, red and white checkered rectangular daymark; 18.	
24644 F 1990.24	About 2.8 kilometers NE. of Pulau Sakar.	5° 00.0' N 118° 25.0' E	Fl.G. period 3s	20 6	3	STARBOARD (A) G, tripod.	
24648 F 1990.3	Halloran Reef.	4° 59.7' N 118° 21.7' E	Q.R.	15 5	3	Pile, red and white checkered daymark.	
24652 F 1990.4	Voorwyk Reef.	5° 01.0' N 118° 21.0' E	Q.R.	18 5	3	Pile, red and white checkered daymark.	
24656 F 1990.5	Darvel Bay, Lahad Datu.	5° 01.0' N 118° 20.0' E	F.R.	22 7	6	White framework tower; 20.	
24660 F 1991.2	Pulau Baik Rocks.	4° 57.0' N 118° 15.0' E	Q.G.	20 6	3	STARBOARD (A) G, beacon; 20.	
24664 F 1991	Kalunaun.	4° 55.0' N 118° 16.0' E	Fl.W. period 10s	126 38	17	Iron framework tower.	
24668 F 1991.3	Rashleigh Reef.	4° 44.0' N 118° 17.0' E	Fl.G. period 3s	22 7	5	STARBOARD (A) G, tripod.	
24672 F 1991.32	N. Greep Reef.	4° 43.0' N 118° 16.0' E	Q.R.	15 5	4	White pile, red bands.	
24676 F 1991.36	SW. Greep Reef.	4° 42.3' N 118° 15.2' E	Q.R.	16 5	3	Red pile.	
24680 F 1991.38	Lloyd Reef.	4° 42.0' N 118° 16.0' E	Q.G.	17 5	3	Green column.	
24682 F 1991.72	Semprona, N. entrance.	4° 31.2' N 118° 37.4' E	Fl.(2)W. period 5s	16 5	5	ISOLATED DANGER BRB, beacon, topmark.	
24684 F 1991.6	Pulau Mataking.	4° 34.7' N 118° 56.7' E	Fl.W. period 20s	90 27	15	White metal framework tower; 80.	
RACON							
M(--)							
24688 F 1992	Pulau Si Amil.	4° 19.0' N 118° 53.0' E	Fl.(2)W. period 15s fl. 1.5s, ec. 2s fl. 1.5s, ec. 10s	350 107	15	White metal framework tower, red bands; 35.	
24692 F 1999.5	Pulau Gusungan.	4° 18.0' N 118° 33.0' E	Fl.G. period 5s	16 5	5	STARBOARD (A) G, tripod.	
24696 F 1992.3	Cust Reef.	4° 17.0' N 118° 43.0' E	Fl.R. period 3s	17 5	5	PORT (A) R, tripod.	
24700 F 1992.14	Pulau Ligitan.	4° 09.8' N 118° 53.1' E	Fl.W. period 5s	33 10	11	White metal framework tower, red bands.	
24704 F 1992.2	Pulau Sipadan.	4° 06.6' N 118° 37.7' E	Fl.(3)W. period 20s	80 24	14	White metal framework tower;	Visible 214°-110°.
RACON							
S(•••)							
24708 F 1992.7	Horn Reef.	4° 15.9' N 118° 25.5' E	Fl.R. period 10s	12 4	8	PORT (A) R, tripod; 13.	
24712 F 1993	Heel Reef.	4° 13.8' N 118° 14.2' E	Fl.R. period 5s	20 6	5	PORT (A) R, tower; 20.	

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MALAYSIA (SABAH)							
24715 <i>K</i> 1993.2	Karang Alert.	4° 09.6' N 118° 15.9' E	Q.(6)+L.FI.W. period 15s		5	S. CARDINAL YB, beacon.	
24716 <i>F</i> 1993.4	Hand Rock.	4° 08.4' N 118° 10.8' E	FI.R. period 2s	24 7	5	PORT (A) R, tripod, topmark; 23.	
24728 <i>F</i> 1994	Batu Tinagat.	4° 13.5' N 117° 58.7' E	FI.W.R. period 7.5s	325 99	W. R.	25 16	Round metal framework tower; W. 297°-329°, R. elsewhere. 30.
24732 <i>F</i> 1995.4	Wicks Rock.	4° 15.0' N 117° 53.0' E	Q.W.	12 4	3	Black pile.	
24736 <i>F</i> 1997	Adolphy Point.	4° 16.0' N 117° 40.0' E	FI.(3)Y. period 5s	52 16	9	Metal framework tower white triangular topmark.	Visible 254°-274°. In line with beacon 264°.
24740 <i>F</i> 1999	Coal Mine Reach.	4° 14.0' N 117° 38.0' E	FI.W. period 5s	65 20	5		Visible 212°30'- 232°30'.
INDONESIA (BORNEO)							
24744 <i>F</i> 1999.6	Palau Nunukan Timur.	4° 03.9' N 117° 45.0' E	FI.R. period 5s	49 15	4	PORT (A) R, beacon; 39.	
24745 <i>F</i> 1999.7	Makassar Bank.	3° 59.5' N 117° 56.6' E	FI.G. period 3s	49 15	7	STARBOARD (A) G, beacon.	
24746 <i>F</i> 1999.65	Gosong Nunukan.	3° 58.0' N 117° 50.9' E	Q.(3)W. period 10s	46 14	12	E. CARDINAL BYB, beacon, topmark.	
24747 <i>F</i> 1999.8	Karang Banda.	3° 49.7' N 118° 00.6' E	FI.(2)W. period 12s	59 18	11	ISOLATED DANGER BRB, beacon.	
24748	Lighted Buoy.	3° 24.7' N 117° 56.5' E	L.FI.W. period 10s			Red and white stripes, red ball topmark.	
24749 <i>F</i> 1999.9	E. of Tg Ahus.	3° 46.3' N 117° 56.5' E	Q.(3)W. period 10s	49 15	10	E. CARDINAL BYB, beacon, topmark.	
24752 <i>F</i> 2000	Pulau Bunyu.	3° 33.6' N 117° 54.6' E	FI.W. period 6s	59 18	11	White beacon.	
24753 <i>F</i> 2000.5	-Tanjung Arang.	3° 27.1' N 117° 52.4' E	FI.W. period 5s	154 47	18		
24754 <i>F</i> 2001	Tg. Tibi.	3° 28.3' N 117° 40.2' E	FI.W. period 7s fl. 1s, ec. 6s	43 13	12	White beacon.	
24756 <i>F</i> 2002	Muasa Sebawang, Palau Tiga.	3° 37.2' N 117° 25.8' E	FI.W. period 3s fl. 1s, ec. 2s			White beacon.	
TARAKAN:							
24760	-Lighted Buoy.	3° 14.7' N 117° 53.3' E	Iso.W. period 2s			Red and white striped buoy.	Radar reflector.
24762 <i>F</i> 2009	-Tg. Batu.	3° 14.5' N 117° 39.0' E	FI.G. period 5s fl. 1s, ec. 4s	43 13	12	Green beacon.	
24764 <i>F</i> 2008	-Lingkas approach Range, front.	3° 13.9' N 117° 37.1' E	Q.W.	46 14	10	Red and white striped beacon; 33.	
24768 <i>F</i> 2008.1	--Rear, about 914 meters 267° from front.	3° 13.9' N 117° 36.6' E	FI.W. period 5s	62 19	6	Black metal beacon; 49.	
24770 <i>F</i> 2007	-SW.	3° 10.2' N 117° 31.1' E	FI.R. period 4s	52 16	12	Red beacon.	
24771 <i>F</i> 2010.2	-Tg. Keris, SE.	3° 15.8' N 117° 33.2' E	FI.R. period 6s fl. 1s, ec. 5s	49 15	12	PORT (A) R, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24772 <i>F 2010</i>	-Tanjung Mengacu.	3° 14.6' N 117° 37.4' E	Fl.G. period 10s	36 11	4	Green metal beacon; 26.	
24772.5 <i>F 2014.3</i>	Makapan.	3° 00.1' N 117° 49.5' E	Fl.W. period 6s	46 14	10		Radar reflector.
24773 <i>F 2015.5</i>	Pulau Panjang.	2° 23.2' N 118° 11.8' E	Fl.W. period 5s	46 14	11	White beacon.	
24773.1 <i>F 2014.5</i>	Karang Baliktaba.	2° 35.0' N 118° 00.4' E	Fl.W. period 8s	46 14	10	White metal framework structure; 33.	
24774 <i>F 2015</i>	Tg Bolituwatan.	2° 18.9' N 118° 33.7' E	Fl.W. period 5s	131 40	18		
24775 <i>F 2015.7</i>	Karang Derawan.	2° 15.7' N 118° 14.4' E	Fl.W. period 10s	46 14	8	White metal framework structure; 33.	
24775.1 <i>F 2016.5</i>	Karang Tidung.	2° 09.8' N 118° 10.5' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 33.	
24775.5 <i>F 2019</i>	Bakungan Island.	2° 06.0' N 118° 43.8' E	Fl.W. period 10s	115 35	22	White beacon; 98.	
24776 <i>F 2016</i>	Sangalakki.	2° 05.2' N 118° 24.2' E	Fl.W. period 3s	49 15	11		
24778 <i>F 2024.3</i>	Muara Pantai.	2° 01.8' N 117° 51.3' E	Fl.G. period 3s	46 14	6	Green beacon.	
24779 <i>F 2024.2</i>	-S.	1° 57.9' N 117° 53.2' E	Fl.W. period 7s fl. 1s, ec. 6s	43 13	12	White beacon.	
24780 <i>F 2018</i>	Karang Malalungan, N. point.	1° 55.6' N 118° 27.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	7	Red metal framework structure; 26.	
RACON		K(- -)					
24782 <i>F 2020</i>	Karang Gonsungan.	1° 57.2' N 118° 48.3' E	Fl.(3)W. period 20s	42 13	10		
24784 <i>F 2022</i>	Karana Muaras.	1° 46.3' N 119° 01.7' E	Fl.W. period 5s	98 30	15	Metal framework, upper part black, lower part white; 102.	
24786 <i>F 2022.5</i>	Karang Besar.	1° 33.3' N 118° 23.6' E	Fl.W. period 9s	42 13	10		
24787 <i>F 2022.3</i>	Bilang Bilangan Island.	1° 33.7' N 118° 57.0' E	Fl.W. period 5s	443 135	16	White fiberglass beacon; 33.	Radar reflector.
24788 <i>F 2024.5</i>	Tanjung Mangkalihat.	0° 59.3' N 118° 59.8' E	Fl.W. period 5s	138 42	18	White metal framework tower; 108.	Visible 180°-023°. Obscured by trees 000°-023° at short distances. Radio beacon.
RACON		T(-) period 40s					
					8		Azimuth coverage 180°-007°.
24790 <i>F 2024.6</i>	Birahbirahan.	0° 41.5' N 118° 28.3' E	Fl.(2)W. period 10s	46 14	11	ISOLATED DANGER BRB, beacon, topmark.	
24792 <i>F 2024.7</i>	Sangkulirang.	0° 46.7' N 118° 04.7' E	Fl.R. period 5s	43 13	8	Red metal framework structure.	Radar reflector.
24792.5 <i>F 2024.65</i>	Pulau Miang Besar.	0° 43.4' N 118° 01.3' E	Fl.W. period 6s	167 51	19	White lighthouse.	
24793 <i>F 2024.73</i>	Karang Tg Bungulan.	0° 36.6' N 117° 50.0' E	Fl.(2)W. period 6s	42 13	12	ISOLATED DANGER BRB, beacon, topmark.	
24794 <i>F 2024.75</i>	Sangatta.	0° 32.7' N 117° 37.1' E	Fl.W. period 5s	430 131	16	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks	
INDONESIA (BORNEO)								
24794.1 F 2024.81	-Channel beacon.	0° 32.1' N 117° 46.2' E	Q.W.	23 7	7	N. CARDINAL BY, topmark.	Channel marked by lighted beacons. Radar reflector.	
	-RACON		K(- • -)				(3 & 10cm)	
24796 F 2024.8	Sengata Reef.	0° 20.0' N 117° 43.0' E	Fl.(2)W. period 8s	82 25	10	White metal structure.	Radar reflector.	
LITHOU HARBOR:								
24796.6 F 2025	--Entrance Range, front.	0° 08.9' N 117° 32.0' E	Q.W.	39 12		White beacon, red bands, triangular daymark, point up.		
24796.7 F 2025.1	--Rear, 300 meters 284° from front.	0° 08.9' N 117° 31.8' E	Iso.W. period 4s	66 20		Beacon, triangular daymark, point down.		
24797 F 2025.4	-Bututanbu Range, front.	0° 07.8' N 117° 33.2' E	Q.W.	39 12		Beacon, triangular daymark, point up.		
24797.1 F 2025.41	--Rear, 320 meters 148° from front.	0° 07.7' N 117° 33.3' E	Iso.W. period 4s	66 20		Beacon, triangular daymark, point down.		
24797.4 F 2025.6	-Segaja Range, front.	0° 09.8' N 117° 32.5' E	Q.W.	39 12		Beacon, triangular daymark, point up.		
24797.5 F 2025.61	--Rear, 320 meters 116° from front.	0° 09.7' N 117° 32.6' E	Iso.W. period 4s	66 20		Beacon, triangular daymark, point down.		
24797.8 F 2025.7	-Kiampam.	0° 10.5' N 117° 31.5' E	Q.G.	33 10	4	STARBOARD (A) G, beacon, topmark.		
24798 F 2025.8	-On reef.	0° 10.4' N 117° 31.0' E	Q.R.	33 10	4	PORT (A) R, beacon, topmark.		
24799 F 2025.9	Tg. Pokoayi.	0° 10.8' N 117° 30.1' E	Mo.(U)W. period 15s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 1.8s, ec. 10.8s		49 15	6	White beacon.	
BONTANG HARBOR:								
24800 F 2028	--Entrance Range, front.	0° 03.7' N 117° 32.7' E	Q.W.	52 16	12	White beacon, red bands, triangular daymark, point up; 52.		
24804 F 2028.1	--Rear, 567 meters 310°05' from front.	0° 03.9' N 117° 32.5' E	Iso.W. period 2s	75 23	12	White beacon, triangular daymark; 75.		
24808 F 2027	-Berabasbah.	0° 03.8' N 117° 33.5' E	Fl.(3+2)W. period 20.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s	118 36	22		Radar reflector.	
24810 F 2028.2	-Range, front.	0° 02.4' N 117° 32.2' E	Q.W.	23 7	12	White beacon, white triangular daymark, point up.		
24810.1 F 2028.21	--Rear, about 1540 meters 304° from front.	0° 02.9' N 117° 31.6' E	Iso.W. period 4s	59 18	16	White beacon, white triangular daymark, point up.		
24812 F 2028.3	-Second Range, front.	0° 05.0' N 117° 32.0' E	Fl.W. period 1.5s	52 16	9	White beacon, black bands, triangular daymark.		
24816 F 2028.31	--Rear, 622 meters 337° from front.	0° 05.1' N 117° 32.4' E	Fl.W. period 3s	75 23	9	White beacon, triangular daymark.		
24817 F 2028.5	-No. "3" Range, front.	0° 06.0' N 117° 30.6' E	Fl.W. period 2.5s	52 16	12	White beacon, black bands, triangular daymark.		
24817.2 F 2028.49	--Rear, 300 meters 049° from common front.	0° 06.1' N 117° 30.7' E	Iso.W. period 6s	75 23	12	Beacon, triangular daymark.		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24817.4 F 2028.9	--Rear "3B", 600 meters 307° from common front.	0° 06.2' N 117° 30.3' E	Fl.W. period 2.5s	75 23	12	White beacon, triangular daymark.	
24818 F 2029.4	-Range, front "4A".	0° 05.6' N 117° 28.6' E	Q.W.	52 16	9	White beacon, red bands, triangular daymark.	
24818.1 F 2029.41	--Rear "0D", 600 meters 269° from front.	0° 05.6' N 117° 28.3' E	Iso.W. period 2s	81 25	9	White beacon, triangular daymark, point down; 82.	
24818.3 F 2030.2	"MD 1".	0° 05.3' N 117° 29.5' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	30 9	4	SPECIAL Y, beacon, topmark.	Mooring beacon.
24818.4 F 2030	"MD 7".	0° 05.4' N 117° 29.3' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	30 9	4	SPECIAL Y, beacon, topmark.	Mooring beacon.
24818.5 F 2029.7	-No. "26".	0° 05.6' N 117° 29.0' E	Fl.R. period 2s			PORT (A) R, beacon, topmark.	
24818.7 F 2029.8	-No. "28".	0° 05.6' N 117° 28.9' E	Fl.R. period 2s			PORT (A) R, beacon, topmark.	
24819 F 2031	-Range "1G", front.	0° 04.6' N 117° 29.0' E	Q.W.	52 16	9	Beacon, white triangular daymark.	
24819.1 F 2031.1	--Rear "0G", 300 meters 229°45' from front.	0° 04.5' N 117° 28.9' E	Fl.W. period 6s	75 23	12	Beacon, white triangular daymark.	W. harbor entrance marked by lighted beacons.
SUNGAI MAHAKAM:							
24828 K 1462.39	-No. "2" Range, front.	0° 57.6' S 117° 18.4' E	Q.W.	29 9	10	White beacon, white triangular daymark, point up; 33.	Radar reflector.
24832 K 1462.41	-No. "2" Range, front.	0° 56.4' S 117° 18.2' E	Q.W.	33 10	10	White beacon, red bands, triangular daymark, point up.	Radar reflector.
24836 K 1462.4	-Common rear, 700 meters 316° from No. "2", 2,900 meters 181°35' from "2A".	0° 57.4' S 117° 18.2' E	Iso.W. period 2s	49 15	12	White beacon, white triangular daymark, point down.	Radar reflector.
24840 K 1462.2	-No. "1" Range, front.	0° 58.4' S 117° 18.8' E	Q.W.	23 7	8	White beacon, white triangular daymark, point up; 33.	
24844 K 1462.21	--Rear, 1,500 meters 170° from front.	0° 59.0' S 117° 19.0' E	Iso.W. period 4s	52 16	12		
--RACON							
		M(--)			5		
24844.5 K 1460.6	-Pegah Estuary.	1° 01.1' S 117° 21.4' E	Mo.(U)Y. period 15s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 0.4s fl. 1.4s, ec. 11.9s	59 18	12	SPECIAL Y, beacon.	
-RACON							
		Q(-- • -)					
24845 K 1460.7	-Pecko.	1° 06.5' S 117° 22.5' E	Fl.(3)Y. period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 11.8s	66 20	9	SPECIAL Y, beacon, topmark.	
24846 K 1462	-Bukuan Island.	0° 51.6' S 117° 17.8' E	Fl.W. period 15s	135 41	20	White metal framework structure.	
24847 K 1459.94	Sepinggang entrance.	0° 59.1' S 117° 09.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	PORT (A) R, beacon, topmark.	
24848 K 1459.95	-Entrance, SW.	0° 59.1' S 117° 09.8' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	4	STARBOARD (A) G, beacon, topmark.	
24852 K 1462.6	-Range, front.	0° 47.3' S 117° 16.9' E	Q.W.	23 7	8		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24856 K 1462.61	--Rear, 240 meters 320° from front.	0° 47.3' S 117° 16.9' E	Iso.W. period 2s	39 12	10		
24858 K 1468.05	-Tg Bayor.	0° 42.2' S 117° 40.2' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	46 14	12		
24860 K 1462.8	Muara Jawa, No. "4" Range, front.	0° 39.5' S 117° 18.3' E	Q.W.	23 7	8	Wooden beacon.	Temporarily extinguished (1987).
24864 K 1462.81	-Rear 300 meters 001°30' from front.	0° 39.3' S 117° 18.3' E	Iso.W. period 2s	39 12	10		Temporarily extinguished (1987).
24868 K 1464	Tg. Muaraberan Range, front.	0° 35.9' S 117° 17.6' E	Q.W.	23 7	8	White triangular daymark, point up.	
24872 K 1464.1	-Rear, 300 meters 356° from front.	0° 35.7' S 117° 17.6' E	Iso.W. period 2s	39 12	10	White triangular daymark, point down.	
24876	Sungaimariam Range, front.	0° 35.0' S 117° 16.0' E	Q.W.	23 7	8		
24880 K 1463.1	-Rear, 650 meters 324°30' from front.	0° 34.3' S 117° 16.3' E	Iso.W. period 2s	39 12	12		
24882 K 1468.5	Muara Berau.	0° 20.3' S 117° 29.7' E	Fl.W. period 10s	46 14	11	White beacon.	
TELUK BALIKPAPAN:							
24884	-Outer Light Buoy.	1° 21.5' S 116° 56.7' E	Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
24888 K 1459.2	-No. "1" Range, front.	1° 18.9' S 116° 52.9' E	Q.W.	16 5	7	White beacon, white triangular daymark, point up.	
24892 K 1459.21	--Rear, No. "2", 1445 meters 306°14' from front.	1° 18.4' S 116° 52.3' E	Iso.W. period 2s	49 15	11	Beacon, black and white triangular daymark, point down.	
24896 F 1459.42	-Range, front, 012°30' from common rear.	1° 19.2' S 116° 47.5' E	Q.W.	42 13	8	Beacon, white triangular daymark, point up; 49.	
24900 K 1459.4	-No. "3" Range, front.	1° 19.7' S 116° 49.0' E	Q.W.	26 8	9	White beacon, white triangular daymark, point up; 39.	
24904 K 1459.41	--Common rear, No. "4", 1.61 miles 270° from No. "3".	1° 19.7' S 116° 47.4' E	Iso.W. period 2s	82 25	11	White beacon, white triangular daymark, point down.	
24908 K 1459.6	-No. "5" Range, front.	1° 20.6' S 116° 50.4' E	Q.W.	21 6	8	White beacon, white triangle, point up.	
24912 K 1459.61	--Rear, No. "6", 1000 meters 140° from front.	1° 21.0' S 116° 51.0' E	Iso.W. period 4s	59 18	11	Beacon.	
24916	-Free standing drill column (pipe).	1° 21.0' S 116° 48.0' E	Q.W.	49 15	6		Q.W. 14m 6M close S, on pipe.
24918 K 1459.8	Tanjung Manggar.	1° 12.8' S 116° 58.6' E	Fl.(3)W. period 21s fl. 1s, ec. 2.5s fl. 1s, ec. 2.5s fl. 1s, ec. 13s	141 43	18	White metal framework structure; 131.	Radio beacon.
24920 K 1459	-Tanjung Tokong.	1° 16.5' S 116° 48.5' E	L.Fl.W. period 20s	306 93	25	White building; 26.	Obscured 038°-236°30'. Reserve light 2 F.W. 10M. F.R. shown during firing practice. Signal station.
-RACON							
24922 K 1459.76	-Tanjung Jenebora.	1° 12.0' S 116° 46.4' E	Fl.R. period 4s	52 16	12	Red beacon.	Azimuth coverage 090°-270°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24923 K 1459.73	-Tanjung Makasar.	1° 13.0' S 116° 47.1' E	Fl.G. period 5s	52 16	11	Green beacon.	
24923.7 K 1458	Tg. Maruat.	1° 37.4' S 116° 34.5' E	Fl.W. period 10s	52 16	12		
24924 K 1456	Teluk Adang.	1° 45.2' S 116° 28.4' E	Fl.W. period 4s	49 15	8	White beacon.	
24926 K 1457.5	Karang Karangan.	1° 54.4' S 116° 33.6' E	Fl.(3)W. period 15s	49 15	12	E. CARDINAL BYB, beacon.	
24928 K 1455	Teluk Apar.	2° 02.3' S 116° 32.9' E	Fl.W. period 4s	49 15	12	Beacon.	
24929 K 1457	-Tanjung Giling.	2° 03.2' S 116° 28.6' E	Fl.G. period 7.5s	52 16	12	STARBOARD (A) G, beacon, topmark.	
24932 K 1454	Aru Bank.	2° 15.5' S 116° 40.2' E	Q.(3)W. period 10s	42 13	12	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
24936 K 1452	Karang Suling.	2° 22.3' S 116° 43.6' E	Fl.(2)W. period 4s	42 13	12	ISOLATED DANGER BRB, beacon, topmark; 29.	Radar reflector.
24938 K 1449	Karang Unarang.	2° 29.4' S 117° 03.1' E	Fl.(2)W. period 10s	49 15	12	ISOLATED DANGER BRB, beacon, topmark.	
24939 K 1450	-Reef 17.3 miles N.	2° 11.9' S 117° 00.8' E	Q.(9)W. period 15s	49 15	12	W. CARDINAL YBY, beacon, topmark.	
24940 K 1447	Karang Grogot.	2° 43.8' S 116° 45.6' E	Fl.W. period 8s	49 15	12	Beacon.	
24941 K 1446.5	Karang Demung.	2° 50.0' S 117° 04.0' E	Fl.(2)W. period 10s	46 14	11	ISOLATED DANGER BRB, beacon, topmark.	
24942 K 1486.5	Pulau Seturian.	2° 16.2' S 117° 40.0' E	Q.W.	43 13	12	N. CARDINAL BY, beacon, topmark.	
24944 K 1486	Palau Balabalagan Islands.	2° 32.3' S 117° 57.0' E	Fl.(3)W. period 20s	131 40	17	White metal framework; 131.	
24946 K 1488	Pulau Ambungi.	2° 04.6' S 117° 15.8' E	Q.W.	108 33	15	N. CARDINAL BY, metal framework tower; 98.	
24946.5 K 1446	Gosong Takatalu.	3° 04.0' S 117° 42.0' E	Fl.W. period 6s	43 13	12	White beacon.	
24947 K 1445	Pulau Larilarian.	3° 31.0' S 117° 27.1' E	Fl.W. period 5s	105 32	12	White metal framework tower; 98.	
24948 K 1444	Kepulauan Sambergelap, on W. island.	3° 39.0' S 116° 36.0' E	Fl.(3)W. period 17s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 10.5s	69 21	13	White metal skeleton tower; 46.	Obscured by Balang Balangka 261°-266°, and by Sambergelap Island 286°- 306°.
24948.5 K 1427.8	Sungai Cuka.	3° 52.2' S 115° 21.7' E	Fl.W. period 6s	49 15	10	White beacon.	
24949 K 1444.5	Tanjung Mangkok.	3° 22.2' S 116° 25.0' E	Fl.(3)W. period 14s	49 15	12	White beacon.	
24950 K 1439	Tg. Batu Gemuk.	2° 58.0' S 116° 12.0' E	Fl.G. period 3s	23 7	4	STARBOARD (A) G, beacon, topmark.	
24950.5 K 1439.4	-Range, front.	2° 56.5' S 116° 12.3' E	Fl.W. period 2s	16 5	4		
24950.6 K 1439.6	--Rear.	2° 56.3' S 116° 12.4' E	Fl.W. period 10s	19 6	4		Lights exist further up river.
24951 K 1437	Selat Laut Beacon.	3° 12.7' S 116° 17.3' E	Fl.W. period 3s	39 12	5	White mast.	
24952 K 1438	-Tg. Pemancingan Range, front.	3° 13.1' S 116° 16.9' E	Fl.W. period 5s	46 14	12	White beacon, white triangular daymark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24956 K 1438.1	-Balingkar Hill, rear, 2.8 miles 257° from front.	3° 13.8' S 116° 14.0' E	Fl.W. period 5s	219 67	15	Metal framework tower, upper part red, lower part white; 66.	
24957 K 1438.2	-Tg Sarantiung.	3° 13.5' S 116° 17.0' E	Q.W.	33 10	4	N. CARDINAL BY, beacon, topmark.	
24957.5 K 1438.4	--S.	3° 13.6' S 116° 16.9' E	Q.(6)+L.FI.W. period 15s	33 10	4	S. CARDINAL YB, beacon, topmark.	
24960 K 1436	-Kotabaru, mole, head.	3° 14.0' S 116° 13.0' E	F.R.	39 12	3	Wooden mast; 33.	
24960.5 K 1435.8	Kota Baru.	3° 17.0' S 116° 06.5' E	Fl.(2)W. period 10s	49 15	10	White beacon.	3 Fl.Y. 4M lights close N. and SW.
24961 K 1435.7	-Gosong Payung N.	3° 18.1' S 116° 06.1' E	Q.G.	23 7	5	STARBOARD (A) G, beacon, topmark.	
24961.2 K 1435.5	-Gosong Payung S.	3° 20.7' S 116° 05.4' E	FI.G. period 3s	23 7	5	STARBOARD (A) G, beacon, topmark.	
24962	-S. Songap.	3° 20.8' S 116° 05.9' E	FI.R. period 2s	23 7	5	PORT (A) R, beacon, topmark.	
24963 K 1435.4	-Beacon.	3° 25.0' S 116° 03.4' E	FI.R. period 4s	23 7	5	PORT (A) R, beacon, topmark.	
24963.2 K 1435.3	-Suwangi, E.	3° 26.4' S 116° 02.4' E	Q.(3)W. period 5s	23 7	5	E. CARDINAL BYB, beacon, topmark.	
24963.4 K 1435.2	-Beacon.	3° 27.5' S 116° 02.4' E	FI.R. period 2s	23 7	5	PORT (A) R, beacon, topmark.	
24963.5 K 1433	-Gosong Kramat.	3° 30.9' S 116° 01.1' E	Q.(3)W. period 10s	43 13	12	E. CARDINAL BYB, beacon, topmark.	
24964 K 1432	-Tanjong Petang, W. side of S. entrance to strait.	3° 37.0' S 115° 58.0' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	62 19	6	White metal framework; 62.	Obscured in places from Tg. Kramat to the bearing 223°.
24966 K 1431	-Tg Pangebalan.	4° 01.2' S 116° 01.9' E	Fl.W. period 6s	59 18	12		
24968 K 1430	Pulau Kunit.	4° 05.0' S 116° 02.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	443 135	12	White metal framework; 43.	Visible 237°-177°, except where obscured by islands.
24969 K 1442.2	Tanjung Seloka.	3° 55.1' S 116° 17.8' E	Fl.W. period 6s	36 11	12	White beacon.	
24970 K 1442.1	Pulau Birabirahan.	4° 13.7' S 116° 07.4' E	Fl.W. period 6s	39 12	12	White beacon.	
24972 K 1434	-Suwangi, S. head.	3° 27.1' S 116° 01.4' E	Fl.W. period 3.5s fl. 0.5s, ec. 3s	59 18	13	Beacon.	
24973 K 1435	-Batulicin.	3° 26.9' S 116° 00.5' E	Fl.W. period 6s	72 22	12	White metal framework tower; 66.	
24974 K 1427.4	Pulau Payongpayongan.	4° 22.9' S 115° 50.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	105 32	15	White metal framework tower; 33.	
24976 K 1442	Sambargalang (Brothers) Islands.	4° 24.0' S 116° 10.0' E	Fl.W. period 5s	180 55	18	White metal framework tower; 66.	Obscured 208°-219°30' from 2- 12 miles.
24978 K 1426.5	Pulau Kelambu.	4° 56.1' S 115° 38.0' E	Fl.(3)W. period 12s	49 15	12	White beacon.	
24980 K 1442.5	Sabaru.	5° 06.2' S 117° 04.3' E	Fl.(3)W. period 16s	138 42	18	White metal framework tower; 131.	
24982 K 1442.7	Kalu Kalukuang.	5° 10.5' S 117° 39.6' E	Fl.(4)W. period 30s	144 44	19		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24984 K 1443	Sibbalds Bank.	5° 45.7' S 117° 07.2' E	Fl.W. period 5s	62 19	15	Black metal framework tower; 26.	
24986 K 1443.5	Doang Doangan Besar.	5° 24.3' S 117° 56.6' E	Fl.(3)W. period 20s	134 41	18	White metal framework tower.	
24987 K 1428	Satui Muara.	3° 49.0' S 115° 28.3' E	Iso.W.R.G. period 5s	59 18	W. 13 R. 10 G. 10	Metal column with gallery; 49.	G. 265°30'-330°30', W.- 335°30', R.-065°30'.
24987.3 K 1444.3	Pulau Sebuku, S. coast.	3° 39.1' S 116° 21.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	8	White beacon.	
24987.5 K 1444.2	Pulau Aur.	3° 40.2' S 116° 22.5' E	Fl.W. period 4s	89 27	12	White beacon.	
24987.7 K 1444.4	Pulau Kapak, N. coast.	3° 42.0' S 116° 20.6' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	6	PORT (A) R, beacon, topmark.	
24988 K 1422	Tanjung Selatan.	4° 10.5' S 114° 39.0' E	L.Fl.W. period 6s	111 34	17	White metal openwork tower; 98.	Visible 274°-106°. Radiobeacon.
24989 K 1420	Tekisung.	3° 53.4' S 114° 36.1' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	62 19	14	SPECIAL Y, beacon, topmark.	Radar reflector.
SUNGAI BARITO:							
24992	-Outer Lighted Buoy.	3° 39.7' S 114° 25.7' E	L.Fl.W. period 10s			SAFE WATER RW, pillar.	
24996 K 1413.1	-Outer.	3° 37.4' S 114° 25.5' E	Fl.W. period 3.5s fl. 0.5s, ec. 3s	82 25	9	White beacon.	
24998	-Wreck MV Barito "1".	3° 36.8' S 114° 27.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	8	Green beacon.	
25000 K 1413.3	-Range, front.	3° 32.2' S 114° 29.6' E	Q.W.	92 28	14	White beacon, black bands, white triangular daymark; 36.	Visible 300°-120°.
25004 K 1413.31	--Rear, 2300 meters 028°30' from front.	3° 31.2' S 114° 30.1' E	Iso.W. period 4s	82 25	10	White beacon, black bands, white triangular daymark; 82.	Visible 300°-120°.
25012 K 1416	Tanjung Telan.	3° 26.7' S 114° 30.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	8	Red wooden structure.	
25014 K 1417	-Pulau Kaget.	3° 26.7' S 114° 30.2' E	Fl.G. period 7s	43 13	12		
25016 K 1418	-Sungai Jinga, W. side of river.	3° 23.7' S 114° 29.6' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	8	Red beacon.	
25018 K 1419	-Pulau Kembang.	3° 19.2' S 114° 33.7' E	Fl.W. period 3.5s fl. 1s, ec. 2.5s	49 15	6	White beacon.	
25024 K 1412	Kahayan River.	3° 25.9' S 114° 05.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s		15	Beacon.	
25026 K 1412.5	-Range, front.	3° 21.4' S 114° 04.2' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	46 14	10	White beacon, cone topmark, point up.	
25026.1 K 1412.51	--Rear, 370 meters 359° from front.	3° 21.2' S 114° 04.2' E	L.Fl.W. period 5s fl. 2s, ec. 3s	59 18	10	White beacon, cone topmark, point down.	
25028 K 1412.3	Kahayan, mouth of river.	3° 25.6' S 114° 05.2' E	Fl.(2)R. period 4.5s	36 11	6	Red beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25028.5 K 1411.72	Gosong Schunyer.	3° 19.4' S 113° 20.3' E	Iso.W. period 2s	33 10	9		
25029 K 1411.75	Malatayur.	3° 48.0' S 113° 38.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	43 13	12	Beacon.	
25030 K 1411.8	Tanjung Serambut.	2° 59.4' S 113° 03.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	49 15	6		
25031 K 1411.7	Teluk Sampit.	3° 02.5' S 113° 03.1' E	Fl.R. period 5s	16 5	8	PORT (A) R, beacon, topmark.	
25032 K 1411.6	Tanjung Bandaran.	3° 07.7' S 113° 03.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	8	White metal framework structure; 49.	Radar reflector.
25036 K 1411.4	Tanjung Siamok.	3° 26.8' S 112° 34.3' E	Fl.(2)W. period 5s	56 17	8		
25040 K 1411.2	Tanjung Puting.	3° 30.6' S 111° 46.8' E	Fl.(3)W. period 14s	103 31	17		
25042 K 1411.22	Sangora Banks.	3° 14.0' S 111° 39.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	11	Beacon.	
25042.5 K 1411.23	Gosong Beras Besah, S.	3° 06.6' S 111° 32.8' E	Fl.W. period 5s	33 10	10	White beacon; 26.	
25043 K 1411.24	-N.	3° 05.6' S 111° 32.8' E	Fl.W. period 5s	42 13	12	Fiberglass tower.	
25044 K 1411	Tg. Putri.	2° 55.0' S 111° 23.0' E	Fl.R. period 2s	36 11	6	Red beacon.	
25046 K 1411.25	Tg. Kluang.	2° 54.3' S 111° 42.2' E	Fl.W. period 5s	39 12	10	White beacon.	
25047 K 1411.3	-Tg. Pangerangan Range, front.	2° 50.1' S 111° 43.9' E	Iso.W. period 2s	29 9	10		
25047.1 K 1411.31	--Rear, 897 meters 031°06' from front.	2° 49.7' S 111° 44.0' E	Iso.W. period 4s	52 16	12		
25048 K 1036	Fox Banks.	3° 30.7' S 110° 11.0' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	46 14	12	White metal framework structure; 33.	
25049 K 1410.3	Gosong Mangkut.	3° 06.7' S 110° 15.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	49 15	12	ISOLATED DANGER BRB, beacon, topmark.	
25050 K 1410	Pulau Bawal, Tanjung Rotan.	2° 44.8' S 110° 02.5' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	220 67	18		
25051 K 1033.8	Karang Batuan.	3° 16.0' S 108° 57.9' E	Fl.(2)W. period 10s	43 13	12	ISOLATED DANGER BRB, beacon, topmark.	
25052 K 1034	Gosong Mampango (Discovery East Bank).	3° 34.7' S 109° 10.0' E	Fl.W. period 5s	43 13	12	White metal framework tower, red bands; 65.	Radar reflector.
RACON							
D(- •)							
25053 K 1033.6	Gosong Abadi.	3° 38.7' S 108° 45.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark.	
25054 K 1033.5	Karang Satatan.	3° 21.9' S 108° 37.0' E	Fl.W. period 3s	36 11	11	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25055 <i>K 1031</i>	Karang Florence Adelaide.	2° 04.1' S 108° 04.6' E	Fl.(2)W. period 8s	43 13	12	White beacon.	
25056 <i>K 1033</i>	Pulau Pesemut.	2° 30.0' S 108° 50.0' E	L.Fl.W. period 5s	141 43	17	White metal framework structure; 131.	Radiobeacon.
25058 <i>K 1405.5</i>	Karang Ontario.	1° 59.8' S 108° 38.9' E	Fl.(2)W. period 5s	49 15	12	ISOLATED DANGER BRB, column, topmark.	
25060 <i>K 1406</i>	Palau Serutu.	1° 43.0' S 108° 42.7' E	Q.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	574 175	36	White metal skeleton tower; 83.	
RACON		T(-)		10			
25064 <i>K 1407</i>	Lemen Boedi.	1° 16.3' S 108° 52.3' E	Fl.(2)W. period 8s	157 48	15	White metal framework structure; 49.	
25064.1 <i>K 1407.5</i>	Pulau Layah Kecil.	1° 31.3' S 109° 20.2' E	Fl.(2)W. period 15s	235 72	22	White metal framework structure; 131.	
25064.2 <i>K 1407.2</i>	Pulau Suka.	1° 20.8' S 109° 07.0' E	Fl.(2)W. period 6s	49 15	13		
25064.3 <i>K 1407.3</i>	Pulau Buan.	1° 28.2' S 109° 02.9' E	Fl.(2)W. period 8s	49 15	13		
25064.4 <i>K 1407.7</i>	Pulau Macan.	1° 38.9' S 109° 20.6' E	Fl.(2)W. period 5s	164 50	19		
KETAPANG:							
25065 <i>K 1408</i>	-Range, front.	1° 45.9' S 109° 56.5' E	Iso.W. period 2s	20 6	7	Beacon, black and white bands, white triangular daymark.	
25066 <i>K 1408.1</i>	--Rear, 126 meters 115°30' from front.	1° 46.0' S 109° 56.6' E	Oc.W. period 4s lt. 3s, ec. 1s	26 8	7	Beacon, black and white bands, white triangular daymark.	
25066.2 <i>K 1409</i>	-Range, front.	1° 45.5' S 109° 56.7' E	Fl.W. period 1.5s	20 6	5		Visible 229°-049°.
25066.4 <i>K 1409.1</i>	--Rear, 227 meters 325°30' from front.	1° 45.5' S 109° 56.0' E	Iso.W. period 4s	26 8	5	White triangular daymark.	Visible 224°-044°.
25067 <i>K 1408.3</i>	-Harbor.	1° 47.5' S 109° 57.5' E	Iso.W.G. period 2s	49 15	7	Black and white banded structure.	
25068 <i>K 1402</i>	Tanjong Padang Tikar.	0° 39.8' S 109° 15.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	7	White framework tower, black bands; 49.	
25068.5 <i>K 1400</i>	Telok Air.	0° 40.5' S 109° 21.8' E	L.Fl.W. period 8s fl. 2s, ec. 6s	52 16	13	White wooden framework structure; 19.	
25068.7 <i>K 1400</i>	Tanjung Putus.	0° 16.6' S 109° 04.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	49 15	13	White beacon.	
25069 <i>F 1872.6</i>	-Sungei Siak.	0° 00.1' S 109° 17.6' E	Q.G.	26 8	6	White metal framework structure; 26.	
25072 <i>F 1872</i>	-River mouth Range, front.	0° 04.2' N 109° 09.8' E	Fl.R. period 2s	30 9	4	White triangular daymark on beacon, black bands; 30.	
F.R.				10			
-RACON		K(-•-)		10			
25076 <i>F 1872.1</i>	--Rear, 1990 meters 103°30' from front.	0° 04.0' N 109° 10.8' E	F.R.	82 25	10	Beacon, white triangular daymark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25077 <i>F 1872.3</i>	-Jungkat.	0° 02.9' N 109° 12.7' E	Fl.R. period 4s	39 12	6	Red beacon.	
25077.2 <i>F 1872.4</i>	-Tg. Wajak.	0° 01.7' N 109° 14.5' E	Fl.R. period 2s	26 8	6	Red metal framework structure; 33.	
25077.4 <i>F 1872.5</i>	--About 1.5 miles NW. of of Batu Layang.	0° 00.6' N 109° 16.7' E	Iso.R. period 2s	26 8	6	White metal framework structure; 26.	
25079 <i>F 1873.2</i>	-Oil jetty.	0° 00.4' N 109° 19.8' E	Fl.(4)W. period 8s	49 15	10	White metal beacon; 33.	F.R. shown on beacons upstream.
25080 <i>F 1880</i>	Pulau Pengiki.	0° 15.0' N 108° 02.3' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	676 206	20	White framework tower; 49.	
25081 <i>F 1879</i>	Pulau Datu.	0° 07.6' N 108° 36.4' E	Fl.(3)W. period 9s	203 62	15		Visible 190°-030°.
25082 <i>F 1883</i>	Pulau Sitjan.	0° 22.1' N 108° 44.8' E	Fl.(2)W. period 15s	294 90	24	White concrete tower.	
25084 <i>F 1885</i>	Pulau Lemoekoetan.	0° 46.9' N 108° 42.4' E	Fl.(3)W. period 10s	1030 314	13	White metal framework tower; 59.	
25086 <i>F 1887</i>	Tambelan.	0° 58.4' N 107° 32.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	12	Red beacon.	
25086.2 <i>F 1887.5</i>	Karang Takongmangirang.	0° 51.0' N 107° 37.2' E	Q(2).W. period 8s	49 15	12	White fiberglass tower; 33.	Radar reflector.
25086.3 <i>F 1888</i>	Pulau Jangkulan.	0° 44.6' N 107° 19.5' E	Fl.(3)W. period 15s	49 15	13		
25086.5 <i>F 1889</i>	Pualu Dumdum.	1° 11.5' N 106° 53.1' E	Fl.W. period 3s	49 15	13	White beacon; 39.	
25088 <i>F 1890</i>	Tg. Batu, N. extremity of Pulau Penibuengan.	1° 11.0' N 108° 58.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	8		
25092 <i>F 1891</i>	Pulau Pekak, W. of Tg. Kalang Base.	1° 11.8' N 108° 55.3' E	Fl.R. period 3s	49 15	13	Red beacon; 36.	
25094 <i>F 1892</i>	Pemangkat Range, front.	1° 11.5' N 108° 58.3' E	Iso.W. period 2s	49 15	12	White beacon, black bands, white triangular daymark, point up; 33.	
25094.2 <i>F 1892.1</i>	-Rear, 1148 meters, 094°15' from front.	1° 11.6' N 108° 59.0' E	Iso.W. period 4s	65 20	14	White beacon, black bands, white triangular daymark, point down; 46.	
25096 <i>F 1854</i>	Pulau Murih.	1° 54.0' N 108° 39.0' E	Fl.W. period 6s	335 102	25	White metal framework structure; 66.	
RACON				K(-•-)			
KEPULAUAN NATUNA:							
25100 <i>F 1850</i>	-Pulau Merundung.	2° 04.3' N 109° 05.8' E	Fl.(3)W. period 15s fl. 0.7s, ec. 2.5s fl. 0.7s, ec. 2.5s fl. 0.7s, ec. 7.9s	121 37	18	White metal framework tower; 98.	
25104 <i>F 1847</i>	Serasan.	2° 29.8' N 109° 00.7' E	L.Fl.W. period 9s	39 12	7		
25106 <i>F 1848</i>	-Batu Pacil.	2° 28.5' N 109° 00.7' E	Fl.W. period 3s	41 12	11	White beacon.	Fl.G. 3s 10M close E.
25108 <i>F 1844</i>	-Pulau Subi-kechil.	3° 03.2' N 108° 50.8' E	Fl.W. period 5s	272 83	24	White metal skeleton tower; 72.	Obscured 337°-024° by Subi Besar and 040°-042° by Bakan Island.

Section 16

Sulawesi, Halmahera, Lesser Sunda Islands and New Guinea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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INDONESIA SULAWESI (CELEBES)

25112 F 2050	Tanjung Malagka.	1° 20.5' N 120° 48.1' E	Fl.W. period 5s	187 57	21	White metal skeleton tower; 46.	Obscured in places by Pulau Dalangan, Pulau Kapas, and the coast.
RACON							
25113 F 2052	Kandi.	1° 19.0' N 121° 27.5' E	Fl.(3)W. period 20s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 13.6s	394 120	26		
25114 F 2040	Manimbaya.	0° 00.0' 119° 36.7' E	Fl.W. period 10s	164 50	18		
25116 F 2048	Tg. Labuan Dedehe.	1° 03.0' N 120° 48.0' E	Fl.W. period 3s	52 16	10		
25118 F 2046	Simatang.	1° 04.5' N 120° 23.6' E	Fl.(2)W. period 8s	102 31	16		
25119 F 2045	Lingian.	0° 59.9' N 120° 13.0' E	Fl.W. period 3s	49 15	12	White beacon.	
25120 F 2044	Pulau Tugguan.	0° 35.0' N 119° 48.0' E	Fl.W. period 5s	302 92	23	White metal skeleton tower; 65.	
RACON							
25121 F 2047	Tg. Paligisan.	1° 01.5' N 120° 40.7' E	Fl.W. period 10s	102 31	16		
25122 F 2047.5	Palau Latungan.	1° 03.2' N 120° 46.9' E	Fl.(2)W. period 8s	147 45	18		
25124 F 2054	Leok, at customhouse.	1° 12.0' N 121° 26.0' E	F.R.	59 18	2	Wooden post.	
25126 F 2058	Karang Baliogut.	1° 08.1' N 122° 26.4' E	Fl.W. period 3s	39 12	8	Beacon.	
25128 F 2060	Pulau Hulawa.	0° 58.0' N 122° 54.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	131 40	12	White metal framework tower.	Visible 103°-013°.
25129 F 2061.1	Karang Otilade.	0° 54.7' N 122° 50.9' E	Fl.W. period 12s	39 12	11	White beacon.	

The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.

INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS

25132 F 2062	Teluk Kuandang.	0° 51.5' N 122° 54.4' E	Fl.W. period 3s	39 12	12	
25134 F 2062.5	Pulau Bangkil.	1° 03.0' N 123° 06.4' E	Fl.W. period 5s	56 17	13	White fiberglass tower; 33. Radar reflector.
25136 F 2063	Lubuan Boroko.	0° 56.0' N 123° 16.0' E	F.W.	1		Occasional.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25137 F 2063.3	Pulau Tikus.	0° 51.6' N 123° 55.6' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	49 15	12		
25139 F 2063.8	Tg Lobu.	0° 59.7' N 124° 12.7' E	Fl.W. period 5s	80 24	14	White fiberglass beacon; 33.	Radar reflector.
25140 F 2064	Amurang, about 489 meters 270° from Controleur flagstaff.	1° 11.4' N 124° 34.0' E	Fl.W. period 3s	30 9	10	Wooden post; 20.	
25142 F 2064.4	Tetapaan.	1° 18.0' N 124° 30.0' E	Fl.R. period 3s	39 12	11	Red beacon.	
TELUK MANADO:							
25144 F 2066	-Manado.	1° 29.0' N 124° 50.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	105 32	15	White metal framework structure; 39.	
25148 F 2068	-S. mole, head.	1° 29.9' N 124° 50.1' E	Fl.G. period 3s	39 12	11		
25152 F 2070	--N. mole, head.	1° 29.9' N 124° 50.1' E	Fl.R. period 3s	39 12	11		
PULAU TALISEI:							
25156 F 2072	-Tanjung Arus.	1° 53.0' N 125° 05.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	352 107	40	White metal skeleton tower; 65.	Visible 072°-360° except where obscured by Bangka Island. Radio beacon.
-RACON							
T(-)							
The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.							
INDONESIA SULAWESI (CELEBES)							
25156.5 F 2071	Likupang.	1° 40.6' N 125° 03.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	33 10	11	White beacon.	
The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.							
INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25157	Batukapal.	1° 32.8' N 125° 17.2' E	Fl.W. period 4s	115 35	17	White beacon.	
25158 F 2077	Selat Lembah, Tg Batuangus.	1° 30.3' N 125° 14.8' E	Fl.G. period 3s	49 15	12		
25160 F 2078	Lembeh Strait, middle part.	1° 28.0' N 125° 14.0' E	Fl.R. period 3s	59 18	8		
25162	Pulau Susulina.	1° 24.5' N 125° 13.3' E	Iso.W. period 6s	82 25	15	White beacon.	
25164 F 2079.5	Pulau Lembeh, SW. of island on rock.	1° 23.4' N 125° 09.8' E	Fl.(2)G. period 10s	56 17	10	White metal framework tower, black bands.	Visible 287°30'-208°.
The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.							

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25168 F 2079.6	Lilang.	1° 19.3' N 125° 04.2' E	Fl.W. period 3s fl. 1s, ec. 2s	230 70	20	White metal framework tower; 98.	
25169 F 2079.7	Pakolor.	0° 58.5' N 124° 57.0' E	Fl.W. period 4.5s	413 126	27	White house.	
25171 F 2079.8	Bentenan.	0° 57.1' N 124° 54.1' E	Fl.(3)W. period 12s	49 15	12		

The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.

INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25172 F 2079	Tg. Labuan Compenie.	1° 25.9' N 125° 11.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	190 58	6	White metal framework structure, Obscured eastward of 035°30' black bands; 33.	by Lembeh Island.
25176 F 2114	Pasige.	2° 21.2' N 125° 17.6' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	49 15	12	Beacon.	
25180 F 2116	Pulau Tahulandang, near flagstaff.	2° 20.0' N 125° 24.0' E	F.R.	46 14	2	White metal column.	
25184 F 2120	Pulau Siau, Ulu, Government wharf.	2° 43.8' N 125° 24.6' E	Fl.W. period 3s	49 15	12	Metal column.	Not visible bearing less than 261°. Exhibited on arrival of vessels.
25186 F 2119	Mahora.	2° 39.0' N 125° 29.3' E	Fl.(2)W. period 8s	262 80	23		
25188 F 2120.5	-Toade Manandoe.	3° 24.8' N 125° 31.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	65 20	14	White beacon.	
25190 F 2123	Tahuna.	3° 35.9' N 125° 29.1' E	Fl.W. period 3s fl. 1s, ec. 2s	426 130	25		
25192 F 2124	Pulau Sangihe.	3° 36.8' N 125° 29.2' E	Fl.(2)W. period 8s	105 32	16		Visible 036°-074°. Exhibited on arrival of vessels.
25194 F 2127	Pulau Beng.	3° 29.0' N 125° 43.7' E	Fl.W. period 5s	348 106	16	White fiberglass tower; 33.	Radar reflector.
25196 F 2126	-Peta, pier, head.	3° 39.0' N 125° 34.0' E	F.R.	29 9	2		
25196.5 F 2127.5	Pulau Manipa.	3° 45.2' N 125° 33.4' E	Fl.W. period 10s	226 69	24	White beacon; 98.	
25197 F 2128	Salehe.	3° 52.5' N 125° 43.4' E	Fl.(2)W. period 10s	263 80	23		
25197.5 F 2136	Palau Kawalusu.	4° 14.2' N 125° 19.3' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	262 80	23		
25197.8 F 2133.5	Tg. Palle.	3° 43.8' N 126° 49.4' E	Fl.W. period 10s	213 65	24	White beacon; 131.	
25198 F 2133	Lirung.	3° 56.4' N 126° 41.8' E	Fl.W. period 3s	39 12	12	Beacon.	
25198.5 F 2132.5	Tg Salonggaka.	4° 02.7' N 126° 37.1' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	66 20	14		

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25199 <i>F 2134</i>	Karatung.	4° 44.0' N 127° 04.0' E	Fl.W. period 3s	39 12	12	Beacon.	
25200 <i>F 2135</i>	Marore.	4° 44.5' N 125° 28.7' E	Fl.(2)W. period 10s	591 180	23		
	RACON		O(---)				
25201 <i>F 2135.5</i>	Pulau Manutuang.	4° 26.4' N 125° 41.5' E	Fl.W. period 5s	351 107	25	White lighthouse.	
25202 <i>F 2132</i>	Tg. Ambora.	4° 32.7' N 126° 44.7' E	Fl.(3)W. period 20s	138 42	40		
25204 <i>F 2130</i>	Teluk Beo, Pulau Karake long, NE. of flagstaff.	4° 14.0' N 126° 48.0' E	F.R.	62 19	2	White metal pole; 33.	Obscured on a bearing of 57°.
25208 <i>F 2100</i>	Ternate, pier, head.	0° 47.0' N 127° 23.0' E	F.R.	26 8	4	White mast.	
25212 <i>F 2105</i>	-Tanjung Kahu Merah.	0° 45.5' N 127° 22.0' E	Fl.(2)W. period 15s	105 32	16		
25216 <i>F 2106</i>	G. Ternate, island, S. head.	0° 46.0' N 127° 19.0' E	Q.(4)W. period 8s				
HALMAHERA:							
25218 <i>F 2109</i>	-Tg. Loleo.	1° 06.3' N 127° 47.0' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	46 14	12	White beacon.	
25219 <i>F 2109.2</i>	-Wangeotak.	1° 07.5' N 127° 52.5' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	26 8	6	STARBOARD (A) G, beacon, topmark.	
25220 <i>F 2110.5</i>	-Kupakupa.	1° 37.4' N 127° 59.4' E	Fl.W. period 3s		10		
25222 <i>F 2110</i>	-Tobelo.	1° 43.5' N 128° 00.5' E	F.R.	29 9	2	White metal framework tower; 20.	
25222.3 <i>F 2110.3</i>	-Tanjung Haaka.	1° 37.5' N 127° 59.8' E	Fl.W. period 3s	42 13	12	White beacon.	
25222.5 <i>F 2111.5</i>	Dododahohe.	1° 58.0' N 128° 12.5' E	Iso.W. period 3s	43 13	11		
25222.6 <i>F 2111.8</i>	Tanjung Sofa.	0° 02.5' N 129° 17.5' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	233 71	20		
25222.7 <i>F 2107.5</i>	Pulau Mayu.	1° 19.0' N 126° 21.5' E	Fl.W. period 3s	131 40	15	White metal framework tower; 131.	
25223 <i>F 2108</i>	-Jailulo.	1° 03.8' N 127° 27.8' E	F.R.	29 9	3	White metal framework tower; 20.	
25224 <i>F 2107</i>	Tidore, Soasiu.	0° 39.0' N 127° 26.0' E	F.R.	26 8	3		
25228 <i>F 2082</i>	Pulau Pardana.	0° 26.0' N 124° 28.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	241 73	6	White metal framework; 72.	Visible 232°-076°. Temporarily showing Fl.(3)W. 32s.
TELUK TOMINI:							
25232 <i>F 2083</i>	-Gorontalo, E. bank of river, N. side of gulf.	0° 29.5' N 123° 03.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	119 36	12	White metal framework structure; 19.	Visible 320°30'-049°30'.

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25234 <i>F 2083.3</i>	Harbormaster's Office.	0° 29.8' N 123° 03.2' E	Fl.W. period 3s	66 20	14		
25236 <i>F 2086</i>	-Moutong	0° 28.1' N 121° 14.0' E	Fl.W. period 5s	33 10	2	Beacon.	
25237 <i>F 2087</i>	Tomini.	0° 30.4' N 120° 32.5' E	Fl.(2)W. period 8s	46 14	12		
25238 <i>F 2086.5</i>	Panabean.	0° 16.6' N 121° 14.6' E	Fl.(2)W. period 8s	102 31	16		
25238.5	Pulau Una-una.	0° 07.9' S 121° 38.5' E	Fl.W. period 3s	43 13	12	White beacon.	
25239 <i>K 1578</i>	Pasir Tengah.	0° 24.0' S 121° 38.1' E	Fl.W. period 4s	49 15	12	White beacon.	
25240 <i>K 1576</i>	-Parigi, on beach.	0° 48.8' S 120° 10.5' E	Fl.W. period 7s fl. 1s, ec. 6s	98 30	6	White metal framework; 20.	Emergency light.
25242	Labuandedeh.	1° 03.2' S 120° 48.0' E	Fl.W. period 3s	52 16	10	White beacon.	
25244 <i>K 1575</i>	--Fuel Depot	1° 23.1' S 120° 42.7' E	Fl.W. period 5s	33 10			
25248 <i>K 1574</i>	-Poso Road, pier, head.	1° 22.0' S 120° 45.0' E	Fl.W. period 3s	52 16	10	Wooden post; 13.	<i>Reported extinguished (Nov. 1983).</i>
25248.5 <i>K 1572.5</i>	Karang Pagaimana.	0° 47.3' S 122° 39.2' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	
25249 <i>K 1565.5</i>	Mendono.	1° 08.5' S 122° 42.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	46 14	12		
25252 <i>K 1566</i>	-Luwuk Road.	0° 56.9' S 122° 47.6' E	Fl.W. period 5s	59 18	13	Metal mast; 26.	
25256 <i>K 1566.3</i>	--Pertamina.	0° 56.4' S 122° 48.4' E	Fl.(4)W. period 10s	36 11	12	White beacon.	
25257	--Luwuk.	0° 57.1' S 122° 47.6' E	Fl.R. period 3s	33 10	11	Red beacon.	
25258 <i>K 1572.4</i>	Pagimana.	0° 47.9' S 122° 38.5' E	Fl.(2)W. period 8s	131 40	17	Beacon.	
25260 <i>K 1572</i>	-Selat Walera, drying reef, on E. side.	0° 25.0' S 122° 25.5' E	Fl.(3)W. period 20s	62 19	7	Black metal structure.	
25260.2 <i>K 1571.5</i>	Pulau Pasir.	0° 27.8' S 122° 48.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	12	White beacon.	
25260.5	Pulau Sensiri.	0° 28.7' S 122° 55.7' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	12		
25261	Pulau Buka-Buka.	0° 44.1' S 121° 45.4' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	49 15	12		
25262 <i>K 1580</i>	Tg Komnali.	0° 12.3' S 122° 14.2' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	164 50	19		
25264 <i>K 1563</i>	Tomori Bay.	1° 58.8' S 121° 51.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	8	Black and white bands.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25266 K 1563.2	-Teluk Tomari.	2° 00.7' S 121° 33.6' E	Fl.R. period 4s	46 14	12	Red beacon.	
25268 K 1563.5	-Tanjung Bea.	1° 57.8' S 121° 37.5' E	Fl.W. period 4s	52 16	8 49.	White metal framework tower;	
25272 K 1564	-Tanjung Mposo.	1° 57.0' S 121° 32.5' E	Fl.G. period 6s fl. 1.5s, ec. 4.5s	52 16	11	White beacon, black bands.	
25273 K 1564.2	Karang Dalam Oll.	1° 54.5' S 121° 28.0' E	Fl.W. period 4s	49 15	12	White beacon.	
25274 K 1564.7	Kolonodale.	1° 59.4' S 121° 20.1' E	Fl.(2)W. period 8s	108 33	16		
25274.2 K 1564.8	Karang Thames.	1° 33.2' S 122° 38.6' E	Fl.R. period 4s fl. 1.5s, ec. 2.5s	46 14	12	Red beacon.	
25274.3 K 1565	Tg. Kembani.	1° 35.9' S 122° 52.8' E	Fl.W. period 10s	72 22	24	White beacon.	
25274.4 K 1564.9	Karang Bungku.	2° 32.6' S 121° 58.4' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	46 14	12	White beacon.	
25274.6 K 1562.93	Tg Losoni.	2° 40.0' S 122° 02.0' E	Fl.(4)W. period 10s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.9s	164 50	20	White lighthouse.	
25275 K 1566.6	Tg Tobo.	1° 09.7' S 123° 06.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	13		
25275.5 K 1566.7	Tg Bankalanutara.	1° 09.3' S 123° 17.8' E	Fl.W. period 6s fl. 1s, ec. 5s	164 50	19		
25275.6 K 1566.8	Tg Montok.	1° 14.1' S 123° 14.8' E	Fl.G. period 5s	29 9	9	STARBOARD (A) G, beacon, topmark.	
25275.7 K 1567.5	Lamobuang.	1° 18.3' S 123° 17.6' E	Fl.G. period 3s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25276 K 1568	Pulau Banggai, pier, foot.	1° 35.0' S 123° 29.0' E	F.R.	13 4	2	Wooden post.	
25278 K 1559.95	Karang Samaringa.	3° 22.7' S 122° 48.9' E	Fl.R. period 5s	43 13	11	Red beacon.	
25279 K 1559.8	P. Manui.	3° 37.1' S 123° 10.5' E	Fl.W. period 4s	148 45	15	White beacon.	
25280 K 1559	Saponda on middle islet.	3° 58.6' S 122° 46.0' E	Fl.W. period 4s	56 17	10	Beacon.	Radar reflector.
25284 K 1559.5	Sappa Djawbi Bank.	3° 58.0' S 122° 40.0' E	Fl.R. period 6s	49 15	5	Red beacon.	
25285 K 1559.75	Karang Langgara Bugis.	4° 01.5' S 122° 58.7' E	Fl.(3)G. period 10s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25286 K 1559.74	Karang Langgara Bajo.	4° 01.2' S 122° 58.7' E	Fl.(3)R. period 10s	23 7	6	PORT (A) R, beacon, topmark.	
25288 K 1559.7	Wowoni Island, Tg. Pemali.	3° 58.8' S 123° 01.0' E	Fl.(4)W. period 20s	144 44	25		

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25289 <i>K 1559.9</i>	-Tg Watutembatu.	4° 05.5' S 123° 15.3' E	Fl.(4)W. period 10s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.9s	213 65	22	White lighthouse.	
25290 <i>K 1560.3</i>	Teluk Kendari Range, front.	3° 58.3' S 122° 36.2' E	Iso.W. period 4s	30 9	8		
25290.2 <i>K 1560.31</i>	-Rear, 13 meters 256°01' from front.	3° 58.3' S 122° 36.1' E	Iso.W. period 2s	36 11	8		
25292 <i>K 1560</i>	Bungku Toko.	3° 58.3' S 122° 36.4' E	Fl.W.R. period 2s	39 12	12	Red and white beacon; 30.	R. 260°-298°, W.-260°.
25296 <i>K 1560.05</i>	-Tanjung Kendari.	3° 59.0' S 122° 36.0' E	Fl.I.R. period 2s	39 12	5	Red beacon.	
25300 <i>K 1560.2</i>	Langi Bajo.	3° 59.0' S 122° 36.0' E	Fl.G. period 3s	72 22	6	White beacon; 30.	
25308 <i>K 1562</i>	Kendari.	3° 58.0' S 122° 35.0' E	Fl.W. period 3s	46 14	10	White metal mast; 29.	
25310 <i>K 1558.7</i>	S. Campada.	4° 11.8' S 122° 54.8' E	Fl.I.R. period 4s	56 17	10	Red beacon.	
25311 <i>K 1558.4</i>	Tg. Buton.	4° 22.3' S 123° 04.8' E	Fl.W. period 3s	197 60	15	Beacon.	
25312 <i>K 1558.5</i>	Karang Cempanda, W.	4° 12.9' S 122° 55.0' E	Fl.I.R. period 3s	56 17	6	Red beacon.	<i>Temporarily extinguished (1988).</i>
25316 <i>K 1558.6</i>	-E.	4° 13.0' S 122° 56.0' E	Fl.G. period 4s	56 17	6	Green beacon.	
25317 <i>K 1550.5</i>	Tanjung Loba.	4° 31.9' S 122° 52.3' E	Fl.(2)W. period 8s	105 32	15	White beacon.	
25317.2 <i>K 1549.4</i>	Selat Tioro, Turubulu.	4° 27.0' S 122° 27.7' E	Fl.W. period 3s	43 13	10	White beacon.	
25317.6 <i>K 1549.7</i>	Selat Tioro, Tampo.	4° 38.0' S 122° 39.6' E	Fl.W. period 3s	43 13	10	White beacon.	
25318 <i>K 1550</i>	Tampo.	4° 37.1' S 122° 42.2' E	Fl.W. period 3s	39 12	10	White framework tower; 33.	
25318.4 <i>K 1549.15</i>	Beromadilao.	4° 33.7' S 122° 24.3' E	Fl.(2)W. period 7s	39 12	12	White beacon.	
25318.6 <i>K 1549.1</i>	Beromasidi.	4° 34.7' S 122° 17.8' E	Fl.(2)W. period 5s	39 12	12	White beacon.	
25319 <i>K 1549.2</i>	Pulau Magenti.	4° 50.2' S 122° 11.4' E	Fl.(2)G. period 6s	39 12	12		
25319.05 <i>K 1549.25</i>	Pulau Mangatah.	4° 50.7' S 122° 08.9' E	Q.(6)+L.FI.W. period 15s	39 12	12	S. CARDINAL YB, beacon, topmark.	
25319.1 <i>K 1549.3</i>	Karang Sapamataha.	4° 58.7' S 122° 07.5' E	Fl.(2)W. period 6s	39 12	12		
25319.3 <i>K 1549.35</i>	Sapa Tarapimpi.	5° 03.9' S 122° 08.4' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	39 12	12	White beacon.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25320 K 1551	Raha, W. side of Buton Strait.	4° 51.0' S 122° 45.0' E	Fl.(2)W. period 5s	56 17	12	Beacon.	
25324 K 1551.2	-Pier, head.	4° 51.3' S 122° 44.1' E	Fl.Y. period 3s	59 18	5		
25328 K 1551.5	-Lebutan Island.	4° 56.0' S 122° 48.1' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 4.5s	66 20	12	White metal framework structure; 49.	
25329 K 1551.6	Pulau Butong.	5° 06.7' S 122° 43.2' E	Fl.W. period 3s	51 16	12	White beacon.	Radar reflector.
25330 K 1551.8	Tg. Batu Sori.	5° 20.9' S 122° 39.7' E	Fl.W. period 3s	82 25	15	White beacon.	
25331 K 1551.9	P. Makasar.	5° 26.3' S 122° 37.4' E	Fl.R. period 3s	20 6	6	Red beacon.	
25332 K 1552	Baubau, extremity of E. side.	5° 27.3' S 122° 37.0' E	Fl.W. period 4s	39 12	9		
25336 K 1552.4	-Oil Depot.	5° 28.4' S 122° 34.9' E	Q.(4)W. period 8s	33 10	12		
25340 K 1552.6	Tg. Bunabungi Pulau Kadatua.	5° 30.2' S 122° 31.7' E	Fl.(3)W. period 10s	59 18	12	Beacon.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25342 K 1554.4	Tg. Batu Toro.	5° 41.8' S 122° 47.9' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	164 50	23		

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25344 K 1555	Tanjung Kordoa.	5° 31.0' S 122° 53.0' E	Fl.W. period 4s	66 20	10	White beacon.	
25346 K 1555.8	Tg Kanolanatumbi	5° 16.5' S 123° 13.2' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	148 45	23	White concrete structure; 98.	
25348 K 1558	Pulau Wangiwangi.	5° 15.0' S 123° 33.0' E	Fl.(2)W. period 12s	493 150	30	White metal framework; 69.	Visible 012°-259°. Partially obscured by Pulau Kambodi 012°-036°. Reported F.W. (T.).
25348.5 K 1558.2	-Midden.	5° 21.3' S 123° 32.0' E	Fl.W. period 3s			Beacon.	
25349 K 1558.3	Pulau Tomea, Karang Waha.	5° 43.2' S 123° 53.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	12		
25349.5 K 1558.32	Ndaa.	5° 38.9' S 124° 02.9' E	Iso.W. period 2s	39 12	12	White beacon.	
25350 K 1558.35	Karang Koro Maha.	5° 46.0' S 124° 11.0' E	Q.(6)+L.Fl.W. period 15s	39 12	12		

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25350.4 <i>K 1558.34</i>	Pulau Binongko.	6° 02.5' S 124° 03.0' E	Fl.W. period 10s	147 45	24	White beacon.	
25351 <i>K 1558.33</i>	Pulau Moromaho.	6° 08.0' S 124° 36.5' E	Fl.(4)W. period 10s	147 45	27	Lighthouse.	
25352 <i>K 1553</i>	-Siumpu, Popalia.	5° 41.1' S 122° 27.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	12	White metal framework structure; 49.	<i>Temporarily extinguished (1988).</i>
25352.5 <i>K 1553.2</i>	Pulau Batuata.	6° 12.0' S 122° 41.3' E	Fl.(2)W. period 5s	472 144	20	White beacon.	
25353 <i>K 1554</i>	Tg Pising.	5° 03.5' S 121° 53.8' E	Fl.(2)W. period 6s	46 14	10	Beacon.	
25353.5 <i>K 1554.2</i>	-Sikeli.	5° 16.7' S 121° 48.2' E	Fl.W. period 3s	39 12	10	Beacon.	
25354 <i>K 1554.1</i>	Pulau Sogori.	5° 23.3' S 121° 43.8' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	12	White beacon.	
25356 <i>K 1548</i>	Kolaka.	4° 03.0' S 121° 34.0' E	Fl.(2)R. period 6s	19 6	3	Red beacon.	Radar reflector.
25360 <i>K 1547.9</i>	-Kolaka.	4° 03.2' S 121° 36.0' E	Fl.Y. period 3s	29 9	6		
25364 <i>K 1548.3</i>	-Bingkuka.	4° 04.0' S 121° 34.0' E	Fl.G. period 5s	20 6	5	Green beacon.	Radar reflector.
25368 <i>K 1548.5</i>	-Padamarang.	4° 03.0' S 121° 23.3' E	Fl.R. period 6s	28 9	8	Red beacon.	Radar reflector.
25370 <i>K 1548.6</i>	-Lambasina Kecil.	4° 04.5' S 121° 19.0' E	Fl.(2)W. period 8s	197 60	15		
25372 <i>K 1548.7</i>	-Lambasina Besar.	4° 04.0' S 121° 22.0' E	Fl.W. period 5s	40 12	11	White beacon.	Radar reflector.
25373 <i>K 1549</i>	Boeapinang.	4° 46.5' S 121° 34.2' E	Fl.W. period 3s	39 12	10	White beacon.	
25373.5 <i>K 1548.9</i>	-SW.	4° 47.4' S 121° 33.8' E	Fl.(2)G. period 10s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25373.6 <i>K 1548.91</i>	--E.	4° 47.4' S 121° 33.8' E	Fl.(2)R. period 10s	23 7	6	PORT (A) R, beacon, topmark.	
25374 <i>K 1553.5</i>	Telaga Besar.	5° 31.2' S 122° 00.0' E	Fl.(2)W. period 15s	138 42	25		
25376	Pertamina.	0° 56.0' S 122° 49.0' E	Q.(4)W. period 8s	33 10	11		<i>Reported extinguished (Dec. 1984).</i>
25378	Pulau Bakakang.	1° 35.1' S 123° 27.5' E	Fl.W. period 3s	39 12	12	White beacon.	
25379	Pulau Kenau.	1° 46.4' S 123° 31.7' E	Fl.W. period 3s	39 12	12	White beacon.	
25380 <i>K 1569</i>	Buang Buang.	2° 04.0' S 123° 55.0' E	Fl.W. period 5s	92 28	15	White tower.	
25384 <i>K 1569.3</i>	Pulau Seku.	2° 00.3' S 124° 18.1' E	Fl.(2)W. period 15s	197 60	15	White beacon.	
25386 <i>K 1541.6</i>	Tanjung Siwa.	3° 41.5' S 120° 26.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	
25388 <i>K 1542</i>	Tanjung Jene.	3° 14.1' S 120° 25.5' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	White beacon; 29.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS

25390 K 1544	Palopo.	2° 58.9' S 120° 13.1' E	Fl.W. period 3s	46 14	12	White tower.	
25400 K 1545.6	Bulu Pulu, W. head.	2° 48.8' S 120° 57.3' E	Fl.W. period 3s	59 18	10	White beacon.	Radar reflector.
25404 K 1545	-N. side.	2° 40.2' S 121° 01.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	5	White pile; 23.	Radar reflector.
25406 K 1547.5	Batunon.	3° 17.7' S 120° 57.6' E	Fl.W. period 3s	39 12	10	White beacon.	
25408 K 1536	Pulau Pasitanete.	5° 44.5' S 120° 29.5' E	Fl.(4)W. period 20s	213 65	22	White metal framework; 67.	Visible 021°-322°.
25411 K 1532.5	Bulukumba.	5° 32.7' S 120° 12.5' E	Fl.W. period 5s	42 13	11		
25412 K 1532	Bulukumba, Papanambeja Point.	5° 34.0' S 120° 11.4' E	Fl.(4)W. period 20s	85 26	7	White metal framework tower;	Visible 270°-051°.
25414 K 1528	Tanjung Bulu Bulu.	5° 42.3' S 119° 46.0' E	Fl.W. period 10s	138 42	18		
25416 K 1524	Takarewataya (De Bril).	6° 05.0' S 118° 54.0' E	Fl.W. period 10s	82 25	22	Truncated octagonal pyramid, red and white stripes, 3 balconies; 75.	

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Azimuth coverage 097°-010°.

RACON

25416.5	Banawaja.	6° 49.3' S 119° 12.1' E	Fl.(2)W. period 5s	105 32	17	White beacon.	
25416.6	Pulau Jailamu. K 1325.3	6° 33.7' S 118° 48.6' E	Fl.W. period 5s	56 17	16	White fiberglass tower; 33.	
25416.7	Pulau Longkoitang.	6° 42.1' S 118° 16.9' E	Fl.W. period 5s	105 32	17	White beacon.	
25417	Pulau Pasi. K 1537	6° 06.0' S 120° 26.3' E	Fl.G. period 3s	43 13	10	Green beacon.	
25418	Benteng. K 1538.5	6° 06.7' S 120° 27.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	

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INDONESIA SULAWESI (CELEBES)

25420 K 1522	Dewakang Besar.	5° 23.7' S 118° 25.3' E	Fl.W. period 5s	108 33	15	White metal framework tower; 98.	Radio beacon.
25421 K 1518.5	Pulau Tanakeke.	5° 32.0' S 119° 16.9' E	Fl.W. period 10s	80 24	23	White beacon; 65.	
25422 K 1519	-E.	5° 29.5' S 119° 19.2' E	Fl.W. period 5s	49 15	9		
25423	Pulau Bangkauluang.	5° 30.1' S 118° 38.1' E	Fl.W. period 5s	49 15	12	White beacon.	
25424 K 1518	Pulau Dayangdayangan.	5° 24.1' S 119° 11.5' E	Fl.W. period 5s fl. 1s, ec. 4s	138 42	19	White metal framework tower; 98.	Obscured 120°-130°.
25424.5	Taka Gosseiya.	5° 22.0' S 119° 00.0' E	Fl.W. period 5s	49 15	12	White beacon.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)							
25425 K 1509	Takabakang.	4° 57.8' S 118° 33.0' E	Fl.W. period 5s	49 15	12		
UJUNGPANDANG:							
25432 K 1517	-Kudingareng Lomo.	5° 09.1' S 119° 15.5' E	Fl.(4)W. period 27.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 19s	135 41	17	White metal framework tower; 132.	
25434 K 1517.2	--S.	5° 09.6' S 119° 15.8' E	Q,(6)+L,Fl.W. period 15s	26 8	10	S. CARDINAL YB, beacon, topmark.	
25436 K 1511	-Pulau Samalona.	5° 07.5' S 119° 20.2' E	Fl.(2)G. period 5s	49 15	9	White beacon.	Radar reflector.
25440 K 1516	-Mariso.	5° 09.1' S 119° 23.8' E	Fl.W. period 5s fl. 1s, ec. 4s	131 40	8	White framework tower; 128.	
25444 K 1513	-Entrance, N. side.	5° 07.1' S 119° 23.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	8	Red beacon.	On request.
25448 K 1514	--S. side.	5° 07.2' S 119° 23.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	4	Green framework tower on piles.	On request.
25449 K 1512	-Breakwater, W.	5° 07.4' S 119° 23.5' E	Fl.G. period 5s	20 6	6	Green beacon.	
25452 K 1515	-Quay, S. head.	5° 07.4' S 119° 24.4' E	Fl.W. period 3s	105 32	18		
25458 K 1510.5	-Paotere.	5° 06.4' S 119° 25.4' E	Fl.G. period 5s	26 8	10		
25460 K 1510	-Bone Panambungang.	4° 58.0' S 119° 21.0' E	Fl.G. period 4s	49 15	9	Green beacon.	
25461 K 1508.5	Pulau Lanyukang.	4° 58.9' S 119° 04.5' E	Fl.W. period 10s	80 24	23	White beacon; 65.	
25464 K 1509.5	-Batu Bajangang.	4° 52.8' S 119° 22.0' E	Fl.R. period 3s	49 15	9	Red beacon.	Reported destroyed (1993).
25468 K 1508	Pulau Kapoposang.	4° 41.9' S 118° 56.7' E	Fl.W. period 5s	118 36	16	Red metal skeleton structure; 108.	
RACON		K(- -)	period 30s		5		Azimuth coverage 148°-047°.
25470 K 1540	Karang Limpogoh Selatan.	4° 56.2' S 120° 45.2' E	Fl.W. period 3s	49 15	12		
25472 K 1541	Totopela Reef.	4° 31.9' S 120° 27.9' E	Fl.R. period 4s	26 8	8		
25473 K 1541.3	Tanjung Lameriki.	4° 10.3' S 120° 22.5' E	Fl.W. period 10s	112 34	24	White beacon; 98.	
25474 K 1506.5	Teluk Sido entrance, N.	4° 13.7' S 119° 36.0' E	Fl.R. period 4s	26 8	8	Red beacon.	
25474.5 K 1506.6	-S.	4° 13.9' S 119° 35.8' E	Fl.G. period 3s	26 8	8	Green beacon.	
25476 K 1506	Tg. Lero.	4° 02.7' S 119° 35.5' E	Fl.R. period 5s fl. 1s, ec. 4s	46 14	11	White metal tower, red bands; 26.	
RACON		M(- -)					

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)							
25480 <i>K 1507</i>	-Parepare.	4° 01.0' S 119° 37.2' E	F.R.	33 10	6		
25482 <i>K 1507.5</i>	Pankamandra.	4° 16.7' S 119° 17.2' E	Fl.W. period 3s	49 15	12		
25485 <i>K 1500</i>	Polewali.	3° 26.4' S 119° 20.5' E	Fl.W. period 3s	46 14	12		
25488 <i>K 1498</i>	Majene, pier, head.	3° 33.1' S 118° 57.8' E	F.R.	22 7	4	Metal beacon.	Visible 335°-020°.
25492 <i>K 1496</i>	Tanjung Rangasa.	3° 34.0' S 118° 56.0' E	Fl.W. period 5s	344 105	21	White metal framework; 69.	Visible 258°-147°. Radiobeacon.
25500 <i>K 1490</i>	Tg. Rangas.	2° 37.5' S 118° 48.7' E	Fl.W. period 6s	324 99	23	White metal framework tower; 69.	Visible 030°-240° and 261°- 272°.
	RACON		Y(-•--)				
25502 <i>K 1491</i>	Tg. Kai.	2° 51.7' S 118° 46.1' E	Fl.W. period 5s	52 16	16	White fiberglass beacon; 33.	Radar reflector.
25503 <i>K 1490.1</i>	Simboro Mamuju.	2° 40.5' S 118° 52.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	12	White beacon.	
25503.5 <i>K 1490.15</i>	-S.	2° 40.6' S 118° 52.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White beacon.	
25503.6 <i>K 1489.2</i>	Belangbelang.	2° 28.6' S 119° 06.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	10	STARBOARD (A) G, beacon, topmark.	
25503.65 <i>K 1489.1</i>	-NE.	2° 28.4' S 119° 06.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	10	PORT (A) R, beacon, topmark.	
25503.7 <i>K 1489</i>	--E.	2° 28.4' S 119° 07.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	10	PORT (A) R, beacon, topmark.	
25503.8 <i>K 1485</i>	Tanjung Lalereh.	1° 59.9' S 119° 12.7' E	Fl.W. period 5s	138 42	12	White beacon.	
25504 <i>K 1484</i>	Tanjung Pasaugkajoe.	1° 10.3' S 119° 20.5' E	Fl.(3)W. period 24s	184 56	20	White metal framework tower; 132.	
25508 <i>K 1476</i>	Teluk Palu.	0° 38.0' S 119° 44.0' E	L.Fl.(4)W. period 25s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	269 82	23	White metal framework structure; 69.	The beacon on the pierhead and Coast reef will show F.R. only when vessel is expected.
25510 <i>K 1478</i>	Donggala, pier, head.	0° 39.7' S 119° 44.8' E	Fl.W. period 3s	43 13	12	Beacon.	On request.
25512 <i>K 1483</i>	-Panteluan.	0° 42.1' S 119° 50.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	12	White beacon; 49.	
25516 <i>K 1482.5</i>	Loli Qgeh.	0° 47.0' S 119° 48.0' E	Q.(4)W. period 8s	33 10			

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INDONESIA (LESSER SUNDA ISLANDS)							
	BALI:						
25520 K 1291.4	-Bukit Badung.	8° 49.2' S 115° 08.6' E	Fl.(3)W. period 20s	722 220	25		4 F.R. about 2 miles E.
25522 K 1291.6	-Tanjung Mebulu.	8° 49.6' S 115° 05.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	263 80	15	White beacon.	
25524 K 1291	-Benoa Harbor.	8° 45.0' S 115° 13.0' E	Fl.W. period 5s	101 31	16		
25526 K 1291.2	--Range, front.	8° 46.0' S 115° 14.0' E	Fl.W. period 3s	23 7	8	Beacon, white triangular daymark.	
25526.1 K 1291.21	--Rear, 590 meters 252° from front.	8° 45.6' S 115° 13.3' E	Fl.W. period 3s	39 12	9	Beacon, white triangular daymark, point down.	
25528 K 1290	-Tanjung Serangan.	8° 43.2' S 115° 15.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	12	Beacon.	
25532 K 1287	-Tanjung Sari.	8° 31.8' S 115° 30.9' E	Fl.W. period 5s	125 38	15	White beacon.	
25536 K 1289	--Teluk Padang Range, front.	8° 31.7' S 115° 30.3' E	Iso.W. period 2s	46 14	12	Beacon, triangular daymark, point up.	Fl.G. 3s and Fl.R. 4s mark entrance.
25536.1 K 1289.1	--Rear, 430 meters 329°30' from front.	8° 31.5' S 115° 30.2' E	Iso.W. period 8s	66 20	12	Beacon, triangular topmark, point down.	
25538 K 1286	-Pulau Gilitepekong.	8° 31.6' S 115° 35.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	213 65	18	Beacon.	
25540 K 1285	-Gili Selang.	8° 23.8' S 115° 42.3' E	Fl.(3)W. period 15s	164 50	24	White metal framework structure; 66.	
	-RACON		K(-•-)				
25541 K 1284.2	-Tg. Bungkulan.	8° 03.8' S 115° 10.9' E	Fl.W. period 5s	105 32	12	White beacon.	
25542 K 1284	-Buleleng, E. of river entrance.	8° 05.5' S 115° 05.5' E	Fl.W. period 3s fl. 1s, ec. 2s	82 25	13	White metal framework, black stripes; 46.	Visible 071°-227°.
25543 K 1283.5	-Beacon "1M".	8° 11.3' S 114° 50.1' E	Fl.(2)W. period 6s	19 6	6	ISOLATED DANGER BRB, beacon, topmark.	
25544 K 1283	-Celukanbawang.	8° 11.0' S 114° 50.0' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	36 11	4	Beacon.	
25545 K 1283.7	--Harbor.	8° 11.7' S 114° 49.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	12	White beacon.	
25546 K 1292	Nusa Lembongan, Tanjung Taal.	8° 40.0' S 115° 27.0' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	88 27	6	White metal framework structure; 49.	Visible 053°-256°.
25548 K 1294	Nusa Penida.	8° 49.1' S 115° 35.6' E	Fl.(3)W. period 21.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 13s	682 208	25	White metal framework tower; 66.	

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INDONESIA (LESSER SUNDA ISLANDS)							
LOMBOK:							
25551 K 1294.5	-Tg Agaragar.	8° 12.7' S 116° 22.1' E	Fl.W. period 5.5s	115 35	18	White beacon.	
25552 K 1296	-Ampenan.	8° 34.3' S 116° 04.5' E	Fl.(3)W. period 45s fl. 1s, ec. 9s fl. 1s, ec. 9s fl. 1s, ec. 24s	105 32	15	White metal framework tower; 98.	
25554 K 1295	Trewangan.	8° 21.0' S 116° 01.5' E	Fl.(2)W. period 10s	144 44	18		
RACON							
25555 K 1294.9	Pulau Meno.	8° 21.0' S 116° 03.2' E	Fl.Y. period 3s	36 11	6	SPECIAL Y, beacon, topmark.	
25555.5 K 1294.8	Pulau Aer.	8° 22.2' S 116° 05.0' E	Fl.Y. period 4s	36 11	6	SPECIAL Y, beacon, topmark.	
25560 K 1298	Lembar Harbor.	8° 43.9' S 116° 03.6' E	Fl.W. period 5s	210 64	11	White metal framework tower; 39.	
25564 K 1298.4	-Kramat.	8° 44.4' S 116° 03.7' E	Fl.R. period 3s	53 16	4	Red beacon.	
25565 K 1298.3	-Lembar.	8° 44.2' S 116° 03.9' E	Fl.G. period 3s	43 13	12	STARBOARD (A) G, beacon; 26.	Radar reflector.
25565.5 K 1298.35	--SW.	8° 44.2' S 116° 03.9' E	Fl.R. period 4s	43 13	12	PORT (A) R, beacon.	Radar reflector.
25568 K 1297	-Labuan Tring Bay.	8° 43.6' S 116° 02.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	171 52	10	Green beacon; 39.	
25569 K 1299.5	Tanjung Mangkun.	9° 00.6' S 116° 44.1' E	Fl.W. period 5s	95 29	14		
25570 K 1299	Tanjung Pandanan, S.	8° 45.1' S 115° 49.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	98 30	12	Beacon.	
25571 K 1296.7	Pulau Gilipoh.	8° 42.5' S 115° 58.5' E	Q.(2)W. period 5s	52 16	12	White beacon.	
25571.5 K 1299.3	Tanjung Bungkulon.	8° 57.2' S 116° 23.6' E	Fl.W. period 6s	312 95	12	Beacon.	
25572 K 1300	-Tanjung Ringgit.	8° 52.2' S 116° 35.1' E	Fl.(2)W. period 10s	361 110	27	White metal framework tower; 131.	
25572.7 K 1299.56	Tg. Maloh.	8° 53.7' S 116° 43.7' E	Fl.W. period 7s	413 126	12	White beacon.	
25572.8 K 1299.57	Benete Range, front.	8° 54.0' S 116° 44.7' E	Q.W.	43 13	6	Beacon, white cone topmark, point up.	
25572.81 K 1299.571	-Rear, 127° from front.	8° 54.0' S 116° 44.9' E	Iso.W. period 4s	52 16	6	Beacon, white cone topmark, point down.	
25573 K 1300.2	Gili Lebur.	8° 29.1' S 116° 41.2' E	Q.W.	33 10	9	Beacon, double cone topmark, points up.	
25573.2 K 1300.3	-Reef, W. head.	8° 29.0' S 116° 40.6' E	Fl.R. period 2s	20 6	7	Red beacon.	
25573.3 K 1300.4	Karang.	8° 29.1' S 116° 40.6' E	Fl.R. period 4s	26 8	5	Red beacon.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25573.4 <i>K 1300.35</i>	Ujung Karang Labuhan Lombok.	8° 28.9' S 116° 40.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	5	Green beacon.	
25573.5 <i>K 1300.1</i>	Teluk Lombok.	8° 29.1' S 116° 40.1' E	Fl.W. period 3s	46 14	10	White beacon.	
25574 <i>K 1305</i>	Pulau Ular.	8° 30.2' S 116° 49.2' E	Q.(2)W. period 5s	161 49	10	Black beacon, red bands.	
25574.4 <i>K 1306</i>	Tanjung Tano.	8° 31.2' S 116° 49.8' E	Fl.G. period 3s	46 14	9	Green beacon.	
25576 <i>K 1301</i>	Gili Petagan, SE. side of the coast reef.	8° 26.2' S 116° 45.4' E	Fl.W. period 3s	49 15	12	White metal beacon; 49.	Obscured by Gili Petagan 104°-173°, and by the islands to the NW. of Sumbawa.
25578 <i>K 1322</i>	Pulau Kapoposangbali.	7° 30.3' S 117° 10.1' E	Fl.W. period 10s	112 34	24	White beacon; 98.	
25580 <i>K 1303</i>	Gosong Sakunci.	7° 51.5' S 117° 12.7' E	Fl.W. period 12s	56 17	15	Beacon.	
25584 <i>K 1304</i>	Pulau Medang.	8° 08.2' S 117° 23.5' E	Fl.(2)W. period 6s	157 48	17	White metal framework tower; 95.	
25584.5 <i>K 1323</i>	Karang Satunggul.	7° 32.7' S 117° 59.8' E	Q.W.	49 15	12	White beacon.	
25585 <i>K 1324</i>	Pelokang.	7° 10.5' S 118° 24.5' E	Q.W.	42 13	11	White beacon.	
25586 <i>K 1324.5</i>	Sarege.	7° 04.5' S 118° 39.5' E	Fl.(3)W. period 15s	42 13	11	White beacon.	
25588 <i>K 1309</i>	-Tanjung Lampasapi.	8° 23.0' S 118° 42.0' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	49 15	4		
25592 <i>K 1302</i>	Amoe.	8° 24.0' S 118° 42.0' E	Fl.W. period 5s fl. 0.5s, ec. 3.5s	49 15			
25593 <i>K 1310.6</i>	N. Amoe.	8° 23.9' S 118° 41.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	49 15	11	Green beacon.	
25594 <i>K 1310.4</i>	S. Amoe.	8° 24.5' S 118° 41.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	10	Red beacon.	
25596 <i>K 1310.2</i>	-Soembai.	8° 24.8' S 118° 41.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	49 15	12	Green beacon.	Radar reflector.
25602 <i>K 1308.4</i>	Tg. Pakijongan.	8° 05.2' S 117° 55.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	115 35	12	White beacon.	
25602.5 <i>K 1304.4</i>	Tg. Kolo.	8° 20.0' S 117° 28.6' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	36 11	6	SPECIAL Y, beacon, topmark.	
25602.7 <i>K 1304.6</i>	Tg. Ai Lancong.	8° 19.5' S 117° 34.4' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	46 14	6	SPECIAL Y, beacon, topmark.	
25603 <i>K 1308.1</i>	Badas, entrance.	8° 27.8' S 117° 22.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	43 13	12	STARBOARD (A) G, beacon, topmark.	
25604 <i>K 1307</i>	Sumbawa Bay, Badas.	8° 27.9' S 117° 22.6' E	Fl.(2)W. period 5s	33 10	12		

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INDONESIA (LESSER SUNDA ISLANDS)							
25605 <i>K 1307.5</i>	Badas.	8° 28.0' S 117° 22.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	39 12	10	White beacon.	
25606 <i>K 1308.5</i>	Batu Besar.	8° 14.6' S 118° 29.7' E	Fl.W. period 10s	82 25	22	White beacon.	
25608 <i>K 1310</i>	-Bima.	8° 27.0' S 118° 43.0' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	46 14	6		
25610 <i>K 1309.5</i>	Lawata.	8° 28.6' S 118° 42.4' E	Fl.(4)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	11	White beacon.	
25613 <i>K 1310.7</i>	Sangeang Island.	8° 07.8' S 119° 04.9' E	Fl.W. period 10s fl. 0.9s, ec. 9.1s	69 21	22	White beacon.	
25614 <i>K 1310.8</i>	Tg. Naru.	8° 18.8' S 119° 00.5' E	Fl.(2)W. period 15s	144 44	18		
25616 <i>K 1311</i>	Toronaganuri.	8° 33.3' S 119° 01.7' E	Fl.G. period 3s	197 60	12		Visible 196°-274°.
25617 <i>K 1311.2</i>	Nisa Sanai.	8° 33.3' S 119° 02.4' E	Fl.R. period 4s	46 14	10	Red beacon.	
25618 <i>K 1311.5</i>	Bajo.	8° 34.3' S 119° 01.2' E	Fl.W. period 4s	39 12	10	White beacon.	
25620 <i>K 1312</i>	-Pulau Kelapa Range, front.	8° 39.5' S 119° 14.0' E	Iso.W. period 2s	446 136	30	White framework tower; 13.	Visible 167°-177°.
25624 <i>K 1312.1</i>	--Rear, 242 meters 172° from front.	8° 40.1' S 119° 13.7' E	Fl.W. period 11s	489 149	18	White framework tower; 65.	
25626 <i>K 1315</i>	Pulau Komodo.	8° 43.8' S 119° 23.0' E	Q.(2)W. period 5s	230 70	22	White beacon.	
25628 <i>K 1314</i>	-Toro Jampang.	8° 44.8' S 118° 59.2' E	Fl.(2)W. period 15s	312 95	22		
FLORES:							
25628.3 <i>K 1315.5</i>	-Pulau Gililawa Laut.	8° 26.6' S 119° 34.8' E	Fl.W. period 3s	98 30	10	White beacon.	
25628.5 <i>K 1329</i>	-Sabolan Kecil.	8° 23.5' S 119° 47.9' E	Fl.W. period 1.5s	92 28	11	White beacon.	
25629 <i>K 1330</i>	-Toro Besi.	8° 14.5' S 120° 25.6' E	Fl.W. period 3s	98 30	15	White beacon.	
25629.2 <i>K 1330</i>	-Reo.	8° 17.0' S 120° 27.0' E	Fl.W. period 3s	39 12	10	White framework tower; 11.	
25629.4 <i>K 1330.2</i>	--Oil depot.	8° 16.7' S 120° 27.1' E	Fl.W. period 3s	30 9	10		
25629.7 <i>K 1330.4</i>	-Mborong.	8° 49.2' S 120° 36.8' E	Fl.W. period 1.5s	41 12	11	White beacon.	
25630 <i>K 1331.5</i>	-Marapoko.	8° 30.7' S 121° 19.3' E	Fl.(3)W.	39 12	12		
25631 <i>K 1332</i>	-Tg. Karterbileh.	8° 28.4' S 121° 37.9' E	Fl.W. period 3s	417 127	27	White beacon.	
25632 <i>K 1337</i>	-Ende.	8° 50.7' S 121° 38.6' E	Fl.W. period 3s	141 43	14		

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INDONESIA (LESSER SUNDA ISLANDS)							
25636 K 1333	--Fuel depot.	8° 51.0' S 121° 39.5' E	Fl.(3)W. period 8s	39 12	12		
25638 K 1338	-Appi.	8° 50.8' S 121° 40.1' E	Fl.(4)W. period 8s	36 11	8		
25639 K 1334.5	-Gosong Unjuran.	8° 28.7' S 122° 08.7' E	Fl.G. period 5s	49 15	12	STARBOARD (A) G, beacon.	Radar reflector.
25639.3 K 1335	Teluk Maumere.	8° 37.5' S 122° 13.3' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 15.5s	361 110	25	White metal framework structure; 134.	
25639.5 K 1334	-Gosong Boni.	8° 23.4' S 122° 14.1' E	Fl.R. period 6s	48 15	12	PORT (A) R, beacon.	Radar reflector.
25640 K 1340	-Larantuka.	8° 20.6' S 122° 59.5' E	Fl.W. period 4s	56 17	11	White beacon.	
25642 K 1339	Nusa Lobetobi.	8° 36.2' S 122° 50.8' E	Q.W.	148 45	9		
25643 K 1339.5	Tg. Lawawolo.	8° 36.5' S 122° 53.5' E	Q.W.	75 23	15	White beacon.	
25644 K 1340.5	--NE.	8° 20.5' S 122° 59.5' E	Fl.W. period 3s	33 10			
25648 K 1341	Tanjuns Sarbete.	8° 19.1' S 123° 01.0' E	Fl.W. period 5s	56 17	12		
25650 K 1341.6	Tanjung Mas.	8° 09.0' S 123° 01.2' E	Fl.W. period 5s	131 40	12		
25651 K 1343	Kawula.	8° 13.4' S 123° 41.8' E	Fl.W. period 4s	170 52	18	White beacon.	
25651.5 K 1343.5	Pulau Lapan.	8° 13.2' S 124° 01.8' E	Fl.(2)W. period 15s	111 34	10	White beacon.	
25651.6 K 1343.7	Blang Merang Bay.	8° 21.7' S 124° 05.7' E	Fl.W. period 2s	46 14	12	White beacon.	
25651.7 K 1342.5	Tg. Tuak.	8° 18.4' S 123° 20.9' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	42 13	12	Beacon.	
25652 K 1342	Pulau Adonara, outer of wharf near Waiwerang village.	8° 23.6' S 123° 10.0' E	Fl.(3)W. period 15s	59 18	8	White metal structure; 16.	
25653 K 1318	Tanjung Sasar.	9° 16.8' S 119° 56.5' E	Fl.(3)W. period 22s	279 85	24		
25653.1 K 1318.7	Waikelo.	9° 23.6' S 119° 12.9' E	Fl.W. period 2s	46 14	12	White beacon.	
25653.2 K 1321.5	Tg. Karaso.	9° 33.3' S 118° 56.2' E	L.Fl.W. period 8s	49 15	12	White beacon.	
25653.5 K 1317	-Tg Umdu.	10° 05.4' S 120° 50.8' E	Fl.(3)W. period 20s	138 42	17		
25656 K 1321	Pulau Mangudu.	10° 19.8' S 120° 07.0' E	L.Fl.W. period 5s	49 15	12	White beacon.	
25658 K 1319	Waingapu Reef.	9° 37.2' S 120° 15.5' E	Fl.R. period 3s	33 10	10	Red beacon.	
25658.1 K 1319.2	Sumba, Waingapu.	9° 38.0' S 120° 15.4' E	Fl.G. period 5s	23 7	6		
25658.2 K 1319.4	--Approach, E. side.	9° 38.1' S 120° 15.6' E	Fl.R. period 6s	23 7	6		

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INDONESIA (LESSER SUNDA ISLANDS)							
25660 K 1320.2	-Maingapoe.	9° 38.3' S 120° 15.5' E	Fl.W. period 7s	41 12	10 30.	White metal framework tower;	
25661.3 K 1326	Karang Nambolaki.	6° 41.7' S 120° 16.9' E	Fl.W. period 10s	39 12	11	White beacon.	
25662 K 1327	Pulau Kayudi.	6° 46.8' S 120° 47.6' E	Fl.(2)W. period 30s	43 13	11	White beacon.	
25662.1 K 1327.1	Pulau Latondu Kecil.	6° 31.5' S 120° 57.2' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	36 11	6	SPECIAL Y, beacon, topmark.	
25662.2 K 1327.2	Palau Belangbelang.	6° 24.3' S 121° 06.0' E	Fl.W. period 5s	56 17	16	White fiberglass tower; 33.	Radar reflector.
25662.5 K 1327.5	Ujung Perumang.	7° 08.1' S 120° 46.0' E	Fl.W. period 5s	36 11	12	White beacon.	
25663 K 1328	Bone Rate Island.	7° 23.2' S 121° 05.1' E	Fl.(3)W. period 10s	210 64	20		
25664 K 1327.7	Pulau Raja.	7° 05.3' S 121° 07.3' E	Fl.W. period 2s	39 12	12		
25664.5 K 1327.3	Pulau Ampalasa.	6° 54.8' S 121° 17.0' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	36 11	6	SPECIAL Y, beacon, topmark.	
25665 K 1327.8	Karang Sangi Sangiang.	7° 07.0' S 121° 27.2' E	L.Fl.W. period 11s	39 12	11		
25666 K 1328.5	Pulau Kakabia.	6° 54.5' S 122° 12.8' E	Fl.W. period 2s	36 11	12	White beacon.	
25668 K 1328.7	Pulau Kaunadi.	7° 25.7' S 122° 05.6' E	Fl.W. period 2s	39 12	11		
PULAU SAWU:							
25672 K 1350	-Kali Menia.	10° 25.8' S 121° 52.0' E	Fl.(3)W. period 10s	108 33	20	White stone pyramid; 26.	Visible 052°-243°, obscured in places 052°-060°.
25676 K 1352	-Seba.	10° 29.0' S 121° 50.4' E	Fl.W. period 6s	141 43	19		
25677 K 1353	Pulau Raijua, NW. coast.	10° 36.0' S 121° 37.0' E	Fl.W. period 1.5s	46 14	12	White beacon.	
25678 K 1354	Ria Jua.	10° 37.8' S 121° 31.4' E	Fl.W. period 3s	49 15	12		
25680 K 1356	Pulau Roti.	10° 43.7' S 123° 02.8' E	Fl.(2)W. period 10s fl. 1s, ec. 3s fl. 1s, ec. 5s	52 16	21	White metal structure; 45.	Visible 090°-211°. A F.W. light is shown at the head of the pier when ships are expected.
25681 K 1358	-Tanjung Pukuatu.	10° 25.9' S 123° 22.8' E	Fl.W. period 4.5s	43 13	12	White beacon.	
25682 K 1365.5	Tanjung Oisina.	10° 21.6' S 123° 27.6' E	Fl.W. period 4s	66 20	12	Beacon.	
25684 K 1360	Tanjung Kurong.	10° 07.8' S 123° 26.7' E	Oc.(2)W. period 30s lt. 12s, ec. 12s lt. 3s, ec. 3s	417 127	27	White metal framework structure; 52.	Visible 046°-293°.
RACON							
25686 K 1360.5	-Pulau Kera.	10° 05.4' S 123° 33.2' E	Fl.W. period 3s	39 12	11		

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INDONESIA (LESSER SUNDA ISLANDS)							
TIMOR:							
25688 K 1362	-Kupang, Fort Concordia.	10° 09.8' S 123° 34.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	13	White metal framework tower; 43.	Obscured in bay by Kera Island.
25692	--Pier, head.	10° 10.0' S 123° 34.0' E	F.G.		8	Wooden post.	Shown May to October. Occasional.
25696 K 1364	-Toddeh Point.	10° 10.0' S 123° 35.0' E	F.R.	23 7	8	White stone pyramid; 10.	
25700 K 1365	-Tenau.	10° 11.7' S 123° 31.8' E	Fl.W. period 3s	322 98	15		
25702 K 1365.7	Oekusi.	9° 11.2' S 124° 23.6' E	Fl.W. period 4s	102 31	16		
25704 K 1366	-Atapupu.	8° 59.7' S 124° 51.5' E	Fl.W. period 3s	52 16	10	White beacon.	
25705 K 1366.2	--Entrance, NW.	8° 59.5' S 124° 51.2' E	Fl.G. period 5s	49 15	12	STARBOARD (A) G, beacon.	
25705.5 K 1366.4	--SE.	8° 59.6' S 124° 51.3' E	Fl.R. period 6s	49 15	12	PORT (A) R, beacon.	
25708 K 1368	-Dili Harbor.	8° 33.0' S 125° 33.6' E	Fl.W. period 6s	62 19	17	Metal tower on conical concrete base, blue and white bands; 57.	
25708.5 K 1369	-Harbor.	8° 33.2' S 125° 34.7' E	Dir.Fl.(2)W.R.G. period 10s		6	Metal framework tower, double cone white daymark, points together.	G. shore-129°, W.-140°, R.- 153.5°.
25709 K 1367	-Beacon.	8° 32.8' S 125° 33.9' E	Fl.R. period 4s	39 12	12	Red beacon.	
25709.5 K 1368.3	--W.	8° 32.8' S 125° 33.8' E	Fl.G. period 5s	39 12	10	Green beacon.	
25709.7 K 1369.5	-Oil Depot.	8° 32.6' S 125° 32.8' E	Fl.(4)W. period 8s	33 10			
25709.8 K 1369.6	--NW.	8° 32.5' S 125° 32.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	10	White beacon.	
25710 K 1347	Laisumbu.	8° 19.3' S 125° 08.0' E	Fl.(2)W. period 28s	197 60	20		
25711 K 1347.5	Tg. Babi.	8° 08.5' S 124° 57.6' E	Fl.W. period 5s	85 26	15	White beacon.	
25711.5 K 1348	Pulau Sika.	8° 07.2' S 124° 36.8' E	Fl.W. period 4s	42 13	12	White beacon.	
PULAU ALOR:							
25711.7 K 1345	-Tg. Jalono.	8° 17.7' S 124° 24.5' E	Fl.W. period 7s	115 35	17		
25712 K 1344	-Kalabahi, landing pier.	8° 13.0' S 124° 31.0' E	F.R.	41 12	2	White post.	
25712.5 K 1344.5	--SW.	8° 13.8' S 124° 29.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	10	White beacon.	
25714 K 1346	-Tanjung Margeta.	8° 27.5' S 124° 24.9' E	Fl.W. period 7.5s	180 55	15	White structure.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25716 K 1372	Pulau Liran.	8° 03.0' S 125° 44.0' E	Fl.(4)W. period 40s	269 82	23		
25717 K 1371	Kun Range, front.	8° 21.8' S 127° 03.8' E	Iso.W. period 2s	36 11	10		
25717.1 K 1371.1	-Rear, 431 meters 175°56' from front.	8° 21.8' S 127° 03.8' E	Fl.(3)W. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	115 35	16		
25717.5 K 1371.5	Pulau Yako.	8° 25.5' S 127° 20.3' E	Fl.W. period 3s	154 47	14	White lighthouse.	
25718 K 1373	Kisar, Wonroli.	8° 04.4' S 127° 08.6' E	Fl.W. period 3s	39 12	5	White metal framework structure; 33.	
25718.5 K 1373.5	Pulau Nyata.	7° 31.4' S 127° 16.6' E	Fl.(3)W. period 15s	115 35	15	White beacon.	
25719 K 1374	Tg. Tutpateh.	8° 13.1' S 127° 36.1' E	Fl.(3)W. period 10s	131 40	18	White metal framework structure.	
RACON							
			M(--)				
25720 K 1376	Meatiy Miarang.	8° 20.0' S 128° 29.0' E	Fl.(3)W. period 29s fl. 1s, ec. 5.5s fl. 1s, ec. 5.5s fl. 1s, ec. 15s	82 25	27	White metal framework structure; 75.	
RACON							
			T(-)				
25722 K 1378	Selaru, Pulau Batarkusu.	8° 20.3' S 130° 49.0' E	Fl.W. period 4s	46 14	13	White metal framework structure; 33.	
25724 K 1379	Asoetoeboen.	8° 03.4' S 131° 16.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	12	White metal framework structure; 49.	
25728 K 1380.3	Depot Pertamina.	8° 00.4' S 131° 17.1' E	Q.(4)W. period 8s	36 11	10		
25732 K 1380	Saumlaki.	7° 59.0' S 131° 17.8' E	Fl.(2)W. period 15s	30 9	16	White framework tower; 20.	
25734 K 1380.2	-SW.	7° 59.3' S 131° 17.3' E	Fl.G. period 5s	46 14	12	Green beacon.	
25736 K 1382	Ritabel, Larat, W. head.	7° 09.2' S 131° 43.2' E	Fl.W. period 3s	46 14	12		Shown only when vessels are expected.
25738 K 1382.8	Pulau Lutur.	7° 08.0' S 131° 42.5' E	Fl.G. period 6s	46 14	12	Green beacon.	
25740 K 1383	Watidal.	7° 07.4' S 131° 43.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	4	Red metal framework structure; Temporarily extinguished (1988).	33.
25742 K 1592	Tg. Dehekalano.	1° 49.3' S 126° 29.2' E	Fl.(3)W. period 20s	213 65	20		
RACON							
			M(--)				
25744 K 1596	Leksula.	3° 46.8' S 126° 30.9' E	Fl.W. period 3s	26 8	12	White framework tower; 13.	Shown only when vessels are expected.
25746 K 1597	Pulau Fogi.	3° 17.3' S 125° 59.8' E	Fl.(2)W. period 15s	502 153	40		

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INDONESIA (LESSER SUNDA ISLANDS)							
	BURU:						
25748 K 1594	-Namlea, Teluk Kaveli.	3° 16.5' S 127° 05.7' E	F.R.	36 11	4	Metal post; 16.	Shown only when vessels are expected.
25750 K 1599	-Tanjung Kerbau.	3° 16.4' S 127° 07.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	10		
25752 K 1600	Pulau Sunggi.	3° 18.0' S 127° 28.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	308 94	23	White metal framework; 69.	Visible 310°-220°. Irregular during strong winds. Reported extinguished (Oct. 1984).
25754 K 1600.5	Pulau Niene.	2° 54.7' S 127° 54.2' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 11.5s	197 60	30		
25754.5 K 1601.15	Tanjung Waka.	2° 28.0' S 126° 02.9' E	Fl.(3)W. period 15s	164 50	20	White structure.	
25755 K 1601.1	Tanjung Fatmok.	2° 26.5' S 126° 04.1' E	Fl.(3)W. period 9s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s	39 12	13	White beacon.	
25756 K 1601	Sanana.	2° 03.0' S 125° 59.0' E	Fl.R. period 5s	59 18	8	Red beacon.	
25756.5 K 1601.3	-In harbor.	2° 03.2' S 125° 58.8' E	Fl.G. period 3s	46 14	12	Green beacon.	
25760 K 1601.5	Sakita.	1° 58.5' S 125° 57.1' E	Fl.(4)W. period 8s	33 10	10		
25764 K 1603	Pulau Lawin.	1° 31.0' S 128° 45.0' E	Fl.(2)W. period 6s	112 34	15	White beacon.	
25769 K 1587.5	Babang.	0° 37.6' S 127° 35.8' E	Fl.W. period 4s	46 14	10	White beacon.	
25770 K 1588	Pokal.	0° 26.4' S 127° 43.0' E	Fl.(2)W. period 15s	360 110	25	White beacon.	
25771 K 1582	Lata Lata.	0° 15.5' S 127° 00.8' E	Fl.W. period 2s	46 14	13	White metal framework structure; 33.	
25772 K 1620	Tanjung Nusanive.	3° 47.3' S 128° 05.6' E	Fl.W. period 5s	452 138	23	White metal framework tower; 98.	Visible 254°-094° and in the bay to 195°. Radio beacon.
25773 K 1619	P. Nusatelu, P. Ela.	3° 39.1' S 127° 54.3' E	Fl.W. period 4s	197 60	10	White beacon.	
25776 K 1621	Tandjung Sikula.	3° 43.1' S 128° 05.2' E	Fl.R. period 10s	43 13	7	White metal framework tower; 39.	
25780 K 1621.4	Tandjung Wainitu.	3° 42.0' S 128° 09.7' E	Fl.G. period 5s	29 9	4	White metal framework tower; 26.	
25782 K 1622	Ambon.	3° 41.6' S 128° 10.5' E	F.R.	98 30	5	White wooden mast; 10.	
25783 K 1622.5	-N. of Batumerah.	3° 40.6' S 128° 11.3' E	Fl.W. period 3s	39 12	8	White beacon.	
25784 K 1623	Halong.	3° 39.7' S 128° 11.7' E	Fl.G. period 5s	26 8	4	STARBOARD (A) G, beacon, topmark.	
25788 K 1623.5	Martafonds.	3° 39.4' S 128° 12.0' E	Fl.R. period 6s	26 8	4	PORT (A) R, beacon, topmark.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (LESSER SUNDA ISLANDS)							
25790 <i>K 1624</i>	Tolehu.	3° 34.1' S 128° 19.1' E	Fl.W. period 3s	46 14	12		
25791 <i>K 1624.5</i>	Tg. Kailolo.	3° 31.3' S 128° 25.8' E	Q.(6)+L.Fl.W. period 15s	33 10	5	White beacon; 16.	
25791.4 <i>K 1624.7</i>	Pelauw.	3° 30.1' S 128° 26.2' E	Q.(3)W. period 10s	33 10	5	White beacon.	
PULAU SERAM:							
25792 <i>K 1604</i>	-Wahai, pier, head.	2° 47.0' S 129° 29.0' E	F.R.	26 8	2	White metal framework tower.	
25794 <i>K 1605.5</i>	-Teluk Hatiling.	2° 47.2' S 129° 30.9' E	Fl.R. period 3s	46 14	10		
25796 <i>K 1605</i>	-NW.	2° 46.6' S 129° 30.6' E	Fl.G. period 4s	46 14	10		
25798 <i>K 1610.5</i>	-Tanjung Namalen.	3° 57.0' S 131° 25.1' E	Fl.R. period 5s	46 14	12		
25800 <i>K 1608</i>	-Pulau Geser, pier, head.	3° 52.0' S 130° 54.0' E	F.R.	33 10	2	White metal framework tower.	Visible 334°30'-008° and 136°-244°. Exhibited when ships are expected.
25802 <i>K 1610.7</i>	-Karang Madorang.	3° 38.6' S 131° 03.6' E	Fl.(2)W. period 10s	46 14	12		
25803 <i>K 1611.8</i>	Teluk Elpaputih, Tg. Kuako.	3° 19.6' S 128° 54.7' E	Fl.W. period 4s	55 17	10	White beacon.	
25803.5 <i>K 1612</i>	-Teluk Amahai.	3° 20.2' S 128° 55.5' E	Fl.W. period 3s	55 17	10	White beacon.	
25803.7 <i>K 1612.5</i>	-Haruru.	3° 17.7' S 128° 57.0' E	Fl.W. period 3s	46 14	12		
25804 <i>K 1616</i>	Sapurua Bay, landing pier, head.	3° 35.2' S 128° 37.5' E	F.R.	25 8	1	White metal framework tower.	
25806 <i>K 1613</i>	Teluk Piru, Pulau Kasa.	3° 19.0' S 128° 08.2' E	Fl.W. period 5s	46 14	10	White beacon.	
25808 <i>K 1625</i>	Saanggi.	4° 19.5' S 129° 42.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	400 122	25	White beacon.	
PULAU BANDA:							
25812 <i>K 1626</i>	-Pulau Naira, S. side, pier, head.	4° 31.5' S 129° 53.5' E	Fl.W. period 3s	46 14	12		
25816 <i>K 1626.5</i>	--Tg. Batu Mati.	4° 30.1' S 129° 53.3' E	Fl.R. period 10s	42 13	7	White beacon; 20.	
25820 <i>K 1626.3</i>	-Pulau Kraka.	4° 30.2' S 129° 53.0' E	Fl.G. period 5s	36 11	7	White framework tower; 33.	
25824 <i>K 1628</i>	Bui.	5° 06.7' S 131° 59.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White metal framework structure; 49.	
25828 <i>K 1628.5</i>	Pulau Koer.	5° 18.7' S 132° 00.4' E	Fl.(3)W. period 20s	393 120	40	Beacon.	
25830 <i>Kaitanimbar.</i>		6° 00.5' S 132° 26.2' E	Fl.(3)W. period 10s	197 60	20	White structure.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25832 K 1629	-Tual.	5° 34.2' S 132° 40.3' E	F.I.R. period 3s	59 18	4	PORT (A) R, beacon, topmark.	
25833 K 1629.3	Selat Doe Rowa, NW. of Oeboer.	5° 34.5' S 132° 42.7' E	FI.G. period 6s	27 8	6	STARBOARD (A) G, beacon.	
25833.5 K 1630.4	Pulau Duroa, SE head.	5° 32.9' S 132° 45.5' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	26 8	6	STARBOARD (A) G, beacon, topmark.	Radar reflector.
25834 K 1629.36	-Ngadi.	5° 34.6' S 132° 45.3' E	L.FI.W. period 5s fl. 2s, ec. 3s	59 18	7		Fl.Y. 1.5s 7m 5M light 300 meters W and Fl.Y. 2.5s 7m 5M light 300 meters N. Radar reflector.
25836	Oeboer.	5° 35.9' S 132° 43.8' E	FI.G. period 3s	33 10	4	White iron framework structure; 33.	
25837 K 1629.8	Mangon.	5° 36.2' S 132° 44.2' E	F.I.R. period 3s	27 8	4	PORT (A) R, beacon, topmark.	
25840 K 1630	-Kai Duloh Tual.	5° 38.3' S 132° 44.2' E	FI.W. period 3s	33 10	5		
25844 K 1630.6	-Tegal Reef.	5° 28.5' S 132° 49.3' E	FI.W. period 5s	56 17	12	White metal framework tower.	
25848 K 1631	-Elat, pier, head.	5° 39.1' S 132° 59.3' E	FI.W. period 3s	26 8	10	White metal framework tower.	
25850 K 3341	-Tg Aika.	4° 52.4' S 136° 44.8' E	Q.(2)W. period 10s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 8.6s	102 31	17		
25852 K 3342.4	Aika River Range, front.	4° 52.0' S 136° 47.0' E	Q.W.	23 7	6	Beacon.	
25856 K 3342.41	-Rear.	4° 52.0' S 136° 47.0' E	Oc.W. period 4.5s	47 14	6	Beacon.	
25860 K 3342.6	Inner Aika River Range, front.	4° 50.0' S 138° 47.0' E	Q.W.	23 7	6	Beacon.	
25864 K 3342.61	-Rear.	4° 50.0' S 136° 47.0' E	Oc.W. period 4s	42 13	6	Beacon.	
25868	Aika River.	4° 50.0' S 136° 50.0' E	FI.W. period 4s	36 11	6	Beacon.	

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NEW GUINEA (IND.)							
25872 K 1632	Kepulauan Aru, Pulau Wamar, on Ular Point.	5° 45.1' S 134° 10.8' E	L.FI.W. period 5s fl. 2s, ec. 3s	73 22	12	White metal structure; 42.	Visible 018°-271°.
25876 K 1633	-Pulau Warilau, N. head.	5° 19.7' S 134° 34.1' E	FI.W. period 4s	98 30	10	White framework tower.	
-RACON							
25884 K 1632.4	-Dobo, pier, head.	5° 45.4' S 134° 13.4' E	F.R.	26 8	4	White metal framework tower.	Shown when vessels are expected.
25886 K 1632.6	-Fuel Depot.	5° 49.1' S 134° 13.9' E	FI.W. period 3s	33 10			
25887 K 3336	Sungai Torasi.	9° 07.8' S 141° 00.9' E	FI.W. period 3s	46 14	10	White beacon.	

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NEW GUINEA (IND.)							
25888 K 3338	Tg. Mimiabe.	8° 30.0' S 140° 22.0' E	Fl.(4)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	144 44	18	White metal structure; 65.	Shown only on request. Radiobeacon.
25890 K 3339.2	-Sungai Merauke.	8° 28.8' S 140° 23.4' E	Fl.I.W. period 6s	82 25	20	White beacon.	
25892 K 3339	-Range, front.	8° 27.6' S 140° 21.7' E	Fl.I.W. period 4s	46 14	10	Beacon, white triangular topmark, point up; 30.	Occasional.
25896 K 3339.1	--Rear, 300 meters 035° from front.	8° 27.4' S 140° 21.8' E	Fl.I.W. period 3s	69 21	12	White metal framework tower, triangular topmark, point down; 52.	Occasional.
25897.5 K 3338.4	Pelabuhan Merauke.	8° 30.7' S 140° 18.7' E	Fl.I.R. period 3s	42 13	12		
25898 K 3338.5	-Merauke.	8° 29.8' S 140° 19.3' E	Fl.I.R. period 4s	39 12	10	Red metal framework tower.	
25899 K 3338.7	-Merauke Inner.	8° 28.6' S 140° 21.1' E	Fl.I.G. period 5s	44 13	10	Green framework structure.	
25900 K 3339.6	Yatum.	8° 27.2' S 140° 18.8' E	Fl.I.W. period 6s	82 25	10	White metal framework structure; 82.	
25902 K 3339.8	Tanjung Mawal.	8° 07.1' S 139° 57.0' E	Fl.I.W. period 3s	43 13	12	White beacon.	
25904 K 3340	Habee.	8° 14.5' S 139° 26.5' E	Fl.I.W. period 5s fl. 0.5s, ec. 4.5s	46 14	7	White metal framework tower; 26.	Visible 242°-110°.
RACON							
M(--)							
25906 K 3340.5	Selat Muli.	8° 23.6' S 138° 59.0' E	Fl.I.R. period 4s	39 12	10	Red metal framework tower.	
25906.1 K 3340.51	-NW.	8° 21.2' S 138° 57.9' E	Fl.I.G. period 3s	46 14	10	Green beacon.	
25906.3 K 3340.52	-Kimaan.	8° 00.7' S 138° 53.6' E	Fl.I.W. period 6s	75 23	19	White beacon.	
25906.7 K 3340.69	Tanjung Kolff.	7° 23.3' S 138° 32.1' E	Fl.I.W. period 3s	43 13	12	White beacon.	
25907 K 3340.7	Sungai Digul.	6° 56.0' S 138° 31.8' E	Iso.W. period 2s	39 12	10	White metal framework tower.	
25907.1 K 3340.65	-S. estuary.	7° 10.3' S 138° 49.0' E	Fl.I.R. period 5s	43 13	12	Red beacon.	
25907.15 K 3340.67	Habeeaman.	7° 11.6' S 138° 57.7' E	Fl.I.G. period 5s	46 14	15		
25907.2 K 3340.68	-Modderhock.	7° 11.6' S 138° 39.0' E	Fl.I.G. period 4s	43 13	12	Green beacon.	
25907.25 K 3340.94	Atay.	5° 51.1' S 138° 09.2' E	Fl.I.R. period 5s	46 14	10	PORT (A) R, beacon, topmark.	
25907.3 K 3340.95	Kampung River, entrance.	5° 51.9' S 138° 15.7' E	Fl.I.G. period 3s	43 13	12	STARBOARD (A) G, beacon, topmark.	
25907.4 K 3340.8	Flamingo Bay.	5° 36.7' S 137° 57.8' E	Fl.I.G. period 3s	43 13	12	Green beacon.	
25907.6 K 3340.85	-Agats.	5° 32.9' S 138° 02.0' E	Iso.W. period 2s	43 13	12	White beacon.	
25907.62 K 3340.87	--Sungai Utumbuwe.	5° 32.9' S 138° 08.2' E	Fl.I.W. period 3s	75 23	19	White beacon.	
25907.65 K 3340.9	-Utumbuwe River, entrance.	5° 33.3' S 138° 04.1' E	Fl.I.G. period 3s	43 13	12	Green beacon.	

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NEW GUINEA (IND.)							
25907.8	Amampare, buoy "A".	4° 55.7' S 136° 40.1' E	Mo.(A)W.			Conical buoy.	
	RACON		O(---)				
25908 K 3343	Nime.	4° 45.1' S 136° 31.3' E	Fl.(2)W. period 12.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 16	12		
25910 K 3345.4	Pulau Nusurumi.	3° 50.2' S 134° 04.8' E	Fl.W. period 5s	187 57	12	White beacon.	
25912 K 3345.5	Palau Adi.	4° 19.0' S 133° 37.0' E	Fl.(3)W. period 15s	98 30	16	White structure.	
25914 K 3343.5	Pulau Keliwala.	3° 59.3' S 133° 30.5' E	Fl.W. period 3s	43 13	12	White beacon.	
25916 K 3345.3	Bitsyaru	3° 43.2' S 133° 47.8' E	F.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl., ec. 9.5s	246 75	14	White metal framework structure; 49.	
25917 K 3345	Kaimana.	3° 39.7' S 133° 44.7' E	F.R.	19 6	2		<i>Temporarily extinguished (1987).</i>
25917.5 K 3344.7	Tanjung Simora.	3° 40.2' S 133° 40.9' E	Fl.W. period 3s		12		
25918 K 3344.5	Serotte Island.	3° 34.2' S 133° 37.5' E	Fl.(2)R. period 10s	164 50	12		
25920 K 3346	Pulau Panjong, E. head.	3° 00.0' S 132° 18.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	112 34	7	White metal skeleton; 43.	Visible 139°30'-094°30'.
25924 K 3347	Fakfak.	2° 56.3' S 132° 17.3' E	Fl.W. period 3s	39 12	5	White beacon.	
25925 K 3347.7	Batu Putih, W. head.	2° 56.7' S 131° 57.6' E	Fl.W. period 5s	180 55	12	White beacon.	
25926 K 3356	Tg. Putus.	2° 03.6' S 132° 02.5' E	Fl.W. period 3s	46 14	12	White beacon.	
25928 K 3349	Tanjung Sabra.	2° 17.0' S 132° 17.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	7	White metal structure; 49.	Visible 311°-119°.
25930 K 3352	Tg. Karakra.	2° 17.5' S 132° 40.6' E	Fl.W. period 3s	43 13	12	White beacon.	
25932 K 3354	Tanjung Tanahmerah.	2° 27.0' S 133° 07.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	165 50	12	White skeleton structure; 33.	Visible 078°-253°.
25936 K 3350	Kokas.	2° 42.0' S 132° 25.2' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	36 11	5	Framework tower; 16.	
25938 K 3348.7	Tanjung Wetin.	2° 41.8' S 132° 05.8' E	Fl.W. period 3s	102 31	12		
25940 K 3348.4	Pulau Sabuda, NE. point.	2° 37.5' S 131° 39.0' E	Fl.(2)W. period 18s fl. 0.5s, ec. 3s fl. 0.5s, ec. 14s	328 100	12	White metal framework structure; 56.	Obscured 034° to 090° and at 106° by Sengeng.
25944 K 3358	Jef Joes.	1° 45.4' S 131° 08.0' E	Fl.W. period 7.5s	108 33	16	White metal skeleton structure; 66.	Obscured 018°-060°.
25948 K 3360	Umpe Island, W. head.	1° 29.0' S 130° 59.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	7	White skeleton structure; 34.	Visible 311°-150°.

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NEW GUINEA (IND.)							
25948.5 <i>K 3360.5</i>	Pulau Nampale.	1° 47.4' S 129° 37.8' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	151 46	20		
25948.7 <i>K 1603.5</i>	Pulau Boo Besar.	1° 10.1' S 129° 18.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	112 34	15	Concrete tower; 98.	
25949 <i>K 3361</i>	Pulau Kofiau.	1° 10.4' S 129° 58.1' E	Fl.W. period 5s	151 46	20		
	RACON		D(-••)		12		
SELAT SELE:							
25952 <i>K 3373</i>	-Pulau Ram.	0° 51.0' S 131° 11.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	29 9	6	Red beacon.	
25956 <i>K 3373.3</i>	-Pulau Buaya.	0° 50.3' S 131° 12.5' E	Fl.(4)W. period 25s	282 86	22	White beacon; 66.	Radiobeacon.
	-RACON		K(-•-)				
25960	-Sorong Approach Lighted Buoy, N. side of 1 3/4 fathom shoal.	0° 52.0' S 131° 13.7' E	Fl.W. period 10s			Red and white striped buoy.	Radar reflector.
25962 <i>K 3366.5</i>	Sorong.	0° 52.9' S 131° 14.7' E	Fl.W. period 4s fl. 1s, ec. 3s	43 13	10	White beacon.	
25964 <i>K 3374</i>	Doom Island.	0° 53.1' S 131° 13.9' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	5	STARBOARD (A) G, beacon, topmark; 16.	
25968 <i>K 3366</i>	-Dopior Islet.	0° 52.8' S 131° 14.1' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	33 10	5	White metal framework tower, red square daymark; 16.	
25972 <i>K 3368</i>	-Sorong Range, about 1.9 kilometers SE. of Tanjoeng Noejew, front.	0° 53.0' S 131° 15.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	6	White metal framework tower, cone topmark; 16.	
25976 <i>K 3368.1</i>	--Rear, 1.9 kilometers 102°30' from front.	0° 53.2' S 131° 16.3' E	Iso.W. period 4s	196 60	8	White framework tower, cone topmark, point down; 16.	
25980 <i>K 3367.9</i>	--Rear, 841 meters 032° from front.	0° 52.8' S 131° 15.4' E	Iso.W. period 4s	79 24	6	White cone daymark; 16.	
25984 <i>K 3368.5</i>	-Karang Dua.	0° 54.0' S 131° 15.0' E	Fl.(2)W. period 10s	23 7	5	ISOLATED DANGER BRB, topmark.	
25988 <i>K 3372</i>	-Pulau Tsiof.	0° 54.0' S 131° 11.0' E	Fl.(3)W. period 15s	36 11	6	White metal structure.	Obscured 207°-295°.
25992 <i>K 3379</i>	-Balbili Island.	1° 06.0' S 131° 11.0' E	Fl.(2)W. period 12.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	20 6	6	White hut on piles; 8.	Visible 130°-015°.
26000 <i>K 3381</i>	-Segarou Island, on reef northward Range, front.	1° 10.1' S 131° 06.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Red column; 13.	
26004 <i>K 3381.1</i>	--Rear, 7.4 kilometers 195°30' from front.	1° 14.1' S 131° 05.4' E	Fl. G. period 5s fl. 0.5s, ec. 4.5s	46 14	6	White structure, white triangular daymark, point down; 33.	
26008 <i>K 3382</i>	-Unaginim.	1° 12.0' S 131° 07.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	5	White hut on piles; 8.	
26012 <i>K 3384</i>	-Kampong Wiljam.	1° 17.0' S 131° 59.6' E	Fl.R. period 5s	23 7	6	Red beacon; 16.	

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NEW GUINEA (IND.)							
26016 K 3386	-Membok Island, on reef, NE.	1° 24.4' S 130° 54.4' E	F.I.R. period 5s fl. 0.5s, ec. 4.5s	39 12	5	White framework tower, red square daymark; 16.	
26018 K 3387	Kepulauan Kabu, Ifmoen.	1° 08.7' S 130° 34.3' E	Fl.W. period 7.5s	108 33	12	White beacon.	
26020 K 3362	Selat Sagewin, Pulau Batanta, S. side.	0° 55.0' S 130° 36.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	378 115	12	White metal framework tower; 33.	Visible 261°-077°.
26021 K 3362.5	Pulau Augusta.	0° 38.8' S 130° 34.8' E	Fl.W. period 5s	74 22	15	White concrete tower.	
26022 K 3363	Saonek Besar.	0° 28.2' S 130° 46.9' E	Fl.W. period 7.5s	203 62	15	White beacon.	
26024 K 3376	Mios Su (Amsterdam).	0° 20.5' S 132° 10.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	14	White metal skeleton structure;	Visible 089°-272°. 54.
26028 K 3376.5	Saoekorem.	0° 33.0' S 133° 09.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	105 32	14	White metal framework structure; 98.	
26032 K 3389	Tg. Memori.	0° 51.8' S 134° 08.1' E	Fl.(3)W. period 15s	52 16	12		Visible 132°-343°.
26036 K 3391	Butsiuri Reef, Menukwari Road.	0° 53.0' S 134° 05.0' E	F.I.R. period 5s	36 11	7	White metal beacon; 13.	
26040 K 3390	Manukwari Coal Depot Range, front.	0° 51.8' S 134° 04.8' E	F.G.	17 5	4	White triangular daymark, point up.	Occasional.
26044 K 3390.4	Manokwari, pier Range, front.	0° 51.8' S 134° 04.8' E	F.R.		10	Red metal mast.	Occasional.
26048 K 3390.1	-Rear, 85 meters 006°30' from front.	0° 51.9' S 134° 04.5' E	Iso.W. period 2s	30 9	14	White triangular daymark, point down.	Occasional.
26052 K 3392	Palau Numfoor.	0° 56.6' S 134° 49.5' E	Fl.W. period 3s	147 45	12	White metal framework tower;	Visible 060°-238°, partially obscured-255°. 53.
26053 K 3392.1	Pulau Bepondi.	0° 24.6' S 135° 15.8' E	Fl.W. period 5s	75 23	20		
26055	Teluk Wabudori.	0° 40.1' S 135° 36.4' E	Fl.W. period 6s	49 15	12		
26056 K 3392.7	Rani.	0° 58.5' S 135° 30.3' E	Fl.W. period 3s	56 17	12		
26058 K 3392.8	Pulau Miosmbi.	1° 04.6' S 136° 23.5' E	L.FI.W. period 8s fl. 2s, ec. 6s	52 16	18	White beacon.	
26060 K 3393	Sorido Outer Range , front.	1° 11.4' S 136° 05.7' E	Iso.W. period 2s	49 15	15	Framework tower, white triangular daymark, point up; 7.	Channel marked by Iso.G. 6s and Iso.R. 6s.
26064 K 3393.1	-Rear, about 260 meters 322° from front.	1° 11.3' S 136° 05.5' E	Iso.W. period 2s	66 20	15	White mast, white triangular daymark, point down; 26.	
26068 K 3393.3	-Inner Range, front.	1° 11.1' S 136° 04.5' E	Iso.W. period 8s	49 15	15	White mast, white triangular daymark, point up; 20.	
26072 K 3393.4	--Rear, 240 meters 295° from front.	1° 11.0' S 136° 04.2' E	Iso.W. period 8s	56 17	15	White mast, white triangular daymark, point down; 20.	
26076 K 3393.5	-Biak AVIATION LIGHT.	1° 11.6' S 136° 08.3' E	L.FI.W. period 5s fl. 2s, ec. 3s	331 101	12	White metal skeleton structure; 18.	Visible 268°-094° except where obscured by islands.
26080 K 3392.5	Tanjung Oransbari.	1° 20.7' S 134° 17.3' E	Oc.W. period 4s lt. 3s, ec. 1s	164 50	21	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
26081 K 3395.15	Tg. Yanimerai.	1° 44.2' S 134° 12.2' E	Fl.Y. period 4s	79 24	6	SPECIAL Y, beacon, topmark.	
26082 K 3395.2	Tg. Wandoowaar.	2° 00.5' S 134° 21.6' E	Fl.Y. period 4s	49 15	6	SPECIAL Y, beacon, topmark.	
26084	Serui, W. pier, inner head.	1° 53.0' S 136° 15.0' E	Q.R.	23 7	4	White pole mast, white triangular topmark point down, red lantern on white house; 16.	
26088 K 3393.6	Rasi Island, S. head.	1° 20.5' S 136° 37.5' E	Fl.(3)W. period 15s	39 12	12	White metal framework tower; 53.	Visible 226°-106°.
26092 K 3396.8	Pulau Kumamba Liki.	1° 35.0' S 138° 43.0' E	L.Fl.W. period 5s	144 44	18		
26096 K 3395	Tg. Woka, W. extremity of Jopen Island.	1° 36.0' S 135° 25.0' E	Fl.W. period 3s	131 40	12	White tower; 33.	
26100 K 3395.6	Nabire.	3° 06.3' S 135° 32.6' E	Fl.W. period 5s	66 20	12	White metal tower; 33.	
26101 K 3395.59	Pulau Notabari.	3° 06.1' S 135° 09.6' E	Fl.Y. period 4s	79 24	6	SPECIAL Y, beacon, topmark.	
26104 K 3395.8	Teluk Kimi.	3° 14.0' S 135° 35.0' E	Fl.(2)W. period 8s	75 23	12		
26104.5 K 3395.9	Tanjung Kamengsenu.	2° 41.8' S 136° 01.2' E	Fl.W. period 4s	174 53	18		
26105 K 3396	-Naufi.	2° 13.2' S 136° 15.5' E	L.Fl.W. period 10s	115 35	15	Beacon.	
26105.5 K 3396.2	Tanjung Worisanua.	2° 12.4' S 136° 25.3' E	Fl.W. period 6s fl. 1s, ec. 5s			White beacon.	
26106 K 3395.3	-Karang-Karang Tydeman.	2° 08.2' S 135° 18.6' E	Fl.W. period 6s	36 11	6	Beacon.	
26106.5 K 3395.35	Pulau Matas.	2° 12.5' S 134° 45.7' E	Fl.Y. period 4s	46 14	6	SPECIAL Y, beacon, topmark.	
26107 K 3395.4	-Pulau Kubuai.	2° 32.9' S 134° 53.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	15		
26107.5 K 3395.5	-Yop.	2° 32.0' S 134° 23.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	15		
26107.7 K 3395.55	-Teluk Wandamen, Mie.	2° 43.6' S 134° 30.2' E	L.Fl.W. period 10s fl. 2s, ec. 8s	42 13	12	Beacon.	
26108 K 3393.7	Tg. Rainbawa.	1° 47.0' S 136° 54.0' E	Fl.W. period 3s	85 26	12	White metal skeleton structure, white diamond topmark; 52.	Visible 167°-055°.
26112 K 3396.6	Mamberamo.	1° 27.7' S 137° 53.7' E	Fl.W. period 5s	102 31	12		
26115 K 3396.9	Pulau Armo.	1° 42.6' S 138° 48.0' E	Q.(6)+L.Fl.W. period 15s	52 16	18	S. CARDINAL YB, beacon, topmark.	
26116 K 3397	Sarmi.	1° 51.0' S 138° 45.0' E	Fl.W. period 5s	59 18	6	White metal framework tower; 20.	
26117 K 3397.5	Holmaffin.	1° 57.8' S 138° 52.7' E	Fl.W. period 5s	46 14	12		
26118	Jamna.	2° 00.5' S 139° 14.5' E	Fl.W. period 6s	75 23	18		
26119 K 3397.8	Tg. Kamdara.	2° 19.1' S 140° 06.8' E	Iso.W. period 10s	141 43	17		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
26119.5 <i>K 3397.95</i>	Tg. Kelapa.	2° 26.4' S 140° 36.7' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	39 12	14	White beacon.	
26120 <i>K 3398</i>	Soeadja Moko.	2° 31.9' S 140° 44.8' E	Fl.(3)W. period 24s	705 215	35		
	RACON		K(- • -)		10		
26122 <i>K 3398.5</i>	Nembawewe.	2° 33.4' S 140° 45.8' E	L.Fl.R. period 6s	52 16	18	PORT (A) R, beacon.	
26123 <i>K 3398.9</i>	Hollandia Baai, NW. of Entsjau.	2° 32.5' S 140° 43.2' E	Fl.R. period 4s	44 13	12		
26123.5 <i>K 3398.8</i>	-N. side of harbor.	2° 32.3' S 140° 42.8' E	Fl.G. period 5s	44 13	12		
26124 <i>K 3399</i>	-Noebae Han Range, front.	2° 32.0' S 140° 43.0' E	Q.W.	56 17	6	White wooden post, white triangular topmark, point up.	
26128 <i>K 3399.1</i>	--Rear, 151 meters 255° from front.	2° 32.5' S 140° 42.4' E	Oc.W. period 4s	72 22	6	White wooden post, white triangular topmark, point down.	
26129 <i>K 3399.8</i>	Oinake.	2° 36.8' S 141° 00.0' E	Fl.(2)W. period 12s	656 200	20	White structure.	
PAPUA NEW GUINEA							
26130 <i>K 3400</i>	Cape Concordia.	2° 40.7' S 141° 18.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	223 68	10	White framework tower; 30.	
26132 <i>K 3400.15</i>	Stein Reef.	3° 07.8' S 142° 21.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	9	White concrete column; 19.	
26134 <i>K 3400.18</i>	Walis Island.	3° 14.8' S 143° 18.1' E	Fl.(2)W. period 6s	20 6	9	White column.	
26136 <i>K 3400.2</i>	Unei Island.	3° 22.8' S 143° 24.5' E	Fl.(4)W. period 16s	20 6	9	White 3-pile structure.	
26140 <i>K 3400.4</i>	Cape Samein.	3° 26.1' S 143° 32.6' E	Fl.W. period 5s	20 6	9	White 3-pile structure.	
26142 <i>K 3400.6</i>	Wewak.	3° 33.8' S 143° 38.8' E	Fl.G. period 5s	26 8	5	STARBOARD (A) G, beacon, topmark.	
26142.1 <i>K 3400.7</i>	-W. side.	3° 33.4' S 143° 37.8' E	Fl.R. period 3s	16 5	5	PORT (A) R, beacon, topmark.	
26144 <i>K 3401</i>	Cape Moem.	3° 33.1' S 143° 42.1' E	Fl.(3)W. period 12s	52 16	10	White framework tower; 49.	
26152 <i>K 3401.4</i>	Condor Point.	4° 07.5' S 144° 51.8' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	50 15	10	White framework tower; 52.	
26156 <i>K 3401.6</i>	Cap Gourdon.	4° 23.0' S 145° 18.6' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	50 15	12	White framework tower; 62.	
26160 <i>K 3401.8</i>	Cape Croisilles.	4° 50.6' S 145° 48.4' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	55 17	12	White framework tower; 49.	Visible 135°-338°.
26164 <i>K 3403</i>	Madang Entrance Range, front , on Beliav Island.	5° 12.0' S 145° 49.0' E	Fl.W. period 1.3s fl. 0.3s, ec. 1s	24 7	7	White steel framework tower, white triangular daymark; 18.	Visible 195°-040°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26168 K 3403.1	-Rear, 87 meters 300° from front.	5° 12.2' S 145° 49.6' E	Oc.W. period 4s lt. 2s, ec. 1.5s	48 15	8	White steel framework tower, white triangular daymark; 34.	Visible 291°-309°, intensified 297°-303°.
26169 K 3403.4	Kranket Island Range, front.	5° 12.2' S 145° 50.2' E	Fl.W. period 2.5s	10 3	5	White pile.	
26169.5 K 3403.41	-Rear, 20 meters 073°30' from front.	5° 12.2' S 145° 50.2' E	Fl.W. period 2.5s	16 5	5	White pile.	
26170 K 3403.2	-Boyes Reef.	5° 12.4' S 145° 50.2' E	Fl.G. period 3s	18 5	4	STARBOARD (A) G, beacon, topmark.	
26172 K 3402	Coast Watchers.	5° 12.8' S 145° 50.2' E	Fl.W. period 15s fl. 0.2s, ec. 14.8s	92 28	32	White concrete tower; 90.	Tower floodlit for 30 minutes every 3 hours.
26176 K 3404	AVIATION LIGHT, 3.1 kilometers 276°30' from Kalibobo Point.	5° 13.0' S 145° 48.0' E	Fl.W. period 9.5s fl. 0.3s, ec. 9.2s	60 18	26		Occasional.
26184 K 3405.4	Kitumala Point.	6° 20.2' S 147° 48.8' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	85 26	10	White hut with lantern; 11.	Visible 140°-335°.
26188 K 3406	Nussing Island, Cape Cretin.	6° 39.6' S 147° 51.9' E	Fl.W. period 6s	70 21	10	Steel tower on concrete base; 65.	Visible 187°-060°, except where obscured by Tami Island.
26192 K 3408	Cape Gerhards.	6° 45.2' S 147° 33.4' E	Fl.(3)W. period 12s	71 22	10	Metal framework tower; 65.	
26200 K 3412	Lae, Mount Lunaman.	6° 43.7' S 147° 00.6' E	L.Fl.W. period 5s	327 100	11	White metal column, red top; 16.	Aero Radiobeacon 0.5 mile W.
26212 K 3415	Burnung Point.	7° 01.0' S 147° 04.0' E	Fl.(2)W. period 20s	151 46	15	White column; 13.	Visible 140°-300°.
26214 K 3422.5	Raymonde Shoal.	8° 13.0' S 148° 17.2' E	Fl.W. period 5s	52 16	10	Black tripod.	
26216 K 3423	Eve Shoal.	8° 31.0' S 148° 25.1' E	Fl.(2)W.R. period 8s	52 16	10	Black tripod; 30.	R. 125°-145°, W.-155°, R.-175°, W.-125°.
26220 K 3424	Oro Bay Range, front.	8° 54.0' S 148° 28.0' E	Dir.Fl.W.R.G. period 3s	331 101	18		G. 239°-240°, W.-243°, R.-244°.
26224 K 3424.1	-Rear, 244 meters 241°30' from front.	8° 54.0' S 148° 28.0' E	Fl.W. period 10s	436 133	18	Metal framework tower.	
26228 K 3426	Spear Island.	8° 59.6' S 149° 07.8' E	Fl.W. period 6s	63 19	10	White steel framework structure; 49.	
26232 K 3428	Hall Point.	9° 02.7' S 149° 18.3' E	Fl.(2)W. period 6s	17 5	9	White hut, lantern; 11.	Visible 150°-330°.
TUFI HARBOR:							
26236 K 3430	-Range, front.	9° 05.4' S 149° 18.7' E	Oc.W. period 3s	100 30	10	White square daymark, black stripe; 30.	Visible 260°-345°.
26240 K 3430.1	--Rear, 1.65 miles 308°30' from front.	9° 04.3' S 149° 17.3' E	Fl.W. period 5s	400 122	10	White square daymark, black stripe; 21.	Visible 280°-330°, partially obscured 175°-280°.
26244 K 3429	Veale Reef.	9° 12.0' S 149° 28.0' E	Fl.W. period 2.5s	30 9	11	White 3-pile structure.	
26248 K 3429.6	Ham Reef.	9° 12.1' S 149° 26.2' E	Fl.W. period 10s	52 16	10	Black tripod tower; 30.	
26252 K 3429.4	Greaves Reef.	9° 10.9' S 149° 26.5' E	Fl.(3)W. period 12s	36 11	10	White tripod.	
26256 K 3429.8	Stewart Reef.	9° 07.9' S 149° 23.0' E	Fl.R. period 1.5s	23 7	4	White pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26260 K 3432	Ipoteto Island.	9° 37.9' S 150° 01.3' E	Fl.(2)W. period 8s	85 26	10	White framework tower; 82.	
26264 K 3438	Kegawam Island.	10° 21.3' S 151° 23.0' E	Fl.W. period 6s	50 15	10	White lattice tower; 50.	Obscured by trees in certain areas.
26268 K 3446	Hastings Island.	10° 20.5' S 151° 52.2' E	Fl.(2)W. period 6s	28 9	10	White hut with red lantern; 12.	Visible 317°-178°.
26272 K 3449	Lunn Island.	10° 47.3' S 152° 00.4' E	Fl.W. period 4s	48 15	10	White steel lattice tower; 48.	Visible 159°30'-032°.
26276 K 3450	Pana Waipona Island.	11° 15.2' S 152° 08.1' E	Fl.W. period 10s	79 24	10	Steel framework tower, white lantern; 70.	
26280 K 3450.3	Misima Island, Bwagaoia Harbor.	10° 41.5' S 152° 50.9' E	Fl.W. period 5s	13 4	9	Beacon.	
26281 K 3450.4	-Maika Harbor Range, front.	10° 41.6' S 152° 47.5' E	F.Bu.	131 40	3		
26281.5 K 3450.41	--Rear, 100 meters 335°55' from front.	10° 41.6' S 152° 47.5' E	F.Bu.	164 50	3		
26282 K 3450.44	--E. side.	10° 41.7' S 152° 47.6' E	Fl.(3)W. period 9s	36 11	2		
26283 K 3450.46	--W. side.	10° 41.7' S 152° 47.5' E	Q.R.	33 10	2		
26284 K 3450.5	Adele Island.	11° 26.8' S 154° 24.1' E	Fl.W. period 10s	141 43	16	White tower; 102.	
26288 K 3440	Shortland Reef.	10° 30.5' S 151° 07.9' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	10	White pile structure; 37.	
26292 K 3444	Bright Island, N. head.	10° 32.0' S 151° 12.7' E	Fl.W. period 2.5s	46 14	10	White tower; 46.	Visible 091°-266°.
26296 K 3448	Strathord Islands, N. islet.	10° 13.3' S 151° 52.2' E	Fl.(3)W. period 12s	55 17	13	White framework tower; 50.	Visible 037°-303°.
26300 K 3451.2	Raven Channel, Hibwa Island.	10° 14.5' S 150° 59.4' E	Fl.(2)W. period 10s	26 8	10	White framework tower.	Radar reflector.
26304 K 3451.24	-S. side.	10° 15.1' S 150° 56.8' E	F.I.R. period 2s	13 4	4	PORT (A) R, topmark.	Radar reflector.
26308 K 3451.23	-N. side.	10° 14.9' S 150° 56.8' E	Fl.G. period 2s	13 4	4	STARBOARD (A) G, topmark.	Radar reflector.
26312 K 3451	Meimeira Island.	10° 13.5' S 150° 52.9' E	Fl.W. period 2.5s	114 35	15	White hut; 12.	Visible 238°-232°.
26316 K 3456	Brumer Island.	10° 45.4' S 150° 22.8' E	Fl.(3)W. period 15s	686 209	10	White square concrete tower; 22.	Partly obscured 283°-293°.
26320 K 3456.5	Ava Point.	10° 34.3' S 149° 52.7' E	Fl.W. period 12s	616 188	10	White square concrete tower; 21.	
26324 K 3455	Weka Una Rock.	10° 36.2' S 150° 36.4' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	10	White column on concrete base; 20.	
26328 K 3453	Sariba Island, N. extremity, 2.9 kilometers 018° from Mount Bilo Bilo summit.	10° 34.0' S 150° 42.0' E	Fl.W. period 5s	40 12	10	White round pillar.	Visible 047°-221°.
26332 K 3452	Isulailai Point.	10° 33.5' S 150° 41.6' E	Fl.(2)W. period 6s	55 17	9	White framework tower; 13.	Visible 167°-031°.
26336 K 3451.4	Sanderson Bay.	10° 18.5' S 150° 26.9' E	Q.R.	31 9	3	White steel lattice tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26340 K 3454	Samarai Island, off N. head.	10° 36.4' S 150° 39.7' E	Fl.W. period 3s	20 6	8	White pile structure; 20.	
26344 K 3456.7	Rothery Passage, W. Reef, E. head.	10° 21.3' S 148° 41.2' E	Fl.(3)W. period 15s	72 22	14	White framework tower; 72.	
26348 K 3457	Hood Point.	10° 06.3' S 147° 43.5' E	Q.(2)W. period 8s	72 22	10	White steel framework tower; 65. Visible 283°-158°.	
PORT MORESBY:							
26352 K 3458	-Basilisk Passage, Nateara Reef.	9° 32.5' S 147° 08.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	10	Pile structure, white hut; 31.	Radar reflector.
	-RACON		B(-••) period 128s		10		
26356 K 3458.4	-Lark patch.	9° 31.5' S 147° 08.5' E	Fl.R. period 3s	16 5	3	White pile, red bands; 10.	
26360 K 3459	-Basilisk Passage Range, front.	9° 29.9' S 147° 11.1' E	Oc.W. period 4s	125 38	18	Beacon, white square daymark, black stripe.	Visible 356°-108°, intensified 029°-089°. F.R. on mast 2.7 miles NNW.
26364 K 3459.1	--Rear, 445 meters 054° from front.	9° 29.8' S 147° 11.3' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	294 90	10	White square concrete tower, white square daymark, black stripe; 22.	Visible 309°-116°, intensified 309°-101°.
26368 K 3461	-Logolu Motu Motu Reef, S. head.	9° 28.6' S 147° 08.1' E	Fl.G. period 2.5s	15 5	6	White column.	
26372 K 3461.2	--N. head.	9° 28.7' S 147° 08.1' E	Fl.(2)G. period 8s	15 5	6	White column.	
26376 K 3460	-Harbor Range, front.	9° 26.0' S 147° 08.0' E	Q.W.	39 12	12	Beacon, white rectangular daymark, black stripe.	
26380 K 3460.1	--Rear, 290 meters 354° from front.	9° 26.3' S 147° 07.7' E	Iso.W. period 4s	85 26	15	Beacon, white rectangular daymark, black stripe.	
26382 K 3460.3	-Vahunabada Reef.	9° 27.8' S 147° 08.4' E	Q.G.		3	White pile, black bands.	
26384 K 3464	Idhi Island.	9° 25.7' S 146° 52.9' E	Fl.(2)W. period 5s	75 23	10	Metal framework tower, white square daymark, red bands.	
26388 K 3463.4	Haidana Island, reef off W. side.	9° 27.6' S 147° 01.4' E	Fl.R. period 5s	20 6	4	White pile.	
26392 K 3463.8	Boera Head.	9° 23.3' S 147° 00.8' E	Fl.W. period 2.5s	108 33	14	White hut; 7.	
26396 K 3464.4	Redscar Head.	9° 16.1' S 146° 54.1' E	Fl.W. period 10s	254 77	10	White hut; 10.	
26400 K 3465	Yule Island.	8° 50.0' S 146° 32.1' E	Fl.(3)W. period 15s	178 54	10	Square concrete tower; 22.	
26404 K 3469.7	Kumul.	8° 04.0' S 144° 33.6' E	Mo.(U)W. period 15s	62 19	15	Platform.	Shown from each corner. Horn: Mo.(U) 30s.
Q.R.							
	RACON		Q(--•--)				
26408 K 3469	Bristow Island.	9° 06.0' S 143° 17.0' E	Fl.(2)W. period 8s	20 6	10	White tower; 23.	
26416 K 3436	Bomatu Point.	8° 23.8' S 151° 07.2' E	Fl.(3)W. period 15s	102 31	10	White framework tower; 62.	Visible 097°-290°.
26420 K 3437	Kitava Island.	8° 38.6' S 151° 20.3' E	Fl.W. period 7.5s	350 107	10	White framework tower; 50.	Visible 230°-080°, partially obscured 080°-155°.

Section 17

Burma, Bangladesh, India, Sri Lanka and Andaman Sea Including Andaman Islands, Nicobar Islands and Maldive Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
NICOBAR ISLANDS:							
-Great Nicobar:							
26424 F 1224	--Indira Point.	6° 45.3' N 93° 50.4' E	Fl.(2)W. period 20s	115 35	10	Round metal white tower, red bands; 114.	
	--RACON		G(--•) period 95s		10		
26428 F 1225	--Chisen.	6° 59.0' N 93° 55.0' E	Fl.(2)W. period 10s	138 42	5	White square masonry tower.	
26432 F 1226	--Campbell Bay Range, front.	7° 00.0' N 93° 55.0' E	Q.W.	36 11	5	Rectangular tower; 26.	
26436 F 1226.1	--Rear, 200 meters 323°42' from front.	7° 00.7' N 93° 54.7' E	Fl.W. period 5s	75 23	5	Square tower, white and bands, white triangular daymark; 62.	
26437 F 1224.1	--Kabra Island.	7° 17.5' N 93° 50.2' E	Fl.(3)W. period 20s	39 12	20	White framework tower, black bands.	
-Little Nicobar:							
26440 F 1223.6	--Pulo Milo.	7° 24.4' N 93° 40.9' E	Fl.W. period 15s	174 53	8	White metal framework tower; 46.	
26446 F 1223	-Katchall Island, E. Bay.	8° 00.4' N 93° 24.2' E	Fl.W. period 5s	141 43	10	White square concrete tower, red bands.	
26448 F 1223.4	--W. Bay.	7° 55.6' N 93° 19.5' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	56 17	10	Concrete tower, black and white checkers; 36.	
26450 F 1222.65	Cape Connaught.	7° 55.8' N 93° 34.2' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 13s	39 12	10	Square masonry tower, black bands; 39.	
26451 F 1222.6	-Nancowry Harbor, Naval Point Reef.	8° 02.0' N 93° 32.6' E	Fl.W. period 5s		1	Beacon.	
26451.1 F 1222.58	-Trinkat Island.	8° 02.3' N 93° 35.3' E	Fl.(4)W. period 20s	36 11		White round masonry tower.	
26451.2 F 1222.8	-Tillanchang Island.	8° 28.4' N 93° 37.0' E	Fl.W. period 10s	79 24	25	White framework tower, black bands.	
26451.3 F 1222.55	-Bompoka Island.	8° 13.6' N 93° 14.3' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	39 12	16	Red metal framework tower, white bands; 39.	
26451.4 F 1222.5	-Chowra Island.	8° 27.4' N 93° 02.9' E	Fl.W. period 15s	52 16	9	White metal framework tower.	
26452 F 1222.4	-Batti Malv.	8° 50.4' N 92° 51.5' E	Fl.(4)W. period 20s	69 21	8	White metal framework tower; 39.	
-Car Nicobar:							
26456 F 1222	--Malacca.	9° 09.8' N 92° 49.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s	39 12	8	Tapered round tower.	
26459 F 1221.5	--N.	9° 10.3' N 92° 49.7' E	F.W.		13		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26460 <i>F 1221</i>	--Perka.	9° 11.1' N 92° 49.5' E	Fl.W. period 20s	39 12	8	Round tower.	
26464 <i>F 1220</i>	--Keating Point.	9° 15.3' N 92° 46.6' E	Fl.W. period 10s	115 35	26	White round metal tower, red bands; 123.	Radiobeacon.
	--RACON		O(---) period 95s		20		
26468 <i>F 1220.2</i>	--Sawai Bay.	9° 13.4' N 92° 45.9' E	Fl.W. period 5s	46 14	6	White triangular concrete tower; 30.	<i>Temporarily extinguished (1988).</i>
26472 <i>F 1220.4</i>	--New Hog Point.	9° 13.0' N 92° 43.5' E	Fl.(2)W. period 10s	46 14	6	White concrete tower, black bands.	
26476 <i>F 1211</i>	Rutland Island.	11° 20.6' N 92° 37.2' E	Fl.(3)W. period 15s	34 10	10	Square concrete tower; 10.	
26480 <i>F 1212</i>	-North Cinque Island.	11° 19.6' N 92° 43.8' E	Fl.W. period 10s	501 153	20	Masonry tower, red and white checkers.	
26481 <i>F 1212.5</i>	North Brother Island.	10° 59.2' N 92° 40.0' E	Fl.(2)W. period 20s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 14.5s	36 11	10	White metal framework tower, black bands; 12.	
26482 <i>F 1212.8</i>	South Sentinel Island.	10° 58.9' N 92° 13.6' E	Fl.W. period 15s	121 37	10	White metal framework tower, red bands; 118.	
26484 <i>F 1214</i>	Little Andaman.	10° 30.7' N 92° 29.5' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	167 51	20	White round concrete tower, black bands; 151.	
26488 <i>F 1213</i>	Hut Bay, breakwater.	10° 34.8' N 92° 34.1' E	Fl.R. period 3s		5		
ANDAMAN ISLANDS:							
26492 <i>F 1205</i>	-North Point.	11° 42.2' N 92° 45.9' E	Fl.(2)W. period 12s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	235 72	20	White round metal tower, red diagonal stripes; 114.	
	-RACON		K(---)				
26496 <i>F 1207</i>	-Perseverance Point.	11° 41.0' N 92° 45.0' E	Fl.W. period 10s		8	Beacon, orange and white bands.	
26500 <i>F 1208</i>	Command Point.	11° 41.8' N 92° 43.8' E	Fl.W. period 10s	36 11	5	White concrete tower; 20.	
26501 <i>F 1208.5</i>	Blair Reef, E.	11° 40.9' N 92° 44.9' E	Fl.R. period 6s	10 3	6	Beacon.	
26502 <i>F 1209.5</i>	-Atlanta Point.	11° 40.5' N 92° 45.4' E	Fl.W. period 5s	108 33	6	White square masonry tower, red band; 33.	
26504 <i>F 1210</i>	-Mount Haughton.	11° 38.9' N 92° 44.9' E	Aero.F.R.	528 161	3	Gray round tower on top of round conspicuous building; 18.	
26508 <i>F 1204</i>	-Ross Island.	11° 40.3' N 92° 46.1' E	Fl.W. period 15s	39 12	8	Beacon.	
26512 <i>F 1203</i>	-Sir Hugh Rose Island.	11° 47.0' N 93° 06.0' E	Fl.W. period 7s fl. 0.4s, ec. 6.6s	187 57	20	Red and white round metal tower; 74.	
26514 <i>F 1202.9</i>	-Havelock Island, Stowe Point.	12° 02.7' N 92° 58.2' E	Fl.W. period 10s	13 4	7	White concrete tower.	
26516 <i>F 1202.8</i>	-Baratang Island, S. head.	12° 04.9' N 92° 47.9' E	Fl.W. period 5s	177 54	8	White metal framework tower, black bands; 39.	Visible 216°-006°.
26518 <i>F 1202.68</i>	Wilson Island.	12° 08.7' N 92° 58.0' E	Fl.(2)W. period 20s	39 12	10	White framework tower, red bands; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26520 <i>F 1202.66</i>	Strait Island.	12° 12.0' N 92° 56.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 16.5s	92 28	8	White metal framework tower; 39.	
26524 <i>F 1202.64</i>	South Button Island.	12° 13.3' N 93° 01.3' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	85 26	8	Red metal framework tower, white bands; 39.	<i>Temporarily extinguished (1988).</i>
26528 <i>F 1202.62</i>	Middle Button Island.	12° 16.6' N 93° 01.8' E	Fl.(2)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 18s	125 38	8	White metal framework tower, black bands; 39.	
26532 <i>F 1202.6</i>	North Button Island.	12° 19.0' N 93° 04.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	190 58	8	White metal framework tower, black bands; 39.	
26536 <i>F 1202.7</i>	Barren Island.	12° 15.9' N 93° 50.7' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	73 22	8	White metal tower; 46.	
26538 <i>F 1202.57</i>	Kalapahar.	12° 19.2' N 92° 54.3' E	Fl.(2)W. period 10s	49 15	6	White framework tower; 39.	
26539 <i>F 1202.58</i>	North Passage Island, Cape Portman.	12° 18.4' N 92° 56.7' E	Fl.W. period 5s	95 29	13		
26539.4 <i>F 1202.59</i>	-NW. side.	12° 17.2' N 92° 54.8' E	Fl.(3)W. period 10s	39 12	12	Red and white metal framework tower; 39.	
26542 <i>F 1216</i>	Interview Island.	12° 53.3' N 92° 40.7' E	Fl.(2)W. period 20s		10	White square tower, black bands; 39.	
26548 <i>F 1202.4</i>	Square Rock.	12° 55.6' N 92° 58.8' E	Fl.W. period 15s	42 13	10	Beacon.	
26552 <i>F 1201</i>	East Island.	13° 37.7' N 93° 03.5' E	Fl.W. period 15s	292 89	24	White round metal tower, red bands; 121.	Radiobeacon.
RACON		D(- • •)					
BURMA-ANDAMAN SEA							
26556 <i>F 1202</i>	Port Cornwallis, Ross Island, Bo pung.	13° 18.0' N 93° 05.0' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	134 41	10	Square masonry tower; 23.	
26557 <i>F 1202.2</i>	-Brush Islet.	13° 17.6' N 93° 03.1' E	Fl.W. period 5s	42 13	5		
26560 <i>F 1201.1</i>	Narcondam Island.	13° 27.0' N 94° 17.5' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 16.5s	200 61	8	White metal framework tower; 46.	Visible 058°-179°.
26564 <i>F 1200</i>	Table Island.	14° 11.0' N 93° 22.0' E	Fl.(4)W. period 25s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 12s	195 59	20	White round tower, red bands; 91.	Obscured 348°-013° and 031°-039°.
26570 <i>F 1158</i>	Pulau Palin.	9° 58.3' N 98° 30.0' E	Fl.W. period 5s			Square framework tower; 53.	
MERGUI HARBOR:							
26572 <i>F 1138</i>	-Kalwin Point.	12° 29.0' N 98° 35.0' E	Fl.W. period 3s	41 12	8	Metal framework tower, red and yellow bands, on concrete piles; 19.	Old structure exists close by.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BURMA-ANDAMAN SEA							
26576 <i>F 1144</i>	-Seikkantha.	12° 26.6' N 98° 35.9' E	Q.W.	48 15	6	White square wooden structure surmounted by steel trestle, ball topmark; 61.	
26580 <i>F 1136</i>	Cornwall Point.	13° 05.0' N 98° 20.0' E	Fl.W. period 10s	40 12	10	Black and white checkered framework structure; 14.	
26584 <i>F 1132</i>	Mibya Kyun (Reef Island), W. side of entrance to Tavoy River.	13° 36.0' N 98° 13.0' E	Fl.W. period 5s	309 94	10	White square masonry tower, round lantern; 31.	Visible 164°-007°.
26588 <i>F 1131</i>	Kyaukpyn Kyun.	13° 46.0' N 97° 55.0' E	Fl.W. period 7s fl. 0.7s, ec. 6.3s	175 53	12	Black and white checkered structure; 14.	Visible 188°-139°.
26592 <i>F 1128</i>	Double Island, center.	15° 52.0' N 97° 35.0' E	Fl.W. period 15s	140 43	14	White masonry tower; 66.	Visible 353°-173°.
26596 <i>F 1126</i>	Green Island.	16° 04.0' N 97° 33.0' E	Fl.(2)W. period 10s	135 41	19	White masonry tower, red bands; 65.	
26600 <i>F 1124</i>	<i>Than Lwin Light Float.</i>	16° 06.1' N 97° 30.9' E	Fl.W. period 7.5s fl. 0.7s, ec. 6.8s	10 3	3	Red hull.	
RANGOON:							
26604 <i>F 1080</i>	-Lanthaya Light Float.	16° 12.1' N 96° 16.8' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	16 5	9	Red float.	Riding light Fl.W. 1.5s. Bell. Radar reflector.
26612 <i>F 1085</i>	-Upper Light Float.	16° 22.0' N 96° 20.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	16 5	9	Red hull, framework tower.	
26620 <i>F 1088</i>	Eastern Grove Flats.	16° 30.0' N 96° 23.0' E	Oc.W. period 6s lt. 4s, ec. 2s	93 28	15	Red pile structure, black and white lantern; 105.	Visible 329°-037°. A faint light also visible 307°-329°.
26624 <i>F 1093</i>	-Pilakat Chaung (Deserters Creek) Lower Range, front.	16° 30.0' N 96° 17.0' E	Q.W.	30 9	5	White metal tower.	
26628 <i>F 1093.1</i>	--Lower Range, rear 274 meters 298°30' from front.	16° 29.8' N 96° 16.7' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	60 18	5	White metal tower; 52.	
26632 <i>F 1094</i>	--Upper Range, front.	16° 29.0' N 96° 18.0' E	Q.W.	30 9	5		
26636 <i>F 1094.1</i>	--Upper Range, rear, 366 meters 154°30' from front.	16° 29.0' N 96° 17.4' E	Fl.W. period 4s	60 18	5		
26640 <i>F 1100.9</i>	-Thilawa Range, front.	16° 39.0' N 96° 16.0' E	Q.W.	27 8	5	White metal column; 15.	
26644 <i>F 1101</i>	--Common Rear Range, 256 meters 013°45' from Thilawa front.	16° 39.2' N 96° 15.8' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	67 20	5	White framework tower; 53.	
26648 <i>F 1101.2</i>	-Front about 210 meters from common rear, in line 110°.	16° 39.2' N 96° 15.7' E	Q.W.	26 8	5	White metal column; 25.	
26652 <i>F 1103</i>	-Falan Range, front.	16° 39.0' N 96° 16.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	25 8	5	White framework tower, square daymark; 25.	
26656 <i>F 1103.1</i>	--Rear, 395 meters 136°30' from front.	16° 38.6' N 96° 15.7' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	53 16	5	White framework tower, square daymark; 53.	
26660 <i>F 1106</i>	-Thetkaikwin (D'Silva) Range, front.	16° 40.0' N 96° 14.0' E	Q.W.	30 9	5	White metal framework tower, square daymark; 28.	
26664 <i>F 1106.1</i>	--Rear, 306 meters 177° from front.	16° 39.7' N 96° 13.4' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	50 15	5	White metal framework tower, square daymark; 47.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BURMA-ANDAMAN SEA							
26680	SANDA LIGHTSHIP. <i>F 1057</i>	15° 32.0' N 95° 38.0' E	Fl.W. period 6s	40 12	11	Red hull, "Sanda" on sides, length 70 feet.	Q.W. riding light. Reported to lie 7 miles NE (1978). Reported missing (1979). Radar reflector.
26684	THURIYA LIGHTFLOAT. <i>F 1072</i>	15° 20.3' N 95° 10.6' E	Fl.W. period 7s	30 9	8	Black hull.	Riding light F.W. Radar reflector.
26688	Alguda Reef. <i>F 1068</i>	15° 42.2' N 94° 12.0' E	Fl.W. period 10s	144 44	18	Granite tower, black and white bands; 160.	Obscured 175°-260°.
26692	Thamihla Kyun (Diamond Island) Bassein River entrance.	15° 52.0' N 94° 16.8' E	Fl.W. period 4s	80 24	12	Framework tower, red and white bands; 40.	Visible 135°-027°.
26704	Gorangyi Kyun. <i>F 1067</i>	16° 32.0' N 94° 15.0' E	Fl.W. period 15s	217 66	12	Black wooden framework structure, white bands.	Visible 010°-180°. Radar reflector.
BURMA-BAY OF BENGAL							
26708	Lontha (Andrew Bay). <i>F 1065</i>	18° 22.0' N 94° 20.0' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	136 41	12	Black and white checkered structure; 36.	Visible 016°-113°, and 144°- 160°.
26712	Nantha Kyun (Foul Island), W. side. <i>F 1066</i>	18° 04.0' N 94° 05.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	561 171	12	Black and white checkered structure; 10.	
26716	Obntapin Kyun (Unguan Island), S. summit of island. <i>F 1064.5</i>	18° 26.0' N 93° 55.0' E	Fl.W. period 12s fl. 1s, ec. 11s	145 44	14	Black and white checkered structure; 16.	
26720	Ohnchaung. <i>F 1064.3</i>	18° 51.0' N 93° 45.0' E	Fl.W. period 5s	24 7	8	Gray four legged metal framework tower; 24.	
26724	Mun Aug (Beacon Island), E. summit. <i>F 1064</i>	18° 56.0' N 93° 27.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	122 37	14	Red tower, white top; 119.	Visible 334°-273°.
26728	Thanta (North Terrible Rock). <i>F 1063</i>	19° 26.0' N 93° 18.0' E	Fl.W. period 8s fl. 0.8s, ec. 7.2s	54 16	13	4-legged metal framework tower, black and white bands; 45.	
26732	Paungnetkyi (Laws Island), W. side. <i>F 1062</i>	19° 26.0' N 93° 36.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	109 33	12	Red trestle, white top; 40.	Visible 084°-110°.
26736	Wetkyun (James I). <i>F 1060.5</i>	19° 32.0' N 93° 32.0' E	Fl.W. period 5s	24 7	8	4-legged metal gray framework tower; 24.	
SITTE (AKYAB) HARBOR:							
26744	-Sittwe. <i>F 1059</i>	20° 06.8' N 92° 53.8' E	Fl.W. period 10s fl. 1s, ec. 9s	90 27	15	White square framework structure; 88.	Visible 293°-096°.
26748	Oyster Island. <i>F 1058</i>	20° 11.8' N 92° 32.2' E	Oc.W.R. period 15s lt. 10s, ec. 5s	130 40	17	Metal tower, black and white bands; 141.	R. 310°-325°, W.-310°.
BANGLADESH							
26752	St. Martins Island. <i>F 1057</i>	20° 38.0' N 92° 19.0' E	Fl.(2)W. period 30s	128 39	20	Framework tower, red and white rectangular daymark.	Racon.
26756	Cox's Bazar. <i>F 1056.4</i>	21° 26.0' N 91° 58.4' E	Fl.W. period 15s fl. 0.7s, ec. 14.3s	177 54	24	Orange dome on lantern; 23.	Radio beacon.
RACON				C(-•-•)			
(3 & 10cm)							

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BANGLADESH							
26760 <i>F 1054</i>	Kutubdia Island.	21° 51.9' N 91° 50.5' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 6.6s	128 39	20	Framework tower, red and white rectangular daymark.	Radiobeacon.
	RACON		K(-•-)		18		(3 & 10cm)
CHITTAGONG, KARNAPHULI RIVER:							
26764 <i>F 1048</i>	-Normans Point.	22° 10.7' N 91° 49.4' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	39 12	17	Red and white framework tower.	Visible 019°-130°. Storm signals.
	-RACON		T(-)				
26772 <i>F 1050</i>	-AVIATION LIGHT.	22° 15.0' N 91° 50.0' E	Al.Fl.W.G. period 10s W. fl. 1s, ec. 4s G. fl. 1s, ec. 4s			Control tower.	Shown sunset 2200.
26776 <i>F 1050.4</i>	--Outer Bar Range, front.	22° 14.0' N 91° 49.0' E	F.G.	46 14		White circle.	
26780 <i>F 1050.41</i>	--Rear, 352 meters 037°04' from front.	22° 14.0' N 91° 48.4' E	Oc.G. period 7s lt. 5s, ec. 2s	66 20		White diamond.	
26784 <i>F 1051</i>	-Inner Bar Range, front.	22° 15.0' N 91° 50.0' E	F.R.	62 19		Pole.	
26788 <i>F 1051.1</i>	--Rear, 390 meters 054°10' from front.	22° 14.9' N 91° 50.3' E	Oc.R. period 3s	118 36		Column.	
26792 <i>F 1049</i>	-Patenga.	22° 13.6' N 91° 48.0' E	Fl.R. period 10s	66 20	13	White metal framework tower, black bands; 79.	
26804 <i>F 1052</i>	-Gupta Crossing Range, front.	22° 16.0' N 91° 51.0' E	Q.W.	30 9		Cross and circle.	
26808 <i>F 1052.1</i>	--Rear, 150 meters 024°43' from front.	22° 15.9' N 91° 50.4' E	Fl.W. period 3s	59 18		White cone, point up.	
26812 <i>F 1053</i>	-Active Spit Range, front.	22° 15.0' N 91° 51.0' E	Fl.G. period 3s	36 11		Pole.	
26816 <i>F 1053.1</i>	--Rear, 140 meters 155°45' from front.	22° 15.4' N 91° 50.3' E	Fl.G. period 3s	59 18		Pole.	
26820 <i>F 1053.4</i>	-Gupta Crossing Range, front.	22° 15.7' N 91° 50.6' E	Fl.W. period 3s	33 10		Mast.	
26824 <i>F 1053.41</i>	--Rear, 190 meters 114°20' from front.	22° 15.7' N 91° 50.5' E	Fl.R. period 3s	66 20		Mast.	
26826 <i>F 1053.8</i>	-Custom mark, front.	22° 19.4' N 91° 49.8' E	F.R.	69 21			
26826.1 <i>F 1053.81</i>	--Rear, 750 meters 051°42' from front.	22° 19.6' N 91° 49.8' E	F.R.	92 28		Dome.	
PURSUR RIVER:							
26828	-Mongla Fairway Buoy.	21° 26.9' N 89° 34.4' E	L.Fl.W. period 10s			SAFE WATER RW, buoy, topmark.	Radar reflector.
	-RACON		M(- -)				
26836 <i>F 1045</i>	-Jefford Point.	21° 44.0' N 89° 33.0' E	Fl.W. period 15s	115 35	16	Gray metal framework tower, triangular daymark.	
26838	-Buoy "B 18".	21° 46.6' N 89° 30.0' E	Fl.R. period 10s			PORT (A) R, can, topmark.	
	-RACON		T(-)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BANGLADESH							
26840 F 1045.5	-Hiran Point.	21° 48.0' N 89° 28.0' E	Fl.(2)W. period 20s	115 35	16	Gray metal framework tower.	Experimental.
INDIA-BAY OF BENGAL							
HUGLI RIVER:							
26846 F 1022	-INTERMEDIATE LIGHTSHIP.	21° 10.7' N 88° 12.7' E	Fl.(2)W. period 20s				Radar reflector.
26847 F 1024	-TALENT LIGHTSHIP.	21° 17.5' N 88° 11.2' E	Fl.(2)W. period 10s				
26852 F 1024	-LOWER GASPER LIGHTSHIP.	21° 22.1' N 88° 10.0' E	Fl.W. period 8s			Red hull.	Riding light Q.W.
26860 F 1028	-Sagar Island.	21° 39.4' N 88° 02.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	84 26	17	Round tower, red and white bands; 80.	Visible 315°-180°.
26861 F 1029	-Dariapur.	21° 47.4' N 87° 51.9' E	Fl.(2)W. period 20s fl. 1.4s, ec. 1.9s fl. 1.4s, ec. 15.3s	98 30	19	White round concrete tower, black bands; 85.	
-RACON							
26862 F 1031.45	-Sandia Column.	21° 58.8' N 88° 02.0' E	Fl.W. period 10s	56 17	6	Round masonry tower.	
26863 F 1031.46	-Inner Column.	21° 58.3' N 88° 01.4' E	Fl.W. period 1.5s	59 18	6	Round masonry tower.	
26865 F 1032.7	-Haldia channel, south.	22° 00.0' N 88° 02.8' E	Fl.W. period 10s			Framework tower.	
26868 F 1034	-Nayachara, outer column.	22° 01.3' N 88° 08.4' E	Fl.W. period 10s	45 14			
26869 F 1034.5	--Inner column.	22° 01.1' N 88° 08.0' E	Fl.W. period 1.5s	60 18			
26892 F 1040	-Diamond Harbor, near customhouse.	22° 11.0' N 88° 11.0' E	Fl.W.R. period 2s				W. shore-115°, R.-shore.
26900 F 1006	False Point.	20° 20.0' N 86° 44.0' E	Fl.(2)W. period 20s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	125 38	27	White round tower, red bands; 125.	Visible 205°-045°.
26902 F 1005.98	Mahanadi River, entrance, S.	20° 17.4' N 86° 43.1' E	Fl.R.	33 10		Beacon.	
PARADIP:							
26908 F 1005.2	-S. breakwater, head.	20° 15.5' N 86° 40.8' E	Fl.(2)R. period 3s	26 8	4		F.R. lights on building and tower 2.5 miles NE.
26912 F 1005.4	-N. breakwater, head.	20° 15.8' N 86° 40.8' E	Fl.(2)G. period 3s	26 8	7	Metal column; 26.	
26916 F 1005.6	-Entrance Range, front.	20° 15.9' N 86° 40.3' E	Q.W.	39 12	9		Channel limits marked by lights in line, Fl.G. 5s and F.G. on NE. side, Fl.R. 5s and F.R. on SW. side.
26920 F 1005.61	--Rear, 560 meters 300°05' from front.	20° 16.1' N 86° 40.0' E	Fl.W. period 6s	62 19	11		
26924 F 1005.8	-Inner harbor, turning circle Range, front.	20° 16.6' N 86° 40.1' E	Q.W.	92 28	8		Channel limits marked by lights in line, 2 F.G. on NE. side, Fl.R. 3s and F.R. on SW. side.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26928 <i>F 1005.81</i>	--Rear, 300 meters 332° from front.	20° 16.8' N 86° 40.0' E	Fl.W. period 4s	108 33	8		
26932 <i>F 1005.9</i>	-W. side of turning circle.	20° 16.2' N 86° 40.1' E	F.R.	39 12	6		
26936 <i>F 1005.92</i>	-W. side of turning circle, inner light.	20° 16.2' N 86° 40.0' E	F.R.	46 14	6		
26937 <i>F 1004.4</i>	Paradip.	20° 15.3' N 86° 39.4' E	Fl.(3)W. period 30s	131 40	28	Round concrete tower.	Radiobeacon.
RACON							
		K(-•-)					
26940 <i>F 1003</i>	Chandrabhaga.	19° 52.0' N 86° 07.0' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	122 37	26	White round masonry tower, red bands; 98.	
26944 <i>F 1002</i>	Puri.	19° 47.4' N 85° 48.5' E	Fl.(3)W. period 20s	95 29		Black tower, white bands; 82.	
26948 <i>F 0988</i>	Gopalpur.	19° 15.3' N 84° 55.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	148 45	26	White round masonry tower, red bands; 105.	Radiobeacon.
26952 <i>F 0986</i>	Baruva, on port flagstaff.	18° 53.0' N 84° 36.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	35 11	5	White beacon, triangular topmark.	
26956 <i>F 0982</i>	Kalingapatnam.	18° 20.3' N 84° 07.4' E	Fl.(3)W. period 15s	115 35	25	Hexagonal masonry tower; 98.	
26960 <i>F 0980</i>	Santapilli.	18° 03.9' N 83° 38.4' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	140 43	23	White round masonry tower, black bands; 72.	
26964 <i>F 0978</i>	Bhimunipatnam, near port office.	17° 53.7' N 83° 27.1' E	Fl.W. period 9s	35 11	8	White round masonry tower; 36. Storm signals.	
VISHAKHAPATNAM:							
26972 <i>F 0970</i>	Dolphins Nose.	17° 40.5' N 83° 17.7' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	567 173	32	White square masonry tower, black bands; 48.	2 F.R. on radio masts nearby. Signal station.
26976 <i>F 0971</i>	-AVIATION LIGHT.	17° 43.3' N 83° 13.5' E	Al.W.G. period 4s	39 12	W. G.	27 23	Control tower.
26980 <i>F 0974.4</i>	-Sector.	17° 41.1' N 83° 17.7' E	F.W.R.G., Al.Fi.W.G.	95 29	7		F.R. 248°42'-250°42', F.W.-252°42', Al.Fi.W.G.-259°42', F.G.-267°42', F.W.-271°42', F.R.-273°42'.
26988 <i>F 0973.12</i>	-Fishing Harbour, front.	17° 41.6' N 83° 18.3' E	Fl.R. period 1.5s	43 13			
26992 <i>F 0973.14</i>	--Rear, 129 meters 234° 30' from front.	17° 41.7' N 83° 18.1' E	Oc.R. period 3s	56 17			
26996 <i>F 0973.02</i>	-N. breakwater, S. head.	17° 41.9' N 83° 18.3' E	Oc.W.R.G. period 3s	29 9	6		W. 265°30'-099°30', R.-237°30', G.-265°30'.
27000 <i>F 0973.04</i>	-E. breakwater, N. head.	17° 42.0' N 83° 18.0' E	Fl.(2)R. period 10s	29 9	3		
27004 <i>F 0973.06</i>	- E. breakwater, S. head.	17° 41.0' N 83° 18.0' E	Fl.(3)G. period 10s	34 10	5		
27008 <i>F 0973.08</i>	-S. breakwater, E. head.	17° 41.1' N 83° 18.7' E	Fl.(2)R. period 5s	34 10	5		F.R. lights mark oil berth ends 620 meters and 1000 meters WSW.
27012 <i>F 0968</i>	Pudimadaka.	17° 29.5' N 83° 00.1' E	Fl.(2)W. period 15s	115 35	27	White square masonry tower, red bands; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27016 <i>F 0966</i>	Pentakota.	17° 18.0' N 82° 37.0' E	Fl.W. period 15s	59 18	21	White square stone tower, black bands; 59.	
27020 <i>F 0964</i>	Yakalapudi.	17° 00.8' N 82° 17.1' E	Fl.(3)W. period 15s 3 fl. 4s, ec. 11s	85 26	20	White masonry tower; 75.	Storm signals. Signal station.
KAKINADA BAY:							
27024 <i>F 0960</i>	-Sand Spit.	16° 59.3' N 82° 19.7' E	Fl.W. period 15s	30 9			
27026 <i>F 0962.5</i>	-W. jetty.	16° 58.8' N 82° 17.3' E	Fl.R.G. period 5s				
27028 <i>F 0962</i>	-Canal, N. training wall.	16° 56.9' N 82° 16.5' E	Fl.(2)W. period 10s	28 9	9	White metal framework tower, black bands; 6.	
27032 <i>F 0958</i>	Sacramento.	16° 35.0' N 82° 17.0' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	140 43	24	Masonry tower; 148.	Visible 225°-045°.
27036	<i>Sacramento Shoal Lighted Buoy.</i>	16° 32.0' N 82° 20.0' E	Fl.W. period 4s			Red buoy.	
27040 <i>F 0957</i>	Narasapur.	16° 19.0' N 81° 43.6' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	95 29	27	White square masonry tower, red bands; 85.	Radiobeacon.
27044 <i>F 0955</i>	Machilipatnam.	16° 15.0' N 81° 14.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	167 51	26	White round concrete tower, black bands; 148.	Temporarily extinguished (1989).
27048 <i>F 0956</i>	-Entrance. 082° from church.	16° 09.1' N 81° 10.9' E	Q.W.	43 13	13	White masonry tower, black bands; 43.	
27052 <i>F 0953</i>	Nagayalanka.	15° 47.0' N 80° 59.0' E	Fl.W. period 15s fl. 1.2s, ec. 13.8s	114 35	24	White square masonry tower, red bands; 123.	
27054 <i>F 0952.8</i>	-Nizampatam.	15° 52.7' N 80° 38.6' E	Fl.R. period 20s	66 20	8		
27056 <i>F 0952.5</i>	Ramayapatnam.	15° 02.5' N 80° 03.0' E	Fl.W. period 10s	112 34	26	Hexagonal concrete tower; 98.	
27060 <i>F 0952</i>	Krishnapatnam.	14° 15.0' N 80° 07.6' E	Fl.(3)W. period 15s	117 36	18	White round masonry tower, black bands; 98.	Radiobeacon.
27064 <i>F 0951</i>	Armagon Shoal.	13° 54.0' N 80° 12.0' E	Fl.W. period 15s	112 34	26	White round concrete tower, red bands; 98.	Temporarily extinguished (Sept. 1983).
27068 <i>F 0950</i>	Pulicat.	13° 25.2' N 80° 19.7' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	174 53	26	White hexagonal concrete tower, black bands; 148.	
RACON							
			B(-•••)				
MADRAS HARBOR:							
27072 <i>F 0936</i>	-Madras.	13° 02.4' N 80° 16.7' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	187 57	28	White triangular tower, red bands; 151.	
27074 <i>F 0938</i>	-Entrance channel.	13° 07.1' N 80° 17.9' E	Dir.FI.W.R.G.	85 26	15		G. 254°42'-255°12', W.-259°12', R.-259°42'.
-RACON							
			C(-•-•)				
27076 <i>F 0940</i>	-N. arm, outer head.	13° 06.1' N 80° 18.3' E	Fl.R. period 8s	33 10	6	White round masonry tower, red stripes; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27078 <i>F 0941</i>	-E. breakwater.	13° 06.3' N 80° 18.2' E	Fl.(3)G. period 8s				
27080 <i>F 0942</i>	-Dufferiu, outer arm, head.	13° 06.4' N 80° 18.6' E	Fl.(2)W. period 6s	43 13	14	Square concrete column; 30.	
27084 <i>F 0944</i>	-W. side of entrance, breakwater, head.	13° 05.9' N 80° 18.1' E	Fl.G. period 2s	25 8	1	Square concrete column.	2 F.R. on radio tower 1.26 km. W., Fl.R. and 3 F.R. on T.V. tower 4.12 km. SW.
27096 <i>F 0943</i>	-E. side of entrance.	13° 05.9' N 80° 18.2' E	Fl.R. period 2s	25 8	1	Square concrete column.	
27098 <i>F 0945.5</i>	-Pier, head.	13° 05.8' N 80° 18.0' E	F.R.				
27100 <i>F 0935</i>	AVIATION LIGHT 17.4 kilometers 229° from Madras Light.	12° 59.0' N 80° 10.0' E	Al.W.G. period 7.5s		W. 20 G. 15	Control tower.	Occasional.
27104 <i>F 0934</i>	AVIATION LIGHT 18.9 kilometers 226° from Madras Light.	12° 58.0' N 80° 10.0' E	Fl.R. period 1.9s	555 169			
27108 <i>F 0932</i>	Mahabalipuram.	12° 36.8' N 80° 11.6' E	Fl.W. period 10s	137 42	30	Round masonry tower; 84.	
27112 <i>F 0926</i>	Pondicherry.	11° 55.1' N 79° 49.9' E	Fl.(2)W. period 15s	157 48	26	White hexagonal tower, black bands; 151.	
RACON		D(- • •)					
CUDDALORE:							
27120 <i>F 0920</i>	-Cuddalore.	11° 42.3' N 79° 46.6' E	Fl.W. period 5s	59 18	12	White round concrete tower.	
27132 <i>F 0919</i>	Porto Novo.	11° 30.6' N 79° 46.1' E	Fl.W. period 15s	118 36	26	White round concrete tower, red bands; 128.	
27136 <i>F 0916</i>	Karikal, 201 meters from mouth of Arselar.	10° 55.0' N 79° 51.0' E	Oc.(2)W. period 10s lt. 6s, ec. 1s lt. 2s, ec. 1s	59 18	13	White tower; 56.	
27140 <i>F 0914</i>	Nagappattinam.	10° 45.8' N 79° 50.9' E	Fl.(2)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 17s	158 48	26	White round masonry tower, black bands; 163.	Radio beacon.
RACON		G(— • —)					
27144 <i>F 0910</i>	Calimere Point.	10° 17.5' N 79° 52.3' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	44 13	15	White round masonry tower; 52.	
RACON		K(— • —)					
27145 <i>F 0902</i>	Kodikkarai.	10° 16.8' N 79° 49.5' E	Fl.W. period 10s	148 45	20	White round masonry tower, red bands; 147.	
27152 <i>F 0901</i>	-Mandapam Range, front.	9° 16.5' N 79° 08.9' E	F.R.	39 12		Beacon.	
27156 <i>F 0901.1</i>	--Rear, 350 meters 338° from front.	9° 17.0' N 79° 09.0' E	F.R.	53 16		Beacon.	
27160 <i>F 0904</i>	-N. approach to Mandapam Range, front.	9° 16.9' N 79° 07.7' E	Q.W.				Occasional.
27164 <i>F 0904.1</i>	--Rear, 124 meters 206° from front.	9° 16.9' N 79° 09.7' E	Q.W.				Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27168 F 0900	-Pamban Channel.	9° 17.0' N 79° 13.0' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.1s	94 29	9	Gray masonry tower; 67.	Storm signals.
27172 F 0738	Kilakkrai.	9° 14.0' N 78° 47.0' E	Fl.W. period 15s	115 35	16	White hexagonal concrete tower, red bands; 98.	
27176 F 0734	Pandian Tivu.	8° 47.2' N 78° 11.8' E	Fl.W. period 10s	157 48	28	White round concrete tower, black stripes; 75.	Storm signals. Signal station.
	RACON		T(-)				
27180 F 0736	--Tuticorin Range, front.	8° 48.0' N 78° 10.0' E	F.R.	21 6	8	Skeleton metal tower.	
27184 F 0736.1	--Rear, 259 meters 274°30' from front.	8° 48.1' N 78° 09.5' E	F.R.	44 13		Metal framework structure.	
27188 F 0735.5	-N. breakwater, head.	8° 44.9' N 78° 13.7' E	Fl.W. period 5s	29 9	10		
27189 F 0735.6	--Spur.	8° 44.9' N 78° 13.6' E	Q.G.				
27189.1 F 0735.7	-E. breakwater, head.	8° 44.9' N 78° 13.5' E	Q.R.				
27192 F 0735	-Tuticorin Harbor Range, front.	8° 45.4' N 78° 13.1' E	Q.W.	66 20	8	Red and white framework tower.	
27196 F 0735.1	--Rear, 1.47 miles 311°30' from front.	8° 46.0' N 78° 12.0' E	Oc.W. period 10s	194 59	12		
27200 F 0730	Manappad Point.	8° 22.4' N 78° 04.0' E	Fl.(2)W. period 10s	148 45	23	White round tower, red diagonal stripes.	Visible 115°-070°.
SRI LANKA (CEYLON)							
27204 F 0876	Delft Island, NE. side.	9° 32.0' N 79° 43.0' E	F.W.	25 8	5	Metal beacon.	Fishing light. <i>Temporarily extinguished (1990).</i>
27208 F 0875	Fort Hammenhiel.	9° 43.0' N 79° 51.0' E	Fl.R. period 5s	35 11	11		<i>Temporarily extinguished (1990).</i>
27212 F 0874	Kovilan Point, NW. point of Karaitivu Island.	9° 46.0' N 79° 50.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	100 30	11	White masonry tower; 97.	<i>Temporarily extinguished (1990).</i>
27216 F 0877	Punkudutivu.	9° 34.0' N 79° 51.0' E	Fl.W. period 5s	35 11	11	Stone building.	<i>Temporarily extinguished (1990).</i>
27220 F 0878	Jaffna, Jaffnapatam Channel.	9° 38.0' N 80° 02.0' E	Fl.(3)W. period 15s	20 6	13	White concrete tower.	
27224 F 0872	Kankesanturai, W. bastion.	9° 49.0' N 80° 03.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	81 25	14	Round masonry tower; 73.	Obscured by trees when bearing N. of 090°. A F.R. light of low power is shown from head of pier. <i>Temporarily extinguished (1990).</i>
27228 F 0870	Point Pedro.	9° 51.0' N 80° 15.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	102 31	10	White masonry tower; 105.	Visible 090°-330°. A F.R. light of low power is shown from end of customhouse pier. <i>Temporarily extinguished (1990).</i>
27232 F 0866	Mullaittivu, near mouth of Vattuvakalaru.	9° 17.0' N 80° 48.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	67 20	10	Metal latticework obelisk; 65.	
27236 F 0864.2	Pulmoddai, pier.	8° 57.0' N 81° 00.0' E	Fl.R.		5		F.W. shown N. and S. of pier, on shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SRI LANKA (CEYLON)							
TRINCOMALEE:							
27244 F 0852	-Round Island, summit.	8° 30.8' N 81° 13.5' E	Fl.(3)W.R. period 15s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 12s	103 31	10	White round tower; 69.	R. 090°-165°, W.-170°, R.- 226°, W.-247°, R.-020°.
27248 F 0853	-Chapel Hill.	8° 32.9' N 81° 14.5' E	Fl.W. period 10s	364 111	10	White structure on building.	
27252 F 0862	-Back Bay, NW. corner of customhouse.	8° 35.0' N 81° 15.0' E	F.R.	27 8	Mast.		Only shown during SW. monsoon. F.R. lights are shown from beacon on head of jetty at No. 1 oiling berth and from the roof of the building about 500 yards south westward.
27254 F 0858	-Passenger Pier.	8° 34.0' N 81° 13.7' E	F.R.				Difficult to distinguish against floodlights.
27256 F 0857	-Pepperpot Pier.	8° 34.0' N 81° 14.0' E	F.G.				
27260 F 0846	Batticaloa.	7° 45.0' N 81° 41.0' E	Fl.W. period 3s	89 27	10	White tower; 93.	
27264 F 0844	Sangamankanda Point.	7° 01.0' N 81° 52.0' E	Fl.W. period 5s	25 8	10	White concrete hut.	
27268 F 0842	Little Basses Reef.	6° 24.5' N 81° 44.0' E	V.Q.(2)W. period 10s	110 34	27	White granite tower and cupola, black band, two galleries; 125.	
27272 F 0840	Great Basses Reef.	6° 10.7' N 81° 28.9' E	Fl.W. period 15s	110 34	25	White granite tower, conical roof, 2 galleries 66 feet apart; 125.	
27276 F 0836	Dondra Head.	5° 55.2' N 80° 35.6' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	153 47	28	White octagonal tower; 160.	Obscured by Nileweli Point when bearing less than 253°. Reserve light range 18M.
RACON							
			C(- - -)				(3 & 10cm)
27280 F 0834	Weligama Bay, on shore in front of Rest House.	5° 58.0' N 80° 25.0' E	F.R.	30 9	9	Gray concrete pillar.	Fishing light.
27282 F 0832	Koggala Lake.	5° 59.6' N 80° 20.2' E	2 F.R. (vert.)		12		
27284 F 0830	Point De Galle.	6° 01.5' N 80° 13.0' E	Fl.(2)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 11.7s	93 28	25	White round metal tower; 87.	Signal station (by day). F.R. range lights shown from head of No. 1 pier.
RACON							
			G(— —)				
27288 F 0826	Barbery.	6° 28.0' N 79° 58.0' E	Fl.W. period 20s fl. 0.5s, ec. 19.5s	150 46	27	White round tower; 111.	
27292 F 0824	Ratmalana AVIATION LIGHT.	6° 49.0' N 79° 53.0' E	AI.FI.W.G.	73 22		On control tower.	Occasional. Aero Radiobeacon 0.5 mile S.
27296 F 0820	Mount Lavinia, front.	6° 51.0' N 79° 52.0' E	F.R.	30 9		White concrete beacon; 20.	
27300 F 0820.1	-Rear, 55 meters 099° from front.	6° 50.6' N 79° 51.8' E	F.R.	35 11		Coconut tree.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SRI LANKA (CEYLON)							
COLUMBO HARBOR:							
27302	-Approach buoy "2".	6° 58.3' N 79° 50.1' E	F.I.R. period 10s			PORT (A) R. can.	
	-RACON		B(-•••)				
27304 F 0794	-SW. breakwater, head.	6° 57.3' N 79° 50.6' E	Oc.G. period 5s	56 17	13	Concrete tower; 61.	
27308 F 0798	-SW. breakwater, pilot station.	6° 57.2' N 79° 50.8' E	Q.G.	26 8	5	Metal column.	Visible 161°-015°.
27312 F 0796	-SW. breakwater, elbow near pilot station.	6° 57.2' N 79° 50.8' E	Fl.G. period 3s	50 15	5		Visible 155°-270°. Pilot signal station.
27316 F 0792	-S. end of island, breakwater.	6° 57.3' N 79° 50.8' E	F.I.R. period 3s	42 13	10	Round stone tower; 37.	
27320 F 0790	-N. end of island, breakwater.	6° 57.6' N 79° 51.1' E	Fl.G. period 3s	42 13	10	Round stone tower; 37.	
27324 F 0782	-NE. breakwater, head.	6° 57.7' N 79° 51.2' E	F.R.	44 13	10	Concrete tower; 33.	F.R. lights on flour mill 370 meters E.
27328 F 0806	-N. pier.	6° 57.5' N 79° 51.2' E	F.R.	7 2	1	Pedestal.	
27332 F 0780	-Colombo.	6° 56.0' N 79° 50.0' E	Fl.(3)W. period 10s	85 26	25	Round stone tower, black and white checkers; 49.	Visible 349°-189°.
27336 F 0784	-Fishery Harbor, mole, head.	6° 57.9' N 79° 51.6' E	F.R.		5	Metal column.	
27340 F 0804	-New customhouse.	6° 56.2' N 79° 50.7' E	F.G.	50 15	3	White mast.	
27344 F 0812	-Marine railway, guide jetty, head.	6° 56.4' N 79° 50.9' E	F.W.	17 5			
27348 F 0818	-Welikada, radio station.	6° 55.0' N 79° 53.0' E	2 F.R.	305 93	9	Metal framework towers; 269.	One on head of each mast. Shown 1800 to 0600.
27364 F 0884	Mannar Island, W. extremity.	9° 06.0' N 79° 44.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	55 17	10	White concrete tower; 64.	Visible 090°-270°. <i>Temporarily extinguished (1990).</i>
27368 F 0886	Talaimannar, N. pier, outer head.	9° 07.0' N 79° 44.0' E	Oc.W. period 10s lt. 7s, ec. 3s	25 8	5	Metal column; 20.	Shown only when pier is in use.
INDIA-WEST COAST							
27372 F 0764.4	Raatushi.	5° 38.9' N 73° 17.6' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower, black rectangular daymark, 39.	
27376 F 0764	Wa-Faru.	5° 39.0' N 72° 49.0' E	Fl.W. period 10s	50 15	10	Gray framework tower.	
27380 F 0764.2	Bodutaru.	5° 32.0' N 72° 47.0' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27384 F 0764.6	Kanifushi.	5° 22.0' N 73° 19.0' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27388 F 0764.8	Veligili.	5° 05.0' N 72° 49.0' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower.	
27392 F 0764.85	Karidu.	4° 59.0' N 73° 27.0' E	Fl.W. period 5s	50 15	10	Gray framework tower.	
27394 F 0762.9	Turakuna.	7° 06.5' N 72° 53.1' E	Fl.W. period 5s	49 15	10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27395 <i>F 0763</i>	Digufuri Reef.	6° 55.2' N 72° 56.2' E	Fl.(2)W. period 20s		10		
27396 <i>F 0763.15</i>	-Warifuri, No. "16".	6° 56.3' N 73° 08.2' E	Fl.W. period 6s	16 5	7	Gray framework tower; 16.	
27400 <i>F 0763.2</i>	-Tiladummati, No. "13".	6° 36.0' N 72° 51.0' E	Fl.W. period 6s	16 5	7	Gray framework tower on concrete base.	
27402 <i>F 0763.4</i>	Makunudu Atoll.	6° 24.9' N 72° 42.6' E	Fl.W. period 10s	16 5	10		
27404 <i>F 0763.6</i>	-Miladummadulu, No. "12".	6° 11.0' N 72° 58.0' E	Fl.W. period 6s	16 5	7		
27406 <i>F 0763.8</i>	Alifuri.	5° 57.5' N 72° 57.1' E	Fl.W. period 5s		10		
MALDIVE ISLANDS:							
27408 <i>F 0764.9</i>	-Male Island, No. "1".	4° 35.3' N 73° 29.5' E	Fl.W. period 6s	16 5	7	Gray framework tower on concrete base.	
27409 <i>F 0764.91</i>	-Bodubados.	4° 16.1' N 73° 29.6' E	Iso.R.				
27411 <i>F 0765.1</i>	-Hulule, S. breakwater, N. head.	4° 11.4' N 73° 31.5' E	Fl.G.			R. lights on radio masts 300 meters E. AI.Fl.W.G. 6s on control tower 500 meters ESE.	
27411.1 <i>F 0765.11</i>	--Middle.	4° 11.3' N 73° 31.5' E	Fl.G. period 4s		3	STARBOARD (A) G, beacon.	
27411.2 <i>F 0765.13</i>	Funadhoo.	4° 11.1' N 73° 31.2' E	Fl.R. period 4s		3	PORT (A) R, beacon.	
27412 <i>F 0765</i>	-Male Island, each side of 4 entrances through breakwater.	4° 10.7' N 73° 31.0' E	Fl.G.				Fl.R. and Fl.G. mark either side of entrances.
27412.1 <i>F 0765.12</i>	Airport, S. head.	4° 10.5' N 73° 31.7' E	Fl.G. period 4s		3	STARBOARD (A) G, beacon.	
27414 <i>F 0765.2</i>	-Ari Atoll, Gongehe.	4° 12.8' N 72° 45.3' E	Fl.W. period 5s		10		
27415 <i>F 0765.4</i>	--Mandu.	3° 41.5' N 72° 42.7' E	Fl.(2)W. period 10s		10		
27416 <i>F 0765.5</i>	-Felidhu.	3° 40.8' N 73° 25.2' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27420 <i>F 0765.6</i>	-Felidhu, No. "2".	3° 31.0' N 73° 17.0' E	Fl.W. period 6s	16 5	7		
27424 <i>F 0656.65</i>	-Foteo.	3° 27.6' N 73° 45.8' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27428 <i>F 0765.8</i>	-Furana.	3° 16.8' N 72° 59.6' E	Fl.W. period 6s	15 5	7	Gray framework tower.	
27432 <i>F 0766</i>	-Maavaru.	3° 05.1' N 72° 51.3' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower.	
27436 <i>F 0766.6</i>	-Raimandu.	3° 05.3' N 73° 38.5' E	Fl.W. period 10s	50 15	10	Gray framework tower.	
27440 <i>F 0766.2</i>	-Meedhu.	3° 00.1' N 73° 00.5' E	Fl.W. period 6s	15 5	7	Gray framework tower.	
27444 <i>F 0766.65</i>	-Delufuri.	2° 45.7' N 73° 25.3' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27448 <i>F 0766.4</i>	-Kudahavadhoo.	2° 40.5' N 72° 52.2' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	

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INDIA-WEST COAST							
27452 <i>F 0766.8</i>	-Wilifuri.	2° 30.5' N 73° 18.4' E	Fl.W. period 5s	50 15	10	Gray framework tower.	
27456 <i>F 0767</i>	-Guradu.	2° 19.3' N 73° 19.2' E	Fl.W. period 6s	15 5	7	Gray framework tower.	
27460 <i>F 0767.2</i>	-Waduni.	2° 01.1' N 73° 21.4' E	Fl.W. period 6s	50 15	7	Gray framework tower.	
27464 <i>F 0767.05</i>	-Isdu.	2° 07.6' N 73° 35.4' E	Fl.(2)W. period 10s	15 5	10	Gray framework tower.	
27466 <i>F 0767.6</i>	-Suvadiva Atoll, Kudalafari.	0° 53.8' N 73° 20.9' E	Fl.W. period 5s	49 15	10		
27467 <i>K 0813.2</i>	-Addu Atoll, Bushy Islet.	0° 36.7' S 73° 08.9' E	Fl.(2)W. period 10s	16 5	7	Framework tower, concrete base.	
27468 <i>F 0758</i>	Minicoy Island.	8° 16.1' N 73° 01.9' E	Fl.W. period 15s	153 47	26	White round masonry tower; 157.	Obscured by foliage: 223°-226° within 6 miles. 238°-246° within 4 miles. 270°-273° within 2 miles. Storm signals.
	RACON		G(—•) period 93s		18		Azimuth coverage 192°-150°.
27472 <i>F 0724</i>	Muttum Point.	8° 07.3' N 77° 19.2' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	141 43	23	Column, black and white bands; 72.	Visible 285°-115°. Reported Fl.W. 10s (1989).
27476 <i>F 0720</i>	Kolachel, base of flagstaff.	8° 10.0' N 77° 15.0' E	F.R.	59 18	7	White platform.	Visible 286°-107°. Occasional.
27480 <i>F 0722</i>	-663 meters 094° from flagstaff.	8° 10.3' N 77° 10.5' E	F.W.	30 9	5	Wooden platform on white masonry pillar, black bands; 17.	Not shown during SW. monsoon season from May 15 to Sept. 14.
27484 <i>F 0726</i>	Cape Comorin.	8° 05.0' N 77° 33.0' E	Fl.(2)W. period 20s fl. 0.7s, ec. 3.3s fl. 0.7s, ec. 15.3s	207 63	29	White square masonry tower, red bands.	
27488 <i>F 0727</i>	-Kanniya Kumari.	8° 05.2' N 77° 33.1' E	F.W.	162 49		Concrete tower; 33.	
27492 <i>F 0718</i>	Vilinjam.	8° 23.0' N 76° 59.0' E	Fl.W. period 15s fl. 0.6s, ec. 14.4s	186 57	31	White round masonry tower, red bands; 118.	
27496 <i>F 0717</i>	Trivandrum AVIATION LIGHT.	8° 28.8' N 76° 55.2' E	AI.W.G. period 4s	50 15	20	Control tower.	F.R. lights on radio masts 4.7 miles ENE. and 3.8 miles NNW. Occasional.
27500 <i>F 0716</i>	Puthenthope.	8° 37.0' N 76° 48.0' E	F.W.	45 14	7		
27502 <i>F 0715</i>	Anjengo.	8° 40.5' N 76° 45.5' E	Fl.(2)W. period 20s	125 38	19	White round concrete tower, black bands; 118.	<i>Irregular (1989).</i>
27504 <i>F 0712</i>	Quilan.	8° 53.5' N 76° 34.8' E	Fl.(3)W. period 15s fl. 0.1s, ec. 3.7s fl. 0.1s, ec. 3.7s fl. 0.1s, ec. 7.3s	138 42	26	White round concrete tower, red diagonal stripes; 134.	
27512 <i>F 0710</i>	Kovilhottam.	9° 00.0' N 76° 32.0' E	Fl.W. period 5s	64 20	14	White square masonry tower, black band; 50.	Signal station close northeastward.
27516 <i>F 0706</i>	Alleppey.	9° 29.5' N 76° 19.3' E	Fl.W. period 15s fl. 0.7s, ec. 14.3s	108 33	25	White round masonry tower; 93.	F.R. shown from monsoon anchorage at Pathankara, 17 miles S. of Alleppey, from about June 15 to Sept. 16; position varies in accordance with shifting of mud banks.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27520 F 0705	Manakkodam.	9° 45.0' N 76° 17.0' E	Fl.(2)W. period 10s fl. 0.3s fl. 0.3s	112 34	20	White square RCC tower, red bands.	
COCHIN:							
27528 F 0698	-Cochin.	9° 59.9' N 76° 13.3' E	Fl.(4)W. period 20s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 9.7s	161 49	28	White round concrete tower, red bands.	
-RACON							
27540 F 0700	-Range, front.	9° 58.5' N 76° 15.9' E	Q.W.	52 16	11	White metal framework tower, red bands.	Rear 498 meters 078°37' from front.
27544 F 0703	-Ernakulam Channel Range, front.	9° 58.3' N 76° 16.3' E	Q.W.	22 7	11	White metal framework tower, red bands.	Rear 468 meters 321°06' from front.
27548 F 0700.1	--Common Rear.	9° 58.5' N 76° 16.1' E	2 Iso.W. period 4s	85 26 39 12	11	White metal framework tower, red bands.	
27550 F 0703.2	--Duffeerin Point.	9° 58.3' N 76° 15.5' E	F.W.	16 5	2	White 6 sided concrete tower; 13.	
27552 F 0702	-Range, front.	9° 58.1' N 76° 16.7' E	Q.W.	30 9	11	White metal framework tower, red bands.	
27556 F 0702.1	--Rear, 360 meters 107°15' from front.	9° 58.0' N 76° 16.9' E	Iso.W. period 4s	49 15	11	White metal framework tower, red bands.	
27560 F 0694.5	Periyar River.	10° 11.6' N 76° 10.4' E	Fl.(3)W. period 20s	98 30	24	White square concrete tower, black bands; 30.	
27564 F 0693	Chetwai.	10° 33.1' N 76° 01.1' E	Fl.(2)W. period 20s	108 33	18	White round concrete tower, red bands; 98.	
27568 F 0690	Tanur Nagaram.	10° 59.0' N 75° 52.0' E	F.W.	62 19	5		
27572 F 0752	Kiltan Island, N. head.	11° 30.0' N 73° 00.0' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	33 10	11	White round tower; 26.	Obscured by vegetation 267°-344°.
27576 F 0754	--Island, S. head.	11° 28.1' N 73° 00.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	134 41	18	Red and white checkered masonry tower; 134.	
27580 F 0750	-Bitra.	11° 35.8' N 72° 11.4' E	Q.(9)W. period 10s	108 33	9	White metal framework tower, red bands; 98.	
27588 F 0749	-Chetlat Island.	11° 42.0' N 72° 43.0' E	Fl.(3)W. period 30s	118 36	8		Radiobeacon.
27592 F 0754.2	-Kadmat Island.	11° 15.0' N 72° 47.0' E	Fl.(4)W. period 20s	112 34	8	White framework tower; 98.	
27596 F 0754.4	-Amini Island.	11° 06.0' N 72° 45.0' E	Fl.W. period 15s	112 34	8	Black metal framework tower, white bands.	
27598 F 0754.6	Thinnakara Islet.	10° 56.6' N 72° 19.0' E	Fl.W. period 5s	39 12	9	Beacon.	
27600 F 0754.7	-Agatti Island, N. head.	10° 52.1' N 72° 12.0' E	Fl.(3)W. period 30s	115 35	10	White framework tower; 98.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27604 F 0756	Suheli Par.	10° 02.9' N 72° 17.1' E	Fl.(2)W. period 20s	118 36	19	White round metal tower, red bands; 121.	Obscured by vegetation 199°-207°. Reported extinguished (Aug. 1990).
	RACON		O(---) period 95s				Azimuth coverage 285°-250°. Reported inoperative (Aug. 1990).
27608 F 0755.6	-On N. island.	10° 08.0' N 72° 20.0' E	Fl.W. period 15s	42 13	6	White wooden framework tower; 39.	Obscured by vegetation 325°-000°.
27612 F 0755	-Kalpeni.	10° 05.0' N 73° 38.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.4s fl. 0.5s, ec. 3.4s fl. 0.5s, ec. 11.7s	144 44	18	Round masonry tower; 131.	Obscured by vegetation 190°-195°.
27616 F 0755	-Androth Island.	10° 48.6' N 73° 42.1' E	Fl.(2)W. period 10s	114 35	16	White square masonry tower, black bands; 107.	Visible 097°-069°.
	-RACON		D(-••)				
27620 F 0755.2	--W. head.	10° 48.7' N 73° 40.0' E	Fl.W. period 15s	43 13	16	White concrete column; 33.	Visible 067°-221°.
27624 F 0755.5	-Kavarat Island.	10° 33.8' N 72° 38.7' E	Fl.W. period 5s	131 40	18	White concrete tower; 124.	
	-RACON		K(-•-)				
27628 F 0755.53	--Boat Entrance.	10° 34.8' N 72° 38.9' E	Fl.(2)W. period 10s			White round concrete tower, black bands.	
27632 F 0692	Ponnani.	10° 46.5' N 75° 55.3' E	Fl.W. period 15s	108 33	26	White round concrete tower, black bands; 98.	
27636 F 0689	Beyapore.	11° 09.5' N 75° 48.5' E	Fl.(2)W. period 15s	105 32	24	White octagonal concrete tower, red bands; 98.	Storm signals. Signal station.
CALICUT:							
27640 F 0686	-Calicut.	11° 15.5' N 75° 46.2' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	56 17	10	White masonry tower; 50.	Storm signals. Night morse signals from sunset to 2400 and 0400 to sunrise.
27644 F 0687	-N. Pier, head.	11° 15.4' N 75° 46.1' E	F.R.	23 7	2	Post.	
27648 F 0688	-S. Pier, head.	11° 14.8' N 75° 46.2' E	F.R.	23 7	2	White masonry tower, black bands, white dwelling.	
27652 F 0682	Kadalur Point.	11° 28.0' N 75° 39.0' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	187 57	23	White concrete tower, black band; 115.	
27660 F 0678	Mahe, S. side of river entrance.	11° 42.0' N 75° 31.9' E	Fl.(2)W. period 10s	98 30	12		
27664 F 0674	Tellicherry, fort wall.	11° 45.0' N 75° 29.0' E	Fl.(3)W. period 9s	89 27	10	White masonry tower.	Visible 322°-120°.
27668 F 0672	Cannanore.	11° 51.5' N 75° 21.4' E	Fl.W. period 10s	115 35	18	White round concrete tower, red bands; 75.	
27672 F 0671	Azhikal.	11° 56.6' N 75° 18.1' E	Fl.(2)W. period 8s	89 27	10		Storm signal.
27676 F 0669.5	Kotte Kunnu.	12° 00.4' N 75° 12.2' E	Fl.(2)W. period 20s	230 70	18	White triangular masonry tower, red bands; 59.	
27680 F 0668.5	Kasaragod.	12° 30.0' N 74° 58.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	118 36	26	White octagonal concrete tower, black bands; 98.	Storm signals.

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INDIA-WEST COAST							
27684 F 0668	Mangalore, S. part of Marine Yard.	12° 52.0' N 74° 50.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	11	White masonry tower, black bands; 36.	Visible 018°-153°. Storm signals.
27688 F 0666	-New Mangalore Range, front.	12° 55.8' N 74° 49.3' E	Q.W.	56 17	6	White concrete tower.	
27692 F 0666.1	--Rear, 630 meters 078°56' from front.	12° 55.8' N 74° 49.6' E	Oc.W. period 10s	89 27	6		
27696 F 0664	-Airfield.	12° 57.9' N 74° 53.5' E	Aero.AI.W.G. period 7.5s	374 114	28	Control tower.	Occasional.
27700 F 0660	Suratkal Point.	13° 00.2' N 74° 47.4' E	Fl.W. period 10s	144 44	31	White square masonry tower, red bands; 118.	
27704 F 0658	Kap.	13° 13.0' N 74° 44.0' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	140 43	24	White masonry tower, black bands; 89.	
27708 F 0655	Malpe.	13° 20.6' N 74° 41.1' E	Fl.W. period 3s	94 29	16	White square masonry tower.	
27709 F 0656	-N. breakwater.	13° 20.9' N 74° 41.5' E	Fl.R. period 3s	36 11	3		Shown from Sept. 1 to May 31.
27710 F 0657	-S. breakwater.	13° 21.0' N 74° 41.6' E	Fl.G. period 3s	36 11	3		Shown from Sept. 1 to May 31.
27712 F 0652	Coondapoort, S. side of river.	13° 37.0' N 74° 40.0' E	F.W.	48 15	4	Mast; 40.	Visible 354°-152°.
27716 F 0651	-Tippu Sultan Gudda.	13° 39.6' N 74° 39.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	60 18	8	Hexagonal column over a round cabin; 30.	Shown Sept. 16 to May 15.
27724 F 0648	Bhatkal.	13° 57.9' N 74° 32.0' E	Fl.(2)W. period 20s	184 56	27	Square masonry tower; 46.	Visible 310°-129°, 132°-160°. Storm signals.
	Auxiliary light.		F.R.	118 36	16	Metal mast; 6.	Visible 319°-012°.
27732 F 0644	Honavar, in hospital compound.	14° 16.5' N 74° 26.5' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	105 32	8	Mast; 50.	Visible 344°-164° except where obscured by trees when bearing less than 035°. Shown Sept. 16 to June 15.
27736 F 0645	-Off wharf 244 meters SSW. of Honaver.	14° 16.5' N 74° 26.5' E	Fl.R. period 5s	23 7	7	Round concrete hut on white metal tower.	Shown Sept. 16 to May 15.
27740 F 0642	Kumta Point.	14° 25.2' N 74° 23.1' E	Fl.(2)W. period 10s fl. 0.4s, ec. 2.2s fl. 0.4s, ec. 7s	108 33	7	White round metal hut; 12.	Visible 289°-219° except where obscured by land S. of 160°. Storm signals. Shown from Sept. to June.
27744 F 0638	Tadri, N. side of entrance.	14° 30.8' N 74° 20.5' E	Fl.(3)W. period 10s	124 38	10	Black and white stone tower.	
27748 F 0637	Kukra Island.	14° 42.5' N 74° 14.4' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	217 66	9	White tower, black bands.	Shown Sept. 16 to May 15.
KARWAR BAY:							
27752 F 0636	-Port Karwar, Port Office.	14° 48.0' N 74° 07.0' E	Q.R.	76 23	6	White metal framework tower, red bands; 52.	Extinguished June 16 to Sept. 15. Storm signals.
27756 F 0634	-Oyster Rocks.	14° 49.2' N 74° 03.6' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	208 63	26	Red round masonry tower, white cupola; 62.	

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INDIA-WEST COAST							
GOA:							
27760 <i>F 0622</i>	-Marmagoa, breakwater, N. head.	15° 25.1' N 73° 47.5' E	Fl.W.R.G. period 5s fl. 1.5s, ec. 3.5s	85 26	W. 20 R. 16 G. 16	White concrete tower; 75.	W. 080°-120°, R.-197° 30', W.-304°, G.-080°. Radar reflector.
27764 <i>F 0622.2</i>	-Mole, head.	15° 25.1' N 73° 47.6' E	Fl.W. period 10s fl. 1s, ec. 9s	26 8	10	White masonry tower; 20.	
27764.4 <i>F 0623</i>	-Vasco Bay, W. transit, front.	15° 24.0' N 73° 48.5' E	F.G.	26 8		Beacon.	
27764.41 <i>F 0623.1</i>	--Rear.	15° 24.0' N 73° 48.5' E	F.G.	33 10		Beacon.	
27764.5 <i>F 0623.2</i>	--E. transit, front.	15° 24.0' N 73° 48.6' E	F.R.	26 8		Beacon.	
27764.51 <i>F 0623.3</i>	--Rear.	15° 24.0' N 73° 48.6' E	F.R.	33 10		Beacon.	
27766	-Marmagao Signal Station RACON	15° 24.8' N 73° 47.2' E	G(-- •)				Tower marked by R. lights.
27768 <i>F 0628</i>	-St. George Island.	15° 21.1' N 73° 45.8' E	Fl.(4)W.R. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	306 93	W. 9 R. 6	White round tower, black stripes; R. 185°-225°, W.-185°. 52.	
-Aguada Bay:							
27772 <i>F 0606</i>	--Aguada.	15° 29.5' N 73° 46.4' E	Fl.(3)W. period 20s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 11.8s	279 85	27	White rectangular concrete tower; 69.	
--RACON							
27776 <i>F 0607</i>	--SE. of Aguada.	15° 29.4' N 73° 46.4' E	Fl.R. period 3s	86 26	12	White round stone tower; 39.	Shown 1 Sept. to 31 May.
27780 <i>F 0610</i>	--Panaji entrance Range, front.	15° 29.7' N 73° 49.0' E	Fl.W. period 3s	75 23	6	White round masonry tower; 72.	Shown 1 Sept. to 31 May.
27784 <i>F 0610.1</i>	--Rear, 1.17 miles 053°54' from front.	15° 30.4' N 73° 50.0' E	Fl.W. period 3s	184 56	8	White concrete tower, white triangular daymark, red stripe; 36.	Shown Sept. 1 to May 31.
27788 <i>F 0613</i>	--Tejo Range, front.	15° 29.3' N 73° 48.7' E	Q.R.	36 11	5	White concrete column, black bands; 30.	Shown Sept. 15 to May 31.
27792 <i>F 0613.1</i>	--Rear, 90 meters 191°18' from front.	15° 29.3' N 73° 48.6' E	F.R.	46 14	8	White pyramidal tower with black bands, white triangular daymark, black band; 39.	Shown Sept. 15 to May 15.
27796 <i>F 0614</i>	--Raaj-Magus.	15° 30.0' N 73° 48.8' E	Fl.G. period 1.5s	42 13	3	White round stone tower; 39.	Shown 15 Sept. to 15 May.
27800 <i>F 0600</i>	Vengurla.	15° 51.2' N 73° 37.0' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	269 82	24	Hexagonal masonry tower, black bands; 43.	Storm signals.
27804 <i>F 0598</i>	Vengurla Rocks (Burnt Islands).	15° 53.0' N 73° 27.0' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	162 49	26	White metal tower, red bands; 69.	Partially obscured by islands in the vicinity.
MALVAN BAY:							
27808 <i>F 0597</i>	-Sindhudrug Janjira.	16° 02.4' N 73° 27.5' E	Fl.W. period 5s	43 13	5		Shown 1 Sept. to 31 May.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27820 F 0596	-On beach, E. side of bay, front.	16° 03.0' N 73° 28.2' E	F.R.	33 10	4	White mast; 15.	Visible 023°-114°. Shown 16 Sept. to 15 June.
27824 F 0596.1	--Rear, 220 meters 075°32' from front.	16° 03.0' N 73° 28.3' E	Fl.G. period 3s	59 18	8	White and red checkered steel frame tower; 45.	Visible 073°-079°. Shown 16 Sept. to 15 June, weather permitting.
27828 F 0590	Devgarh Harbor.	16° 23.3' N 73° 22.3' E	Fl.(4)W. period 23s	138 42	25	White round masonry tower, black bands; 35.	Storm signals. F.R. light close SSW.
27832 F 0592	Achra Point.	16° 12.0' N 73° 26.0' E	Fl.(2)W. period 6s	162 49	8	Framework tower; 30.	Seasonal.
27836 F 0588	Vijayadurg Harbor, NE. corner of fort.	16° 34.0' N 73° 20.0' E	L.Fl.W.R.G. period 9s fl. 2s, ec. 7s	52 16	5	White steel tower, red bands; 19.	G. 270°-045° partially obscured by trees, R.-090°, W.-270°.
27840 F 0586	Rajapur, Wagapur Point.	16° 36.3' N 73° 19.4' E	Fl.W. period 15s	150 46	29	White square masonry tower, black bands; 76.	Storm signals.
27844 F 0587	Musargagi Point.	16° 37.0' N 73° 20.0' E	Fl.(2)W. period 7.5s	114 35	8	Skeleton tower; 30.	Shown Sept. 1 to May 31.
27848 F 0584	Purangad Bay.	16° 48.7' N 73° 18.0' E	Fl.(3)W. period 10s	230 70	8	Framework tower; 30.	Seasonal.
27856 F 0580	Ratnagiri.	16° 59.1' N 73° 16.4' E	Fl.(2)W. period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	336 102	28	Round concrete tower, black and white bands; 49.	Visible 166°-076°. Storm signals. Radiobeacon.
	Auxiliary light.		F.R.	285 87	9	Concrete pedestal.	Visible 303°-357°.
	RACON		G(--)				
27864 F 0579	Warori Bluff.	17° 11.5' N 73° 14.5' E	Fl.W. period 10s	165 50	8	Framework tower; 30.	Shown from 1 Sept. to 31 May.
27868 F 0578	Jaigarh.	17° 18.0' N 73° 12.0' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 11.4s	133 41	24	Red metal tower, white bands; 72.	Visible 303°30'-242°30'. Storm signals.
27872 F 0578.2	-Damankul, Jaigarh Bay.	17° 18.0' N 73° 12.0' E	Fl.(1+2)W. period 10s fl. 0.3s, ec. 4.3s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 4.3s	135 41	6	White lattice tower; 30.	Seasonal.
27876 F 0578.4	-N. bastion of fort.	17° 18.1' N 73° 13.3' E	F.R.	185 56			A F.R. light is shown near customhouse on Tembu Bandar.
27880 F 0577	Boria Bay.	17° 23.0' N 73° 12.0' E	Fl.R. period 5s	123 37	6	Framework tower; 30.	Seasonal. <i>Temporarily extinguished (1988).</i>
27884 F 0576	Palshet.	17° 27.0' N 73° 11.0' E	Fl.(2)W. period 6s	192 59	8	Framework tower; 30.	Obscured when bearing more than 141°. Seasonal. <i>Temporarily extinguished (1988).</i>
27886	Kathalwadi Platform.	17° 32.0' N 73° 04.8' E	Fl.Y.				Gong: Mo.(U) 15s.
PORT DABHOL:							
27888 F 0566	Tolkeswar Point.	17° 34.0' N 73° 09.0' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	342 104	21	White square masonry tower; 45.	
27892 F 0570	-Fort Anjanwel, N. point Range, front.	17° 34.0' N 73° 09.0' E	Fl.W. period 3s	17 5	5	Concrete pillar, triangular topmark; 10.	Shown 1 Sept. to 30 June.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27896 <i>F 0570.1</i>	--Yeldur Hill, rear, 1335 meters 081° from front.	17° 34.4' N 73° 09.9' E	Q.R.	98 30	8	White steel tower; 12.	Shown 1 Sept. to 30 June.
27900 <i>F 0574</i>	-SW. corner of jetty.	17° 35.0' N 73° 11.0' E	F.R.	26 8	4	Wooden post; 17.	Storm signals. Shown 16 Sept. to 15 June.
27904 <i>F 0564</i>	Harnai (Herni) Promontory.	17° 48.0' N 73° 06.0' E	Fl.R. period 5s	95 29	8	White masonry tower; 32.	Visible 280°-154°. Storm signals.
27908 <i>F 0562</i>	Nanwell Point.	18° 16.7' N 72° 56.2' E	Fl.(3)W. period 15s	217 66	18	White masonry tower, red band; 62.	
	Auxiliary Light.		F.R.	174 53	4		Visible 057°-075°.
27912 <i>F 0563</i>	Srivardhan Bay.	18° 03.0' N 72° 59.7' E	Q.(4)W. period 5s	152 46	8	Framework tower; 30.	Shown Sept. 1 to May 31.
27916 <i>F 0559</i>	Janjira, on Bandar Hill.	18° 18.0' N 72° 57.0' E	Fl.(2)W. period 15s	261 80	8	Skeleton tower; 30.	Shown Sept. 1 to May 31.
27920 <i>F 0560</i>	Janjira Fort.	18° 18.0' N 72° 58.0' E	F.R.	108 33	2	Post; 8.	
27924 <i>F 0557.6</i>	Chaul Kadu Reefs.	18° 35.8' N 72° 50.9' E	Fl.R. period 3s	55 17	4	White round masonry tower; 63.	
27928 <i>F 0558</i>	Chaul.	18° 32.0' N 72° 54.0' E	Fl.W. period 3s fl. 1s, ec. 2s	108 33	13	White square masonry tower, black bands; 52.	
27932 <i>F 0557</i>	Alibag, Kolaba Fort.	18° 38.0' N 72° 52.0' E	F.W.G.	32 10	5		Shown Sept. 1 to May 31 for fishing and coasting craft. G. 340°-070°, W.-145°. Storm signals.
27936 <i>F 0556</i>	Khanderi Island.	18° 42.2' N 72° 48.9' E	Fl.(2)W.R. period 10s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 6.8s	154 47	W. 25 R. 22	Octagonal tower on flatroof house; 100.	R. 336°-001°, W.-201°.
27940 <i>F 0556.5</i>	-Landing Place Range, front.	18° 42.0' N 72° 49.0' E	F.R.	52 16			Occasional.
27944 <i>F 0556.51</i>	--Rear, 168° from front.	18° 42.2' N 72° 49.9' E	F.R.	62 19			Occasional.
BOMBAY:							
27952 <i>F 0514</i>	-Prongs Reef.	18° 52.7' N 72° 48.0' E	Fl.W. period 10s	135 41	23	Round tower, red, white and black bands; 171.	Obscured 171°-232°.
27956 <i>F 0516</i>	-Sunk Rock.	18° 53.4' N 72° 50.0' E	Fl.(2)W.R. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	65 20	W. 13 R. 7	Red and yellow checkered round tower; 91.	W. 186°-209°, R.-015°, W.-031°, R.-06°, obscured elsewhere.
27960 <i>F 0515</i>	-Gull Island.	18° 50.1' N 72° 53.8' E	Fl.W. period 5s	85 26	7	Galvanized metal framework tower; 64.	
27964 <i>F 0555</i>	-Revas.	18° 49.3' N 72° 56.8' E	F.R.	16 5	3	Black wooden post.	
27968 <i>F 0520</i>	-Dolphin Rock.	18° 54.8' N 72° 50.2' E	Fl.(4)W.R. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	36 11	W. 11 R. 5	Gray masonry tower; white dome; 58.	R. 147°-236°, W.-270°, R.-000°, obscured elsewhere.
27972 <i>F 0521</i>	-Naval Dockyard, S. breakwater, head.	18° 55.5' N 72° 50.7' E	Fl.R. period 3s	49 15	5	Mast on building; 43.	
27976 <i>F 0523</i>	-Breakwater pier, E. head.	18° 56.0' N 72° 50.0' E	F.R.	27 8	5	Steel column; 16.	
27980 <i>F 0524</i>	-Naval Dock, N. breakwater, head.	18° 56.0' N 72° 51.0' E	F.R.	39 12			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27984 <i>F 0528</i>	-Indira Dock Range, front.	18° 56.0' N 72° 50.6' E	F.R.	26 8	7	Framework structure, white double ball topmark, black border.	
27988 <i>F 0528.1</i>	--Rear, 120 meters 305° from front.	18° 56.1' N 72° 50.5' E	2 F.R. (vert.)	39 12	7	Mast, white double ball topmark, black border.	
27992 <i>F 0532</i>	-N. Channel.	18° 57.0' N 72° 51.0' E	Oc.R. period 5s lt. 3s, ec. 2s	19 6	8	Beacon, red and white bands; 28.	Visible 070°-320°.
27996 <i>F 0534</i>	-Victoria Dock, N. side of entrance, front.	18° 57.1' N 72° 50.8' E	F.R.		6	Framework structure.	
28000 <i>F 0534.1</i>	--Rear, 430 meters from front.	18° 57.1' N 72° 50.5' E	3 F.Bu. (vert.)			Pile beacon.	Shown when dock gates open.
28004 <i>F 0546</i>	-Tucker.	18° 56.0' N 72° 52.5' E	Oc.W.R. period 5s lt. 3s, ec. 2s	70 21	13	White framework tower on red masonry beacon, black and white bands.	W. 007°30'-036°30', R. elsewhere.
28008 <i>F 0547</i>	-Elephanta Island Range, front.	18° 57.0' N 72° 55.0' E	Q.W.	39 12			
28012 <i>F 0547.1</i>	--Rear, 150 meters 055° from front.	18° 57.5' N 72° 55.8' E	Q.W.	72 22			
28016 <i>F 0548</i>	-Uran Range, front.	18° 56.0' N 72° 54.0' E	Q.W.	22 7		Black steel framework beacon.	Visible 043°-003°.
28020 <i>F 0548.1</i>	--Rear, 0.5 mile 202°42' from front.	18° 55.7' N 72° 54.0' E	Q.W.	39 12	5	Black round beacon.	Visible 077°-000°.
28024 <i>F 0549</i>	-Butcher.	18° 57.0' N 72° 54.0' E	Fl.(4)W.R. period 10s	30 9		Beacon.	R. 055°-206°, W.-elsewhere.
28028 <i>F 0550</i>	-Butcher Island Range, front.	18° 58.0' N 72° 54.0' E	F.R.				
28032 <i>F 0550.1</i>	--Rear, 230 meters 255° from front.	18° 57.6' N 72° 53.8' E	F.R.				
28036 <i>F 0549.5</i>	-Elephanta Patch.	18° 58.0' N 72° 55.0' E	Fl.W. period 2s	23 7		Black steel framework beacon.	Obscured 036°-356°.
28040 <i>F 0551</i>	-Pir Pau Bulk Oil Pier.	18° 59.0' N 72° 55.0' E	F.R.	15 5	1	One light at each end of pier.	A F.R. light visible 4 miles is shown from center of pier when oil vessels are discharging. 6 F.R. lights are shown on pile pier connecting S. shore of Trombay Island.
28044 <i>F 0502</i>	Uarashi.	19° 04.5' N 72° 48.7' E	Fl.R. period 10s fl. 1s, ec. 9s	33 10	5	Beacon; 34.	Exhibited from Oct. 1 to May 31. Two Fl. R. 5s 8m 4M lights on dolphins 1.9 miles SSW. Two Fl. R. 5s 8m 4M lights on dolphins 4.5 miles SSW. Aero Radiobeacon 2.8 miles NNE.
28048 <i>F 0501</i>	Santa Cruz AVIATION LIGHT.	19° 05.5' N 72° 51.9' E	Al.Fl.W.G. period 4s	82 25	W. 27 G. 25	Control tower.	
28052 <i>F 0500</i>	Vesava.	19° 09.0' N 72° 48.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	45 14	5	White post; 50.	Visible 003°-040°. Storm warning signals.
28056 <i>F 0498</i>	Bassein, on rocks 366 meters from pier.	19° 19.0' N 72° 49.0' E	Q.R.	16 5	2	Metal post on masonry base.	
28060 <i>F 0499</i>	Utan.	19° 16.6' N 72° 46.8' E	Fl.(2)W. period 15s	175 53	24	White square masonry tower, red bands.	Storm signals.
28064 <i>F 0496</i>	Donghri Point, S. side of entrance to Bassein Creek.	19° 18.0' N 72° 48.0' E	F.G.	46 14	6	Metal column; 7.	Visible 095°-240°. Exhibited from Sept. 16 to June 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28068 F 0494	Arnala, on mainland, near Arnala custom house.	19° 27.4' N 72° 44.8' E	Fl.(3)W.R. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	60 18	8 50.	White metal framework tower;	R. 048°-091°, W.-098°, obsc.-100°, W.-114, obsc. and partially obsc.-130, W. elsewhere. Storm signals.
28072 F 0493	Kelve (Kelwa) Mahim.	19° 36.0' N 72° 44.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	43 13	3	White mast; 50.	Visible 058°-152°. Storm signals.
28076 F 0492	Satpati.	19° 43.0' N 72° 42.0' E	Fl.W. period 4.5s fl. 0.3s, ec. 4.2s	72 22	15	Mast.	Storm signals.
28080 F 0491.8	Nowapur.	19° 47.3' N 72° 42.4' E	F.W.	35 11	6	Mast head.	Storm signals.
28084 F 0491.5	Tarapur.	19° 50.8' N 72° 39.5' E	Fl.(3)W. period 30s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 17.6s	82 25	23	White square masonry tower, black bands; 75.	Storm signals.
			F.R.	33 10	9		
28088 F 0491	Dahanv.	19° 58.7' N 72° 43.1' E	Fl.W. period 5s fl. 0.3s, ec. 2.7s	43 13	10	White steel framework tower; 39.	
28092 F 0489	Umbargaon.	20° 11.7' N 72° 45.0' E	Fl.W. period 15s fl. 0.3s, ec. 14.7s	115 35	19	White concrete tower, red bands; 98.	Storm signals.
28096 F 0490	Maroli.	20° 18.0' N 72° 47.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	40 12	5	White steel framework tower; 35.	Shown Sept. 16 to June 15.
PORT DAMAN:							
28100 F 0484	-Rio Sandalcalo.	20° 24.0' N 72° 50.0' E	Fl.W. period 10s	115 35	21	White round concrete tower, black bands; 101.	Storm signals. A F.R. light is located 0.2 mile northward on N. side of river.
28108 F 0480	Bulsar Khari, S. side of entrance to Auranga River.	20° 37.0' N 72° 53.0' E	Fl.(4)W. period 20s	105 32	14	White metal framework tower; 98.	
28112 F 0479	Kanai Creek.	20° 48.8' N 72° 49.7' E	Fl.(2)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 16s	111 34	17	White round concrete tower, black bands; 98.	
28116 F 0478	Warsi Borsi.	20° 55.7' N 72° 46.1' E	Fl.W. period 7s	118 36	17	White square concrete tower, red bands.	
GULF OF KHAMBHAT:							
28120 F 0476	-Hazira.	21° 05.1' N 72° 38.7' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 9.8s	128 39	24	White round masonry tower; 82.	
-RACON							
28124 F 0472	-Dandi Point, entrance to Bhagwa Creek.	21° 18.8' N 72° 36.7' E	L.Fl.W. period 10s fl. 2s, ec. 8s	82 25	10	Steel framework structure; 86.	Visible 355°-180°.
28128 F 0470	-Luhara Point, N. side of Narbada River entrance.	21° 39.0' N 72° 33.0' E	Fl.W. period 15s	105 32	11		
28132 F 0468	-Devjagan, N. bank of Dhadar River entrance.	21° 55.0' N 72° 30.0' E	F.W.	41 12	10	Round stone column; 44.	Visible 294°-181°. Shown Sept. 1 to June 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28136 F 0457	--Johnston Point, E. side of entrance to Bhaunagar Creek. -Bhavnagar:	21° 49.0' N 72° 13.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	49 15	8	White round concrete tower, black bands; 41.	
28140 F 0462	--Old Port.	21° 48.1' N 72° 09.1' E	Fl.(3)W. period 10s	43 13	8	Tower.	
28144 F 0458	--On point 5.1 kilometers 071°30' from the landing.	21° 49.0' N 72° 12.0' E	Fl.W. period 12s		6	White hut on piles; 20.	
28148 F 0459	--N. side of Bhaunagar Creek.	21° 50.0' N 72° 11.0' E	Fl.R. period 10s fl. 1s, ec. 9s	30 9	10		
28152 F 0460	--S. side of Bhaunagar Creek.	21° 49.0' N 72° 11.0' E	Fl.W. period 7s	30 9	10		
28156 F 0456	--Ruvapari, W. side of channel.	21° 46.7' N 72° 13.9' E	Fl.W. period 12s	65 20	10	Gray hut on piles.	
28160 F 0455	--Bhaunagar New Port Range, front.	21° 45.0' N 72° 14.0' E	F.R.				
28164 F 0455.1	--Rear, 1020 meters 251°07' from front.	21° 45.3' N 72° 13.0' E	F.W.				
28168 F 0455.6	--Bhaunagar New Port.	21° 45.0' N 72° 14.0' E	Fl.R. period 8s	79 24	8		
28172 F 0454	--Tide gauge.	21° 44.0' N 72° 16.0' E	Fl.W. period 5s	13 4	8	Hut; 13.	
28176 F 0452	-Ghogha Bandar, S. side of entrance.	21° 41.0' N 72° 17.0' E	Oc.R. period 15s lt. 11s, ec. 4s	72 22	10	White rectangular masonry tower, red bands; 40.	
28180 F 0448	Piram Island.	21° 35.9' N 72° 21.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	150 46	27	White round masonry tower, black bands; 90.	
-RACON							
			B(-••)				
28184 F 0449	"Perigee" light vessel.	21° 42.1' N 72° 18.3' E	Fl.W. period 7s	39 12	8	Red hull.	Bell. Radar reflector.
28188 F 0446	-Alang.	21° 24.1' N 72° 11.1' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	128 39	14	White hexagonal masonry tower, black bands; 79.	
-RACON							
			C(-•-•)				
28192 F 0444	Gopnath Point.	21° 12.0' N 72° 07.0' E	Fl.(3)W. period 20s	144 44	18		
28196 F 0442	-Jhanjhmer.	21° 10.8' N 72° 03.7' E	Fl.W. period 10s	148 45	7	White square masonry structure; 28.	
28200 F 0438	Jegri Island.	21° 02.4' N 71° 48.2' E	Fl.(2)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 15.7s	187 57	27	Black square masonry tower, white bands; 107.	
28204 F 0436	Savai Bet.	20° 54.2' N 71° 31.6' E	Fl.(4)W. period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	144 44	21	White square tower, red bands; 46.	
-Auxiliary.							
			F.R.		105 32		Visible 063°-300°.
RACON							
			N(-•)				
28208 F 0432	Jafarabad Harbor.	20° 51.4' N 71° 22.9' E	Fl.W. period 10s	95 29	24	White round tower on hexagonal tower, square base; 62.	Storm signals.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28212 <i>F 0432.2</i>	-Islet E. of harbor.	20° 51.4' N 71° 23.0' E	F.R.	26 8	14	Hut; 10.	Visible 248°-267°.
28216 <i>F 0432.4</i>	-650 meters ENE of harbor.	20° 52.0' N 71° 23.0' E	F.R.	56 17	5		
28224 <i>F 0433</i>	-Range, front.	20° 51.4' N 71° 22.8' E	Fl.R. period 4s	56 17	3		
28228 <i>F 0433.1</i>	--Rear, 120 meters 322°09' from front.	20° 51.5' N 71° 22.7' E	Fl.W. period 4s	75 23	3		
28232 <i>F 0430.6</i>	Rajpura.	20° 47.5' N 71° 12.3' E	Fl.W. period 5s	80 24	7	Rectangular cabin, pillar at one corner; 17.	Shown from Sept. 1 to June 15.
28236 <i>F 0430</i>	Simar.	20° 47.0' N 71° 09.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	30 9	7	Stone column and hut; 17.	
DIU:							
28240 <i>F 0429</i>	-Simar Fort, 16.7 kilometers E. of Dui Harbor.	20° 45.7' N 71° 09.1' E	F.W.	30 9	2	Quadrangular pyramid on fort; 5.	Seasonal.
28244 <i>F 0426</i>	Nawabandar, W. side of bay.	20° 44.4' N 71° 04.8' E	Fl.(4)W. period 12s	62 19	8	White round building; 24.	Storm signals. Signal station.
28256 <i>F 0422</i>	-Forte do Mar.	20° 43.2' N 70° 59.8' E	Fl.G. period 4s	56 17	6	White round tower; 23.	Shown Sept. 1 to May 31.
28260 <i>F 0424</i>	-Couraca.	20° 42.9' N 70° 59.9' E	Fl.R. period 4s	20 6	6	White hexagonal tower; 15.	Shown Sept. 1 to May 31.
28264 <i>F 0420</i>	Cavaleiro.	20° 43.0' N 71° 00.0' E	Fl.W. period 2s	148 45	20	White round concrete tower, black bands; 49.	Storm signals. Signal station.
28266 <i>F 0414.2</i>	Vanakbava.	20° 42.4' N 70° 52.7' E	Fl.(3)W. period 10s		12		Rescue Control Center.
28268 <i>F 0414</i>	Diu Head.	20° 41.3' N 70° 49.7' E	Fl.W. period 10s	194 59	32	Red and white masonry tower; 121.	Radio beacon.
28270 <i>F 0410</i>	Sutrapara.	20° 50.0' N 70° 29.0' E	Fl.W. period 7s	20 6	8		
28272 <i>F 0410</i>	Veraval Roads.	20° 54.6' N 70° 21.2' E	Oc.W. period 15s	108 33	24	White masonry tower, black bands.	
28276 <i>F 0412</i>	-Bhirria.	20° 54.0' N 70° 23.0' E	Fl.R. period 10s fl. 0.5s, ec. 9.5s	30 9	4	White masonry structure, black bands; 20.	
28280 <i>F 0406</i>	Mangrol.	21° 06.5' N 70° 06.3' E	Fl.(2)W. period 20s	118 36	26	White hexagonal concrete tower, red bands; 115.	
28282 <i>F 0406.1</i>	-W. breakwater.	21° 06.3' N 70° 06.0' E	Fl.R. period 3s	43 13	6	Square concrete tower; 13.	
28284 <i>F 0404</i>	Navibandar.	21° 26.9' N 69° 47.2' E	Fl.W. period 10s	60 18	12		
28288 <i>F 0400</i>	Porbandar.	21° 37.3' N 69° 37.2' E	Fl.W. period 5s	154 47	26	White round concrete tower, black bands; 135.	Radio beacon.
RACON				D(- • •)		Azimuth coverage 140°-300°30'.	
28290 <i>F 0401</i>	-Breakwater, head.	21° 37.0' N 69° 35.5' E	Fl.R. period 3s		5		
28296 <i>F 0398</i>	Nawadra.	21° 56.4' N 69° 13.8' E	Fl.(3)W. period 15s	180 55	26	White round concrete tower, red bands; 115.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28300 F 0396	Dwarka Point.	22° 14.4' N 68° 57.5' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	156 48	30	White square stone tower, black bands; 138.	
	RACON		G(---)		18		Azimuth coverage 273°30'-225°.
28304 F 0397	Kachchigadh.	22° 19.8' N 68° 57.9' E	Fl.(4)W. period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 8.9s	112 34	26	White round concrete tower, red bands; 98.	
	RACON		K(-•-)		10		
GULF OF KUTCH:							
28308 F 0390	-Okha Port, Samiani Island.	22° 29.3' N 69° 05.2' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	71 22	11	White round stone tower; 65.	W. 057°-217°, R.-247°, W.-260°, R.-290°, W.-009°.
28310 F 0391	-RACON	22° 28.6' N 69° 04.1' E	O(---)		15	Mast; 108.	R.Lt. on mast. Azimuth coverage 355°30'- 311°30'.
28312 F 0388	-Humani Point.	22° 28.6' N 69° 04.2' E	Fl.(3)W. period 25s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	86 26	25	White square masonry tower, red bands; 75.	
28316 F 0389	-Samiani Island, NE. reef, outer head.	22° 29.5' N 69° 05.5' E	Fl.G. period 3s	46 14	5	Trestle structure; 39.	
28320 F 0393	-Mithapur, about 10.2 meters SW. of Vomani Point.	22° 24.0' N 69° 01.0' E	F.R.	174 53	10	Building; 163.	
28324	-Ranwara Shoals Lighted Buoy.	22° 42.0' N 69° 21.0' E	Fl.R. period 10s			Red can buoy.	
28328 F 0386.5	-Chanka Reef, NW. head.	22° 32.6' N 69° 16.2' E	Q.W.	56 17	9	White round tower; 39.	
	RACON		D(-••)				
28332 F 0386	-Chanka Island 1.9 km. NNE. of island.	22° 32.8' N 69° 24.6' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	46 14	11	Gray square concrete tower; 26.	<i>Temporarily extinguished (1987).</i>
28336 F 0384	-Karumbhar Island.	22° 26.3' N 69° 35.2' E	Fl.(3)W. period 15s	89 27	19	White round stone tower; 65.	
28340 F 0383	-Path Finder Inlet No. "1".	22° 27.7' N 69° 40.2' E	Fl.(2)R. period 5s	32 10	5	Beacon.	
28344 F 0383.5	-Pathfinder Inlet No. "2".	22° 27.5' N 69° 39.2' E	Fl.(2)G. period 5s	32 10	5	Beacon.	
28348 F 0382	-Vadinar Terminal SBM.	22° 30.6' N 69° 42.1' E	Fl.R. period 3s		3		Horn. Radar reflector.
			B(-•••)		12		
28352 F 0380	-Pirothan Island.	22° 36.1' N 69° 57.2' E	Fl.W. period 20s fl. 0.4s, ec. 19.6s	62 19	24	White round masonry tower, black bands.	Radar reflector.
	RACON		K(-•-)				
28356 F 0378	-Beacon, NE. of Pirotan Island.	22° 37.0' N 69° 58.0' E	Fl.R. period 10s fl. 0.5s, ec. 9.5s	18 5	5	Metal framework beacon on stone base; 28.	
28358 F 0376	Bedi Bandar.	22° 33.0' N 70° 01.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	59 18	9	White metal framework tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28358.8 <i>F 0367.2</i>	Sathsaida Range, front.	22° 57.8' N 70° 15.9' E	Fl.W. period 3s	30 9	8		
28358.81 <i>F 0367.3</i>	-Rear. 889 meters 050°30' from front.	22° 58.1' N 70° 16.3' E	Iso.W. period 3s	39 12	8		
28359 <i>F 0367.6</i>	Kandla Creek, approach Range, front.	22° 58.3' N 70° 15.7' E	Q.R.	16 5	6	White framework tower, black bands, triangular daymark; 16.	Forms range 035°30' with common rear.
28359.3 <i>F 0367.62</i>	-Range, front.	22° 58.3' N 70° 15.7' E	Q.W.	16 5	8		In line 037°30' with common rear.
28359.5 <i>F 0367.61</i>	--Common rear.	22° 58.7' N 70° 15.9' E	Iso.R. period 1.5s	43 13	7	White framework tower, triangular daymark, black bands; 36.	
 -Rozi (Rojhi):							
28360 <i>F 0374</i>	--Kalvan.	22° 35.6' N 70° 02.8' E	Fl.W. period 8s fl. 1.5s, ec. 6.5s	28 9	8	White masonry tower, black bands; 26.	
28366 <i>F 0367.8</i>	-Mungra Reef.	22° 45.6' N 70° 11.0' E	Fl.(2)W. period 15s	23 7	10	Beacon.	
28368 <i>F 0368</i>	-Jodiya Bandar.	22° 43.5' N 70° 16.7' E	Fl.W. period 10s	52 16	12	Masonry tower; 33.	Visible 341°-251°.
28372 <i>F 0371</i>	Gudaba Creek.	22° 56.0' N 70° 26.0' E	Fl.(2)W. period 20s	40 12	8	Metal framework tower.	
28376 <i>F 0370</i>	-Navlakhi Island, NW. head.	22° 57.7' N 70° 26.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	81 25	12	White framework tower, orange bands; 77.	
 -RACON							
28380 <i>F 0366</i>	-Tekra.	22° 55.5' N 70° 07.3' E	Fl.W. period 7s fl. 0.3s, ec. 6.7s	55 17	17	Metal column on black masonry tower, white stripes; 47.	
28392 <i>F 0367</i>	-Kandla AVIATION LIGHT.	23° 08.0' N 70° 06.0' E	AI.FI.W.G. period 5s	129 39		Control tower; 92.	Occasional.
28396 <i>F 0362</i>	-Navinor Point.	22° 43.8' N 69° 42.4' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	80 24	23		Marine control tower.
28400 <i>F 0364</i>	-Mundra New Port.	22° 46.0' N 69° 43.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	18 5	5	Square concrete column; 24.	
28404 <i>F 0360</i>	-Raval Pir.	22° 49.0' N 69° 23.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	60 18	6	Square concrete tower; 31.	
 MANDVI:							
28408 <i>F 0358</i>	-Breakwater, head.	22° 49.0' N 69° 20.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	25 8	6		
28411 <i>F 0357</i>	-Mandvi.	22° 49.6' N 69° 20.9' E	Fl.(3)W. period 30s fl. 1s, ec. 5s fl. 1s, ec. 5s fl. 1s, ec. 17s	92 28	21	Trestle tower, red and white bands; 72.	
 -RACON							
G(- - •)							

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28416 <i>F 0356</i>	-Chachi.	22° 57.0' N 69° 00.0' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	106 32	24	White masonry tower, black bands; 102.	Radar reflector.
28420 <i>F 0355</i>	-Jakhau.	23° 14.3' N 68° 36.6' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	150 46	18	Red and white checkered round concrete tower; 135.	
-RACON		M(—)					

Section 18

Pakistan, Gulf of Oman and Persian Gulf

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAKISTAN							
28422 D 7800	Turshian.	24° 04.6' N 67° 24.0' E	Fl.(3)W. period 20s	151 46	20		
PORT MUHAMMAD BIN QASIM:							
28424 D 7760	-Khuddi Island.	24° 33.5' N 67° 13.1' E	Fl.(4)W. period 30s	132 40	14	White round concrete tower, black bands.	
28427 D 7760.09	-Ahsan Channel Range, front.	24° 38.2' N 67° 06.5' E	Q.W.	39 12	11	Black metal pipe with platform.	
28428 D 7761	--Rear, about 2600 meters 032°26' from front.	24° 39.4' N 67° 07.3' E	Oc.W.	102 31	16	Black metal pipe.	Visible 029°54'-034°54'.
	--RACON		D(-••)		15		Azimuth coverage 340°-085°.
28436 D 7761.5	-Bundal Island, No. "4".	24° 41.3' N 67° 08.4' E	Fl.Y. period 4s	33 10	5	Black metal pipe with platform.	
28440 D 7763	--No. "6".	24° 43.3' N 67° 08.7' E	Fl.(2)Y. period 8s	33 10	4	White round tower.	
28441 D 7763.1	-Phitti Creek Range, front.	24° 43.6' N 67° 09.1' E	Q.W.	26 8	5	Black metal pipe with platform.	
28441.1 D 7763.11	--Rear, about 700 meters 010°21' from front.	24° 44.0' N 67° 09.1' E	Iso.W. period 4s	66 20	6	Black metal pipe with platform.	
28442 D 7763.5	-Kunni Range, front.	24° 45.6' N 67° 12.3' E	Q.W.	26 8	5	Black metal pipe with platform.	
28442.1 D 7763.51	--Rear, about 1100 meters 056°22' from front.	24° 45.9' N 67° 12.8' E	Fl.W. period 4s	66 20	6	Black metal pipe with platform.	
28444 D 7764	-Qutub Point, No. "8".	24° 46.9' N 67° 13.7' E	Fl.(2)Y. period 6s	33 10	4	White round tower.	
28445 D 7763.9	-Hasan Point, No. "7".	24° 46.8' N 67° 14.1' E	Iso.Y. period 4s	33 10	5	Black metal pipe, green top with platform.	
28446 D 7763.91	-No. "8A".	24° 47.1' N 67° 14.2' E	F.W.	33 10	1	Black metal pipe, red top with platform.	
28448 D 7765	-Mazhur Point, No. "9".	24° 46.6' N 67° 17.4' E	Fl.Y. period 5s	33 10	4	White round tower.	
28452 D 7766	-Ganglaro Creek, No. "10".	24° 47.0' N 67° 17.7' E	Fl.(2)Y. period 6s	33 10	4	White round tower.	
28456 D 7767	-Aziz Point, No. "11".	24° 46.2' N 67° 18.1' E	Fl.Y. period 7s	33 10	4	White round tower.	
28460 D 7768	-Marginal Wharf, No. "12".	24° 46.3' N 67° 19.4' E	Fl.Y. period 3s	33 10	4	White round tower.	
28464 D 7769	--No. "14".	24° 46.1' N 67° 19.7' E	Oc.Y. period 5s	33 10	4	White round tower.	
28468 D 7770	-Gharo Creek, No. "15".	24° 46.1' N 67° 20.9' E	Fl.(3)Y. period 15s	33 10	4	White round tower.	
KARACHI HARBOR:							
28472 D 7750	-Manora Point.	24° 47.6' N 66° 58.7' E	Fl.W. period 7.5s fl. 0.3s, ec. 7.2s	156 48	26	Round tower, red and white bands; 124.	Storm signals. Signal station. Aero Radiobeacon 11.5 miles ENE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAKISTAN							
28476 <i>D 7751</i>	-Karachi Range, front.	24° 47.0' N 67° 00.0' E	Iso.W. period 2s	39 12	14	Framework tower.	
28480 <i>D 7751.1</i>	--Rear, 840 meters 040° from front.	24° 47.6' N 66° 59.9' E	Oc.W. period 7s lt. 5s, ec. 2s	66 20	14	Framework tower.	
28488 <i>D 7752</i>	-Bara Andai.	24° 47.9' N 66° 59.9' E	Fl.(2)W.R. period 8s	114 35	6	White square building; 15.	R. 335°-031°, W.-094°.
28492 <i>D 7756</i>	-Pundit AVIATION LIGHT.	24° 52.8' N 66° 56.5' E	Mo.(MA)R. period 6s	46 14	12		Aero Radiobeacon 2.8 miles N.
28496 <i>D 7753</i>	-Breakwater, head.	24° 47.1' N 66° 58.9' E	Fl.W. period 8s	50 15	12		
28497	-Training wall.	24° 50.0' N 66° 58.0' E	Fl.W. period 10s	16 5			
28500 <i>D 7745</i>	Ras Muari.	24° 49.6' N 66° 39.8' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 6.9s	162 49	25	Concrete tower, black and white bands; 168.	Visible 277°-138°.
28504 <i>D 7742</i>	Ormara.	25° 11.3' N 64° 41.4' E	Fl.(2)W. period 20s	746 227	19	Gray metal framework tower on white base; 26.	
28508 <i>D 7740</i>	Astola Island.	25° 07.3' N 63° 50.5' E	Fl.W. period 15s	292 89	19		
28512	Pasni.	25° 12.5' N 63° 29.3' E	Fl.(3)W. period 30s		17		
28516 <i>D 7734</i>	Gwadar.	25° 06.1' N 62° 20.8' E	Fl.(2)W. period 15s	279 85	19	Gray metal framework tower on white base; 26.	
28520 <i>D 7731</i>	Jiwani.	25° 01.9' N 61° 48.5' E	Fl.W. period 10s	459 140	19	Gray metal framework tower on white base; 26.	
28524 <i>D 7730</i>	Jiwani AVIATION LIGHT.	25° 04.3' N 61° 48.0' E	Al.Fl.W.G. period 5s	214 65		Control tower; 30.	Aero Radiobeacon.
28526 <i>D 7725</i>	-Damagheh-ye Pas Bandar.	25° 03.8' N 61° 25.4' E	Fl.(2)W. period 15s	49 15	12	Framework tower.	
GULF OF OMAN							
IRAN:							
28528	-Ra's e Bris Buoy.	25° 09.0' N 61° 09.0' E	Fl.(2)W. period 10s				Marks anchorage.
28532 <i>D 7720</i>	-Ra'se Chah Bahar.	25° 16.8' N 60° 36.8' E	Fl.W. period 10s	9	Framework tower; 29.		Red lights on radio mast 1 mile E.
-RACON							
			O(---)				
28536 <i>D 7719</i>	-Ra's Kuhlab.	25° 17.0' N 60° 28.0' E	Fl.(2)W. period 15s	99 30	10	Beacon.	
28540 <i>D 7713</i>	Jask.	25° 38.3' N 57° 45.8' E	Fl.(2)W. period 14s	105 32	16	Red metal framework tower.	
28540.5 <i>D 7714</i>	--Breakwater.	25° 39.0' N 57° 45.8' E	Fl.(3)G. period 10s	23 7	5	Beacon.	
28544 <i>D 7712</i>	Kuh-e Mubarak.	25° 50.2' N 57° 18.5' E	Fl.W. period 12s	144 44	20	Metal framework tower; 66.	
RACON							
			O(---)				
28548 <i>D 7711</i>	-Bandar-e Sirik.	26° 30.1' N 57° 05.5' E	Fl.(3)W. period 20s	125 38	28	Beacon, red round daymark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
OMAN:							
28552 D 7335	-Didamar.	26° 28.6' N 56° 32.3' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 8s	196 60	40	White framework tower; 79.	Light and Racon obscured by As Salamah Island 133°-142° and Fanaku Island 156°- 160°45'.
	-RACON		Q(--•--)		25		(3 & 10cm) Obscured by lighthouse 000°- 012°.
UNITED ARAB EMIRATES:							
28556 D 7333	-Diba, E. breakwater.	25° 38.0' N 56° 19.0' E	Oc.R. period 2.5s	42 13	9	Post.	
28556.2 D 7334	--W. breakwater.	25° 38.0' N 56° 19.0' E	Fl.G. period 5s	30 9	5	Post.	
28556.4 D 7334.4	--Fishing harbor, main breakwater.	25° 37.1' N 56° 16.5' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	24 7	5	Framework tower; 10.	
28556.6 D 7334.5	--Lee breakwater.	25° 37.1' N 56° 16.5' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	19 6	5	Framework tower; 10.	
28558 D 7332.3	-Jabal Dadnah.	25° 31.4' N 56° 21.9' E	Q.R.				Red and white framework structure; 121.
28560 D 7332	-Lulayah, E. breakwater.	25° 23.0' N 56° 22.0' E	Fl.R. period 5s	16 5	5	Post.	
28564 D 7331	-Khawr Fakkan, Container Terminal, N. head.	25° 21.5' N 56° 21.9' E	Q.R.				
28565	--Approach Buoy	25° 22.7' N 56° 22.7' E	Iso.W. period 10s			SAFE WATER RW, pillar.	
	-RACON		K(--•--)				(3 & 10cm)
28566 D 7330	-Murbah, E. breakwater.	25° 15.0' N 56° 22.0' E	Fl.W. period 5s	16 5	5	Post.	
28568 D 7329	-Fujairah.	25° 10.8' N 56° 21.0' E	Fl.W. period 5s	308 94	22		
28570 D 7329	--Tower.	25° 11.3' N 56° 20.4' E	2 Fl.W. period 2s	404 123	30		Strobe.
28572 D 7329.2	-348°.	25° 11.1' N 56° 21.9' E	Dir.F.W.R.G.	49 15	8	Concrete pedestal; 3.	G. 341°30'-346°30', W.- 349°30', R.-351°30.
28576 D 7329.4	-N. breakwater.	25° 10.5' N 56° 22.1' E	Fl.G. period 3s	46 14	8	Green tower, white bands; 13.	
	-RACON		T(--)		15		(3 & 10cm)
28580 D 7329.3	-S. breakwater.	25° 10.6' N 56° 21.9' E	Fl.R. period 3s	46 14	8	Red tower with white bands; 13.	
28584 D 7328	-Gurah, jetty, head.	25° 07.9' N 56° 21.4' E	Fl.R. period 5s	16 5	5		
28586 D 7327	-Kalba, fishing harbor, outer breakwater, head.	25° 05.0' N 56° 22.0' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	16 5	5		
28587 D 7326.5	Shinas.	24° 44.9' N 56° 28.5' E	Fl.R. period 5s	19 6	5	Metal post; 10.	
28587.5 D 7326.6	--N. breakwater.	24° 44.8' N 56° 28.4' E	Fl.G. period 5s	13 4	5	Metal post; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
28588 <i>D 7326</i>	-Sohar, jetty, N. head.	24° 29.2' N 56° 38.7' E	F.I.R.	19 6	5	Black post, white square daymark; 6.	Visible 321°-141°. Fl.R. 6m 5M on SE. dolphin.
28589 <i>D 7325.9</i>	--AVIATION LIGHT.	24° 19.0' N 56° 43.0' E	Fl.W. period 3s	361 110	25	Mast; 197.	
			4 F.R. (vert.)				15 meters apart.
28590 <i>D 7324.4</i>	Wudam, N. breakwater, head.	23° 49.8' N 57° 32.1' E	L.FI.W. period 10s fl. 2s, ec. 8s	33 10	6	Metal pedestal; 11.	Fl.G. and Fl.R. beacons mark entrance channel.
RACON		T(-)		25			
28590.2 <i>D 7324.5</i>	--204°.	23° 49.1' N 57° 32.1' E	Dir.Iso.W.R.G. period 2s	43 13	3	Black pile, orange diamond daymark.	G. 202°48'-204°06', W.-205°24', R.-208°.
28590.4 <i>D 7325.2</i>	--270°.	23° 49.8' N 57° 31.5' E	Dir.Iso.W.R.G. period 2s	43 13	3	Black pile, orange diamond daymark.	G. 267°30'-268°48', W.-270°48', R.-271°42'.
28592 <i>D 7324</i>	-Jaza'ir Daymaniyat.	23° 51.3' N 58° 04.0' E	Fl.W. period 10s	102 31	15	Metal framework tower.	
-RACON		M(-)		25			(3 & 10cm)
28596 <i>D 7323</i>	-Bayt al Barakat, jetty.	23° 43.0' N 58° 05.5' E	F.R.			Metal post.	
28598 <i>D 7322.5</i>	-Ghubrah, Desalination Plant.	23° 36.6' N 58° 24.7' E	Q.W.	16 5	5	N. CARDINAL BY, column, topmark.	
28600 <i>D 7322</i>	-Jazirat Al Fahl.	23° 40.8' N 58° 30.0' E	Fl.W. period 15s	313 95	7	Metal framework structure, white triangular daymark; 21.	
28604.4 <i>D 7322.25</i>	--Breakwater.	23° 38.3' N 58° 30.6' E	Iso.G. period 2s	29 9	3	Metal post; 10.	
28605 <i>D 7321.6</i>	-Port Sultan Qaboos, breakwater, head.	23° 37.7' N 58° 34.3' E	Fl.W. period 5s	30 9	9	Red mast, yellow stripes.	R. Lt. on Riyam tower 830 meters SE. R. Lts. on radio mast 0.88 mile SE.
28605.2 <i>D 7321.7</i>	--Jetty, head, NE. corner.	23° 37.6' N 58° 34.2' E	F.R.	7 2	2		
28605.3 <i>D 7321.72</i>	--SW. corner.	23° 37.5' N 58° 34.1' E	F.G.	7 2	2		
28605.5 <i>D 7321.74</i>	--Berth No. "11".	23° 37.4' N 58° 34.0' E	F.R.	7 2	2		Can be obscured by background shore lights.
28605.7 <i>D 7321.76</i>	--Ship lift.	23° 37.4' N 58° 33.9' E	F.G.	7 2	2		F.G. 2M marks ship lift close NNW.
28608 <i>D 7320</i>	-Masqat, N. summit.	23° 37.6' N 58° 35.8' E	Fl.W. period 12s fl. 1s, ec. 11s	312 95	14	White square tower, metal lantern; 10.	Visible 042°-304°. R. Lt. on TV mast 3 miles SW.
-RACON		N(-)		25			
28609 <i>D 7319</i>	-Sidab, breakwater.	23° 36.0' N 56° 36.0' E	F.R.	20 6	5	White post; 10.	
28609.2 <i>D 7319.2</i>	--Ship lift.	23° 36.0' N 56° 35.9' E	F.G.	20 6	5	White post; 10.	
28610 <i>D 7318.4</i>	-Bandar Al Rowdha, E. breakwater.	23° 35.1' N 58° 36.5' E	Fl.(2)R. period 5s	30 9	5	Metal post; 7.	
28610.2 <i>D 7318.5</i>	--N. breakwater.	23° 35.0' N 58° 36.4' E	Fl.(4)G. period 15s	23 7	3	Metal post; 3.	
28612 <i>D 7318.2</i>	-Qurayat, S. breakwater.	23° 16.0' N 58° 55.9' E	Iso.R.	23 7	5		
28612.2 <i>D 7318.22</i>	--N. breakwater.	23° 16.1' N 58° 55.9' E	Iso.G.	23 7	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
28612.4 <i>D 7318.24</i>	--Groin.	23° 16.4' N 58° 55.5' E	Q.(3)W. period 10s	16 5	5		
ARABIAN SEA AND GULF OF ADEN							
28613 <i>D 7315.4</i>	Dawhat Sawqirah, Lakbi.	18° 11.0' N 56° 33.0' E	Fl.W. period 10s	39 12	8	Red metal post; 20.	
28618 <i>D 7318.1</i>	Sur, Ra's Ayqah.	22° 34.1' N 59° 32.4' E	Fl.W. period 5s	65 20	10		Visible 122°-268°.
GULF OF OMAN							
28618.2 <i>D 7318.13</i>	-Fishery Harbor, N. breakwater.	22° 34.8' N 59° 32.0' E	Q.G.	43 13	6		
28618.4 <i>D 7318.14</i>	--E. breakwater.	22° 34.7' N 59° 31.8' E	Fl.R. period 5s	39 12	6		
PERSIAN GULF							
28620 <i>D 7710</i>	Khowr-e Minab approach.	27° 05.0' N 56° 48.2' E	Fl.W. period 3s	7 2	7	Beacon.	
28624 <i>D 7709</i>	Bandar 'Abbas, E. breakwater.	27° 07.8' N 56° 12.4' E	Iso.G. period 4s	20 6		Green tower.	
28628 <i>D 7709.2</i>	-W. breakwater.	27° 07.7' N 56° 12.1' E	Iso.R. period 4s	20 6		Red tower.	
28632 <i>D 7709.4</i>	-Entrance Range, front.	27° 09.4' N 56° 12.2' E	Q.W.		5	Red, white and blue metal framework tower; 33.	
28636 <i>D 7709.41</i>	--Rear, 500 meters 000° from front.	27° 09.6' N 56° 12.2' E	Iso.W. period 4s			Red, white and blue metal framework tower; 49.	
28640 <i>D 7709.7</i>	-Inner Harbor, E. side.	27° 08.3' N 56° 12.3' E	Fl.G. period 5s	10 3		Gray metal structure.	
28644 <i>D 7709.6</i>	--W. side.	27° 08.3' N 56° 12.2' E	Q.R.	10 3		Gray metal structure.	
SHAHID RAJA'I:							
28647 <i>D 7707</i>	-Entrance Range, front.	27° 05.8' N 56° 02.4' E	Oc.W. period 4s	79 24	12		
28647.1 <i>D 7707.1</i>	--Rear, 2130 meters 284° from front.	27° 06.0' N 56° 01.2' E	Oc.W. period 4s	144 44	12		
28647.5 <i>D 7707.5</i>	Hormozgan Terminal.	27° 07.3' N 56° 05.4' E	Dir.Iso.W.R.G. period 2s	108 33	15		G. 270°18'-271°18', W.-272°42', R.-273°42'.
-RACON							
28648 <i>D 7708</i>	-E. breakwater, head.	27° 05.4' N 56° 04.3' E	Fl.G. period 3s			Framework tower.	
28652 <i>D 7708.2</i>	-W. breakwater, head.	27° 05.2' N 56° 04.2' E	Fl.R. period 2s			Framework tower.	
28656 <i>D 7708.4</i>	-E. inner breakwater, head.	27° 05.5' N 56° 04.1' E	Fl.(3)G. period 5s			Framework tower.	
28660 <i>D 7708.5</i>	-W. inner breakwater, head.	27° 05.3' N 56° 03.9' E	Fl.R. period 7s			Framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28668 <i>D 7337</i>	Jazireh-ye Larak.	26° 51.6' N 56° 21.5' E	Fl.(2)W. period 12s		9	Metal framework tower and round white building; 98.	
RACON							
28676 <i>D 7338</i>	Ramchah, E. breakwater.	26° 54.2' N 56° 10.1' E	Fl.(3)G. period 12s	23 7			
28680 <i>D 7338.2</i>	-W. breakwater.	26° 54.1' N 56° 10.2' E	Fl.(3)R. period 12s	23 7			
28684 <i>D 7339</i>	Jazireh-ye Hengam.	26° 37.8' N 55° 54.1' E	Fl.W. period 10s	99 30	9	Square metal tower concrete base; 15.	Visible 173°-014°.
RACON							
28686 <i>D 7340.2</i>	Ghabnat Karban, breakwater.	26° 22.0' N 56° 21.8' E	Fl.W. period 5s	7 2	3	Green metal post.	Radar reflector.
28687 <i>D 7340.4</i>	-Jetty, NE.	26° 22.0' N 56° 21.7' E	L.FI.R. period 10s fl. 3s, ec. 7s	23 7	3	Gray metal post.	
28687.2 <i>D 7340.5</i>	--SW.	26° 22.0' N 56° 21.7' E	L.FI.R. period 10s fl. 3s, ec. 7s	23 7	3	Gray metal post.	
28688 <i>D 7340</i>	Khawr Al Quway.	26° 21.9' N 56° 21.6' E	Fl.W. period 3s	7 2	3	Green metal post.	
28690 <i>D 7334.8</i>	Bukha, N. breakwater.	26° 09.0' N 56° 08.8' E	Iso.G period 2s	23 7	5	Steel post; 10.	
28690.1 <i>D 7334.85</i>	-E. breakwater.	26° 09.0' N 56° 08.8' E	Iso.R. period 2s	23 7	5	Steel post; 10.	
28692 <i>D 7341</i>	Al Jeeb, breakwater.	26° 03.0' N 56° 05.0' E	Fl.(2)Y. period 10s	21 6	5		Fishing light.
28696 <i>D 7344</i>	Ghalilah, breakwater.	26° 00.0' N 56° 04.0' E	Fl.(3)Y. period 15s	21 6	5		Fishing light.
28700 <i>D 7342</i>	Sha'am, breakwater.	26° 02.0' N 56° 05.0' E	Fl.Y. period 5s	21 6	5		Fishing light.
28704 <i>D 7346</i>	Rams, N. Training Wall.	25° 53.0' N 56° 00.0' E	Fl.(3)R. period 15s	21 6	5		Fishing light.
28708 <i>D 7346.2</i>	-S. Training Wall.	25° 53.2' N 56° 00.3' E	Fl.G. period 5s	21 6	5		Fishing light.
28715 <i>D 7348</i>	Ras al Khaymah, boat harbor.	25° 46.1' N 55° 54.8' E	Q.W.		2		R. Lts. on tower 3 miles NE.
28716 <i>D 7349</i>	Jazirat Al Hamra.	25° 43.4' N 55° 47.9' E	Fl.W. period 7s	13 4	6		
28720 <i>D 7350</i>	Umm al Qaywayn, breakwater, head.	25° 36.5' N 55° 34.6' E	Fl.Y. period 5s	16 5	6		Lighted beacons mark entrance channel.
28724 <i>D 7703</i>	Jazireh-ye Tonb-e Bozorg.	26° 16.1' N 55° 17.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	246 75	10	White metal pile tower; 71.	Obscured 077°-080° by peak on Jazireh-ye-Tonb-e Kuchek
RACON							
28728 <i>D 7701</i>	Basa i du.	26° 39.3' N 55° 15.8' E	Fl.(2)W. period 10s		8		
28732 <i>D 7700</i>	Ras Dastakan.	26° 32.5' N 55° 17.0' E	Fl.(3)W. period 12s	40 12	7	White structure.	
28740 <i>D 7704</i>	Jazireh-ye Tonb-e Kuchek.	26° 14.5' N 55° 08.8' E	Fl.(2)W. period 15s	82 25	8	White structure.	
28742 <i>D 7705.6</i>	Abu Musa Light float.	25° 59.0' N 55° 01.0' E	Fl.W. period 12s		12	Yellow hull.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28744 <i>D 7706</i>	Jazirat Abu Musa.	25° 53.0' N 55° 02.0' E	Fl.W. period 8s	427 130	9		
28756 <i>D 7699</i>	Lingeh, E. breakwater.	26° 33.0' N 54° 53.0' E	Fl.G. period 5s	30 9	8	Green triangular daymark.	
28760 <i>D 7699.2</i>	-W. breakwater.	26° 33.0' N 54° 53.0' E	Fl.R. period 5s	30 9	10	Red square daymark.	
28764 <i>D 7698</i>	Bostaneh.	26° 30.5' N 54° 36.5' E	Fl.W. period 10s	95 29	10	Red and white banded structure.	
28768 <i>D 7695</i>	Jazireh-ye Forur.	26° 17.5' N 54° 30.5' E	Fl.(2)W. period 10s	558 170	12	White metal framework tower, red bands, 56.	2 F.R. on radio mast 26 miles NE.
RACON		M(--)					
28772 <i>D 7696</i>	Jazireh-ye Bani Forur.	26° 07.0' N 54° 26.7' E	Fl.W. period 5s	146 44	8		
28776 <i>D 7697</i>	Jazireh-ye Sirri.	25° 54.3' N 54° 33.1' E	Fl.(3)W. period 15s	100 30	10		Aero Radiobeacon about 900 meters SSW.
28784 <i>D 7697.2</i>	Jazireh-ye Sirri, E. breakwater.	25° 53.0' N 54° 32.0' E	Fl.(2)G. period 10s	19 6	5		
28788 <i>D 7697.4</i>	Jazireh-ye Sirri, W. breakwater.	25° 53.6' N 54° 32.2' E	Fl.(2)R. period 10s	19 6	5		
28792 <i>D 7692</i>	Jazireh-ye Kish.	26° 30.6' N 53° 58.8' E	Fl.(3)W. period 7s	128 39	15	Red and white framework tower.	
RACON		O(---)					
28796 <i>D 7692.4</i>	-Breakwater, E. side.	26° 31.0' N 53° 56.0' E	Fl.G. period 5s	20 6	5		
28800 <i>D 7692.5</i>	-Breakwater, W. side.	26° 34.0' N 54° 00.1' E	Fl.R. period 5s	20 6	5		
28800.5 <i>D 7692.2</i>	-Dih, W. breakwater, head.	26° 33.7' N 53° 59.8' E	Fl.G. period 5s				
28801 <i>D 7692.3</i>	--E. breakwater, head.	26° 33.7' N 53° 59.9' E	Fl.R. period 5s				
28802	-Masheh Lightfloat.	26° 34.0' N 54° 01.8' E	Iso.W. period 2s			Yellow hull.	Radar reflector.
28804 <i>D 7690</i>	Bandar-e Chiru.	26° 41.8' N 53° 44.0' E	Fl.W. period 5s		8	Concrete column; 7.	
28808 <i>D 7691</i>	Jazireh-ye Hendorabi.	26° 40.0' N 53° 39.0' E	Fl.(3)W. period 10s	190 58	10	Beacon.	
28812 <i>D 7689</i>	Ra's-e Nakhilu.	26° 51.5' N 53° 29.4' E	Fl.(3)W. period 18s	26 8	10	Beacon.	
28816 <i>D 7685</i>	Jazireh-ye Lavan.	26° 48.2' N 53° 21.4' E	Fl.(3)W. period 12s	177 54	15	Lattice tower.	F.R. on radio tower close NW.
28820 <i>D 7685.4</i>	-Main.	26° 48.4' N 53° 19.2' E	Oc.R. period 3s	405 123	20	Radio tower; 328.	
2 F.R.							
28824	-At boat harbor breakwater.	26° 48.0' N 53° 23.0' E	Fl.R. period 10s		5		
28832 <i>D 7686</i>	-Pipeline Range, front.	26° 47.7' N 53° 20.2' E	F.R.	112 34	12	Metal framework tower.	Visible 356°37'-006°37'.
28836 <i>D 7686.1</i>	--Rear, 850 meters 001°37' from front.	26° 48.1' N 53° 20.2' E	F.R.	185 56	12	Metal framework tower.	Visible 356°37'-006°37'.
28840 <i>D 7686.3</i>	-Range, front.	26° 47.6' N 53° 20.4' E	F.R.		12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28844 <i>D 7686.31</i>	--Rear, 680 meters 055° from front.	26° 47.8' N 53° 20.7' E	F.R.		12		Visible 051°-061°.
28848 <i>D 7686.5</i>	-Oil loading dock Range, front.	26° 47.6' N 53° 19.7' E	Q.R.		White post.		F.R. (occas) marks head and elbow of dock.
28852 <i>D 7686.51</i>	--Rear, about 230 meters 303°48' from front.	26° 47.7' N 53° 19.6' E	Q.W.		White post.		
28856 <i>D 7685.6</i>	-Cargo ship anchorage Range, front.	26° 47.7' N 53° 22.6' E	Q.R.				
28860 <i>D 7685.61</i>	--Rear, about 222 meters 325°44' from front.	26° 47.8' N 53° 22.6' E	Q.W.				
28864 <i>D 7688</i>	Jazireh-e Shitvar.	26° 47.3' N 53° 24.4' E	Fl.(2)W. period 10s		10	White beacon.	
28868 <i>D 7684</i>	<i>Stiffe Bank Lightfloat.</i>	26° 25.0' N 53° 08.6' E	Fl.(2)W. period 10s	39 12	10	ISOLATED DANGER BRB.	
28872 <i>D 7682</i>	<i>Cable Bank Lightfloat.</i>	26° 46.5' N 52° 31.9' E	Fl.(2)W. period 10s	49 15	8	Red hull.	Riding light Q.W.
28875	Al Shaheen Oilfield, Platform "AS-AB".	26° 35.5' N 52° 00.1' E	Mo.(U)W. period 15s				
	RACON		U(• • -)				
28875.2	-Platform "AS-BA".	26° 38.2' N 51° 57.0' E	Mo.(U)W. period 15s				
	-RACON		B(- • •)				
28875.4	-Platform "AS-CA".	26° 35.0' N 51° 55.5' E	Mo.(U)W. period 15s				
	-RACON		C(- • - •)				
28876 <i>D 7683</i>	Shah Allum Shoal.	26° 25.4' N 52° 29.9' E	Fl.(2)W. period 10s	115 35	12	Framework tower on platform, on piles.	Radar reflector.
	RACON		M(—) period 74s		14		
28878 <i>D 7681</i>	Bandare Shiu.	27° 04.9' N 53° 09.2' E	Fl.(3)W. period 15s	151 46	7		
28880 <i>D 7680</i>	Ra's-e Nay Band.	27° 23.0' N 52° 35.0' E	Fl.W. period 10s		15		
28884	Platform, SW. of Ra's ol Motaf.	27° 38.3' N 51° 31.2' E	Fl.R. period 5s		5	Platform.	
28888 <i>D 7677</i>	Ra's ol Motaf Lightfloat.	27° 36.3' N 51° 26.7' E	Fl.W. period 12s	49 15	9	Red hull.	Riding light Q.W. Radar reflector.
	RACON		T(-)				
28892 <i>D 7676</i>	Jabrin.	27° 51.7' N 51° 26.7' E	Fl.(3)W. period 10s		9		
28900 <i>D 7674</i>	Kalat.	28° 27.1' N 51° 07.3' E	Fl.W. period 5s	98 30	10	Beacon.	
	RACON		O(-- -)				
	BUSHEHR:						
28904 <i>D 7671</i>	-Outer Range, front, "A".	29° 01.7' N 50° 48.6' E	Iso.W. period 2s		6	Pile beacon.	Channel to Bushehr marked by lit buoys and beacons. Radar reflector.
28908 <i>D 7671.1</i>	--Rear, "B", 1,350 meters 043° from front.	29° 02.2' N 50° 49.2' E	Iso.W. period 4s		7	Pile beacon.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28916 <i>D 7664.4</i>	Jazireh-ye Khark.	29° 13.0' N 50° 19.0' E	Fl.(2)W. period 12s	295 90	17	Metal lattice tower; 46.	Obscured 151°-160° within 7 miles.
28924 <i>D 7665.2</i>	-Sea Island Terminal, S.	29° 13.0' N 50° 17.0' E	3 F.R. (vert.)				
28928 <i>D 7665.3</i>	-Sea Island Terminal N., 549 meters NNW. of S. light.	29° 13.7' N 50° 17.1' E	3 F.R. (vert.)				
28930 <i>D 7668.4</i>	-I.P.A.C. Boat Harbor, breakwater, elbow.	29° 13.2' N 50° 20.0' E	Q.W.		5		The dredged area in the harbor is marked by lights.
28940 <i>D 7666</i>	-Kharg Harbor, W. breakwater, head.	29° 16.0' N 50° 19.0' E	Fl.(3)G. period 10s				Light reported unreliable (1989).
28944 <i>D 7666.2</i>	--E. breakwater, head.	29° 15.9' N 50° 19.7' E	Fl.(3)R. period 10s				Aero Radiobeacon 0.6 mile SW.
28948 <i>D 7663</i>	Jazireh-ye Kharku, island, N. head.	29° 20.5' N 50° 21.3' E	Fl.(3)W. period 10s	59 18	10	Metal lattice tower; 51.	Obscured 011°-041° by Jazireh-ye Khark. Radar reflector.
28952 <i>D 7662</i>	Ganaveh.	29° 35.3' N 50° 29.8' E	Fl.W.R. period 5s	56 17	W. 10 R. 8	Metasl lattice tower; 51.	R. 021°-031°, W.-021°. Aeromarine light.
28956 <i>D 7648</i>	Khowr-E Musa Lightfloat.	29° 37.1' N 49° 34.7' E	Fl.W. period 12s	35 11	11	Red hull and framework tower.	Fl.W. 5s anchor light. Radar reflector.
RACON							
28957 <i>D 7649</i>	-No. "2" Lightfloat.	29° 40.6' N 49° 29.2' E	Fl.R. period 6s			Red hull.	
28957.5	-Buoy No. "9".	29° 55.0' N 49° 09.8' E	Fl.G. period 3s			STARBOARD (A) G, pillar.	
-RACON							
M(--)							
MARJAN/ZULUF TSS							
28958 <i>D 7567</i>	-Oilfield North Approach Buoy.	28° 32.0' N 49° 30.2' E	L.Fl.W. period 15s			SAFE WATER RW, pillar, topmark.	
-RACON							
28959 <i>D 7612</i>	-Oilfield South Approach Buoy.	28° 15.0' N 49° 18.6' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
-RACON							
G(--•)							
SHATT AL ARAB:							
28972 <i>D 7611</i>	-Survey tower No. "5".	29° 46.1' N 48° 47.6' E	Fl.G. period 3s	23 7	3	Square column on 3-pile structure.	Fl.W. and F.R. lights mark Al Bakr Terminal 5.2 miles S.
28976 <i>D 7612</i>	-No. "2" Beacon.	29° 48.0' N 48° 45.0' E	Fl.G. period 6s				
28980 <i>D 7613</i>	-Deep Water Terminal.	29° 47.0' N 48° 49.0' E	Fl.W. period 5s	154 47	14	Radio tower on pile structure.	4 F.R. mark corners of terminal.
28992 <i>D 7621</i>	-E. Approach Beacon.	29° 54.0' N 48° 44.1' E	Fl.W. period 4s	18 5	2	Black framework topmark on pile structure.	
28996 <i>D 7616</i>	-Outer Bar Reach Range, front, Beacon "B".	29° 51.1' N 48° 45.1' E	Q.W.	18 5	6	Beacon, white triangular daymark, point up.	Reported destroyed (1993).
29000 <i>D 7616.1</i>	--Rear Beacon "A", 1463 meters 121° from front.	29° 50.7' N 48° 45.9' E	F.W.	55 17	13	Beacon, black triangular daymark, point up.	Intensified 118°-124°. Reported destroyed (1993).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
-Rooka Channel:							
29004 <i>D 7623</i>	-Inner Bar Range, front.	29° 53.0' N 48° 42.0' E	Q.W.	18 5	6	Pile structure, white triangular daymark on column.	Visible 119°-299°.
			Q.G.			Same structure, at base.	
29008 <i>D 7623.1</i>	--Rear, 0.8 mile 123°50' from front.	29° 52.3' N 48° 42.6' E	F.W.	55 17	5	Black framework tower, black triangular daymark.	Visible 120°-130°.
29012 <i>D 7615</i>	--Turning beacon.	29° 52.1' N 48° 43.6' E	I.Q.Y. period 8s	18 5	4	White column, black bands, on piles.	<i>Reported destroyed (1993).</i>
29016 <i>D 7618</i>	--Beacon No. "4", S. side of channel.	29° 53.0' N 48° 44.0' E	Fl.W. period 4s fl. 1s, ec. 3s	18 5	5	Red pile structure.	
29020 <i>D 7619</i>	-Beacon No. "5".	29° 53.0' N 48° 43.0' E	Fl.W. period 6s fl. 1s, ec. 5s	18 5	6	Black pile structure.	
29024 <i>D 7622</i>	--W. Channel Range, front.	29° 53.0' N 48° 42.0' E	Q.W.	18 5	6	Beacon, white triangular daymark, point up.	Visible 303°-309°.
29028 <i>D 7622.1</i>	--Rear, 549 meters 306° from front.	29° 53.9' N 48° 41.2' E	Oc.W. period 8s lt. 6s, ec. 2s	25 8	10	Beacon, white round daymark.	Visible 303°-309°.
29032 <i>D 7614</i>	Outer Bar Reach Range, front, Beacon "C".	29° 52.9' N 48° 42.0' E	Q.W.	18 5	6	Pile beacon, white triangular daymark, point up.	<i>Reported destroyed and replaced by buoy showing Q.W.</i>
29036 <i>D 7614.1</i>	--Beacon "D", rear, about 1512 meters 304° from front.	29° 53.3' N 48° 41.3' E	Oc.W. period 8s lt. 5s, ec. 3s	55 17	9	Pile beacon, black triangular daymark, point up.	
29044 <i>D 7620</i>	-Rooka Inner Beacon.	29° 54.2' N 48° 38.3' E	Fl.W. period 4s	18 5	11	Black framework tower on pile, black triangular daymark, point down.	Visible 282°-287°.
29048 <i>D 7617</i>	-Outer Bar Reach Range, front Beacon "E".	29° 54.6' N 48° 38.6' E	Q.W.	18 5	6	Pile structure beacon, white triangular daymark, point up.	
29052 <i>D 7617.1</i>	--Rear Beacon "F", about 1509 meters 301° from front.	29° 55.0' N 48° 37.8' E	Oc.W. period 8s	55 17	8	Pile structure, white round daymark.	Visible 028°-304°.
29052			Fl.(2)G. period 11s			Same structure, at base.	
29056 <i>D 7624</i>	-Inner Bar Reach Range, front.	29° 56.7' N 48° 34.9' E	Q.W.	19 6	6	White round columns, pile structure, triangular daymark.	Visible 259°-349°.
29060 <i>D 7624.1</i>	--Rear, 640 meters 303°50' from front.	29° 57.1' N 48° 34.4' E	Oc.W. period 8s lt. 6s, ec. 2s	50 15	11	White framework tower, black daymark, on pile.	Visible 294°-314°.
29064 <i>D 7625</i>	--Tide gauge and control tower.	29° 56.0' N 48° 35.0' E	Q.R.	20 6	2		
29068 <i>D 7626</i>	-Outer Fao Reach Range, front.	29° 56.0' N 48° 36.0' E	Q.W.	15 5	6	Round black pedestal on wooden piles, surmounted by a lantern.	Visible 062°-152°.
29072 <i>D 7626.1</i>	--Rear, 1097 meters 107° from front.	29° 56.1' N 48° 36.8' E	Oc.W. period 8s lt. 6s, ec. 2s	41 12	11		Visible 097°-117°.
29076 <i>D 7627</i>	-Fao Reach Range, front.	29° 57.0' N 48° 31.0' E	Q.Y.	10 3	4	White round beacon.	Visible 278°-286°.
29080 <i>D 7627.1</i>	--Rear, 823 meters 281°30' from front.	29° 57.6' N 48° 30.2' E	L.Fl.Y. period 7.5s fl. 2s, ec. 5.5s	33 10	4	White steel framework beacon.	Visible 278°-286°.
29084 <i>D 7630</i>	Middle Fao Reach Range, front.	29° 57.0' N 48° 32.0' E	Q.W.	12 4	5	Steel framework structure, triangular daymark.	Visible 077°-170°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29088 <i>D 7630.1</i>	--Rear, 878 meters 123° from front.	29° 57.0' N 48° 32.0' E	Oc.W. period 8s	63 19	5	White framework tower, black daymark.	Visible 120°-126°.
29092 <i>D 7629</i>	--Fao Reach (Al Faw) Range, front.	29° 58.2' N 48° 29.4' E	Q.W.	30 9	6	White framework mast.	Visible 246°-335°.
29096 <i>D 7629.1</i>	--Rear, 1653 meters 290°30' from front.	29° 58.0' N 48° 28.0' E	Oc.W.R. period 8s lt. 6s, ec. 2s	75 23	7	Black framework tower, triangular daymark.	W. 143°-150°, R.-241°, W.-294°. Traffic and tide signals.
29100 <i>D 7632.9</i>	--Range, front, 677 meters 123° from common rear.	29° 59.7' N 48° 27.3' E	Q.W.	16 5	8	White metal pile beacon, triangular daymark.	Visible 288°-318°. In line 303° with common rear.
29104 <i>D 7633</i>	-Qasbat Reach, common rear.	29° 59.9' N 48° 26.9' E	Oc.W. period 8s lt. 6s, ec. 2s	54 16	6	White framework tower, black triangular daymark.	Visible 138°-318°.
29108 <i>D 7633.1</i>	--Range, front, 347 meters 358° from common rear.	30° 00.0' N 48° 26.9' E	Q.W.	29 9	8	White metal structure, diamond daymark.	Visible 168°-188°. In line 178° with common rear.
29112 <i>D 7635</i>	--Beacon "A".	30° 00.7' N 48° 26.5' E	Q.W.R.G.	20 6	Beacon.		W. sector indicates anchorage.
29116 <i>D 7635.2</i>	--Beacon "B".	30° 01.0' N 48° 26.5' E	Q.W.R.G.	20 6	Beacon.		W. sector indicates anchorage.
29120 <i>D 7635.6</i>	--Beacon "C".	30° 01.3' N 48° 26.4' E	Q.W.R.G.	20 6	Beacon.		W. sector indicates anchorage.
29124 <i>D 7635.8</i>	--Beacon "D".	30° 01.5' N 48° 26.4' E	Q.W.R.G.	20 6	Beacon		W. sector indicates anchorage.
29128 <i>D 7637</i>	-Brick Kiln, W. side of channel.	30° 07.8' N 48° 22.8' E	Fl.W.R. period 6s	45 14	7	White steel mast, black bands.	W. 217°-224°, R.-334°30', W.-347°30', obsc.-217°.
29132 <i>D 7640</i>	-Range, front.	30° 13.0' N 48° 22.0' E	Q.W.	25 8			Visible 132°-312°.
29136 <i>D 7640.1</i>	--Rear, 732 meters 141° from front.	30° 13.2' N 48° 22.8' E	Oc.W. period 8s	80 24	10		Visible 132°-151°.
29140 <i>D 7639</i>	-W. Bank.	30° 14.5' N 48° 21.4' E	Fl.G. period 2s	17 5	5	White column, black bands on 4 pile structure.	
KHAWR 'ABD ALLAH:							
29143 <i>D 7604.4</i>	-Khawr Al Qayd, "N23".	29° 45.8' N 48° 27.0' E	Fl.(3)G. period 5s	10 3	5	STARBOARD (A) G, beacon.	
29143.1 <i>D 7604.5</i>	--"N21".	29° 47.6' N 48° 25.6' E	Fl.(2)G. period 5s	10 3	5	STARBOARD (A) G, beacon.	
29143.2 <i>D 7604.6</i>	- "N22".	29° 54.1' N 48° 17.9' E	Fl.R. period 5s	10 3	5	PORT (A) R, beacon.	
29143.3 <i>D 7604.7</i>	-"N20".	29° 56.8' N 48° 14.5' E	Fl.(2)R. period 5s	10 3	5	PORT (A) R, beacon.	
29143.4 <i>D 7604.8</i>	-"N18".	29° 58.6' N 48° 11.7' E	Fl.(3)R. period 5s	10 3	5	PORT (A) R, beacon.	
29144 <i>D 7605</i>	-Warbah Spit.	30° 00.6' N 48° 12.1' E	Q.W.	12 4		White triangular daymark, point up.	
29146 <i>K 7605.5</i>	-Khawr Bubiyan, "N16".	29° 58.0' N 48° 03.6' E	Fl.(3)R. period 5s	10 3	5	PORT (A) R, beacon.	
29146.1 <i>D 7605.4</i>	--"N17".	29° 58.6' N 48° 06.4' E	Q.W.	10 3	5	N. CARDINAL BY, beacon.	
29146.2 <i>D 7605.3</i>	--"N19".	30° 00.0' N 48° 08.2' E	Fl.Y. period 3s	10 3	5	SPECIAL Y, beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29176 <i>D 7573</i>	Al Kubr.	29° 04.2' N 48° 29.6' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	91 28	18	Lattice structure, black and white bands.	
	RACON		K(-•-)		18		(3 & 10cm)
29180 <i>D 7573.2</i>	-Beacon, about 0.8 mile NW. of Al Kubr.	29° 05.0' N 48° 29.0' E	Q.W.			N. CARDINAL BY, beacon.	
29184 <i>D 7588</i>	Awhah, Al Kuwayt Approach.	29° 23.0' N 48° 26.0' E	Fl.(3)W. period 10s	75 23	12	Steel framework tower, black and white bands; 67.	Reported extinguished (1985).
29184.3 <i>D 7589.52</i>	-SW.	29° 18.9' N 48° 24.2' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, beacon.	
29185 <i>D 7590</i>	Jazirat Faylakah, As Zawr, Boat Harbor, N. entrance, E. side.	29° 25.7' N 48° 16.3' E	Fl.R.				
29185.1 <i>D 7590.2</i>	--W. side.	29° 25.7' N 48° 16.3' E	Fl.G.				
29185.3 <i>D 7590.4</i>	--S. entrance, W. side.	29° 25.5' N 48° 16.2' E	Fl.R.				
29185.4 <i>D 7590.5</i>	--E. side.	29° 25.6' N 48° 16.3' E	Fl.G.				
29186 <i>D 7591</i>	-Ra's Al Qihah, Ferry Harbor, N. breakwater.	29° 25.7' N 48° 15.9' E	Fl.R.				
29186.1 <i>D 7591.2</i>	--S. breakwater.	29° 25.6' N 48° 16.0' E	Fl.G.				
KHALIJ AL KUWAIT:							
29188 <i>D 7595</i>	-Beacon.	29° 25.0' N 48° 00.0' E	Q.W.R.	20 6	7	Beacon.	W. 180°-290°, R. elsewhere.
29192 <i>D 7595.5</i>	-Fasht al Hadiba.	29° 25.0' N 47° 58.0' E	Fl.(3)W. period 10s	20 6	8	Beacon.	
29196 <i>D 7596</i>	-Outer Entrance Channel Range, front.	29° 22.0' N 47° 56.0' E	Fl.Bu. period 2.5s	36 11	5		
29200 <i>D 7596.1</i>	--Rear, 808 meters 224°30' from front.	29° 22.2' N 47° 55.9' E	Fl.Bu. period 2s	85 26	5		
29202 <i>D 7598.7</i>	-AVIATION LIGHT.	29° 22.1' N 47° 58.5' E	Aero.Q.W.			Radio mast; 1017.	
29209 <i>D 7599</i>	-Ash Shuwaykh, breakwater, head.	29° 21.4' N 47° 55.9' E	Fl.(3)Y. period 15s	13 4	3		Dolphins close S marked by F.G. and F.R. lights. Berths marked by Q.G. and Q.R. lights.
29210 <i>D 7601</i>	-Ra's Al Akaz.	29° 23.5' N 47° 56.2' E	Fl.W. period 3s			Black and yellow beacon.	
29212 <i>D 7594.4</i>	-Medina Island.	29° 24.0' N 47° 59.0' E	Fl.W. period 5s	18 5	8	Steel tower, black and white bands; 10.	
29216 <i>D 7594</i>	-Ras Ajuza.	29° 23.5' N 47° 59.8' E	Mo.(KHC)G. period 30s	98 30	10		Visible 020°-340°.
29220 <i>D 7592</i>	-Ra's al Ard.	29° 21.1' N 48° 06.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	86 26	16	Black metal framework tower, white bands; 73.	
	RACON		Q(--•-)		22		(3 & 10 cm)
29220.2 <i>D 7593</i>	-Al Bida Marina, S. breakwater.	29° 19.3' N 48° 05.6' E	Fl.R.				
29220.4 <i>D 7593.2</i>	--N. breakwater.	29° 19.4' N 48° 05.6' E	Fl.G.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29221 <i>D 7593.4</i>	-Ra's Al Ard, Ferry Harbor, E. breakwater.	29° 21.0' N 48° 05.8' E	Fl.R.				
29221.4 <i>D 7593.6</i>	-Ash-Shaab Marina, E. breakwater.	29° 20.5' N 48° 03.0' E	Fl.R.				
29221.6 <i>D 7593.7</i>	--W. breakwater.	29° 20.6' N 48° 02.9' E	Fl.G.				
29222 <i>D 7593.8</i>	-Al Kuwait Marina, S. breakwater.	29° 22.6' N 48° 00.3' E	Fl.R.				
29222.2 <i>D 7593.9</i>	--N. breakwater.	29° 22.6' N 48° 00.3' E	Fl.G.				
29224 <i>D 7603</i>	-Mashjan.	29° 29.0' N 48° 15.0' E	Fl.(4)W. period 30s	35 11	10	Black framework steel tower; 35.	
29226 <i>D 7603.3</i>	--Off W. head.	29° 29.0' N 48° 14.3' E	Q.(9)W. period 10s	10 3	5	W. CARDINAL YBY, beacon.	
29228 <i>D 7604</i>	--Maskan Reef.	29° 30.0' N 48° 14.7' E	Q.W.	16 5	5	N. CARDINAL BY, beacon, topmark.	
29232 <i>D 7570</i>	-Ahmadi Buoy.	28° 56.2' N 48° 53.0' E	L.FI.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	-RACON		M(--)				(3 & 10cm)
29236 <i>D 7571</i>	-Mudayrah Reef.	28° 56.2' N 48° 46.2' E	Fl.R. period 5s	35 11	11	Metal tripod, white pedestal, red bands.	Radar reflector.
29240 <i>D 7572</i>	-Taylor Rock Beacon.	29° 01.6' N 48° 34.6' E	Q.(6)W. period 10s	35 11	7	Metal tripod, white pedestal, black bands.	Radar reflector.
29246 <i>D 7580</i>	Mina' Abdullah Range, front.	29° 00.1' N 48° 09.6' E	F.W.			Beacon.	Occasional.
29246.5 <i>D 7580.1</i>	-Rear 730 meters 247° from front.	29° 00.0' N 48° 09.3' E	F.W.			Beacon.	Occasional.
29248 <i>D 7580.4</i>	-S. jetty.	29° 01.0' N 48° 10.0' E	F.R.		1		
29248.1 <i>D 7580.3</i>	-N. jetty.	29° 00.9' N 48° 09.6' E	F.G.				
29249 <i>D 7582.7</i>	Mina Ash Shu'aybah, Petroleum Products Pier.	29° 02.5' N 48° 10.4' E	Fl.R. period 5s			Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).	
29249.1 <i>D 7582.6</i>	-N. head.	29° 02.6' N 48° 10.3' E	Fl.R. period 3s	16 5	4	Dolphin.	
29249.2 <i>D 7582.8</i>	-S. head.	29° 02.3' N 48° 10.6' E	Fl.G. period 3s	16 5	4	Dolphin.	
29252 <i>D 7582.4</i>	-N. breakwater, head.	29° 02.7' N 48° 09.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	4	Metal mast; 13.	
29252.1 <i>D 7582</i>	-S. breakwater, E. head.	29° 02.6' N 48° 10.0' E	Fl.R. period 3s	20 6	4		R. light 51m on control tower 60 meters W. Fl.R. 4M near Berth "2" 260 meters SW.
29252.2 <i>D 7582.2</i>	--W. head.	29° 02.6' N 48° 10.0' E	F.R.	16 5	4		
29252.3 <i>D 7582.5</i>	-Barge Quay.	29° 02.3' N 48° 09.8' E	2 F.G. (vert.)		3		
29264 <i>D 7585.6</i>	-Mina'al Ahmadi oil pier, S. head.	29° 03.8' N 48° 09.8' E	F.W.				3 R. lights on S. end of pier. 3 R. lights on N. end of pier 0.6 mile NW. Diaphone: 1 bl. ev. 60s. (bl. 3s, si. 57s).
29265 <i>D 7586</i>	-K.O.C. Boat Harbor, detached breakwater, S. head.	29° 03.6' N 48° 09.4' E	Fl.G. period 5s			Green beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29266 <i>D 7586.2</i>	--N. head.	29° 03.7' N 48° 09.4' E	Fl.R. period 5s			Red beacon.	
29268 <i>D 7586.7</i>	-Bitumen, pier, head.	29° 04.1' N 48° 09.4' E	3 Fl.G. period 10s			Lights in shape of a triangle at N. and S. ends of pier. Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).	
29269 <i>D 7587</i>	-Al Fuhail Marina, E. breakwater.	29° 05.4' N 48° 08.5' E	Fl.R.				
29269.1 <i>D 7587.2</i>	W. breakwater.	29° 05.4' N 48° 08.4' E	Fl.G.				
29270 <i>D 7587.62</i>	Abu Hulayfah, N. pier, N. head.	29° 07.9' N 48° 08.9' E	F.R.				
29270.1 <i>D 7587.63</i>	-S. head.	29° 07.5' N 48° 09.1' E	F.R.			F.R. 100 meters S. Diaphone: 3 bl. ev. 60s. (bl. 2.5s, si. 3s, bl. 2.5s, si. 3s, bl. 2.5s, si. 46.5s) 225 meters N.	
29271 <i>D 7585</i>	Mina Al Ahmadi Sea Island Terminal.	29° 07.0' N 48° 17.5' E	Mo.(U)W. period 15s				Diaphone: 2 bl. ev. 90s.
			Mo.(U)R. period 15s				
29271.1 <i>D 7585.1</i>	-N. head.	29° 07.1' N 48° 17.4' E	Fl.W.R.				
29271.2 <i>D 7585.15</i>	-S. head.	29° 06.9' N 48° 17.6' E	Fl.W.				
			Mo.(U)W. period 15s				
29273 <i>D 7587.8</i>	Qit'at Funaitis.	29° 13.7' N 48° 07.0' E	Q.W.	10 3	5	N. CARDINAL BY, beacon.	
29276 <i>D 7607.9</i>	Jazirat Faylakah, No. "14", off NW. head.	29° 29.5' N 48° 17.7' E	V.Q.(9)W. period 10s			W. CARDINAL BY, beacon.	
29276.6 <i>D 7589.7</i>	-Off NE. side.	29° 27.5' N 48° 22.6' E	Fl.(3)W. period 10s	10 3	5	E. CARDINAL BYB, beacon.	
29276.8 <i>D 7589.8</i>	-E.	29° 31.2' N 48° 36.2' E	Fl.W. period 10s	16 5	10	Yellow pile structure.	
29278 <i>D 7589</i>	-No. "15", off SW. head.	29° 25.2' N 48° 15.7' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, beacon.	
29280 <i>D 7589.4</i>	-No. "16", off SE. head.	29° 22.6' N 48° 23.3' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, beacon.	
29284 <i>D 7589.6</i>	-No. "17", off E. head.	29° 23.7' N 48° 28.1' E	V.Q.(3)W. period 5s			E. CARDINAL BYB, beacon.	
29285 <i>D 7603.5</i>	Al Wakir.	29° 28.4' N 48° 16.3' E	Fl.(2)Y. period 5s	10 3	5	SPECIAL Y, beacon.	
29285.2 <i>D 7603.6</i>	-N. head.	29° 28.9' N 48° 16.9' E	Fl.(3)Y. period 5s	10 3	5	SPECIAL Y, beacon.	
29288 <i>D 7607.8</i>	Khawr as Sabiyan, No. "2".	29° 32.7' N 48° 14.6' E	Fl.(3)R. period 5s			Red beacon.	Several lights mark Khawr as Sabiyan.
29292 <i>D 7579</i>	Qit'at Urayfiyan.	29° 00.0' N 48° 16.0' E	Q.(3)W. period 10s			E. CARDINAL BYB.	
29296 <i>D 7578.2</i>	Ras al Qulay'ah.	28° 56.0' N 48° 22.0' E	Q.(3)W. period 10s			E. CARDINAL BYB.	
29296.1 <i>D 7578.4</i>	-NW.	28° 54.1' N 48° 16.2' E	Fl.W.			White beacon.	Occasional.
29300 <i>D 7578</i>	Ras al Qulay'ah.	28° 55.0' N 48° 20.0' E	Fl.(2)W. period 15s			ISOLATED DANGER BRB.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29301 <i>D 7577.4</i>	Kuwait Naval Base, W. breakwater, head.	28° 51.7' N 48° 17.2' E	Fl.G. period 2s		5		
29301.1 <i>D 7577.3</i>	-E. breakwater, head.	28° 51.7' N 48° 17.3' E	Fl.(3)R. period 10s		7		Horn: 1 bl. ev. 20s.
29301.5 <i>D 7577.2</i>	-Beacon No. "7".	28° 51.9' N 48° 17.3' E	Fl.G. period 3s			Beacon with green square daymark.	
29302 <i>D 7577</i>	-Range, front.	28° 51.9' N 48° 16.9' E	Q.G.		10	Red and white beacon, diamond daymark.	
29302.1 <i>D 7577.1</i>	--Rear, 400 meters 266° from front.	28° 52.0' N 48° 16.7' E	Iso.G. period 4s		10	Red and white beacon, diamond daymark.	
29303.1 <i>D 7577.51</i>	-S. of south quay.	28° 51.5' N 48° 16.8' E	Iso.G. period 4s		10	Red and white beacon, diamond daymark.	Wharves marked by F.R. lights.
29303.2 <i>D 7575.65</i>	Dawahat Az Zawr, "S1".	28° 51.1' N 48° 17.2' E	Q.W.			Black beacon, yellow base.	
29303.3 <i>D 7575.66</i>	"S2".	28° 50.8' N 48° 17.3' E	V.Q.(6)+L.FI.W. period 10s			Yellow beacon, black base.	
29303.4 <i>D 7575.665</i>	"S3".	28° 50.6' N 48° 18.0' E	V.Q.(6)+L.FI.W. period 10s			Yellow beacon, black base.	
29303.5 <i>D 7575.67</i>	"S4".	28° 50.2' N 48° 18.7' E	V.Q.(6)+L.FI.W. period 10s			Yellow beacon, black base.	
29303.6 <i>D 7575.675</i>	"S5".	28° 48.2' N 48° 20.2' E	Q.W.			Black beacon, yellow base.	
29303.7 <i>D 7575.68</i>	"S7".	28° 45.7' N 48° 20.9' E	Q.W.			Black beacon, yellow base.	
29304 <i>D 7575.6</i>	Raz az Zawr.	28° 48.0' N 48° 26.0' E	Q.(3)W. period 10s			E. CARDINAL BYB	
29308 <i>D 7576</i>	Mina Su'ud, jetty, head.	28° 41.5' N 48° 23.4' E	5 Mo.(U)G. period 15s				Lights mark pier head. Horn: 4 bl. ev. 60s.
29310 <i>D 7575.4</i>	Ra's Az Zawr.	28° 44.7' N 48° 24.2' E	Q.(6)+L.FI.W. period 15s	10 3	2	S. CARDINAL YB, beacon, topmark.	
29312 <i>D 7575</i>	-Mina Az Zor.	28° 44.5' N 48° 23.7' E	Oc.W.R. period 5s	19 6	3		W. 163°-253°, R.-273°, W.-003°.
29312.1 <i>D 7575.7</i>	-No. "1".	28° 45.2' N 48° 24.8' E	Q.(3)W. period 10s	16 5	5	E. CARDINAL BYB, beacon, topmark.	
29312.2 <i>D 7575.75</i>	-No. "2".	28° 45.6' N 48° 25.0' E	V.Q.(3)W. period 5s	16 5	5	E. CARDINAL BYB, beacon, topmark.	
29312.3 <i>D 7575.8</i>	-No. "3".	28° 45.9' N 48° 24.8' E	Q.W.	16 5	5	N. CARDINAL BY, beacon, topmark.	
29312.4 <i>D 7575.85</i>	-No. "4".	28° 46.0' N 48° 24.4' E	V.Q.W.	16 5	5	N. CARDINAL BY, beacon, topmark.	
29312.5 <i>D 7575.9</i>	-No. "5".	28° 45.7' N 48° 23.7' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, beacon, topmark.	
29312.6 <i>D 7575.65</i>	-No. "136".	28° 47.7' N 48° 23.3' E	Fl.(2)W. period 5s			ISOLATED DANGER BRB, beacon.	
29313 <i>D 7575.5</i>	--Offshore structure.	28° 46.0' N 48° 26.0' E	Fl.(4)W. period 15s	19 6	5	Metal structure.	
29316 <i>D 7569</i>	Jazirat Quar.	28° 49.0' N 48° 47.0' E	Fl.W. period 10s	45 14	5		
29320 <i>D 7569.2</i>	NNW.	28° 50.2' N 48° 45.8' E	Q.W.			N. CARDINAL BY, beacon.	
29324 <i>D 7568</i>	Umm Al Maradim.	28° 40.8' N 48° 39.1' E	Fl.(2)W. period 15s	75 23	10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29328 <i>D 7568.2</i>	-NW.	28° 42.9' N 48° 38.0' E	Q.W.			N. CARDINAL BY, beacon.	
29330 <i>D 7568.4</i>	Qit'at al Bunayyah.	28° 37.1' N 48° 25.7' E	Q.W.		5	N. CARDINAL BY, beacon.	
29332 <i>D 7505</i>	Ras Al Khafji Approach Buoy No. "1".	28° 36.0' N 49° 10.0' E	Iso.W. period 10s			SAFE WATER RW, pillar, topmark.	Several lighted buoys are shown westward toward Ras al Khafji.
29336 <i>D 7500</i>	Khafji Terminal, control platform.	28° 26.9' N 48° 35.8' E	Fl.R. period 10s	52 16	10	Control platform.	Radar reflector.
29340 <i>D 7505</i>	-Range, front.	28° 24.6' N 48° 31.2' E	F.R.	52 16	4	Triangular daymark.	
29344 <i>D 7505.1</i>	--Rear, 335 meters 234°42' from front.	28° 24.6' N 48° 31.1' E	F.R.	75 23	7	Triangular daymark.	
29344.5 <i>D 7505.4</i>	-N. side of entrance.	28° 25.1' N 48° 31.5' E	Fl.G. period 10s				
29346 <i>D 7457.6</i>	Fasht Buldani, "FBN".	28° 16.9' N 49° 05.0' E	Fl.W. period 10s				Radar reflector.
RACON							
			Q(---)				(3 & 10cm)
29347 <i>D 7457.3</i>	-"FBE".	28° 07.1' N 49° 10.3' E	Fl.G. period 10s				Radar reflector.
29348 <i>D 7457</i>	-"FBS".	27° 54.1' N 49° 20.0' E	Fl.W. period 10s				Radar reflector.
29352 <i>D 7462</i>	Bandar Al Mish'ab.	28° 06.8' N 48° 38.0' E	Oc.W. period 2.3s			Silo; 151.	Oc.W. 2.3s lights shown from 5 silos.
F.R.							
							F.R. lights shown from floodlit towers.
RA'S AL MISH'A'AB:							
29364 <i>D 7455</i>	-Jazireh-ye Farsi.	27° 59.4' N 50° 10.3' E	Fl.W. period 15s	92 28	16	Black framework structure, white band; 75.	
-RACON							
			M(—) period 72s		24		
29368 <i>D 7454</i>	-Al Arabiyah.	27° 47.0' N 50° 10.0' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	75 23	7	Red and white metal framework tower.	Fl.R. 2s 6m 3M marks jetty head 102 meters W.
29369 <i>D 7452</i>	-Range, front.	27° 46.8' N 48° 52.4' E	Iso.W. period 2s				Red metal pile white bands.
29370 <i>D 7452.1</i>	--Rear, 390 meters 270° from front.	27° 46.8' N 48° 52.2' E	Iso.W. period 4s				Red metal pile, white bands.
29372 <i>D 7456</i>	Harqus.	27° 56.0' N 49° 41.0' E	Fl.W. period 10s	29 9	8	Beacon; 13.	
29372.1 <i>D 7456.2</i>	-W. Beacon.	27° 56.1' N 49° 40.5' E	Fl.W. period 20s	49 15	8	Yellow framework tower; 39.	
29376 <i>D 7447</i>	Al Qiran.	27° 43.0' N 49° 49.5' E	Fl.W. period 10s	13 4	8	Metal tripod.	Reported Fl.(2)W. 10s 4m 8M (1985).
29384 <i>D 7450</i>	Beacon "TE-1".	27° 45.3' N 49° 24.2' E	Fl.G. period 10s			Pile.	Channel marked by beacons.
RACON							
			K(---)		18		
29388 <i>D 7449</i>	-NW. Beacon.	27° 42.8' N 49° 21.5' E	Fl.W. period 7s		3	Beacon.	
29392 <i>D 7450.4</i>	-SW. Beacon.	27° 43.8' N 49° 11.7' E	Fl.W. period 7s		2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29396 <i>D 7446</i>	Al Qurayyin.	27° 38.8' N 49° 49.2' E	Fl.G. period 10s	13 4	2	Metal tripod.	<i>Reported Fl.(2)G. 10s 4m 8M (1985).</i>
29400 <i>D 7445</i>	Janah.	27° 22.0' N 49° 53.8' E	Fl.W. period 10s	13 4	8	Metal tripod.	
29402 <i>D 7435</i>	Essa Reef.	27° 02.0' N 49° 56.0' E	Fl.(2)W. period 10s			Metal column; 26.	
29404 <i>D 7436</i>	Ra's al Ghar Range, front.	26° 52.0' N 49° 51.0' E	Iso.R.	13 4	4		Radar reflector.
29408 <i>D 7436.1</i>	-Rear, 300 meters 214° from front.	26° 52.4' N 49° 50.8' E	Iso.R.	13 4	6		Radar reflector.
29410 <i>D 7434.7</i>	Ra's al Ju'aymah, entrance.	26° 51.9' N 49° 54.5' E	Fl.G. period 5s				
29412 <i>D 7444</i>	-Abu Ali, off E. head.	27° 18.0' N 49° 44.0' E	Fl.W. period 10s	30 9	9	Tower; 50.	
29416 <i>D 7443</i>	Jazirat Al Jurayd, platform.	27° 12.0' N 49° 58.0' E	Fl.W. period 10s	13 4			
29418 <i>D 7437</i>	-Small boat harbor.	26° 59.7' N 49° 40.4' E	Fl.G. period 3s		5		
29419 <i>D 7437.5</i>	-Fishing Harbor, breakwater, head.	27° 00.7' N 49° 40.7' E	Fl.R. period 4.5s		2		
AL JUBAYL:							
29420 <i>D 7438</i>	-S. breakwater, S. head.	27° 00.7' N 49° 40.8' E	Fl.G. period 2s		5	Metal mast; 39.	
29424 <i>D 7438.4</i>	--N. head.	27° 01.8' N 49° 42.0' E	Fl.R. period 2s		12		Horn: Mo.(A).
29428 <i>D 7438.6</i>	-E. breakwater, S. head.	27° 02.0' N 49° 42.0' E	Fl.W.G. period 3s		4		W. 201°54'-080°48', G.-201°54'.
29432 <i>D 7438.8</i>	--N. head.	27° 04.1' N 49° 41.8' E	Fl.W.R. period 4s		4	White tower, red bands.	W. 140°12'-225°, R.-310°, W.-338°18', R.-019°48', W.-092°, R.-140°12'.
29440 <i>D 7439</i>	-N. Breakwater, S. head.	27° 04.1' N 49° 42.0' E	Fl.W.G. period 2s	29 9	3	White tower, green bands.	W. 100°12'-306°42', G. elsewhere.
29444 <i>D 7439.4</i>	"O.S.T.T." Pier S. head.	27° 04.3' N 49° 43.6' E	Fl.R. period 5s	36 11	1		
29448 <i>D 7439.5</i>	--Center.	27° 05.0' N 49° 43.0' E	Q.R.	42 13	1		Horn: Mo.(U).
29452 <i>D 7439.6</i>	--N. head.	27° 05.0' N 49° 42.0' E	Fl.(2)R. period 5s	36 11	1		
29460 <i>D 7439.8</i>	-Causeway.	27° 05.0' N 49° 40.0' E	Fl.Y. period 3s	16 5	1		
29464 <i>D 7441.6</i>	-King Abdul Aziz Naval Base, "E1", N. breakwater.	26° 59.0' N 49° 42.0' E	Fl.(2)G. period 10s		3		
29468 <i>D 7441.4</i>	--"E2", detached breakwater, N. head.	26° 58.8' N 49° 42.4' E	Fl.(2)R. period 10s		3		
29472 <i>D 7441.5</i>	--"E3", S. head.	26° 58.3' N 49° 42.4' E	Fl.(3)G. period 10s		3		
29476 <i>D 7441</i>	--"RL-2" Range, front.	26° 58.0' N 49° 42.0' E	Q.R.		7		
29480 <i>D 7441.1</i>	--Rear, "RL-1", 400 meters 203° from front.	26° 57.7' N 49° 41.5' E	Oc.R. period 8s		7		
29484 <i>D 7442.5</i>	--"RL4", range, front.	26° 57.0' N 49° 42.0' E	Fl.Y. period 2s		5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29488 <i>D 7442.51</i>	--Rear, "RL3". 600 meters 203° from front.	26° 56.7' N 49° 42.7' E	Oc.Y. period 5s		5		
29496	"Fairway" buoy.	27° 18.8' N 50° 03.0' E	Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	RACON		O(---) period 60s		9		
JU'AYMAH APPROACH:							
29500 <i>D 7421</i>	-Ju'aymah buoy.	27° 12.6' N 50° 38.9' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		Z(---)				(3 & 10cm)
29504 <i>D 7425</i>	Ju'aymah, No. "1".	27° 02.0' N 50° 08.0' E	Q.(3)W. period 10s			Black and white beacon.	Radar reflector.
29508	Hair Abu Athama Shoal Buoy.	26° 53.0' N 50° 58.0' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
RA'S AT TANNURA APPROACH:							
29512 <i>D 7422</i>	-Shutaya Buoy.	26° 42.7' N 50° 50.4' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		T(-)				(3 & 10cm)
29520 <i>D 7420</i>	-Ras Tannurah Buoy.	27° 06.1' N 50° 57.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	-RACON		K(---) period 72s		15		(3 & 10cm)
29532 <i>D 7424</i>	-Garibah.	26° 59.5' N 50° 13.0' E	Q.(6)+L.Fl.W. period 15s	30 9	10	S. CARDINAL YB, beacon, topmark.	
	-RACON		B(---) period 72s		20		
29533 <i>D 7434.6</i>	-Ras al Ju'aymah, LPG Terminal Range, front.	26° 51.8' N 50° 02.5' E	Fl.R. period 10s				
29533.1 <i>D 7434.61</i>	--Rear, 300 meters 244°42' from front.	26° 51.7' N 50° 02.3' E	Fl.G. period 10s				
29534 <i>D 7427</i>	-RTN beacon.	26° 42.0' N 50° 10.1' E	Fl.W. period 7s	29 9	5	Red pile.	Radar reflector.
29535 <i>D 7428.6</i>	-S. on shallow patch.	26° 40.8' N 50° 09.5' E	Fl.W. period 10s			Pile structure.	
29536 <i>D 7428</i>	-Range, front.	26° 39.0' N 50° 10.0' E	Q.R.	20 6		Red 4-pile steel beacon, black band, white round topmark.	Visible 220°42'-348°42'.
29540 <i>D 7428.1</i>	--Rear, 310 meters 284°40' from front.	26° 39.4' N 50° 09.5' E	Q.G.	26 8		Red 4-pile steel beacon, black band, white round topmark.	Visible 220°42'-348°42'.
29544 <i>D 7428.8</i>	-Range, front.	26° 38.0' N 50° 10.0' E	F.R.			Black wooden framework tower, white stripe; 12.	
29548 <i>D 7428.81</i>	--Rear, 213 meters 271°45' from front.	26° 38.4' N 50° 09.6' E	F.G.			Metal tank marked with black "4".	
29552 <i>D 7429.8</i>	-North pier, N. head.	26° 39.1' N 50° 10.0' E	F.R.			Tower.	
29556 <i>D 7429.6</i>	--Beacon, center of pier.	26° 38.9' N 50° 10.0' E	Fl.R. period 10s				F.R. on same structure. Radar reflector.
29560 <i>D 7429.5</i>	--Beacon, S. head.	26° 38.8' N 50° 10.0' E	Fl.R. period 10s				Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29564 <i>D 7429.3</i>	-S. pier, N. head.	26° 38.3' N 50° 10.2' E	F.R.				
29568 <i>D 7429.2</i>	--Beacon, S. head.	26° 38.0' N 50° 10.0' E	F.R.				
29572 <i>D 7428.4</i>	-Sea Island, No. "15", N. head.	26° 40.5' N 50° 10.9' E	F.R.	29 9	Dolphin.		F.R. lights on crane 1.3 miles S.
29573 <i>D 7428.45</i>	--No. "1", S. head.	26° 39.5' N 50° 10.9' E	F.R.	29 9	Dolphin.		
29576 <i>D 7429</i>	--S. head.	26° 37.6' N 50° 09.8' E	Fl.I.W. period 10s fl. 1s, ec. 9s		Black steel framework, white band; 50.		1 Fl.R. light on tower close N.
AD DAMMAM:							
29580 <i>D 7431</i>	-Abd al Aziz Port, Najwah Shoal.	26° 34.0' N 50° 15.0' E	Fl.I.W.R. period 10s	49 15	W. 10 R. 7	White framework tower, red bands.	W. 015°-206°, R.-015°.
29584 <i>D 7432</i>	-No. "1" Range, front.	26° 30.0' N 50° 14.0' E	Q.W.	46 14	7	White framework tower, red bands.	Visible 131°-145°.
29588 <i>D 7432.1</i>	--Rear, No. "2", 370 meters 138° from front.	26° 29.8' N 50° 12.7' E	Fl.I.W. period 4s	82 25	7	White framework tower, red bands.	Visible 131°-145°.
29592 <i>D 7432.4</i>	-W. mole, NE. corner.	26° 31.0' N 50° 12.0' E	Fl.I.G. period 5s				
29596 <i>D 7432.8</i>	--Berth No. "38".	26° 30.0' N 50° 11.0' E	Fl.I.W. period 4s				
29600 <i>D 7433</i>	-Center mole, NW. corner.	26° 31.0' N 50° 12.0' E	Fl.(2)R.G. period 9s				R. 011°-219°, G.-307°.
29604 <i>D 7433.2</i>	--NE. corner.	26° 31.0' N 50° 12.0' E	Fl.I.G. period 4s				
29608 <i>D 7433.4</i>	-E. mole, NW. corner.	26° 30.0' N 50° 12.0' E	Fl.(4)R.G. period 10s				R. 011°-194°, G.-288°.
29612 <i>D 7433.5</i>	--NE. corner.	26° 30.0' N 50° 12.7' E	Fl.(2)G. period 10s				
29616 <i>D 7434.4</i>	-Small craft harbor pier.	26° 29.0' N 50° 12.0' E	Fl.(3)W. period 10s				
29616.4 <i>D 7434.25</i>	--No. "4".	26° 29.3' N 50° 12.7' E	Fl.(2)R. period 4s				
29616.6 <i>D 7434.3</i>	--No. "6".	26° 29.0' N 50° 12.7' E	Fl.(2)R. period 10s				
29620	Five Fathom Patch Lighted Buoy.	26° 31.0' N 51° 18.0' E	Fl.(2)W. period 12s		ISOLATED DANGER BRB, pillar, topmark.		
29624 <i>D 7396</i>	Bahrain Buoy.	26° 33.1' N 51° 03.5' E	L.Fl.W. period 10s		SAFE WATER RW, pillar, topmark.		Radar reflector.
RACON							
		O(---)		16			(3 & 10cm)
29636 <i>D 7398</i>	Fasht ad-Dibal.	26° 18.0' N 50° 58.0' E	Q.W.	12 4	7	Steel structure on concrete base.	
29640 <i>D 7398.4</i>	Fasht ad-Dibal, E. side.	26° 16.8' N 50° 58.7' E	Fl.(2)W. period 10s	13 4	7	Metal structure on concrete base.	
29642 <i>D 7399.5</i>	Jaww, SE	25° 58.5' N 50° 37.7' E	F.R.			Red and white beacon.	
29644 <i>D 7413</i>	Fasht Al Jarim.	26° 32.5' N 50° 32.4' E	Fl.I.W. period 5s		5		
29648 <i>D 7414.7</i>	-Khor Fasht, reef, NE. head.	26° 21.1' N 50° 27.0' E	Fl.I.W. period 5s fl. 0.5s, ec. 4.5s	12 4	7	Steel housing on concrete base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29649 <i>D 7415</i>	-Azizayah Channel.	26° 16.6' N 50° 20.9' E	F.W.R.G.		Red and white beacon.		G. 034°30', -036°30', W.- 037°30', R.-039°30'.
29650 <i>D 7415.2</i>	--Range, front.	26° 16.3' N 50° 20.5' E	Q.W.		Red and white beacon.		
29650.5 <i>D 7415.21</i>	--Rear, 250 meters 248° from front.	26° 16.2' N 50° 20.4' E	Fl.W. period 3s		Red and white beacon.		
29656 <i>D 7417</i>	Saudi Arabia-Bahrain Causeway.	26° 13.2' N 50° 13.6' E	F.G.	23 7	5		R. lights on piles east side of spans, G. lights on piles west side of spans, visible 20° either side of a line at right angles to the bridge span. The piles are floodlit from above.
29660 <i>D 7417.2</i>	-Bridge No. "3", W. side.	26° 12.1' N 50° 17.2' E	Oc.G. period 5s	16 5	5		Shown from either side. E. side marked by Oc.R. 5s on either side.
29664 <i>D 7417.3</i>	-Bridge No. "4", W. side.	26° 10.9' N 50° 21.1' E	F.G.	23 7	5		Shown from either side. E. side marked by F.R. on either side.
29668 <i>D 7417.4</i>	-Bridge No. "5", W. side.	26° 10.1' N 50° 25.7' E	F.G.	23 7	5		Shown from either side. E. side marked by F.R. on either side.
29672 <i>D 7417.5</i>	-Channel beacon, No. "1".	26° 12.9' N 50° 17.5' E	Fl.G. period 4s	16 5	5		Radar reflector.
29676 <i>D 7417.6</i>	-Channel beacon, No. "2".	26° 12.9' N 50° 17.6' E	Fl.R. period 4s	16 5	5		Radar reflector.
29680 <i>D 7417.7</i>	-Channel beacon, No. "3".	26° 12.5' N 50° 17.3' E	Fl.G. period 8s	16 5	5		Radar reflector.
29684 <i>D 7417.8</i>	-Channel beacon, No. "4".	26° 12.5' N 50° 17.4' E	Fl.R. period 8s	16 5	5		Radar reflector.
29688 <i>D 7417.9</i>	-Channel beacon, No. "5".	26° 11.7' N 50° 17.0' E	Fl.G. period 8s	16 5	5		Radar reflector.
29692 <i>D 7418</i>	-Channel beacon, No. "6".	26° 11.7' N 50° 17.1' E	Fl.R. period 8s	16 5	5		Radar reflector.
29696 <i>D 7418.2</i>	-Channel beacon, No. "7".	26° 11.3' N 50° 16.9' E	Fl.G. period 4s	16 5	5		Radar reflector.
29700 <i>D 7418.3</i>	-Channel beacon, No. "8".	26° 11.3' N 50° 17.0' E	Fl.R. period 4s	16 5	5		Radar reflector.
29703.5 <i>D 7419.2</i>	-Beacon No. "21".	21° 51.8' N 50° 08.8' E	Fl.G. period 5s				
29704 <i>D 7399</i>	Katah ad Jaradeh.	26° 10.0' N 50° 54.0' E	Fl.W. period 5s	10 3	8	Beacon.	
29710	<i>Sitrah Buoy.</i>	26° 10.3' N 50° 42.9' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, pillar, topmark.	
RACON						X(-••-)	(3 & 10cm)
29712 <i>D 7402</i>	S. Shoal Beacon.	26° 09.5' N 50° 41.8' E	Fl.(2)R. period 4s			Pile.	
29716 <i>D 7402.4</i>	--N. Range Beacon.	26° 10.0' N 50° 40.0' E	Fl.R.G. period 2.5s	16 5		Black pile structure; 14.	G. 313°-133°, R.-313°.
29720 <i>D 7402.5</i>	--S. Range Beacon.	26° 09.3' N 50° 41.0' E	Fl.R. period 4s	18 5		Black pile structure; 17.	
29724 <i>D 7401</i>	-A.I.S.C. Range, front.	26° 11.6' N 50° 40.9' E	Q.W.	26 8		Framework tower, black triangular daymark, white stripes, point up.	Visible 327°48-337°48'. 2 F.R. (vert.) on dolphin 620 meters SE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29728 <i>D 7401.1</i>	--Rear, 190 meters 332°52' from front.	26° 11.7' N 50° 40.9' E	Q.(2)W. period 2s	49 15		Framework tower, white triangular daymark, black stripes, point down.	Visible 327°48'-337°48'.
29732 <i>D 7409</i>	-Jetty, S. head.	26° 07.0' N 50° 38.0' E	F.G.	13 4	1	Post.	
29736 <i>D 7409.2</i>	-S. breakwater, head.	26° 07.2' N 50° 38.1' E	2 F.R. (vert.)				
29737 <i>D 7409.5</i>	-Bahrain Yacht Club.	26° 06.8' N 50° 38.0' E	Q.W.	33 10	5		Q.G., Fl.G. 2s, Q.R. and Fl.R. 2s lights mark entrance.
29738 <i>D 7400</i>	-Hayyan.	26° 03.2' N 50° 39.0' E	Fl.W. period 3s	10 3	7	PORT (A) R, beacon.	
29738.5 <i>D 7399.3</i>	-Umm Jalid.	26° 01.3' N 50° 46.5' E	Fl.W. period 5s	10 3		PORT (A) R, beacon.	
29740 <i>D 7404</i>	-Range, front.	26° 11.0' N 50° 39.0' E	Q.W.	16 5		Steel tripod, silver triangular daymark, point up; 15.	
29744 <i>D 7404.1</i>	--Rear, 370 meters 323°43' from front.	26° 11.2' N 50° 39.3' E	I.Q.W. period 8s	29 9		Steel tripod, double cone daymark, points together; 26.	
29746 <i>D 7404.3</i>	-Diwan Beacon.	26° 10.8' N 50° 39.7' E	Fl.G. period 2.5s	26 8		Green pile.	
29748 <i>D 7404.5</i>	-Range, front.	26° 11.7' N 50° 39.5' E	Q.W.	16 5		Steel tripod, silver triangular daymark, point up; 15.	
29752 <i>D 7404.51</i>	--Rear, 835 meters 356°45' from front.	26° 11.2' N 50° 39.5' E	I.Q.W. period 8s	30 9		Steel tripod, silver triangle point down, between 2 red smaller triangles point up; 28.	
29754 <i>D 7404.8</i>	-Triad.	26° 11.1' N 50° 39.4' E	Q.R.		7	Red pile.	
29756 <i>D 7405</i>	-Range, front.	26° 11.2' N 50° 39.7' E	Q.W.	15 5		Dolphin, white triangular daymark, point up.	
29760 <i>D 7405.1</i>	--Rear, 106°53' from front.	26° 11.2' N 50° 39.9' E	I.Q.W.	35 11		Post, white triangular daymark, point down.	
29764 <i>D 7406</i>	--287°03'.	26° 12.1' N 50° 36.6' E	Dir.V.Q.W.R.G.	137 42		On flour mill silo.	G. 283°54'-286°42', W.-287°30', R.-290°12'.
29765 <i>D 7406.2</i>	--Deep water jetty, head.	26° 11.7' N 50° 37.3' E	F.R.				Shown from each corner. F.R. on flour mill 0.53 mile WNW.
29768 <i>D 7407</i>	Al Manamah, marina.	26° 14.3' N 50° 36.0' E	Q.W.		4	White round structure; 6.	Fl.R. 2s and Fl.G. 6s on breakwater 0.2 mile S.
29769 <i>D 7407.6</i>	Al Muharraq, boat harbor.	26° 14.2' N 50° 36.9' E	Fl.G. period 3s			Green post.	
29769.5 <i>D 7407.7</i>	--W. side of entrance.	26° 14.3' N 50° 36.7' E	Fl.R. period 10s			Red post.	
29772 <i>D 7411</i>	-Customs Pier, head.	26° 14.3' N 50° 34.3' E	F.W.	86 26	10	Steel lattice tower; 75.	Visible 090°-270°. Four floodlights atop tower.
29776 <i>D 7410</i>	-Ra's Zurawin.	26° 15.3' N 50° 33.5' E	Fl.R. period 2s	20 6	4	Metal structure on white base.	
29792 <i>D 7395</i>	Ra's Rakan.	25° 11.9' N 50° 13.3' E	Fl.W. period 5s fl. 1s, ec. 4s	45 14	18	Metal framework tower on pile; 45.	
29794 <i>D 7394.5</i>	Ra's Umm Hasah.	26° 06.0' N 51° 21.5' E	V.Q.(3)W. period 5s	39 12	10	White beacon.	
29796 <i>D 7393.9</i>	Ras Laffan, main breakwater.	25° 55.7' N 51° 37.3' E	Fl.G. period 5s	42 13	8		
29796.5 <i>D 7393.95</i>	-S. breakwater.	25° 55.5' N 51° 37.1' E	Fl.R. period 5s	42 13	8		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29796.7 <i>D 7393.92</i>	-Range, front.	25° 55.8' N 51° 36.0' E	Q.W.	36 11	8	Orange beacon, triangular daymark, point up.	
29796.71 <i>D 7393.93</i>	--Rear, 900 meters 278° from front.	25° 55.8' N 51° 35.5' E	Q.W.	72 22	8	Orange beacon, triangular daymark, point down.	R. lights on flare towers 60 meters 0.6 mile NE., 72 meters 0.9 mile SW., 136 meters 4 miles SW. and 169 meters 0.3 miles NE.
29796.8 <i>D 7393.97</i>	-Spur breakwater.	25° 55.8' N 51° 37.2' E	Q.(2)G. period 5s	30 9	5		
29797	-Fairway Buoy.	25° 55.0' N 51° 42.0' E	Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
-RACON							
29800 <i>D 7383</i>	Sharaiyah.	25° 03.0' N 52° 13.2' E	Fl.Y. period 10s			Beacon; 13.	
29804 <i>D 7384</i>	Al Ashat.	24° 44.7' N 51° 35.7' E	Fl.W. period 4s			Beacon; 13.	
29805 <i>D 7384.3</i>	Al Qaffay, E.	24° 34.4' N 51° 44.0' E	Fl.W. period 9s				
29805.1 <i>D 7384.4</i>	-Breakwater, E.	24° 34.7' N 51° 43.7' E	Fl.R.				
29805.2 <i>D 7384.5</i>	--W.	24° 34.6' N 51° 43.7' E	Fl.G. period 9s				
29808 <i>D 7381</i>	Qatar Buoy.	25° 40.1' N 51° 56.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
RACON							
			Q(--•--)		16		(3 & 10cm)
29812 <i>D 7393</i>	Ra's al Matbakh.	25° 41.0' N 51° 35.0' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	55 17	W. 21 R. 18	Tripole tower; 35.	W. 290°-275°, R.-290°.
29816 <i>D 7378</i>	Halul.	25° 40.0' N 52° 25.0' E	Fl.W.R. period 12s	220 67	W. 19 R. 9	Black structure on white base;	W. 030°-300°, R.-030°.
29820 <i>D 7378.2</i>	-AVIATION LIGHT.	25° 40.0' N 52° 24.5' E	Al.Fl.W.G.		16.		
29822 <i>D 9206.9</i>	Platform "DP1".	25° 56.5' N 52° 41.5' E	4 Mo.(U)W. period 15s		10		
RACON							
			X(--••--)				(3 & 10cm)
29836 <i>D 7367</i>	Zaqqum Buoy.	25° 06.6' N 53° 25.1' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
RACON							
			Z(--•••)				(3 & 10cm)
29843 <i>D 7375.6</i>	Das Island, W. end, off shore.	25° 08.3' N 52° 48.4' E	Mo.(U)W. period 15s	39 12	10	Mono pod tower.	Horn: Mo.(U) ev. 30s.
29848.2 <i>D 7375.7</i>	-Loading Platform No. "2", N. head.	25° 08.8' N 52° 53.3' E	2 F.G. (vert.)	56 17			
29848.4 <i>D 7375.8</i>	--S. head.	25° 08.5' N 52° 53.4' E	2 F.G. (vert.)	56 17			
29849.2 <i>D 7376.2</i>	--S. head.	25° 09.5' N 52° 53.2' E	2 F.G. (vert.)	62 19	2		F.R. marks N. and S. end of pier. 2 F.R. (vert.) marks N. and S. end of sulphur berth 0.5 mile S.
29849.4 <i>D 7376.3</i>	--N. head.	25° 09.5' N 52° 53.2' E	2 F.G. (vert.)	52 16	2		
29850 <i>D 7376.6</i>	-Oil Loading Terminal, "SBM".	25° 09.0' N 52° 54.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s		4	Green, red, blue and yellow quarters, black top.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29868 <i>D 7366.6</i>	Qarnayn Island.	24° 56.0' N 52° 51.0' E	Fl.W. period 5s	194 59	8		
29872 <i>D 7366</i>	Zirkuh Island.	24° 53.1' N 53° 04.2' E	Fl.W. period 10s	653 199	22	Radio mast.	Obscured 223°-264° within 2 miles and 000°-025°.
	RACON		B(-•••)		18		(3 & 10cm)
29876 <i>D 7366.3</i>	-Zarqa Sea intake.	24° 52.9' N 53° 05.3' E	V.Q.(3)W. period 5s	30 9	9	E. CARDINAL BYB, topmark, beacon.	
29880 <i>D 7366.2</i>	-Jetty, head.	24° 52.4' N 53° 05.6' E	F.FI.G. period 10s	33 10	F. Fl. 7 9		Visible 150°-070°.
29881 <i>D 7366.4</i>	-E. of small craft anchorage.	24° 51.2' N 53° 07.4' E	Fl.(2+1)W. period 15s		10		Effluent water disposal platform. Horn: 2 bl. ev. 18s.
DOHA:							
29892 <i>D 7389</i>	-LIGHTSHIP.	25° 16.4' N 51° 45.1' E	Mo.(D)W. period 12s	19 6	8	Red hull and tower.	Inner and outer channel marked by lit buoys and beacons.
	-RACON		D(-••) period 48s		16		
29893 <i>D 7389.2</i>	-Island S. of outer channel, NW. point.	25° 17.9' N 51° 38.5' E	Q.R.		23 7		
29893.5 <i>D 7389.4</i>	--SE. point.	25° 17.6' N 51° 38.7' E	Q.R.		23 7		
29899 <i>D 7390.8</i>	-Container Terminal.	25° 18.4' N 51° 33.2' E	F.W.R.G.	33 10	W. 19 R. 16 G. 16	Metal pole, red and white bands; G. 330°-332°30', W.-337°30', R. 340°. Shown 24 hours. Daylight range W. 3M, R. 1M, G. 1M.	
29900 <i>D 7390.9</i>	-Jetty, N. outer corner.	25° 18.1' N 51° 33.0' E	Fl.(2)R. period 6s				
29904 <i>D 7390.95</i>	--S. outer corner.	25° 18.0' N 51° 33.0' E	Fl.G. period 3s				Fl.(2)R. 5s and Fl.G. 3s mark Naval Harbor breakwater heads 1.15 miles 075°. Fl.G. 3s on beacon 0.9 mile E.
29905 <i>D 7391.6</i>	-Diplomatic Area.	25° 19.7' N 51° 32.9' E	Q.(3)G. period 5s				Beacon Fl.R. 3s 0.3 mile W.
29912 <i>D 7382</i>	Halat Umm Al Khayfan.	25° 09.1' N 51° 57.7' E	Fl.(2)W. period 20s	43 13	18	White tower, red stripes.	
UMM SA'ID:							
29914	-Mishut Lighted Buoy.	25° 16.0' N 51° 46.8' E	Q.(9)W. period 15s			W. CARDINAL BYB, pillar, topmark.	
29915	-Wakrah Lighted Buoy.	25° 09.3' N 51° 41.9' E	V.Q.(9)W. period 10s			W. CARDINAL BYB, pillar, topmark.	
29916	-Hul Lighted Buoy.	25° 02.9' N 51° 41.9' E	Q.(9)W. period 15s			W. CARDINAL BYB, pillar, topmark.	The channel east of Fasht Al Arif is marked by lighted buoys.
	-RACON		T(-)		10		(3 & 10cm)
29918 <i>D 7384.9</i>	-Fasht Al Arif.	24° 55.0' N 51° 41.6' E	Q.Y.		2	Tide gauge.	
29920	-SE. Arif Lighted Buoy.	24° 54.0' N 51° 43.0' E	V.Q.(3)W. period 5s			E. CARDINAL BYB, pillar, topmark.	
	RACON		B(-•••) period 48s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29924	-S. Arif Lighted Buoy.	24° 51.0' N 51° 41.0' E	V.Q.(6)+L.FI.W. period 10s		S. CARDINAL YB, pillar, topmark.		The channel SW. of Fasht Al Arrif Shoals is marked by lighted buoys.
29928	-Turning Lighted Buoy.	24° 54.8' N 51° 39.2' E	V.Q.W.		N. CARDINAL BY, pillar, topmark.		
29930 D 7387.7	Umm Said, boat harbor, W. side.	24° 56.5' N 51° 35.0' E	FI.W. period 3s				2 meters apart.
			F.R. (vert.)				
29930.2 D 7387.8	-E. side.	24° 56.4' N 51° 35.0' E	F.R.				
29932 D 7385	-QAFCO, jetty, head.	24° 55.1' N 51° 34.4' E	FI.R. F.R. (vert.)				F.R. on dolphin 300 meters W.
29934 D 7385.2	--S.	24° 54.8' N 51° 34.3' E	F.R.	4			
29944 D 7385.4	-LPG, jetty.	24° 54.0' N 51° 33.3' E	F.R.		Red diamond daymark, white stripes.		Mo.(U)W. marks end of pipeline 0.9 mile SSE. F.W. on dolphin 560 meters E. F.R. on dolphin 850 meters NE.
29945 D 7385.6	-Gas Liquids Plant.	24° 54.3' N 51° 33.7' E	F.R.		Beacon.		F.G. close SW.
29946 D 7387	-S. Anchorage, N. Range, front.	24° 53.4' N 51° 32.8' E	F.G.		Beacon.		
29946.1 D 7387.2	--Rear, 350 meters 270° from front.	24° 53.4' N 51° 32.6' E	F.W.		Beacon.		
29947 D 7387.3	--S. Range, front.	24° 53.3' N 51° 32.8' E	F.R.		Beacon.		
29947.1 D 7387.4	--Rear, 320 meters 270° from front.	24° 53.4' N 51° 32.6' E	F.W.		Beacon.		
29948	-North Berth Buoy.	24° 53.7' N 51° 35.0' E	FI.W. period 3s	5	Orange single point mooring buoy.		
29952 D 7368	Creagh Shoal Buoy.	24° 43.1' N 52° 43.0' E	Q.(9)W. period 15s		W. CARDINAL YBY, pillar, topmark.		
	RACON		C(- • - •)				(3 & 10cm)
29953 D 7368.2	-Jazirat Arzanah, jetty, head.	24° 46.3' N 52° 33.6' E	Iso.Y. period 3s				L.FI.W. 5s light also marks jetty.
29953.1 D 7368.4	--Harbor Entrance.	24° 46.1' N 52° 33.9' E	Iso.W. period 3s				
29956 D 7369	Dalma Light Buoy.	24° 32.4' N 52° 27.7' E	Q.(9)W. period 15s		W. CARDINAL YBY, pillar, topmark.		
	RACON		N(- •)				(3 & 10cm)
29960	Gasha Light Buoy.	24° 25.8' N 52° 34.5' E	Q.(9)W. period 15s		W. CARDINAL YBY, pillar, topmark.		
	RACON		G(- --)				(3 & 10cm)
29964 D 7370	Price Shoal.	24° 17.6' N 52° 42.3' E	FI.W. period 5s	39 12	14 Red metal pile.		
	RACON		T(-)	20			(3 & 10cm)
29968 D 7370.4	South Alaq.	24° 13.9' N 52° 41.6' E	FI.W. period 5s	22 7	8 Framework structure, red and white bands.		
29991	Az Zannah, Berth "2".	24° 12.8' N 52° 40.4' E	Mo.(U)W. period 15s		Orange SBM.	Horn: Mo.(U) ev. 30s.	
29994 D 7371.4	-SBM.	24° 12.1' N 52° 41.3' E	Mo.(U)W. period 15s			Horn: Mo.(U) ev. 30s.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30004 <i>D 7371.6</i>	Az Zannah, "T5", jetty.	24° 11.4' N 52° 37.8' E	2 V.Q.R.	20 6	5 7.	Metal round housing, red band;	2 meters apart.
30006 <i>D 7372</i>	Ar Ruways, Liquid Products, Jetty, NW. head.	24° 10.4' N 52° 42.7' E	2 F.G. (vert.)				2 F.G. (vert.) marks SE. end.
30006.4 <i>D 7372.2</i>	-Coastal Tanker, jetty, head.	24° 09.7' N 52° 42.7' E	2 F.R. (vert.)				
30006.8 <i>D 7372.4</i>	-LNG, jetty, NW. head.	24° 10.0' N 52° 43.2' E	2 F.G. (vert.)				2 F.G. (vert.) marks SE. end.
30008	<i>Mubarraz Approach Lighted Buoy.</i>	24° 56.9' N 53° 18.4' E	F.I.R. period 5s			Red buoy.	Channel to oil terminal marked by lighted buoys.
30013 <i>D 7365.2</i>	-Fishing Harbor, N. breakwater, head.	25° 13.1' N 54° 14.3' E	F.I.G. period 5s fl. 1s, ec. 4s	23 7	5	Metal post; 7.	
30013.5 <i>D 7365.3</i>	--S. breakwater, head.	25° 13.1' N 54° 14.3' E	F.I.R. period 5s fl. 1s, ec. 4s	23 7	5	Metal post; 7.	
30016 <i>D 7362</i>	<i>Abu Dhabi Buoy.</i>	24° 40.1' N 54° 14.1' E	L.FI.W. period 10s	26 8		SAFE WATER RW, pillar, topmark.	Radar reflector.
RACON				T(-)			(3 & 10cm)
30020 <i>D 7363</i>	New entrance, breakwater N. head.	24° 32.0' N 54° 23.0' E	F.I.W. period 10s	26 8	15	Metal framework tower; 20.	F.R. on radio mast 5.3 miles SW.
30021 <i>D 7363.08</i>	Silo.	24° 32.1' N 54° 23.0' E	Iso.W. period 6s	230 70	17		
30024 <i>D 7363.2</i>	-Sadiyat, E. breakwater, head.	24° 32.4' N 54° 23.6' E	V.Q.(9)W. period 10s	19 6			
30028 <i>D 7363.3</i>	-SW. breakwater, head.	24° 31.9' N 54° 23.4' E	Oc.G.Y. period 7s	19 6			G. 153°-285°, obsc.-333°, Y.- 105°. Fl.Y. 4s on each of 4 overhead power cable pylons 1.2 miles SE.
30032 <i>D 7363.5</i>	-NW. breakwater, elbow.	24° 31.5' N 54° 21.8' E	Q.W.	23 7			
30036 <i>D 7363.6</i>	--SW. corner.	24° 31.0' N 54° 21.6' E	Oc.R. period 16s	23 7			
30037 <i>D 7363.7</i>	--Offshore breakwater, N. head.	24° 31.1' N 54° 21.1' E	Oc.G. period 16s	20 6			
30038 <i>D 7363.75</i>	--Inner breakwater, head.	24° 28.7' N 54° 19.9' E	Q.W.				
30040 <i>D 7364</i>	-Khor Bateen, W. breakwater, head.	24° 28.5' N 54° 18.0' E	V.Q.(3)W. period 5s			Beacon.	
30044 <i>D 7364.2</i>	--E. breakwater, head.	24° 27.9' N 54° 18.1' E	V.Q.(9)W. period 10s			Beacon.	
30048 <i>D 7359</i>	<i>Jebel Ali Buoy.</i>	25° 10.6' N 54° 52.3' E	L.FI.W. period 15s	26 8		SAFE WATER RW, pillar, topmark.	
RACON				X(-••-)			(3 & 10cm)
30052 <i>D 7360.4</i>	W. training wall, head.	25° 01.1' N 55° 02.2' E	F.I.G. period 5s fl. 0.5s, ec. 4.5s	46 14	8	Tower.	
30056 <i>D 7360.5</i>	E. training wall, head.	25° 01.1' N 55° 02.5' E	F.I.R. period 5s fl. 0.5s, ec. 4.5s	46 14	8	Tower.	
30060 <i>D 7360.8</i>	Hassah Marina, breakwater.	24° 59.7' N 55° 01.9' E	AI.W.R. period 2s	33 10	8	White tower, red band.	
30062 <i>D 7361</i>	Jabal Ali Hotel Marina.	24° 59.4' N 55° 01.4' E	AI.W.R. period 2s		8		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30064 <i>D 7360</i>	Mina Jebal Ali, AVIATION LIGHT.	25° 01.0' N 55° 04.0' E	Oc.R. period 3s	102 31	20	Flare stack.	R. lights on dish antennas and radio masts 2.8 miles NE. Fl.W. on TV mast 10 miles NE.
30068 <i>D 7360.2</i>	-AVIATION LIGHT.	25° 01.0' N 55° 04.0' E	Oc.R. period 3s	190 58	20	Flare stack.	R. lights on power station chimneys 4 miles NE.
30070 <i>D 7360.22</i>	-AVIATION LIGHT.	25° 01.3' N 55° 04.6' E	Oc.R. period 3s	190 58	20	Flare stack.	
30071 <i>D 7360.6</i>	-Aluminum Plant, breakwater, elbow.	25° 01.9' N 55° 04.8' E	Fl.(2)G. period 10s	20 6	5	Green column, white bands.	
30071.1 <i>D 7360.65</i>	--Breakwater, head.	25° 01.9' N 55° 04.9' E	Fl.Y. period 5s	20 6	7	SPECIAL Y, beacon, topmark.	
30071.7 <i>D 7358.21</i>	-Power Plant.	25° 04.2' N 55° 07.3' E	Fl.(5)G. period 20s	23 7	5	White metal post; 7.	
30072 <i>D 7358</i>	Mina Sahayah Fishing Harbor.	25° 05.0' N 55° 08.0' E	Fl.(3)W. period 10s		2		
30074 <i>D 7357.75</i>	Chicago Beach, main breakwater.	25° 08.7' N 55° 11.3' E	Oc.G.		5		W. and R. lights mark the hotels at Chicago Beach Resort.
30076 <i>D 7357.4</i>	Maz Gam Fishing Harbor, breakwater.	25° 09.3' N 55° 11.8' E	Fl.(3)G. period 20s			STARBOARD (A) G, beacon, topmark.	Spur marked by Fl.(3)G. 20s.
30080 <i>D 7357.3</i>	Umm Sagain Fishing Harbor, breakwater.	25° 10.5' N 55° 12.8' E	Fl.(4)W. period 60s		2		Spur marked by Fl.(2)G. 20s.
30081 <i>D 7357.2</i>	Al Rais.	25° 12.3' N 55° 14.2' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30081.5 <i>D 7356.8</i>	Detached breakwater, N. head.	25° 13.6' N 55° 15.3' E	Fl.(5)G. period 20s			STARBOARD (A) G, beacon, topmark.	S. head marked by Q.G.
30082 <i>D 7356.7</i>	T-head breakwater, N. head.	25° 13.8' N 55° 15.4' E	Fl.(6)G. period 20s			STARBOARD (A) G, beacon, topmark.	S. head marked by Q.G.
30082.5 <i>D 7356.6</i>	Beach Club, breakwater.	25° 14.0' N 55° 15.5' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30084 <i>D 7357</i>	Jumerah Fishing Harbor, breakwater.	25° 12.7' N 55° 14.6' E	Fl.G. period 10s			STARBOARD (A) G, beacon, topmark.	Spur marked by Fl.G. 10s.
30088 <i>D 7353</i>	-N. training wall, head.	25° 26.0' N 55° 27.0' E	Fl.R. period 5s	13 4	3	Red framework tower.	
30092 <i>D 7353.2</i>	-S. training wall, head.	25° 25.8' N 55° 26.5' E	Fl.W. period 2s	13 4	5	Green framework tower.	
30094 <i>D 7353.5</i>	Al Hayrah, N. breakwater, head.	25° 23.4' N 55° 24.7' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	16 5		Framework tower; 7.	
30094.5 <i>D 7353.6</i>	-S. breakwater, head.	25° 23.3' N 55° 24.7' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	16 5		Framework tower; 7.	
DUBAYY:							
30096 <i>D 7355</i>	-Trade Center.	25° 13.1' N 55° 17.0' E	Fl.(2)W. period 30s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 24.3s	443 135	20	Top of building.	Fl.R. and Fl.W. lights on tower buildings 0.8 mile SW.
30098	-Approach buoy.	25° 21.2' N 55° 14.1' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
-RACON							
30100 <i>D 7355.6</i>	-Mina Rashid Range, front.	25° 16.4' N 55° 16.1' E	Q.W.	16 5	5	Red rectangular daymark, yellow cone, point up; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30104 <i>D 7355.61</i>	--Rear, 1495 meters 182° from front.	25° 15.7' N 55° 16.0' E	Oc.W. period 2s	26 8	5	Red rectangular daymark, yellow cone, point up; 26.	
30108 <i>D 7355.7</i>	-Main breakwater, head.	25° 16.9' N 55° 16.0' E	Fl.G. period 5s	43 13	5	Black and white round structure.	4 F.Y. 8m 3M lights mark breakwater.
30110 <i>D 7355.8</i>	-E. breakwater, head.	25° 16.8' N 55° 16.2' E	V.Q.R.	26 8	3	Metal post.	4 F.Y. 8m 3M mark E. breakwater, F.R. 0.85 mile SSE. moved as required.
30112 <i>D 7355.9</i>	-Tanker berth, N. head.	25° 15.8' N 55° 16.3' E	Fl.W. period 3s	10 3	1	Dolphin.	
30112.1 <i>D 7355.94</i>	--S. head.	25° 15.8' N 55° 16.3' E	Fl.W. period 3s	10 3	1	Dolphin.	
30114 <i>D 7356.2</i>	-Dubayy Dry Dock, W. breakwater, head.	25° 15.9' N 55° 15.5' E	Fl.G. period 1.5s	26 8	3	Metal tripod.	3 F.Y. 8m 3M mark main breakwater. F.R. 5m 3M mark Tank Cleaning Berth dolphins near breakwater root. Dry docks have F.G. leading lights, F.R. on 4 dockwall heads and F.R. on 4 dolphins.
30116 <i>D 7356.3</i>	--E. breakwater, head.	25° 15.7' N 55° 15.7' E	Fl.R. period 1.5s	26 8	3		F.Y. 8m 3M near root.
30117 <i>D 7356.5</i>	--Finger Quay, head.	25° 15.3' N 55° 16.1' E	F.R.	20 6	3		F.R. 3m 3M mark dolphins off head.
30118 <i>D 7356</i>	--186°30'.	25° 15.0' N 55° 15.5' E	Dir.Oc.W.R.G.	59 18	6		G. 176°30'-185°, W.-188°, R.-196°30'.
30120 <i>D 7355.2</i>	-Khaver Dubayy, outer channel, W. side.	25° 16.9' N 55° 17.5' E	Fl.W. period 3s	16 5	10		
30121 <i>D 7355.3</i>	--Entrance, W. side.	25° 16.5' N 55° 17.6' E	F.G.	10 3	3		
30121.5 <i>D 7355.32</i>	--E. side.	25° 16.5' N 55° 17.7' E	Fl.R. period 5s	10 3	3		
30124 <i>D 7355.4</i>	--Inner harbor.	25° 15.9' N 55° 17.6' E	F.W.R. (vert.)			Mast.	Occasional.
ASH SHARIQAH:							
30132 <i>D 7354</i>	-Main breakwater, head.	25° 22.1' N 55° 22.1' E	Fl.W. period 3s	49 15	7	Black and white framework tower; 39.	
30136 <i>D 7354.2</i>	-Lee breakwater, head.	25° 22.0' N 55° 22.2' E	Fl.R. period 3s	49 15	7	Red and white framework tower; 39.	F.R. on chimneys E. and SE. F.R. and F.W. on radio towers ESE. and SSW.
30137 <i>D 7354.9</i>	-Al Hamriyah Fishing Harbor, W. breakwater.	25° 18.0' N 55° 19.8' E	Fl.W. period 5s	10 3	2		
30138 <i>D 7354.92</i>	--E. breakwater.	25° 17.9' N 55° 19.8' E	Fl.R. period 3s	10 3	1		
30140 <i>D 7351</i>	Amoco Sharjah "SBM".	25° 34.6' N 55° 24.2' E	Mo.(U)W. period 37s		6	Buoy.	
RACON							
		Z(--••)	period 48s		18		
30141 <i>D 7351.4</i>	Hamriyah, N. breakwater, head.	25° 28.4' N 55° 28.8' E	Iso.R. period 2s	56 17	5	Framework tower; 39.	
30141.2 <i>D 7351.5</i>	-S. breakwater, head.	25° 28.6' N 55° 28.6' E	Fl.G. period 10s fl. 1s, ec. 9s	56 17	5	Framework tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30141.4 <i>D 7351.6</i>	-183°45'.	25° 28.0' N 55° 28.7' E	Dir.F.W.R.G.	125 38	Framework tower.	G. 181°12'-183°12', W.- 184°12', R.-186°12'.	
			F.R.			Visible 186°12'-181°12'.	
30141.6 <i>D 7351.8</i>	-N. training wall.	25° 28.8' N 55° 29.4' E	Iso.R. period 4s	16 5	5 Tower; 7.		
30141.8 <i>D 7351.85</i>	-S. training wall.	25° 28.8' N 55° 29.3' E	Iso.G. period 4s	16 5	5 Tower; 7.		
30152 <i>D 7345</i>	Mina Saqr Harbor, main breakwater.	25° 58.8' N 56° 02.7' E	Fl.(2)W. period 10s		9 Pillar; 10.		
30153 <i>D 7345.5</i>	-Entrance.	25° 58.4' N 56° 02.9' E	Oc.W.R.G. period 3s	69 21	W. 12 R. 10 G. 11	White framework tower, red bands; 66.	G. 171°-173°30', W.-177°30', R.-180°.
			Fl.R. period 3s	72 22			Obstruction light.
30156 <i>D 7345.2</i>	-Lee Breakwater.	25° 58.7' N 56° 02.9' E	Fl.(2)R. period 10s		8 Pillar; 10.		
30157 <i>D 7345.05</i>	--Elbow.	25° 58.8' N 56° 02.8' E	Fl.G. period 3s				Visible 165°-017°.
30158 <i>D 9192</i>	Bukha "A" Platform.	26° 14.5' N 56° 03.2' E	Mo.(U)W. period 15s		10		Horn: Mo.(U) 30s
	RACON		B(-•••)		18		
30160 <i>D 7336</i>	Ra's Shaykh Mas'ud.	26° 15.4' N 56° 12.9' E	Fl.W. period 5s	62 19	12		Visible 065°-297°.
30161 <i>D 7336.2</i>	-Khasab, breakwater, head.	26° 12.7' N 56° 14.7' E	Fl.G. period 5s	26 8	5 Post on concrete base; 13.	F.W. 2M marks groin close S.	

Section 19

Red Sea, Gulf of Aden and Arabian Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
BAHR EL QULZUM (SUEZ BAY):							
Port Ibrahim:							
30196 <i>E 5998</i>	--N. Mole, head.	29° 56.2' N 32° 33.4' E	F.R.	26 8	4	White tower, black bands.	
30200 <i>E 6000</i>	--S. mole, head.	29° 56.2' N 32° 33.4' E	F.G.	26 8	4	White tower, black bands.	
30204 <i>E 5996</i>	--Range, front.	29° 56.0' N 32° 33.0' E	F.W.	39 12	6	Black and white framework tower.	
30208 <i>E 5996.1</i>	--Rear, 200 meters 060° from front.	29° 56.4' N 32° 33.6' E	F.W.	82 25	10	Black and white framework tower.	
			F.R.	61 19	6		
30212 <i>E 5997.2</i>	--Detached breakwater, E. head.	29° 56.2' N 32° 33.3' E	Q.W.	26 8	5	Red metal structure, white pedestal.	
30216 <i>E 5997</i>	--Detached breakwater, W. head.	29° 56.2' N 32° 32.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	5	Black and white metal beacon.	
30217 <i>E 6004</i>	--El Mina el Gedida.	29° 56.3' N 32° 32.4' E	F.I.R.				
30220 <i>E 6012</i>	--Petroleum Basin, E. arm of basin, S. head.	29° 57.1' N 32° 32.0' E	F.G.				
30224 <i>E 6008</i>	--Petroleum Basin Range, front.	29° 57.3' N 32° 31.8' E	Oc.R.	23 7	Mast.		Only shown when ships are entering or leaving the basin.
30228 <i>E 6010</i>	--Rear, 130 meters 334° from front.	29° 57.4' N 32° 31.8' E	2 Oc.R. (vert.)	36 11 42 13	Mast.		Only shown when ships are entering or leaving the basin.
30229 <i>E 6015</i>	-Oil berth.	29° 55.0' N 32° 30.7' E	Mo.(U)W. period 15s				
30230 <i>E 6017</i>	--Birket Misallat.	29° 54.8' N 32° 35.3' E	Fl.W. period 3s	138 42	18	White daymark on beacon.	<i>Unreliable (1990).</i>
--RACON							
			Z(-- • •)				(3 & 10cm)
30232 <i>E 6016</i>	-Qal'a Kebira, Green Island, off S. head.	29° 54.6' N 32° 31.8' E	Q.W.	75 23		Metal framework tower.	
30236 <i>E 6020</i>	-Newport Rock.	29° 53.1' N 32° 33.1' E	Fl.W. period 5s	56 17	10	White framework structure, black stripes.	
30238 <i>E 6018</i>	-Mansiya Reef.	29° 52.9' N 32° 30.4' E	F.I.R. period 4s	20 6		Black and white framework structure, cross topmark.	
30240 <i>E 6019</i>	-Ataqa Reef.	29° 53.1' N 32° 29.5' E	Fl.W. period 3s	35 11	3	White framework tower, black bands.	
30242 <i>E 6019.5</i>	Ataqa Harbor, breakwater, NE. head.	29° 53.9' N 32° 27.9' E	Fl.R. period 4s			Red post.	
30242.2 <i>E 6019.7</i>	-SW. head.	29° 53.8' N 32° 27.7' E	Fl.G. period 4s			Green post.	
30242.4 <i>E 6019.8</i>	-Jetty.	29° 53.8' N 32° 27.7' E	Fl.R. period 4s			Red post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30242.5 <i>E 6019.3</i>	-Outer mole, head.	29° 53.9' N 32° 28.0' E	Fl.G. period 4s			Green post.	
KHALIJ AS SUWAYS (GULF OF SUEZ):							
30244 <i>E 6021</i>	-Ras Muhaggara.	29° 48.6' N 32° 28.2' E	Fl.(4)W. period 15s	141 43	18	Framework tower, white daymark; 128.	
	-RACON		Y(-•--)				(3 & 10cm)
30246 <i>E 6021.2</i>	-Conry Rock lightfloat.	29° 48.1' N 32° 34.2' E	Q.(9)W. period 15s	19 6	9	W. CARDINAL YBY, topmark.	
	-RACON		X(-••-)				(3 & 10cm)
30248.5 <i>"2".</i>	-Ain Sukhna, Lightfloat, SC No.	29° 48.6' N 32° 32.0' E	Iso.W. period 6s	20 6	9	SAFE WATER RW, topmark.	
	-RACON		D(-••)				(3 & 10cm)
30252 <i>E 6021.5</i>	-Lahata.	29° 40.4' N 32° 41.2' E	Fl.(3)W. period 15s	154 47	18	Framework tower, white daymark; 128.	
	-RACON		C(-•-•)				(3 & 10cm)
30252.2 <i>"1".</i>	-Ain Sukhna, Lightfloat, SC No.	29° 39.6' N 32° 32.0' E	L.FI.W. period 10s	20 6	9	SAFE WATER RW, topmark.	
	-RACON		O(--)				(3 & 10cm)
30252.3	-N. Ain Sukhna Buoy.	29° 38.9' N 32° 24.5' E	Fl.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	
	-RACON		K(-•-)				
30253 <i>E 6021.6</i>	-N. Ain Sukhna Range, front.	29° 38.8' N 32° 21.1' E	Oc.W. period 6s lt. 4s, ec. 2s		9	White metal column.	Visible 265.5°-274.5°.
	--Rear, 48 meters 270° from front.	29° 38.8' N 32° 21.0' E	Oc.W. period 6s lt. 4s, ec. 2s		9	White metal column.	Visible 265.5°-274.5°.
30254 <i>E 6021.8</i>	-Ain Sukhna.	29° 36.1' N 32° 20.5' E	Fl.W. period 5s	144 44	22	Framework tower, white daymark; 128.	
			Oc.W.R.G.	131 40	15		G.260°-273°, W.-298°, R.-306°.
	-RACON		Q(--•-)				
30254.5 <i>E 6022</i>	--N. Lightfloat.	29° 35.4' N 32° 33.0' E	Mo.(A)W. period 10s	46 14	9	SAFE WATER RW, topmark.	
	--RACON		B(-•••)				(3 & 10cm)
30255 <i>E 6022.2</i>	--S. Lightfloat.	29° 29.2' N 32° 35.2' E	L.FI.W. period 10s fl. 2s, ec. 8s	46 14	12	SAFE WATER RW, topmark.	
	--RACON		G(--•)				(3 & 10cm)
30256 <i>E 6022.5</i>	-Ras Abu Darag.	29° 22.9' N 32° 33.8' E	Fl.(2)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 16.4s	164 50	19	White round concrete tower on white dwelling.	
	-RACON		TR(-•-•)				(3 & 10cm)
30258 <i>E 8075</i>	-Ras Zafarana Oilfield, Platform "HB-77-5".	29° 10.9' N 32° 41.9' E	Mo.(U)W. period 15s		10		
	-RACON		B(-•••)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30260 <i>E 6023</i>	-Ras Zafarana.	29° 06.7' N 32° 39.8' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	83 25	17	White round concrete tower on white dwelling; 82.	
	-RACON		Z(---••)				(3 & 10cm)
30260.1 <i>E 6023.37</i>	-Mersa Thelemet, jetty, N. head.	29° 01.8' N 32° 38.2' E	Fl.G. period 2s				
30260.2 <i>E 6023.38</i>	--S. head.	29° 01.5' N 32° 38.2' E	Fl.R. period 2s				
30261 <i>E 6023.4</i>	-Abu Zenima Bay Range, front.	29° 02.7' N 33° 07.1' E	F.R.	39 12	5	Beacon, triangular daymark, point up.	
30261.1 <i>E 6023.41</i>	--Rear, 150 meters 334° from front.	29° 02.9' N 33° 06.6' E	F.R.	49 15	5	Beacon, triangular daymark, point down.	
30261.3 <i>E 6023.35</i>	--Beacon.	29° 02.4' N 33° 06.4' E	Fl.R. period 3s	20 6	5	Red metal tower.	
30261.5 <i>E 8157</i>	-East Tanka Oilfield, Platform "A".	28° 59.1' N 32° 56.8' E	Mo.(U)W.			Platform.	Horn: Mo.(U)
	-RACON		Z(---••)				(3 & 10cm)
30262	-North Amer Oilfield, "FF-83-2".	28° 49.3' N 32° 55.0' E	Mo.(U)W. period 15s		5	Platform.	Horn: Mo.(U)
	-RACON		U(••-)		25		
30263 <i>E 8110</i>	--"GG-83-2".	28° 45.9' N 32° 55.2' E	Mo.(U)W. period 15s		5	Platform.	Horn: Mo.(U)
	--RACON		U(••-)		25		
30264 <i>E 6023.6</i>	-Ras Ruahmi.	28° 43.9' N 32° 49.8' E	Fl.(3)W. period 20s	72 22	15	Black tower; 33.	
	-RACON		M(--)				(3 & 10cm)
30268	-Belayim Oilfield, platform "D10".	28° 37.1' N 33° 06.8' E	Fl.(9)W. period 15s	75 23	15		
	-RACON		O(-- -)				(3 & 10cm)
30276 <i>E 6024.4</i>	-False Ras Gharib.	28° 31.0' N 32° 57.6' E	Fl.W. period 5s	36 11	15	White tower, red stripe; 33.	
30280 <i>E 6025</i>	-Ras Gharib.	28° 21.2' N 33° 06.6' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 12s	151 46	22	White metal tripod on masonry base, white building; 65.	Visible 150°-308°. Liable to be obscured by sand storms. DGPS Station.
	-RACON		G(---•)				(3 & 10cm)
30284 <i>E 6025.2</i>	--N. Berth, No. "2" Range, front.	28° 21.0' N 33° 07.0' E	F.G.	39 12	5		
30288 <i>E 6025.21</i>	--Rear, No. "1", 2000 meters 302°40' from front.	28° 21.7' N 33° 05.7' E	F.G.	72 22	5		
30292 <i>E 6025.4</i>	--No. "3" Range, front.	28° 21.0' N 33° 07.0' E	F.R.	36 11	5		
30296 <i>E 6025.41</i>	--Rear, No. "6", 380 meters 269° from front.	28° 20.8' N 33° 06.3' E	F.R.	161 49	5		
30300 <i>E 6025.6</i>	--S. Berth, No. "5" Range, front.	28° 20.0' N 33° 07.0' E	F.G.	33 10	5		
30304 <i>E 6025.61</i>	--Rear, No. "4", 430 meters 298°50' from front.	28° 20.6' N 33° 06.4' E	F.G.	121 37	5		
30308 <i>E 6026</i>	--New S. Berth, No. "8" Range, front.	28° 20.4' N 33° 06.6' E	F.G.	48 15	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30312 <i>E 6026.1</i>	--Rear, No. "7", 760 meters 299°15' from front.	28° 20.6' N 33° 06.1' E	F.G.	125 38	5		
30316 <i>E 6025.8</i>	--No. "12" Range, front	28° 20.0' N 33° 07.0' E	F.R.	46 14	5		
30320 <i>E 6025.81</i>	--Rear, No. "11", 480 meters 264°20' from front.	28° 20.1' N 33° 06.3' E	F.R.	79 24	5		
30324 <i>E 6026.3</i>	--No. "9" Range, front.	28° 19.8' N 33° 06.6' E	F.R.	42 13	5		
30328 <i>E 6026.31</i>	--Rear, No. "10", 240 meters 265° from front.	28° 19.8' N 33° 06.5' E	F.R.	45 14	5		
30332 <i>E 6027</i>	-El Mallaha.	28° 14.0' N 33° 10.2' E	Fl.W. period 10s	39 12	15	Red tower; 33.	
30336	-Platform "SG 300", RACON.	28° 18.8' N 33° 08.8' E	B(-••) period 72s		15		
30340 <i>E 6030</i>	-Ras Shukier.	28° 08.0' N 33° 16.7' E	Fl.(3)W. period 20s	279 85	22	Framework tower with white square daymark.	
30341	--SE, in southbound lane of TSS.	28° 05.0' N 33° 23.4' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	--RACON		D(-••)				
30342 <i>E 6029.5</i>	--Lightfloat.	28° 09.5' N 33° 20.3' E	Mo.(A)W. period 10s	46 14	12	SAFE WATER RW, topmark.	
	--RACON		KT(-•- -)				
30343	--N., corner of Precautionary Area.	28° 11.3' N 33° 21.4' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	--RACON.		D(-••)				
30344	-Platform "72" RACON	28° 10.6' N 33° 26.6' E	M(- -) period 72s		15		
30346	-Amal Platform RACON.	28° 03.4' N 33° 34.9' E	D(-••)				
30348 <i>E 6031</i>	-Ras Dib.	28° 01.8' N 33° 24.6' E	Fl.W. period 5s	148 45	15	Black tower; 33.	
	--RACON		MT(- - -)				
30352	Platform "5" RACON	28° 16.8' N 33° 18.7' E	K(-•-) period 72s		15		
30356	Platform "29" RACON	28° 15.3' N 33° 14.5' E	G(- - •) period 72s		15		
30360	July Oilfield, RACON.	28° 14.3' N 33° 16.8' E	N(- •) period 72s		15		
30361 <i>E 8259</i>	Platform "ASMA-8".	28° 13.2' N 33° 20.5' E	2 Mo.(U)W. period 15s	33 10		Horn: Mo.(U) 30s	
	RACON		C(-•- -)				
	-At Tur Harbor:						
30364 <i>E 6028</i>	--Grafton Reef, on N. side of entrance to harbor.	28° 13.0' N 33° 36.0' E	Fl.W. period 3s	18 5	5	White quadrangular tower, black band.	
30368 <i>E 6034</i>	--Boat harbor, breakwater, head.	28° 13.8' N 33° 37.3' E	F.R.			Occasional.	
30372 <i>E 6028.4</i>	--S. of boat harbor, breakwater Range front.	28° 13.5' N 33° 37.5' E	F.W.R.W. (vert.)			Beacon.	Lead between Grafton Beacon and Erg Rivah. Shown only during the pilgrimage season, or by request.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30376 <i>E 6028.41</i>	--Rear, about 457 meters 095° from front.	28° 13.5' N 33° 37.8' E	2 F.W. (vert.)			Beacon.	
30380	-Ra's Jarrah Oil Well.	27° 59.0' N 33° 44.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	3		Navigation is prohibited near this light.
30384 <i>E 6032</i>	Ras Zeit.	27° 57.2' N 33° 30.5' E	Fl.(2)W. period 20s	92 28	15	White beacon, red band; 33.	
30386	Strait of Gubal Platform Sidki-B RACON.	27° 56.7' N 33° 38.5' E	O(-- --)				Lighted.
30387 <i>E 8340</i>	ESSO Suez Platform, E. ZEIT.	27° 52.6' N 33° 41.2' E	Fl.W. period 8s		6		Horn: 1 bl. ev. 20s.
	RACON		C(-• - •)				
30387.5	Ashrafi Oil Field Platform "WHP-2" RACON.	27° 48.9' N 33° 41.9' E	Z(-- • •)				
30388 <i>E 6033</i>	Umm El-Kiman.	27° 49.6' N 33° 34.9' E	Fl.W. period 10s	79 24	15	Black tower, white band; 33.	Horn.
30392	-Platform, RACON.	27° 50.1' N 33° 43.7' E	Q(-- • -)		7		
30396 <i>E 6040</i>	-Ashrafi Juzur.	27° 47.4' N 33° 42.4' E	Fl.(3+1)W. period 15s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 5.5s fl. 0.3s, ec. 5.5s	124 38	17	Black round masonry tower, white bands, concrete base.	
30398	-Shag Rock.	27° 46.1' N 33° 52.1' E	Q.(9)W. period 15s	39 12	15	W. CARDINAL YBY, beacon, topmark.	
	-RACON		F(• • - •)				(3 & 10cm)
30399	-Shag Rock Buoy.	27° 45.2' N 33° 51.0' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	-RACON		D(-- • •)				(3 & 10cm)
30400	-Bluff Point.	27° 40.8' N 33° 48.4' E	Fl.W. period 5s	79 24	15	White tower; 33.	
	-RACON		B(-- • • •)				(3 & 10cm)
30404 <i>E 6036</i>	-Siyul Island.	27° 33.8' N 33° 52.4' E	Fl.(4)W. period 20s	49 15	15	White tower, black bands; 33.	
30404.5 <i>E 6036.5</i>	-Abu Nuhus.	27° 34.5' N 33° 56.0' E	Q.(3)W. period 10s	36 11	7	PORT (A) R, beacon, topmark; 23.	
	-RACON		L(• - • •)		4		(3 & 10cm)
30405 <i>E 6036.2</i>	Saghira, N.	27° 34.1' N 33° 50.3' E	Fl.(2)R. period 5s	30 9	8	PORT (A) R, beacon; 16.	
30405.5 <i>E 6036.4</i>	Tawila Island.	27° 34.8' N 33° 48.1' E	Fl.(2)G. period 5s	36 11		STARBOARD (A) G, beacon; 16.	
30406 <i>E 6036.21</i>	Sha'ab Abu Rakaw.	27° 28.6' N 33° 49.5' E	Q.W.	30 9	8	N. CARDINAL BY, beacon, topmark; 16.	
30406.2 <i>E 6037.2</i>	Sha'b el Iqr, Melana.	27° 25.2' N 33° 52.0' E	Q.(3)W. period 10s	30 9	8	E. CARDINAL BYB, beacon, topmark; 16.	
30406.4 <i>E 6037.3</i>	-E.	27° 23.9' N 33° 52.9' E	V.Q.(3)W. period 5s	30 9	8	E. CARDINAL BYB, beacon, topmark; 16.	
30407	Abu Tig entrance, N.	27° 24.5' N 33° 40.7' E	Fl.G. period 5s	16 5	1		
30407.2	-S.	27° 24.5' N 33° 40.7' E	Fl.R. period 5s	16 5	1		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30408 <i>E 6037</i>	-Jazirat Shakir.	27° 27.0' N 34° 04.0' E	Fl.(2)W. period 20s	121 37	22	White round stone tower, black band, white dwelling, black stripes.	Visible 187°-100°.
	-RACON		X(-••-)				(3 & 10cm)
30409 <i>E 6037.5</i>	-Umm Qamar.	27° 21.1' N 33° 54.1' E	Fl.W. period 3s	79 24	15	Red tower, white stripe.	
	-RACON		TS(-•••)				(3 & 10cm)
EL GHARDAQA:							
30409.5	-Giftun el-Saghir.	27° 11.9' N 33° 59.0' E	Fl.(3)W. period 20s	100 30	16	Black steel tower.	
30410 <i>E 6037.7</i>	-Reef, NW. of Gazal'ir Giftun.	27° 16.1' N 33° 53.1' E	Fl.R. period 5s	30 9	8	Red round fiberglass tower; 16.	
30410.2 <i>E 6037.8</i>	Sha'b el Fanadir, SE. corner.	27° 15.4' N 33° 50.6' E	Fl.G. period 5s	30 9	8	STARBOARD (A) G, beacon; 16.	
30410.4 <i>E 6037.9</i>	-Franken Point.	27° 14.2' N 33° 50.9' E	Fl.(2)G. period 5s	30 9		STARBOARD (A) G, beacon.	
30410.6 <i>E 6037.91</i>	-W. of Gaziret Abu Minqar.	27° 12.9' N 33° 51.1' E	Fl.(2)R. period 5s	30 9	8	PORT (A) R, beacon; 16.	
30411 <i>E 6038</i>	El Ghardaqa Range, front.	27° 12.5' N 33° 50.5' E	Oc.R. period 5s lt. 3s, ec. 2s	181 55	18	White tower, black bands; 49.	
30411.5 <i>E 6038.1</i>	-Rear, 420 meters 194° from front.	27° 12.3' N 33° 50.5' E	Oc.R. period 5s lt. 3s, ec. 2s	250 76	18	White tower; 49.	
30412 <i>E 6039</i>	Qad Ibn Haddan.	27° 48.2' N 34° 06.0' E	Fl.W. period 10s	154 47	22	Framework tower, white rectangular daymark; 128.	
	RACON		M(- -)				(3 & 10cm)
30413 <i>E 6039.3</i>	-S.	27° 42.3' N 34° 07.6' E	Q.(6)+L.Fl.W. period 15s	29 9	8	S. CARDINAL YB, tower, topmark.	Radar reflector.
30414 <i>E 6039.5</i>	Ras Muhammad.	27° 43.6' N 34° 14.9' E	Fl.(4)W. period 30s	49 15	15	White tower, black bands; 33.	Radar reflector.
	RACON		X(-••-)				
30415 <i>E 6039.91</i>	Sharm El-Sheikh entrance, W. side.	27° 50.5' N 34° 16.6' E	Oc.R. period 5s lt. 3s, ec. 2s	23 7		Red beacon.	
30415.5 <i>E 6039.9</i>	-E. side.	27° 51.0' N 34° 17.2' E	Oc.G. period 5s lt. 3s, ec. 2s	23 7		Green beacon.	
30416 <i>E 6044.09</i>	Ras Umm Sidd.	27° 51.0' N 34° 19.0' E	Fl.(3)W. period 20s	148 45	22	Framework tower, white rectangular daymark; 56.	DGPS Station.
	RACON		K(-• -)				(3 & 10cm)
GULF OF AQABA:							
30420 <i>E 6040.5</i>	-Enterprise Passage.	27° 58.8' N 34° 26.2' E	Fl.W. period 10s	43 13	15	Green fiberglass tower; 33.	F.R.W. (vert.) 1.5 miles NNW. 2 F.R. (vert.) 2 miles W.
			Oc.G. period 7s		8		
	-RACON		Y(-• - -)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30422 <i>E 6040.3</i>	-Chisholm Point.	27° 56.6' N 34° 30.1' E	Fl.(2+1)W. period 20s	39 12	9	White beacon; 33.	
	-RACON		C(-•-•)				
30424 <i>E 6040.7</i>	-Gordon Reef.	27° 59.2' N 34° 27.0' E	Oc.R. period 7s	39 12	8	Red and white beacon; 33.	Radar reflector.
	-RACON		G(--•)				
30424.2 <i>E 6040.72</i>	-Jackson Reef.	28° 00.5' N 34° 28.5' E	Fl.(2)R. period 5s	30 9	8	Red tower; 18.	
30424.4 <i>E 6040.74</i>	-W. of Johnson Point.	27° 59.8' N 34° 29.0' E	Fl.(2)G. period 5s	30 9	8	Green tower; 18.	
30424.5	--SW.	27° 59.4' N 34° 29.1' E	Q.(9)W. period 15s			W.CARDINAL BYB, pillar, topmark.	
	--RACON		D(-••)				
30424.6 <i>E 6040.76</i>	--NW.	28° 00.8' N 34° 29.2' E	Fl.G. period 5s	30 9	8	White tower, green top; 18.	
30425 <i>E 6040.8</i>	-Nabq.	28° 03.5' N 34° 26.2' E	V.Q.(3)W. period 5s	26 8	5	E. CARDINAL BYB, tower.	Visible 185°-345°. Q.(3) 10s 5M marks stranded wreck ENE. Radar reflector.
30426 <i>E 6040.9</i>	-Wadi Kid.	28° 10.2' N 34° 26.9' E	Q.(3)W. period 10s	36 11	8	E. CARDINAL BYB, tower; 29.	Visible 192°-293°. Radar reflector.
	-RACON		K(-•-)		6		
30428 <i>E 6041</i>	Dahab.	28° 29.8' N 34° 31.2' E	Fl.(2)W. period 20s	66 20	15	White tower, black band; 33.	Radar reflector.
	RACON		D(--•)				
30432 <i>E 6041.4</i>	Nuweibah.	29° 01.7' N 34° 39.4' E	Fl.(2+1)W. period 20s	151 46	15	White round tower.	Radar reflector.
	RACON		N(-•)				
30436 <i>E 6042</i>	Elat.	29° 30.0' N 34° 55.0' E	Fl.W. period 10s fl. 1s, ec. 9s	211 64	21	Pylon tower, black and white bands.	
30437 <i>E 6042.2</i>	-Oil Terminal Range, front.	29° 31.3' N 34° 56.0' E	Fl.(2)Y. period 10s		3		
30438 <i>E 6042.21</i>	--Rear, 620 meters 011°58' from front.	29° 31.6' N 34° 56.1' E	Fl.Y. period 5s		3		Signal station.
30439 <i>E 6042.3</i>	-Oil berth, SW. head.	29° 31.1' N 34° 55.8' E	Fl.G. period 2s		2		Berth marked by F.G. and F.R. lights.
30440 <i>E 6043</i>	Elat AVIATION LIGHT.	29° 33.0' N 34° 58.0' E	AI.FI.(10)W.G. period 60s			Building.	
30441 <i>E 6043.4</i>	-Basin entrance, SE. side.	29° 32.0' N 34° 56.5' E	F.R.		2		NW. side marked by F.G. 2M.
30444 <i>E 6043.5</i>	-Marina.	29° 32.9' N 34° 57.6' E	Fl.(1+3+6)R.		2		
AQABA:							
30448 <i>E 6044.6</i>	-Royal Jetty.	29° 32.2' N 34° 59.1' E	F.R.				On NW. and SE. ends of jetty.
30449 <i>E 6044.65</i>	--On shore.	29° 32.3' N 34° 59.2' E	Oc.R. period 2s			Red framework tower.	
			F.R. (vert.)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30452 <i>E 6044</i>	-Control tower.	29° 30.8' N 34° 59.8' E	Fl.(3)W. period 10s	236 72	17	White tower.	
30454 <i>E 6044.3</i>	-Yacht club, N. side.	29° 31.7' N 34° 59.9' E	Fl.R.			White tower, red top.	
30455 <i>E 6044.35</i>	--S. side.	29° 31.7' N 34° 59.9' E	Q.G.			White tower, green top.	
30458 <i>E 6044.7</i>	-S. of Yarmouk.	29° 26.8' N 34° 58.1' E	Q.(9)W. period 15s	30 9	7	White metal structure.	
30462 <i>E 6044.75</i>	-S. beach.	29° 23.6' N 34° 57.8' E	Fl.(2)G. period 15s	26 8	10	White metal structure.	
30463 <i>E 6044.8</i>	-Industrial port, "JFI", jetty, N.	29° 22.1' N 34° 57.5' E	2 F.R. (vert.)				R lights on chimneys 1.1M NE.
30463.1 <i>E 6044.82</i>	--S.	29° 22.0' N 34° 57.5' E	2 F.G. (vert.)				
30469 <i>E 6045</i>	Shushah.	27° 55.9' N 34° 54.1' E	Fl.W. period 10s	325 99	9	Metal structure; 3.	
30469.5 <i>E 6045.5</i>	Burqan.	27° 54.6' N 35° 04.2' E	Fl.W. period 4s	125 38	9	Metal structure; 3.	
30469.6 <i>E 6046</i>	Ash Sharmah Range, front.	27° 55.7' N 35° 16.5' E	Q.W.				
30469.7 <i>E 6046.1</i>	-Rear, 336 meters 036° from front.	25° 55.9' N 35° 16.6' E	Q.W.				
30470 <i>E 6046.5</i>	Jazair Sila.	27° 39.7' N 35° 16.7' E	Fl.W. period 12s	49 15	12		
RACON				J(---)		(3 & 10cm)	
30470.5 <i>E 6047.2</i>	Ra's Abu Sawmah.	26° 51.1' N 34° 00.1' E	Fl.(4)W. period 20s	100 30	16	Black metal tower, white top.	
RACON				C(-•-•)		(3 & 10cm)	
30471 <i>E 6047.65</i>	Panorama Reef.	26° 45.3' N 34° 04.7' E	Q.W.	29 9	5	N. CARDINAL BY, fiberglass tower, topmark.	Radar reflector.
30471.2	Middle Reef.	26° 42.4' N 34° 05.9' E	Q.(3)W. period 10s	23 7	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
30471.3	<i>Fellowes Rocks Buoy.</i>	26° 41.7' N 34° 03.9' E	Fl.(2)W. period 8s			ISOLATED DANGER BRB, pillar, topmark.	
RACON				D(-••)			
30471.4 <i>E 6047.55</i>	Geziret Safaga, NE.	26° 45.7' N 33° 59.6' E	Q.(3)W. period 10s	66 20	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
30471.5 <i>E 6047.5</i>	-SE.	26° 42.8' N 33° 59.8' E	Dir.Fl.W.R.G. period 3s	49 15	W. R. G.	12 10 10	White fiberglass tower. G. 214°-218°, W.-220°, R.-224°.
RACON				Z(--••)		(3 & 10cm)	
30472 <i>E 6047.4</i>	Bur Safaga Transit Beacon.	26° 44.2' N 33° 56.4' E	Dir.Fl.(2)W.R.G. period 10s	42 13	6	Red steel tower.	G. 306°-310°, W.-312°, R.-316°.
30474 <i>E 6047.6</i>	-Moorewood.	26° 41.9' N 33° 59.7' E	Fl.(3)G. period 10s	29 9	6	STARBOARD (A) G, tower, topmark.	Radar reflector.
30474.5 <i>E 6047.63</i>	-Split Reef.	26° 41.3' N 33° 58.5' E	Fl.(3)R. period 10s	29 9	3	PORT (A) R, tower, topmark.	Radar reflector.
30475 <i>E 6047.67</i>	-Handyman Reef.	26° 39.3' N 34° 02.3' E	V.Q.(9)W. period 10s	30 9	5	W. CARDINAL BYB, beacon, topmark.	Radar reflector.
30475.1	-Sha'b Shear.	26° 39.1' N 34° 06.5' E	V.Q.(3)W. period 5s	18 6	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30475.2 <i>E 6047.68</i>	-Safaga Ulbur.	26° 36.4' N 34° 01.1' E	Fl.W. period 5s	43 13	6	White fiberglass tower, red top.	
30476 <i>E 6047</i>	Al Ikhwan (The Brothers).	26° 19.0' N 34° 51.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 4.5s	119 36	17	White round tower, rectangular dwellings; 102.	
RACON							
30478 <i>E 6048.5</i>	Shi'b Shu'aybah, No. "3".	24° 29.5' N 37° 07.3' E	Fl.(2)W. period 6s	23 7	5	ISOLATED DANGER BRB, beacon.	Reefs to E. marked by beacons Nos. 4, 7, 2, 5, 6.
30479 <i>E 6048.6</i>	-No. "11".	24° 23.6' N 37° 09.7' E	Fl.(2)W. period 20s	23 7	5	ISOLATED DANGER BRB, beacon.	Reefs to E. marked by beacons Nos. 9, 8, 12, 13.
30480 <i>E 6050.1</i>	Al Wajh AVIATION LIGHT.	26° 14.0' N 36° 26.0' E	AI.FI.W.G. period 5s				
30484 <i>E 6047.7</i>	Al Qusayr.	26° 06.0' N 34° 17.0' E	F.R.		5	Atop transporter.	
30492 <i>E 6048</i>	Daedalus Reef.	24° 55.4' N 35° 51.5' E	Fl.(1+2)W. period 12s fl. 0.2s, ec. 5.2s fl. 0.2s, ec. 1s fl. 0.2s, ec. 5.2s	100 30	15	Round stone tower, black and white bands, on concrete base two-story dwelling.	
RACON							
30493 <i>E 6048.7</i>	Sharm al Khaur, No. "20".	24° 14.1' N 37° 39.0' E	Fl.R. period 5s	16 5	2	PORT (A) R, beacon.	Passage into Sharm al Khaur marked by light beacons.
30494 <i>E 6048.75</i>	-No. "21".	24° 13.8' N 37° 39.3' E	Q.W.	23 7	4	N. CARDINAL BY, beacon.	Reefs to SE, marked by beacons Nos. 22, 23, 24, 26.
30496 <i>E 6048.8</i>	Schermo Reef.	24° 03.3' N 37° 51.5' E	Fl.W. period 5s	33 10	11	Black framework beacon.	Horn: 1 bl. ev. 20s (bl. 4s, si. 16s).
RACON							
			Y(-•--) period 75s		12		
30497 <i>E 6048.85</i>	-No. "29".	24° 00.6' N 37° 53.0' E	Q.(6)+L.FI.W. period 15s	23 7	4	S. CARDINAL YB, beacon.	
30498 <i>E 6048.9</i>	Sharm Yanbu W., No. "27".	24° 08.5' N 37° 55.5' E	Fl.R. period 2s	16 5	2	PORT (A) R, beacon.	
30499 <i>E 6048.95</i>	-E. No. "28".	24° 08.4' N 37° 55.8' E	Fl.G. period 2s	16 5	2	STARBOARD (A) G, beacon.	
30500 <i>E 6049</i>	Yanbu, Bn. No. "1".	24° 04.0' N 38° 03.0' E	Q.G.		5	Beacon.	
30504 <i>E 6049.2</i>	-Bn. No. "2".	24° 04.0' N 38° 02.8' E	Q.R.		5	Beacon.	
30508 <i>E 6049.3</i>	-Bn. No. "6".	24° 04.3' N 38° 03.3' E	Fl.R. period 2s		5	Beacon.	
30508.5 <i>E 6049.4</i>	Umm al Nukuth.	24° 01.4' N 38° 02.3' E	Fl.(2)W. period 15s		10	ISOLATED DANGER BRB, beacon, topmark.	
30509 <i>E 6049.42</i>	-No. "30".	23° 57.2' N 37° 57.6' E	Fl.(2)W. period 6s	23 7	5	ISOLATED DANGER BRB, beacon.	
30510 <i>E 6049.46</i>	Shi'b al-Qirin, No. "31".	23° 54.8' N 38° 01.7' E	Q.W.	23 7	4	N. CARDINAL BY, beacon.	
30511 <i>E 6049.48</i>	-No. "33".	23° 52.5' N 38° 04.5' E	Q.(3)W. period 10s	23 7	4	E. CARDINAL BYB, beacon.	
30511.1 <i>E 6049.6</i>	-King Fahd Port Range, front.	23° 57.9' N 38° 11.6' E	Q.W.			Black structure, white stripe, square daymark.	
30511.2 <i>E 6049.61</i>	--Rear, 220 meters 037°51' from front.	23° 58.0' N 38° 11.7' E	Iso.W. period 7s			Black structure, white stripe, square daymark.	
30511.22 <i>E 6049.7</i>	-Beacon No. "2C".	23° 56.8' N 38° 10.6' E	Q.(6)+L.FI.W. period 15s			S. CARDINAL YB, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30511.23 <i>E 6049.75</i>	--No. "3C".	23° 57.1' N 38° 11.3' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30511.24 <i>E 6049.8</i>	--No. "4C".	23° 57.6' N 38° 11.2' E	Fl.(4)R. period 10s			PORT (A) R, beacon, topmark.	
30511.25 <i>E 6049.85</i>	--No. "9C".	23° 58.0' N 38° 11.6' E	Q.(9)W. period 15s			W. CARDINAL YBY, beacon, topmark.	
30511.3 <i>E 6049.9</i>	--Inner Range, front.	23° 58.4' N 38° 11.5' E	Q.W.			White trapezoidal daymark, red stripe.	
30511.4 <i>E 6049.91</i>	--Rear, about 160 meters 015°22' from front.	23° 58.5' N 38° 11.5' E	Iso.W. period 7s			Red inverted trapezoidal daymark, white stripe.	
30511.5 <i>E 6050</i>	-Beacon No. "14C".	23° 58.2' N 38° 11.7' E	Iso.R. period 2s			PORT (A) R, beacon, topmark.	
30511.51 <i>E 6050.2</i>	--No. "13C".	23° 57.5' N 38° 12.2' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30511.52 <i>E 6050.35</i>	--No. "19C".	23° 57.4' N 38° 12.4' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30511.53 <i>E 6050.4</i>	--No. "22C".	23° 57.5' N 38° 12.5' E	Q.R.			PORT (A) R, beacon, topmark.	
30511.54 <i>E 6050.5</i>	--No. "24C".	23° 57.4' N 38° 12.7' E	Fl.R. period 5s			PORT (A) R, beacon, topmark.	
30511.55 <i>E 6050.45</i>	--No. "23C".	23° 57.0' N 38° 12.8' E	Q.(3)W. period 10s			E. CARDINAL BYB, beacon, topmark.	
30511.61 <i>E 6050.6</i>	-Service Harbor, W. breakwater.	23° 57.3' N 38° 12.9' E	Oc.R.				Oc.G. marks E. breakwater.
30511.71 <i>E 6050.7</i>	-Crude Oil Terminal, W. head.	23° 56.6' N 38° 13.3' E	2 F.R. (vert.)				2 F.R. (vert.) mark each end of berths 500 meters NE. and 800 meters E.
30511.72 <i>E 6050.75</i>	--E. head.	23° 56.2' N 38° 14.3' E	2 F.R. (vert.)				Horn: Mo.(U) 30s
30511.81 <i>E 6050.8</i>	-Beacon No. "26C".	23° 57.0' N 38° 13.5' E	V.Q.R.			Beacon.	
30511.82 <i>E 6050.83</i>	--No. "25C".	23° 56.9' N 38° 13.7' E	V.Q.G.			Beacon.	
30511.83 <i>E 6050.86</i>	--No. "28C".	27° 57.1' N 38° 13.6' E	Q.R.			Beacon.	
30511.84 <i>E 6050.89</i>	--No. "30C".	23° 57.2' N 38° 13.7' E	Oc.R. period 5s			Beacon.	
30511.85 <i>E 6050.92</i>	--No. "32C".	23° 57.1' N 38° 13.8' E	Q.R.			Beacon.	
30511.86 <i>E 6050.95</i>	--No. "34C".	23° 57.0' N 38° 14.2' E	Oc.R. period 10s			Beacon.	
30511.91 <i>E 6051.4</i>	-Yanbu Refinery Terminal, beacon No. "2".	23° 54.8' N 38° 17.5' E	F.G.			STARBOARD (A) G, beacon, topmark.	
30511.92 <i>E 6051.45</i>	--No. "1".	23° 54.9' N 38° 17.3' E	F.R.			PORT (A) R, beacon, topmark.	2 F.R. (vert.) mark berths.
30511.93 <i>E 6051.47</i>	--No. "3".	23° 55.1' N 38° 17.5' E	F.G.			STARBOARD (A) G, beacon, topmark.	
30511.94 <i>E 6051.5</i>	--No. "4".	23° 55.1' N 38° 17.3' E	F.G.			STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
YANBU SOUTHERN APPROACH CHANNEL							
30512 <i>E 6052.5</i>	-Yanbu South.	23° 28.1' N 38° 25.5' E	Fl.W.R. period 10s fl. 0.2s, ec. 9.8s	105 32	W. 20 R. 17	White round metal tower, red bands.	W. 200°-090°, R.-140°, obsc.-200°. Radar reflector.
RACON		B(-•••)					
30513 <i>E 6052.46</i>	-No. "43".	23° 31.0' N 38° 21.2' E	Q.(9)W. period 15s	23 7	4	W. CARDINAL YBY, beacon.	
30514 <i>E 6052.48</i>	-Shib as Suflani, No. "44".	23° 30.4' N 38° 14.6' E	Q.(6)+L.Fl.W. period 15s	23 7	4	S. CARDINAL YB, beacon.	
30516 <i>E 6052.4</i>	-Beacon "S3".	23° 31.0' N 38° 29.9' E	Fl.(3)G. period 10s	39 12	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
30520	-RACON, beacon "SR2".	23° 34.7' N 38° 27.7' E	TG(---)				
30521 <i>E 6052.36</i>	No. "40".	23° 42.7' N 38° 21.1' E	Q.W.	23 7	4	N. CARDINAL BY, beacon	
30522 <i>E 6052.38</i>	-No. "42".	23° 39.3' N 38° 17.8' E	Q.(9)W. period 15s	23 7	4	W. CARDINAL YBY, beacon.	
30524	-Beacon, "S6".	23° 38.4' N 38° 25.2' E	Fl.(4)R. period 12s	39 12	8	PORT (A) R, beacon, topmark.	Radar reflector.
30525 <i>E 6051.7</i>	Shi'b as Sabah, No. "32".	23° 52.0' N 37° 53.5' E	Q.W.	23 7	4	N. CARDINAL BY, beacon.	Reefs 3 miles and 9 miles SW. marked by beacons Nos. 34, 35, 39.
30526 <i>E 6051.9</i>	-Mansi No. "41".	23° 38.9' N 38° 02.1' E	Fl.(2)W. period 20s	23 7	5	ISOLATED DANGER BRB, beacon.	
30528 <i>E 6050.63</i>	-Beacon "S7".	23° 41.2' N 38° 28.6' E	Fl.(4)G. period 12s	39 12	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
30532	-RACON, beacon "SR3".	23° 42.9' N 38° 23.2' E	X(-••-)				
30534 <i>E 6052.2</i>	-No. "37".	23° 45.7' N 38° 17.1' E	Q.(6)+L.Fl.W. period 15s	23 7	4	S. CARDINAL YB, beacon.	Beacon No. 36, Q.(9)W. 15s, 9.9 miles NW.
RABIGH:							
30536 <i>E 6053</i>	-Shib al Khamsa, No. "12".	22° 44.7' N 38° 37.4' E	Fl.W. period 5s fl. 1s, ec. 4s	65 20	16	Yellow and black beacon, double cone topmark, points down.	Radar reflector.
RACON		O(--)					
30540 <i>E 6053.2</i>	-Shib Al Abiyadh. No. "13".	22° 42.7' N 38° 48.3' E	Q.(6)+L.Fl.W. period 15s	39 12	10	S. CARDINAL YB, beacon, topmark.	Radar reflector.
30544 <i>E 6053.4</i>	-Tanta Rock, No. "14".	22° 43.4' N 38° 55.5' E	Q.W.	33 10	8	N. CARDINAL BY, column, topmark.	Radar reflector.
30545 <i>E 6053.5</i>	-No. "11".	22° 40.2' N 38° 59.5' E	Q.(3)W. period 10s			E. CARDINAL BYB, beacon, topmark.	The entrance to Rabigh refinery is marked by lights.
30546	RACON, Al Qadimah	22° 19.6' N 38° 57.2' E	M(--)				
30548 <i>E 6057</i>	Mismari Reef.	21° 19.5' N 39° 01.9' E	Fl.(3)W.R. period 15s	46 14	W. 19 R. -	Black rectangular daymark, white structure.	R. 185°-196°, W.-208°, R.-025°, W.-185°. Radar reflector.
RACON		M(--)					
30552 <i>E 6054.4</i>	Juddah (Jidda) AVIATION LIGHT.	21° 40.6' N 39° 08.9' E	A.I.Fl.W.G. period 10s		12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
JIDDAH HARBOR:							
30554 <i>E 6054.5</i>	-Jiddah.	21° 28.1' N 39° 09.0' E	Fl.(3)W. period 20s	450 137	25	On control tower.	
30555 <i>E 6054.7</i>	-No. "31".	21° 29.8' N 39° 07.4' E	V.Q.W.	26 8	6	N. CARDINAL BY, beacon, topmark.	Radar reflector.
30556 <i>E 6054.8</i>	-Ra's al Makhbat.	21° 30.1' N 39° 08.1' E	Fl.R. period 2s	26 8	6	Red beacon.	
30560 <i>E 6054.85</i>	-Ra's ash Shi'b.	21° 29.9' N 39° 08.3' E	Fl.G. period 2s	26 8	6	Green beacon.	
30572 <i>E 6055.2</i>	-Shi'b Qaham.	21° 27.2' N 39° 06.7' E	Fl.W.R.G. period 2.5s	46 14	W. R. G.	14 - -	White structure, black rectangular daymark. W. 128°-178°, R.-010°, G.-039°, W.-064°, R.-128°. Radar reflector.
-RACON							
30576 <i>E 6054.6</i>	-Shi'b Jahan.	21° 28.4' N 39° 07.2' E	Fl.W.R.G. period 5s	46 14	15	White structure, red rectangular daymark.	G. 129°-165°, R.-027°, W.-044°, R.-093°, W.-129°. Radar reflector.
30580 <i>E 6055.3</i>	-Middle Gateway, N. beacon.	21° 28.0' N 39° 07.9' E	Fl.R. period 3s		PORT (A)	R, beacon, topmark.	Intensified 075°-105°. Radar reflector.
30584 <i>E 6055.35</i>	--S. beacon.	21° 27.9' N 39° 07.9' E	Fl.G. period 3s		STARBOARD (A)	G, beacon, topmark.	Intensified 075°-105°. Radar reflector.
30588 <i>E 6055.4</i>	-Inner Gateway, N. side.	21° 28.0' N 39° 08.8' E	Fl.(2)R. period 6s		PORT (A)	R, beacon, topmark.	Intensified 075°-105°. Radar reflector.
30592 <i>E 6055.45</i>	-Inner Gateway, S. side.	21° 27.8' N 39° 08.9' E	Fl.(2)G. period 6s		STARBOARD (A)	R, beacon, topmark.	Intensified 075°-105°. Radar reflector.
30593 <i>E 6055.5</i>	-Ship River Yard.	21° 28.9' N 39° 08.9' E	2 U.Q.R. (vert.)	20 6	3	Framework tower.	F.W. mark W. ends of floating docks 200 meters SW.
30594 <i>E 6055.55</i>	--Dolphin "A".	21° 28.6' N 39° 08.9' E	U.Q.R.	10 3	4		F.R. mark cranes nearby.
30595 <i>E 6055.6</i>	--Dolphin "B".	21° 28.7' N 39° 08.9' E	U.Q.R.	10 3	4		
30596 <i>E 6055.9</i>	-Approaches, No. "1A".	21° 22.8' N 39° 06.5' E	Fl.G. period 3s		5		Horn.
30597 <i>E 6055.95</i>	--N. side.	21° 23.4' N 39° 06.3' E	Fl.R.				
30598 <i>E 6056</i>	--No. "2A".	21° 23.5' N 39° 07.9' E	Fl.G. period 5s		3		
30599 <i>E 6056.05</i>	--No. "2B".	21° 24.1' N 39° 07.7' E	Fl.R. period 6s		5		Horn.
30600 <i>E 6056.4</i>	-RSNF, No. "13" Range, front.	21° 25.7' N 39° 10.2' E	Fl.Y.				
30601 <i>E 6056.41</i>	--Rear, No. "14", 430 meters from front.	21° 25.8' N 39° 10.6' E	Oc.Y.				
30602 <i>E 6056.2</i>	--No. "1E".	21° 24.5' N 39° 08.9' E	Q.G.		3		Channel marked by lighted buoys and beacons.
30603 <i>E 6056.25</i>	--No. "2E".	21° 24.7' N 39° 08.8' E	Q.R.		3		
30603.5 <i>E 6056.45</i>	-Explosives pier, approach channel, No. "A-1E".	21° 23.7' N 37° 08.8' E	Fl.G. period 3s		3		
30603.6 <i>E 6056.5</i>	--No. "A-2E".	21° 23.8' N 37° 08.9' E	Fl.R. period 2s		3		Horn.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30604 <i>E 6054</i>	Shi'b al Kabir.	21° 41.0' N 38° 50.3' E	Fl.W.R.G. period 10s	46 14	W. 19 R. - G. -	White tripod, red band.	W. 327°-118°, G.-163°, R.-327°.
	RACON		K(-•-) period 56s		17		
30605 <i>E 6048.14</i>	Shap Ras Banas Beacon.	23° 51.1' N 35° 46.5' E	Fl.R. period 5s	16 5			
30605.1 <i>E 6048.12</i>	Jazirat Sirnakah Beacon.	23° 49.8' N 35° 48.4' E	Fl.G. period 3s	23 7	3	Metal tower.	
30605.2 <i>E 6048.11</i>	Horseshoe Reef Beacon.	23° 48.6' N 35° 47.9' E	Fl.R. period 3s	23 7	3	Metal tower.	
30605.5 <i>E 6048.155</i>	Baranis Beacon.	23° 56.2' N 35° 29.8' E	Fl.G. period 3s	23 7	3	Metal tower.	
30606 <i>E 6048.2</i>	Marsa Halab.	22° 14.6' N 36° 39.4' E	Fl.R. period 4s	13 4	3	Beacon.	
30608 <i>E 6058</i>	Abington Reef.	20° 54.0' N 37° 27.0' E	Fl.(2)W. period 18s fl. 0.5s, ec. 5s fl. 0.5s, ec. 12s	99 30	15	Brown framework tower.	Visible except where obscured by Makawwar Island.
30612 <i>E 6058.5</i>	Sanganeb Reef.	19° 43.4' N 37° 26.5' E	Fl.W. period 5s	165 50	19	Round concrete tower, white lantern and dwelling.	Diaphone: 1 bl. ev. 30s (bl. 3s, si. 27s).
30616 <i>E 6059.2</i>	Wingate Reef (Su) S. extremity.	19° 37.0' N 37° 17.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	27 8	6	Black steel framework structure, concrete base; 28.	<i>Reported extinguished (1990).</i>
30620 <i>E 6059</i>	Wingate Reef, E. Beacon.	19° 39.0' N 37° 19.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	23 7	6	Black and white checkered concrete tower, 23.	
30628 <i>E 6063</i>	-Breakwater, N. side of entrance.	19° 36.0' N 37° 14.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	35 11	6	Steel column; 30.	
BUR SUDAN (PORT SUDAN):							
30632 <i>E 6060</i>	-Damma Damma, S. side of entrance.	19° 35.8' N 37° 14.6' E	Q.R.	26 8	6	Steel framework structure, red and white checkers; 26.	
30636 <i>E 6059.4</i>	-S. side of entrance.	19° 35.3' N 37° 14.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	63 19	10	Stone tower, white band; 72.	
30638 <i>E 6060.6</i>	-Pilot Jetty.	19° 36.2' N 37° 14.0' E	Fl.(3)R. period 6s	75 23	7	Brown and white striped tower.	
30640 <i>E 6064</i>	-Head of second coral pier, N. side of entrance.	19° 36.3' N 37° 14.1' E	F.G.	26 8	3	Green concrete column, white bands; 22.	Obscured northward of 281°.
30644 <i>E 6062</i>	-East Town.	19° 36.7' N 37° 13.9' E	F.G.	101 31	8	S. water tower; 126.	Visible 330°-150°. On request. F.W.R. (Occas) marks head of jetty 0.4 mile NW.
30648 <i>E 6061</i>	-W. shore of harbor Range, front.	19° 36.7' N 37° 13.4' E	F.R. (neon)			Red metal framework tower; 113.	Visible 260°-320°.
30652 <i>E 6061.1</i>	--Rear, 969 meters 305° from front.	19° 37.0' N 37° 13.0' E	F.R. (neon)			Red iron framework tower, white band; 157.	Visible 260°-320°.
30656 <i>E 6067</i>	-Range, front.	19° 36.7' N 37° 13.6' E	2 F.G. (vert.)	17 5			Marks the anchor berths in key anchorage and should not be used for navigating the channel. Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30660 <i>E 6067.1</i>	--Rear, 197 meters 314°18' from front.	19° 36.8' N 37° 13.5' E	2 F.G. (vert.)	68 21			Occasional.
30662 <i>E 6068</i>	-S. anchorage.	19° 36.7' N 37° 13.8' E	2 F.G. (horiz.)			Port offices, S. end.	
30662.5 <i>E 6068.2</i>	-N. anchorage.	19° 36.7' N 37° 13.8' E	2 F.G. (horiz.)			Port offices, middle.	
30664 <i>E 6065</i>	-Head of Quay, S. side of harbor within entrance.	19° 36.6' N 37° 13.8' E	Fl.R. period 3s	26 8	5	Metal framework structure.	F.R. over F.G. at pilot lookout indicates vessels should not approach within 1 mile of harbor entrance.
NORTH TOWARTIT REEF ANCHORAGE:							
30668 <i>E 6076</i>	-N. beacon.	19° 31.0' N 37° 19.0' E	Q.R.	26 8	4	White steel framework tower, black bands, checkered base; 27.	
30672 <i>E 6076.2</i>	-E. beacon.	19° 30.0' N 37° 20.0' E	Fl.W. period 7.5s fl. 0.7s, ec. 6.8s	27 8	5	Red steel framework structure, on concrete base, white bands; 28.	
30676 <i>E 6076.4</i>	-S. beacon.	19° 29.0' N 37° 20.0' E	Fl.G. period 10s fl. 1s, ec. 9s	25 8	5	Black steel framework structure, black base, white stripes; 26.	
30680 <i>E 6076.6</i>	-Elbow beacon.	19° 29.0' N 37° 18.0' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	21 6	6	Red steel framework structure on concrete base, red and white checkers; 21.	
30682 <i>E 6077</i>	Sawakin Channel, No. "1".	19° 26.0' N 37° 18.2' E	Fl.G. period 5s	26 8	5	Red framework tower on white concrete base, black band.	
30682.05 <i>E 6077.1</i>	-Bashayer Terminal SPM.	19° 24.2' N 37° 19.5' E	Mo.(U)W.			Cantenary anchor leg mooring.	Horn: Mo.(U).
-RACON							
U(• • -)							
30682.07 <i>E 6077.15</i>	--Jetty, head.	19° 24.5' N 37° 18.4' E	Fl.W. period 5s	33 10	10		
30682.1 <i>E 6077.2</i>	-No. "2".	19° 22.0' N 37° 19.3' E	Fl.(2)G. period 10s	85 26 8 2	7	Black framework tower, white bands, on black concrete base, white stripes.	
30682.2 <i>E 6077.6</i>	-No. "3".	19° 14.3' N 37° 20.4' E	Fl.(3)G. period 15s	26 8	7	Black framework tower, white bands, on black concrete base.	
30683 <i>E 6076.8</i>	-No. "4".	19° 28.1' N 37° 19.5' E	Q.R.	26 8	5	Red framework tower on red concrete base.	
30683.1 <i>E 6077.05</i>	-No. "5".	19° 24.8' N 37° 20.4' E	Fl.R. period 5s	26 8	5	Red framework tower on red concrete base, white bands.	
30683.2 <i>E 6077.4</i>	-No. "6".	19° 18.3' N 37° 22.6' E	Fl.(2)R. period 10s	85 26 8 2	5	Red framework tower on red concrete base, white stripes.	
30683.3 <i>E 6077.5</i>	-No. "7".	19° 16.5' N 37° 23.2' E	Fl.(3)R. period 15s	26 8	5	Red framework tower on red concrete base, white stripes.	
30683.4 <i>E 6077.7</i>	-No. "8".	19° 13.2' N 37° 23.1' E	Q.W.	26 8	5	Red framework tower on red concrete base.	
30683.5 <i>E 6077.8</i>	-No. "9".	19° 09.7' N 37° 24.4' E	Fl.W. period 10s	26 8	5	Red framework tower on red concrete base, white bands.	
30683.6 <i>E 6077.57</i>	-Williamson Shoals, S.	19° 17.8' N 37° 27.5' E	Fl.(2)W. period 5s	30 9	5	Red and white metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30683.7 <i>E 6077.65</i>	-Al Mansuriyah, NW.	19° 13.8' N 37° 23.3' E	Fl.R. period 5s	33 10	5	Red and white metal framework tower.	
30683.8 <i>E 6078.7</i>	-Sawakin Harbor, Entrance, N.	19° 08.5' N 37° 21.9' E	Fl.(2)W. period 5s	26 8	5	Black and white metal framework tower on base.	Channel marked by beacons.
30684 <i>E 6078</i>	Hindi Gider, W. side.	19° 23.0' N 37° 54.8' E	Fl.(2)W. period 20s fl. 0.8s, ec. 1s fl. 0.8s, ec. 17.4s	87 27	10	Red metal framework structure.	<i>Reported extinguished (1990).</i>
30685 <i>E 6078.5</i>	N. Jummah Shoal.	19° 26.5' N 37° 43.8' E	Fl.(3)W. period 10s	36 11			
30688 <i>E 6082</i>	Masamirit, E. side.	18° 50.0' N 38° 45.0' E	Fl.W. period 10s fl. 1s, ec. 9s	86 26	10	Red steel framework structure.	
30692 <i>E 6088</i>	Difnein Island.	16° 37.2' N 39° 19.5' E	Fl.(2)W. period 10s	144 44	10	White metal tower with tripod, black bands; 126.	Reserve light F.W. 7M.
30696 <i>E 6090</i>	Sheik al Abu Island.	16° 01.9' N 39° 26.2' E	Fl.W. period 10s fl. 1s, ec. 9s	61 19	9	Square pyramidal metal framework tower, black and white bands; 56.	Visible 277°-187°.
MASSAUJA ISLAND:							
30700 <i>E 6096</i>	-Ras Mudur.	15° 36.6' N 39° 28.9' E	Iso.W. period 4s	85 26	14	Black round metal tower, white bands; 72.	Visible 150°-310°.
30704 <i>E 6100</i>	-S. breakwater, head.	15° 36.9' N 39° 28.8' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	7	White concrete tower, red bands; 8.	Traffic signals 0.2 mile SW.
30708 <i>E 6102</i>	-Abd El Kader, head of breakwater, N. side of entrance.	15° 37.0' N 39° 28.9' E	Fl.G. period 3s fl. 1s, ec. 2s	22 7	7	White concrete tower, green bands; 16.	
30720 <i>E 6104</i>	-Harbor Range, front.	15° 36.6' N 39° 28.1' E	F.R.	40 12	6	White metal framework tower, black bands, on white square concrete base; 33.	Visible 228°30'-258°30'.
30724 <i>E 6104.1</i>	--Rear, 128 meters 243°30' from front.	15° 36.6' N 39° 28.1' E	F.R.	57 17	8	White metal framework tower, black bands, on white square concrete base; 50.	Visible 239°30'-247°30'.
30728 <i>E 6114</i>	Madote Island, SW. part.	15° 34.7' N 39° 45.7' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	W.	Pyramidal steel framework tower, black and white bands; 43.	
30732 <i>E 6116</i>	Assarka Island.	15° 32.2' N 39° 55.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	32 10	9	Square steel framework tower, black and white bands; 25.	
30736 <i>E 6120</i>	Shumma Island, S. head.	15° 31.6' N 40° 00.3' E	Fl.(3)W. period 20s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 14.9s	108 33	9	White round metal tower; 72.	
30740	Gizan N. Light Buoy.	16° 56.6' N 41° 17.6' E	Iso.W. period 8s			SAFE WATER RW, pillar, topmark.	
RACON							
			G(---)				
			period 60s				
30743 <i>E 6138.1</i>	Al Baghlah.	16° 57.0' N 41° 24.0' E	Fl.(2)W. period 10s	23 7	5	White beacon.	
30744 <i>E 6138</i>	-Off SW. head.	16° 56.5' N 41° 23.7' E	Fl.W. period 4s	41 12	10	Tripod; 39.	
30748 <i>E 6138.2</i>	Gizon, Middle Beacon.	17° 16.6' N 41° 33.5' E	Fl.(3)W. period 12s		12	Red beacon.	
RACON							
			N(---)				
			period 90s				
				10			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30752 <i>E 6138.4</i>	-Ghurab.	17° 06.3' N 42° 04.0' E	Fl.W. period 4s	10	Red beacon.		
	-RACON		B(-•••) period 90s	10			
30756 <i>E 6138.7</i>	Gizan Harbor Range, front.	16° 52.9' N 42° 32.2' E	Q.R.				
30760 <i>E 6138.71</i>	-Rear, 300 meters 096°30' from front.	16° 52.9' N 42° 32.4' E	Fl.R. period 2s				
30768 <i>E 6138.8</i>	-N. breakwater.	16° 53.1' N 42° 31.7' E	Q.R.	26 8	Red framework tower.		
30772 <i>E 6138.9</i>	-S. breakwater.	16° 53.0' N 42° 31.5' E	Q.G.	23 7	Green framework tower.	2 Mo.(U)W. mark end of pier 1.7 miles SE.	
30776 <i>E 6139</i>	-Small craft harbor, N. breakwater, head.	16° 53.8' N 42° 32.1' E	Fl.R. period 6s	5			
30780 <i>E 6139.2</i>	--S. breakwater, head.	16° 53.7' N 42° 32.1' E	Fl.G. period 6s	5			
30784 <i>E 6138.5</i>	Dawharab.	16° 19.2' N 41° 58.1' E	Fl.W. period 4s	49 15	10 Green daymark.	<i>Note: Gizan Southern Approach Channel closed until further notice.</i> Radar reflector.	
30788 <i>E 6138.6</i>	South Mazarkiff.	16° 34.0' N 42° 22.0' E	Fl.(3)W. period 12s	10	Red daymark.		
30792 <i>E 6140</i>	Jabal at Taic.	15° 32.8' N 41° 49.8' E	Fl.W. period 5s	531 162	17 White round metal tower and lantern; 65.	Obscured by high ground of island 202°-311°.	
30796 <i>E 6144.2</i>	Ugban Island.	15° 30.0' N 42° 23.0' E	Fl.(2)W. period 10s	85 26	12 White round tower.		
KAMARAN:							
30800 <i>E 6144</i>	-Jebel Yemen.	15° 17.4' N 42° 34.9' E	Fl.(3)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 9s	131 40	10 Tubular framework tower on concrete pillars, black daymark, white band; 59.		
30804 <i>E 6145.4</i>	-Ras el Salif.	15° 19.0' N 42° 40.3' E	Q.(2)W. period 3s	20 6	5 White round tower; 16.	Radar reflector.	
30808 <i>E 6144.8</i>	-Kamaran Island, N. head.	15° 27.3' N 42° 37.6' E	Fl.(2)W. period 7.5s	26 8	5 White round tower, concrete base; 19.	Radar reflector.	
30812 <i>E 6145.2</i>	-Harrison Shoal.	15° 29.0' N 42° 41.0' E	Fl.R. period 5s	20 6	5 White tower, red topmark.		
30816 <i>E 6144.6</i>	-NW. Patches.	15° 27.5' N 42° 33.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	5 White tower, red topmark.		
30820 <i>E 6145</i>	-Lansdown Shoal.	15° 31.0' N 42° 33.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	5 White tower, red topmark.		
30824 <i>E 6145.3</i>	Khawbah, fishing harbor.	15° 32.0' N 42° 44.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s				
30828 <i>E 6144.4</i>	-Iqban Saghir.	15° 25.1' N 42° 31.4' E	Fl.Y. period 5s	16 5	7 Black round tower, red bands.		
30828.5 <i>E 6143</i>	As Salif Approach, Rashshah.	15° 10.5' N 42° 34.2' E	Fl.W. period 7s	29 9	6 Metal framework tower on concrete pillars, white daymark, black top; 26.		
30829 <i>E 6141</i>	Zubair Islands, Center Peak Island.	15° 00.9' N 42° 09.8' E	Fl.W. period 10s	505 154	12 Concrete tower; 46.	<i>Reported extinguished (1990).</i>	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30832 <i>E 6122</i>	Umm es Sahrig Island.	15° 04.7' N 40° 30.2' E	Fl.W. period 8s	88 27	9	Square steel framework tower, black and white bands; 56.	
30840 <i>E 6124</i>	Sha'b Shakhs.	14° 38.7' N 41° 06.9' E	Fl.(2)W. period 22s	125 38	9	White tripodal metal tower, black band; 121.	
AL MOCHA:							
30844 <i>E 6149</i>	-Mokha Range, front.	13° 18.6' N 43° 14.1' E	V.Q.W.		9		
30848 <i>E 6149.1</i>	--Rear, 370 meters 137° from front.	13° 18.5' N 43° 14.2' E	Iso.W. period 2s		9		
30852 <i>E 6149.2</i>	-Breakwater, head.	13° 18.9' N 43° 13.6' E	Fl.G. period 3s		4		
BAIA DI ASSAB:							
30856 <i>E 6128</i>	-Ras Fatma.	13° 02.5' N 42° 52.4' E	Fl.(3)W. period 26s	95 29	10	Round masonry tower, black and white bands; 87.	Reserve light F.W. 7M.
30860 <i>E 6132</i>	-Ras Gombo.	13° 01.3' N 42° 44.9' E	Fl.(2)W. period 10s	75 23	11	White skeleton structure, black bands; 44.	Reserve light F.W. 7M.
30864 <i>E 6134</i>	-Detached breakwater, N. head.	13° 00.1' N 42° 45.2' E	Fl.R. period 3s	15 5	5	White round tower, red bands.	
30868 <i>E 6134.2</i>	--S. head.	12° 59.7' N 42° 45.0' E	Q.G.	15 5	5	White round tower, green bands.	
30872 <i>E 6135</i>	-N. jetty, head.	13° 00.1' N 42° 45.1' E	F.G.	15 5	5	White round tower, green bands.	
30876 <i>E 6148.6</i>	Fishing harbor.	14° 47.0' N 42° 56.0' E	Q.(2)G. period 6s				
30892 <i>E 6142</i>	Abu Ali Islands.	14° 05.0' N 42° 49.0' E	Fl.(2)W. period 10s	340 104	13	White square building, name on side; 30.	
30893 <i>E 6142.5</i>	Jahal Zuqar Island.	13° 54.9' N 42° 47.7' E	Fl.W. period 7s	115 35	9	Framework tower; 33.	
30893.5 <i>E 6142.7</i>	Hanish As Saghir, Low Island.	13° 52.4' N 42° 49.2' E	Fl.(3)W. period 15s		10	White metal structure; 26.	
30894 <i>E 6142.9</i>	Hanish Al Kabir Island, NE. head.	13° 46.3' N 42° 47.1' E	Fl.(2)W. period 12s		14	Red framework tower, white top; 33.	
BARIM (PERIM):							
30896 <i>E 6152</i>	-Balfe Point, W. extremity of island.	12° 39.7' N 43° 23.2' E	Fl.W. period 4s	44 13	11	Black lantern on stone tower; 26. Visible 343°-192°.	
30900 <i>E 6150</i>	-High Light.	12° 39.0' N 43° 25.0' E	Fl.(4)W. period 15s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 7.9s	278 85	24	Gray stone tower, embattled wall, white lantern; 81.	
30902 <i>D 7318</i>	Ra's al Hadd.	22° 32.0' N 59° 47.9' E	Fl.W. period 10s	138 42	16	White framework tower; 92.	
RACON							
30903 <i>D 7316</i>	-Masirah AVIATION LIGHT.	20° 40.3' N 58° 53.3' E	F.R.	89 27	8	Control tower.	F.R. lights on radio masts NE. and W.
30903.2 <i>D 7316.2</i>	-Ra's Hilf, Milcon, jetty, SW. corner.	20° 41.2' N 58° 52.2' E	Fl.R. period 4s	16 5	3	Metal column.	F.R. 4s 3M shown on dolphins close N. and S.
30903.4 <i>D 7317</i>	-Hilf, N. breakwater, head.	20° 39.0' N 58° 51.9' E	F.R.	16 5	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30903.6 <i>D 7317.2</i>	--Fish factory berth, N. dolphin.	20° 39.0' N 58° 51.8' E	2 F.R. (vert.)	16 5	3		2 F.R. mark walkway.
GULF OF ADEN							
30904 <i>D 7313</i>	Nishtun Port.	15° 49.2' N 52° 11.9' E	Fl.W. period 9s	138 42	18	Red tower, white band; 36.	
30908 <i>D 7313.2</i>	-Breakwater, head.	15° 49.2' N 52° 11.7' E	Fl.R. period 3s fl. 1s, ec. 2s	16 5	4	Concrete pillar; 7.	
30912 <i>D 7314</i>	Port Salalah, E. breakwater, head.	16° 56.8' N 54° 00.9' E	Iso.W. period 2s	36 11	9	Red metal post.	Visible 158°-016°. Horn: Mo(D)
RACON.							
30913 <i>D 7314.2</i>	-Container Terminal, N.	16° 56.9' N 54° 00.6' E	Dir.Oc.W.G. period 10s lt. 8s, ec. 2s	26 8	W G 10 8		G. 257°-264°, G.W.-267°, W.- 277°.
30913.2 <i>D 7314.3</i>	--S.	16° 56.8' N 54° 00.7' E	Dir.Oc.W.R. period 10s lt. 8s, ec. 2s	26 8	W R 10 8		W. 257°-267°, W.R.-270°, R.- 277°.
30913.4 <i>D 7314.5</i>	-Container Berth, W. head.	16° 56.5' N 54° 00.0' E	F.Y.	7 2	5		
30913.7 <i>D 7314.6</i>	-Fishery Harbor, S. breakwater.	16° 57.7' N 54° 00.2' E	L.Fl.R. period 8s				
30913.8 <i>D 7314.7</i>	--N. breakwater.	16° 57.7' N 54° 00.2' E	L.Fl.G. period 8s				
30914 <i>D 7315</i>	Marbat.	16° 59.3' N 54° 41.1' E	Fl.G. period 9s	23 7	6		
30920 <i>D 7312</i>	Al Mukalla.	14° 31.3' N 49° 08.8' E	Fl.W. period 5s		15	White round tower, green bands.	
30921 <i>D 7312.2</i>	-N. breakwater, head.	14° 31.4' N 49° 08.9' E	L.Fl.R. period 10s				
ADEN:							
30928 <i>D 7311</i>	-Airport.	12° 52.3' N 45° 00.3' E	Aero.Oc.R. period 2s	236 72	10		Reserve light F.R. Obstruction light.
30932 <i>D 7311.2</i>	--Airport, NW.	12° 51.0' N 45° 03.0' E	Aero.Oc.R. period 2s	180 55	10		Obstruction light.
30936 <i>D 7304</i>	Ras Marshag.	12° 46.0' N 45° 03.0' E	Oc.W. period 5s lt. 3s, ec. 2s	244 74	23	White tower, black band; 85	Obscured westward by Ras Taih signal station.
30940 <i>D 7308</i>	Elephants Back.	12° 46.0' N 44° 59.0' E	Fl.W.R. period 2.5s fl. 0.2s, ec. 2.3s	188 57	W. R. 26 22	White round stone building; 15.	R. 306°-322°, W.-061°, R.-119°, obscured elsewhere.
30944 <i>D 7309</i>	-Ras Marbut, breakwater, head.	12° 47.4' N 44° 58.2' E	L.Fl.G. period 5s fl. 2s, ec. 3s		10	Green fiberglass tower.	
30948 <i>D 7301</i>	-Jazirat Salil.	12° 44.3' N 44° 55.0' E	Fl.(2)R. period 15s	65 20	3	White tower; 13.	Difficult to distinguish.
30949 <i>D 7302.3</i>	-Breakwater.	12° 45.9' N 44° 56.4' E	L.Fl.R. period 5s fl. 2s, ec. 3s		10	Red metal column; 20.	
30949.1 <i>D 7303</i>	-Pier, head, N.	12° 46.0' N 44° 55.0' E	F.R.		3	Post; 6.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF ADEN							
30949.2 <i>D 7303.2</i>	--S.	12° 46.0' N 44° 55.0' E	F.G.		3	Post; 6.	
30950 <i>D 7302</i>	-Range, front.	12° 47.1' N 44° 53.6' E	Iso.G. period 2s	33 10	10	Metal framework tower, black double diamond topmark, white bands, 60.	Obstruction lights on masts 2.5 miles NNW.
30951 <i>D 7302.1</i>	--Rear, 1.1 km. 300° from front.	12° 47.3' N 44° 53.1' E	Iso.G. period 2s	85 26	10	Metal framework tower, black double diamond topmark, white bands, 85.	Synchronized with front.
30952 <i>D 7272</i>	Ras Bir.	11° 58.6' N 43° 21.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	243 74	20	White round concrete tower, red top; 164.	
30956 <i>D 7274</i>	-Obock Range, front.	11° 58.8' N 43° 17.8' E	Fl.W. period 2s		5	Black and white checkered tower on fort.	
30960 <i>D 7274.1</i>	--Rear, about 700 meters 337°48' from front.	11° 59.2' N 43° 17.6' E	F.W.		5	Round metal tower, black and white checkers; 29.	
30964 <i>D 7273</i>	Obock.	11° 57.6' N 43° 18.0' E	Fl.R. period 4s fl. 1s, ec. 3s	10 3	8	White square tower, red top.	
30968 <i>D 7275</i>	Ille Moucha, NE. point.	11° 43.8' N 43° 12.8' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	66 20	10	Metal framework tower on house; 56.	
30972 <i>D 7276</i>	Ille Maskali, W. point.	11° 42.8' N 43° 08.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	10	Red round metal tower; 66.	May be obscured by sand storms.
TADJOURA (F):							
30980 <i>D 7294</i>	-Entrance Range, front, L-shaped jetty, head.	11° 47.0' N 42° 52.9' E	Q.G.		2		
30984 <i>D 7294.1</i>	--Rear, near root, about 120 meters 003° from front.	11° 47.1' N 42° 52.9' E	Q.G.		2		
DJIBOUTI:							
30988 <i>D 7280</i>	-Entrance Range, front, near Riviere Amboule.	11° 34.0' N 43° 07.0' E	Q.W.	66 20	17	Black square tower, between white walls.	Intensified 003° on each side of range line. May be obscured by sandstorms.
30992 <i>D 7280.1</i>	--Fort Ayabele, rear, 1024 meters 184°24' from front.	11° 33.2' N 43° 07.3' E	Q.W.	105 32	19	White square tower, two black bands, between black walls.	Intensified 003° on each side of range line. May be obscured by sandstorms.
30996 <i>D 7286</i>	-Port du Heron Range, front.	11° 36.9' N 43° 08.7' E	Q.R.			Metal framework tower.	
31000 <i>D 7286.1</i>	--Rear, 210 meters 073° from front.	11° 36.9' N 43° 08.8' E	Q.R.			Metal framework tower.	
31004 <i>D 7285</i>	-Le Heron.	11° 36.7' N 43° 07.9' E	Fl.R. period 4s fl. 1s, ec. 3s		7	White beacon.	Visible 268°-118°.
31008 <i>D 7284</i>	-Recif d'Ambouli, near E. head.	11° 37.0' N 43° 08.0' E	Fl.G. period 4s fl. 1s, ec. 3s	10 3	2	White pyramidal tower, name on side.	
31012 <i>D 7289</i>	-SW. corner Mole du Fontainbleau.	11° 36.4' N 43° 07.8' E	2 F.R. (vert.)	20 6	2	Metal framework tower.	
31016 <i>D 7289.2</i>	-SE, corner Mole du Fontainbleau.	11° 36.3' N 43° 08.0' E	F.R.	20 6	2	Metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF ADEN							
31020 <i>D 7292</i>	-Jetee du Marabout Range, front.	11° 36.6' N 43° 08.2' E	2 F.R. (vert.)				Marks E. limit of dredged channel.
31024 <i>D 7292.1</i>	--Rear, 61 meters 023° from front.	11° 36.6' N 43° 08.2' E	2 F.R. (vert.)				
31028 <i>D 7287</i>	-NW. corner Government Jetty Range, front.	11° 36.2' N 43° 08.2' E	Dir.Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	43 13		Metal framework tower.	G. 098°-099°18', W.-100°42', R.-102°. Occasional.
31032 <i>D 7288</i>	-Banc des Salines, off E. head.	11° 36.1' N 43° 07.6' E	Fl.(3)G. period 12s	10 3	2	Square white concrete beacon.	
31036 <i>D 7283</i>	-AVIATION LIGHT.	11° 33.1' N 43° 09.1' E	Fl.(3+1)W. period 7s	82 25	22	Hangar; 49.	Occasional. Aero Radiobeacon.
BERBERA:							
31040 <i>D 7264</i>	-Tamar Point.	10° 26.6' N 44° 58.9' E	Fl.W. period 9s	74 23	6	Framework tower, white column, black bands.	Radar reflector.
31044 <i>D 7263</i>	-S. of bay.	10° 25.2' N 44° 58.5' E	Oc.W. period 4s lt. 3s, ec. 1s	71 22	7	White tower, black bands.	
31048 <i>D 7266</i>	-Customs pier Range, front.	10° 26.7' N 45° 00.3' E	Oc.R. period 4s lt. 3s, ec. 1s				
31052 <i>D 7266.1</i>	--Rear, 180 meters 068° from front.	10° 26.7' N 45° 00.4' E	Q.R.			Metal framework tower, white diamond daymark; 59.	
BENDER CASSIM (BOSASO):							
31056 <i>D 7260</i>	-Range, front.	11° 17.1' N 49° 10.8' E	F.R.	33 10	5	Black and white checkered lamppost on masonry base; 28.	
31060 <i>D 7260.1</i>	--Rear, about 183 meters 148° from front.	11° 17.1' N 49° 11.0' E	F.R.	51 16	6	Black and white banded tower; 44.	
31064 <i>D 7258</i>	Candala.	11° 28.0' N 49° 52.0' E	L.Fl.(3)W. period 30s fl. 2s, ec. 5s fl. 2s, ec. 5s fl. 2s, ec. 14s		8	Residence.	
31068 <i>D 7256</i>	Alula, on residence.	11° 58.0' N 50° 45.0' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	51 16	12	White metal framework structure; 44.	Unreliable.

Section 20

East Coast of Africa

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOMALIA							
31072 D 7246	Cape Guardafui.	11° 50.0' N 51° 17.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	864 263	18	Round masonry tower on square base; 64.	Unreliable.
31076 D 7242	Ras Hafun, E. point.	10° 26.6' N 51° 24.8' E	Fl.(2)W. period 35s fl. 3s, ec. 4s fl. 3s, ec. 25s	351 107	4	White column on white building, red lantern; 42.	Visible 146°-020°, obscured within 0.8 mile 230°-310°.
31080 D 7239	Bandar Beila.	9° 29.0' N 50° 49.0' E	F.W.		8		
31084 D 7238	Eil Marina.	7° 58.0' N 49° 51.0' E	F.R.	328 100	5	Black and white striped prismatic column; 16.	
31088 D 7236	Obbia (Obiat).	5° 21.0' N 48° 31.0' E	Fl.(3)W. period 10s	105 32	10	Square hut, black and white bands; 33.	Reserve light Fl.W. 5M.
31092 D 7230	Cadale (Itala), E. corner of residence.	2° 45.7' N 46° 19.6' E	Fl.W. period 3s	41 12	8	Gray metal framework; 7.	
MUQDISHO (MOGADISHU):							
31096 D 7218	-Muqdisho.	2° 02.2' N 45° 20.1' E	Fl.W. period 12.5s fl. 1s, ec. 11.5s	243 74	32	White masonry tower; 33.	Aero. obstruction lights on chimney 4 miles SW.
31100 D 7220	-Betel Raz Range, front.	2° 02.0' N 45° 21.0' E	F.R.	49 15	5	White tower, black bands.	Reported extinguished (1989).
31104 D 7220.1	--Rear, 180 meters 311° from front.	2° 01.9' N 45° 20.4' E	F.R.	118 36	5	Truncated pyramid, black bands; 26.	Reported extinguished (1989).
31108 D 7221	-Second Range, front.	2° 01.0' N 45° 20.0' E	Q.W.	62 19		Red and white checkered tower.	Reported extinguished (1989).
31112 D 7221.1	--Rear, 140 meters 274° from front.	2° 01.6' N 45° 20.1' E	Q.W.	88 27		Red and white checkered tower.	Reported extinguished (1989).
31116 D 7224	-Third Range, front.	2° 01.4' N 45° 20.1' E	F.R.			Red and white diagonal stripes.	Reported extinguished (1989).
31120 D 7224.1	--Rear, 90 meters 245° from front.	2° 01.4' N 45° 20.0' E	F.R.			Red and white diagonal stripes.	Reported extinguished (1989).
31124 D 7226	-Port office.	2° 02.2' N 45° 21.2' E	Iso.R. period 6s	56 17	8	Black metal framework structure, white stripes; 5.	Reported extinguished (1989).
31128 D 7223	-S. breakwater, head.	2° 01.0' N 45° 21.0' E	Oc.R. period 6s	36 11	7		Reported extinguished (1989).
31132 D 7222	-Breakwater, head.	2° 02.0' N 45° 21.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	35 11	5	Beacon; 21.	Reported extinguished (1981).
MERCA:							
31136 D 7212	-Range, front, behind Mosque of Sceich Ozman.	1° 43.0' N 44° 46.0' E	F.G.	33 10	4	White tower; 21.	Obscured when bearing less than 315°.
31140 D 7212.1	--Rear, NW. corner of city, about 131 meters 343° from front.	1° 42.8' N 44° 46.1' E	L.Fl.W. period 8.5s fl. 2s, ec. 6.5s	115 35	20	White round concrete tower; 56.	
31144 D 7210	Punta Agarre Range, front.	1° 41.0' N 44° 45.0' E	F.R.	39 12	8	Truncated pyramidal structure, black and white stripes; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOMALIA							
31148 <i>D 7210.1</i>	-El Mugne (Munghia), rear, about 2.2 kilometers 240° from front.	1° 41.0' N 44° 44.0' E	F.R.	49 15	7	Quadrangular pyramid, black and white stripes; 10.	
31152 <i>D 7206</i>	Brava, about 1353 meters 120° from beacon on summit.	1° 07.0' N 44° 02.0' E	Fl.W. period 5s fl. 1s, ec. 4s	177 54	10	White pyramidal tower; 25.	
31156	Fiume Giuba, N. side, about 686 meters E. of village of Giumbo.	0° 16.0' S 42° 37.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	121 37	8	Black square masonry tower on white truncated pyramid; 30.	
BAIA DI CHISIMAYU:							
31160 <i>D 6842</i>	-Isola dei Serpenti.	0° 22.8' S 42° 33.3' E	Fl.W. period 4s	115 35	12	Round masonry tower on white square dwelling.	
			F.R.		5		Visible 250°30'-262°30'.
31161 <i>D 6842.9</i>	-Passo Nord Range, front, 5.75 miles 246°35' to common rear.	0° 22.4' S 42° 33.5' E	Oc.G. period 2s			White beacon.	
31161.5 <i>D 6843</i>	--Common rear.	0° 24.7' S 42° 28.2' E	Q.G.			Black and white beacon.	
31162 <i>D 6843.1</i>	-Passo di Levante Range, front, 0.77 mile 269°25' to common rear.	0° 24.7' S 42° 29.0' E	Oc.G. period 2s			Black and white beacon.	
31163 <i>D 6844</i>	-Passo Interno Range, front.	0° 22.7' S 42° 30.9' E	Oc.G. period 2s	89 27			
31163.1 <i>D 6844.1</i>	--Rear, 360 meters 325°15' from front.	0° 22.6' S 42° 30.8' E	Q.G.			Black and white beacon.	
31164 <i>D 6845</i>	-Harbor entrance Range, front.	0° 22.0' S 42° 32.6' E	Oc.G. period 2s				
31164.1 <i>D 6845.1</i>	--Rear, 830 meters 008° from front.	0° 21.5' S 42° 32.6' E	Q.G.				
31165 <i>D 6846</i>	-Pier, head.	0° 23.2' S 42° 32.5' E	Q.R.		3	Black and white checkered tower surmounted by red lantern; 10.	
31165.2 <i>D 6846.2</i>	-Wharf, NW. head.	0° 23.2' S 42° 32.6' E	F.R.				
31165.4 <i>D 6846.4</i>	--Inner elbow.	0° 23.3' S 42° 32.7' E	F.R.				
31165.6 <i>D 6846.6</i>	--Root.	0° 23.2' S 42° 32.8' E	F.R.				
31166 <i>D 6847</i>	-Range, front.	0° 26.5' S 42° 28.4' E	Oc.G. period 2s			White beacon.	
31166.1 <i>D 6847.1</i>	--Rear, 0.68 mile 234°25' from front.	0° 26.9' S 42° 27.8' E	Q.G.			White beacon.	
31172 <i>D 6848</i>	-Isola Pescicane.	0° 26.3' S 42° 30.6' E	Fl.R. period 4s	22 7	6		

KENYA							
31176 <i>D 6832</i>	Shela Range, front.	2° 17.8' S 40° 54.7' E	Q.W.	20 6	6	Black concrete column, white base.	
31180 <i>D 6832.1</i>	-Rear, 380 meters 014°58' from front.	2° 17.8' S 40° 54.7' E	Fl.W. period 8s	184 56	8	Metal framework tower; 30.	Visible 244°-064°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KENYA							
31188 D 6828	Kipini.	2° 32.0' S 40° 32.0' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	95 29	10	White tower; 30.	
31192 D 6824	Malindi, 168 meters 190° from Vasco da Gama's Pillar.	3° 13.0' S 40° 08.0' E	Fl.W. period 10s fl. 1s, ec. 9s	83 25	14	White framework tower; 44.	F.R. range lights, 212°30', shown 0.6 mile NW.
31196 D 6825	-About 1372 meters 002° from Malindi.	3° 12.7' S 40° 07.7' E	Q.W.R.	18 5	9	White concrete beacon; 29.	W. 063°-254°, R. elsewhere.
31200 D 6820	Kilifi Creek.	3° 38.0' S 39° 52.0' E	Fl.W. period 8s	130 40	9	White metal framework tower, white topmark; 26.	
31204 D 6818	Cannon Point.	3° 58.0' S 39° 46.0' E	Fl.W. period 10s	63 19	11	Square concrete structure, black and white bands; 44.	
MOMBASA:							
31208 D 6772	-Ras Serani Range, front.	4° 04.3' S 39° 40.8' E	Q.W.	85 26	8	White metal tower; 39.	
31212 D 6772.1	--Rear, about 330 meters 301°45' from front.	4° 04.2' S 39° 40.7' E	Fl.W. period 5s fl. 1s, ec. 4s	147 45	18	White stone tower, black bands;	Visible 214°-034°. 108.
31216 D 6774	-Ras Kiberamini Range, front.	4° 03.0' S 39° 41.0' E	Q.W.		8	White column, black bands.	Visible 256°-076°.
31220 D 6774.1	--Rear, 490 meters 346° from front.	4° 02.6' S 39° 40.6' E	Fl.W. period 2s		8	White column.	Visible 256°-076°
31224 D 6775	-Ras Matani.	4° 04.0' S 39° 41.0' E	Q.R.		4	White beacon; 20.	
31228 D 6784	-Entrance Range, front.	4° 05.0' S 39° 40.2' E	Q.W.	37 11	3	White obelisk, black stripe; 25.	Visible 148°-328°.
31232 D 6784.1	--Rear, 354 meters 238° from front.	4° 05.1' S 39° 40.0' E	Fl.W. period 2s	52 16	3	White obelisk, black stripe; 25.	Visible 148°-328°.
31236 D 6796	-Likoni.	4° 05.0' S 39° 40.1' E	Dir.Iso.W.R.G. period 5s	69 21	2	White obelisk; 39.	R. 122°30'-127°30', W.- 130°30', G.-135°30'.
31240 D 6794	-Mtongwe Range, front.	4° 03.5' S 39° 38.4' E	Q.W.	69 21	6	White pillar; 6.	
31244 D 6794.1	--Rear, 250 meters 309° from front.	4° 03.5' S 39° 38.4' E	Fl.W. period 2s	93 28	6	White obelisk; 22.	Visible 220°-040°.
31252 D 6813	-Ras Kikaangoni.	4° 03.0' S 39° 38.0' E	Fl.R. period 3s	14 4		White round beacon, platform.	
31256 D 6812	-Ras Mchangamwe, front.	4° 02.5' S 39° 38.3' E	Q.W.		10	On roof of building.	
31260 D 6812.1	--Rear 200 meters 343° from front.	4° 02.4' S 39° 38.3' E	Fl.W. period 2s		6	Stone beacon; 62.	Visible 253°-073°.
31264 D 6812.5	-No. "13".	4° 02.6' S 39° 38.4' E	Q.(6)+L.FI.W. period 15s			White beacon, double cone topmark, points downward.	
31268 D 6770	Chale Island, SW. extremity.	4° 27.0' S 39° 32.0' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	98 30	12	Silver metal framework tower.	
31272 D 6769	Pungutiayu.	4° 42.0' S 39° 25.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	52 16	10	White glass reinforced plastic tower, black bands; 52.	Visible 105°-025°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
PEMBA ISLAND:							
31276 D 6746	-Ras Kigomasha.	4° 52.7' S 39° 40.8' E	Al.FL.W.R. period 55s	125 38	22	Gray metal framework tower; 89.	Visible 009°-275°.
31280 D 6751	-Matumbe Makupa.	5° 24.0' S 39° 34.0' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 14.6s	107 33	16	White tower, red bands; 100.	<i>Reported extinguished (1997).</i>
31284 D 6748	-Kohani Mkoani Channel Range, front.	5° 22.0' S 39° 39.0' E	Q.R.	12 4	5	Black structure, white bands; 20.	Lights shown only on request to port officer, Zanzibar or representative at Pemba.
31288 D 6748.1	--Rear, 82 meters 127° 40' from front.	5° 21.7' S 39° 38.5' E	Fl.R. period 6s	63 19	5	Black structure, white bands; 20.	
TANGA BAY:							
31296 D 6754	-Ulenge Island Range, front.	5° 00.7' S 39° 10.0' E	Q.W.	38 12	11	White concrete tower; 48.	
31300 D 6754.1	--Rear, 320 meters 319° from front.	5° 00.3' S 39° 08.8' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	85 26	15	White square stone tower, black band; 85.	
31304 D 6758	-Ulenge Reef.	5° 02.4' S 39° 09.8' E	Fl.G. period 6s fl. 0.6s, ec. 5.4s	22 7		White framework beacon.	
31308 D 6756	-Ninule Reef.	5° 04.0' S 39° 12.0' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	24 7		White concrete beacon, red band.	
31312 D 6760	About 714 meters NE. of Tanga Island.	5° 04.0' S 39° 07.0' E	Fl.R. period 2.5s	35 11	5	White concrete tower.	
31316 D 6759.55	-Tanga Island Range, front.	5° 03.5' S 39° 06.7' E	Fl.W. period 2s	35 11	7	White concrete tower.	
31316.1 D 6759.56	--Rear, 75 meters 234° from front.	5° 03.5' S 39° 06.6' E	Fl.W. period 7s		8		
31320 D 6763	-Inner Harbor.	5° 03.9' S 39° 06.8' E	Q.R.	13 4	5	White concrete tower.	
31324 D 6761.4	-Outer end of landing.	5° 04.0' S 39° 06.0' E	F.R.				
31328 D 6759	-Kwawa Reef Beacon.	5° 04.0' S 39° 08.0' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s			White concrete beacon.	
31332 D 6757	-Ras Kazone Range, front.	5° 04.0' S 39° 08.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	28 9	10	White framework structure; 38.	
31336 D 6757.1	--Rear, 560 meters 266° from front.	5° 03.3' S 39° 07.2' E	Fl.W. period 10s	94 29	9	26 foot signal mast on white concrete tower, black stripe; 44.	Traffic signals. Signal station.
ZANZIBAR ISLAND:							
31340 D 6742	-Ras Nungwi.	5° 43.0' S 39° 18.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	60 18	13	White square tower, red lantern; 47.	Obscured when bearing less than 086°.
31344 D 6740	-Mwana Wa Mwana Island, N. extremity.	5° 45.5' S 39° 13.1' E	Fl.W. period 10s fl. 1s, ec. 9s	85 26	14	White square tower; 76.	
31356 D 6738	--Mangapwani, on cliff N. of village.	5° 57.0' S 39° 11.0' E	Fl.W. period 15s	116 35	9	White square tower, red base; 76.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
-Zanzibar Harbor:							
31368 <i>D 6732</i>	--Bet el Ras Range, on beach, front.	6° 07.0' S 39° 13.0' E	F.I.R. period 1.5s	20 6	Beacon; 20.		
31372 <i>D 6732.1</i>	--Rear, 230 meters 042° from front.	6° 07.3' S 39° 12.9' E	Oc.R. period 6s	40 12	Beacon; 42.		Obscured on bearings greater than 085°.
31376 <i>D 6726</i>	--Marubi Palace Gardens Range, front.	6° 08.0' S 39° 12.0' E	Q.W.	32 10	8 White pyramidal stone tower; 20.		
31380 <i>D 6726.1</i>	--Rear, 384 meters 168° from front.	6° 09.0' S 39° 12.0' E	Iso.W. period 6s	93 28	8 White framework on white square stone tower; 42.		Visible 166°-170°.
31384 <i>D 6718</i>	--Shangani.	6° 09.0' S 39° 11.0' E	F.W.	145 44	16 Clock tower.		Red light on radio mast.
31388 <i>D 6721</i>	--Boat camber, wharf, head.	6° 09.0' S 39° 11.0' E	F.R.	16 5	5 White metal column, black bands; 10.		
31392 <i>D 6722</i>	--Shangani, boat camber breakwater, head.	6° 09.2' S 39° 11.6' E	F.G.	20 6	3 Black steel framework structure, white concrete base.		
31404 <i>D 6706</i>	--SW. of Kiungani Mission Range, front.	6° 11.3' S 39° 11.9' E	Q.W.	30 9	8 White square metal framework tower, black stripe; 45.		
31408 <i>D 6706.1</i>	--Rear, 1006 meters 033° from front.	6° 10.9' S 39° 12.3' E	Fl.I.W. period 6s fl. 1s, ec. 5s	130 40	8 White beacon; 43.		
31416 <i>D 6704</i>	-Chumbe.	6° 17.0' S 39° 10.6' E	Fl.W. period 11s fl. 1s, ec. 10s	122 37	16 White square tower; 113.		Visible 299°-196°.
31424 <i>D 6702</i>	-Pungume Island.	6° 26.0' S 39° 20.0' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	85 26	15 White square tower, black stripes; 71.		
31428 <i>D 6700</i>	Ras Makunduchi.	6° 25.8' S 39° 33.7' E	Fl.(2)W. period 15s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 11.9s	145 44	18 White tower, red bands; 90.		Reported extinguished (1989).
DAR ES SALAAM:							
31431 <i>D 6673</i>	-Inner Makatumbe range "LM7", front in line 051° with Outer Makatumbe rear light.	6° 47.7' S 39° 19.9' E	Q.W.	49 15			
31432 <i>D 6672</i>	-Outer Makatumbe.	6° 47.5' S 39° 20.2' E	Fl.(3)W. period 20s	96 29	15 White square tower, red bands; 95.		
	-Rear light "LM8".		Oc.W.		Same structure.		
31436 <i>D 6674</i>	-Oyster Bay Range, outer anchorage, front.	6° 47.0' S 39° 17.2' E	Q.W.	65 20	12 White stone tower, red top; 29.		
31440 <i>D 6674.1</i>	--Rear, 400 meters 247° from front.	6° 47.0' S 39° 17.0' E	Fl.W. period 7.5s	123 37	17 White stone tower, red stripe; 85.		
31444 <i>D 6684</i>	-Ras Rangoni Range "LM3", front.	6° 48.9' S 39° 18.8' E	Q.W.	36 11			
31448 <i>D 6684.1</i>	--Rear "LM4", 260 meters 188° from front.	6° 49.1' S 39° 18.8' E	Iso.W.	72 22			
31451 <i>D 6698</i>	-Range "LM11", front.	6° 49.2' S 39° 17.3' E	Q.W.	56 17			
31451.1 <i>D 6698.1</i>	--Rear "LM12", 255 meters 333°42' from front.	6° 49.1' S 39° 17.3' E	Iso. W.	82 25			
31453 <i>D 6697</i>	-Vijibweni Range "LM9", front.	6° 51.3' S 39° 18.3' E	Q.W.	69 21			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
31453.1 <i>D 6697.1</i>	--Rear "LM10", 100 meters 153°42' from front.	6° 51.3' S 39° 18.4' E	Iso.W.	89 27			
31476 <i>D 6694</i>	-Kurasini Range "LM5", front.	6° 49.8' S 39° 17.3' E	Q.W.	118 36			
31480 <i>D 6694.1</i>	--Rear "LM6", 240 meters 231° from front.	6° 49.9' S 39° 17.2' E	Iso.W.	144 44			
31484 <i>D 6668</i>	Ras Kanzi, S. of Ras Kimbiji.	7° 01.0' S 39° 33.0' E	Fl.W. period 10s	91 28	10	Gray square tower; 40.	Visible 172°-004°.
31492 <i>D 6666</i>	Ras Mkumbi.	7° 38.0' S 39° 55.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	102 31	16	Square tower, red and white bands; 98.	<i>Reported extinguished (1986).</i>
LINDI RIVER:							
31500 <i>D 6654</i>	-Ras Shuka.	9° 58.9' S 39° 48.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	50 15	6	White tower; 20.	
31504 <i>D 6656</i>	-Entrance Range, front.	9° 59.4' S 39° 42.8' E	Fl.W. period 2s fl. 0.8s, ec. 1.2s	22 7	9	Gray concrete obelisk; 12.	
31508 <i>D 6656.1</i>	--Rear, 1000 meters 240° from front.	10° 00.3' S 39° 42.3' E	L.Fl.W. period 6s fl. 2s, ec. 4s	178 54	15	Gray wooden beacon; 30.	
31516 <i>D 6650</i>	Ras Msamgamkuu.	10° 12.2' S 40° 14.7' E	Fl.W. period 10s fl. 1s, ec. 9s	85 26	11	White metal framework tower; 68.	Obscured from 290°-054°. <i>Reported extinguished (1987).</i>
31520 <i>D 6651</i>	Mtware Harbor Range, front.	10° 14.7' S 40° 12.0' E	Q.W.	40 12	7	White framework tower; 30.	
31524 <i>D 6651.1</i>	-Rear, 225 meters 154° from front.	10° 14.9' S 40° 12.9' E	Fl.W. period 2.5s	63 19	9	White framework tower; 30.	
31528 <i>D 6653</i>	Ras Jandoni Range, front.	10° 15.0' S 40° 12.0' E	Fl.W. period 2s				
31532 <i>D 6653.1</i>	-Rear, 715 meters 189° from front.	10° 15.7' S 40° 11.6' E	Fl.(2)W. period 5s				
MOZAMBIQUE							
31536 <i>D 6648</i>	Cabo Delgado.	10° 41.5' S 40° 38.1' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	138 42	16	White hexagonal concrete tower, dwelling; 118.	Signal station.
31540 <i>D 6647</i>	Ilha Vamizi, E. point of island.	11° 01.0' S 40° 43.0' E	Fl.(2)W. period 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 3.4s	43 13	8	Truncated conical white tower.	
BAIA MOCIMBOA DA PRAIA:							
31544 <i>D 6646</i>	-Comangano, NE. of Ponta Vermelha.	11° 19.0' S 40° 24.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	30 9	6	White metal tower, white quadrangular base; 16.	
31548 <i>D 6645</i>	-Ilha Lipulula, E. point of island.	11° 20.0' S 40° 22.0' E	Fl.G. period 4s fl. 0.4s, ec. 3.6s	17 5	5	Metal pyramidal tower, white quadrangular base; 16.	
31552 <i>D 6644</i>	Ponta Rovura.	11° 20.6' S 40° 23.2' E	Fl.R. period 4s	23 7	6	White truncated pyramidal tower, on masonry base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks	
MOZAMBIQUE								
31556 D 6642	Ilha Tambuzi.	11° 22.1' S 40° 39.2' E	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	121 37	15	Round concrete tower, black and white bands; 85.		
31560 D 6641	Ilheu Quero-Niuni.	11° 38.0' S 40° 33.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	30 9	6	White square tower.	Radar reflector.	
31564 D 6640	Ilha Medjumbe, E. point.	11° 48.9' S 40° 36.4' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	105 32	10	White truncated conical concrete tower; 85.		
31568 D 6636	Ilha do Ibo, Mujaca Island, N. head.	12° 20.0' S 40° 37.0' E	Fl.W. period 12s fl. 0.6s, ec. 11.4s	59 18	10	White tower and dwelling; 49.		
31572 D 6637	-Porto do Ibo.	12° 21.0' S 40° 35.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	19 6	5	White tower, black band; 20.		
31576 D 6634	Ponta do Diabo.	12° 45.0' S 40° 38.0' E	Fl.W. period 7s fl. 0.7s, ec. 6.3s	27 8	8	White skeleton quadrangular tower; 13.		
BAIA DE PORTO AMELIA:								
31580 D 6628	-Ponta Said-Ali.	12° 55.7' S 40° 30.9' E	Fl.G. period 4s	33 10	5	White cubic base, red tower; 29.		
31584 D 6630	-Ponta Romero.	12° 57.0' S 40° 30.5' E	Fl.R. period 4s	26 8	5	White conical beacon; 16.		
31588 D 6632	-Ponta Mepira.	12° 57.8' S 40° 29.1' E	Fl.R. period 2s	17 5	5	Red round tower, concrete base; 19.		
31592 D 6624	-Ponta Maunhane.	12° 58.3' S 40° 35.4' E	Fl.W. period 5s	75 23	16	Black masonry column, white band on square masonry base, white dwelling nearby; 39.		
31596 D 6622	Punta Uifundo.	13° 24.0' S 40° 35.0' E	Fl.(2)W. period 16s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 12s	112 34	11	Red skeleton tower; 69.		
31600 D 6620	Chaonde Point, Baia Almeida.	13° 42.0' S 40° 33.0' E	Fl.W. period 10s fl. 1s, ec. 9s	151 46	9	White rectangular hut; 7.		
31604 D 6618	Pinda.	14° 12.5' S 40° 42.8' E	Fl.(2)W. period 10s	210 64	24	Black round masonry tower, white bands, red top; 102.		
31608 D 6611	Cabo Melamo.	14° 24.0' S 40° 48.0' E	Iso.W. period 4s	32 10	14	White quadrangular framework tower; 20.	Radar reflector.	
PORTO DE NACALA:								
31612 D 6612	-Ponta Sacamulo.	14° 28.0' S 40° 40.0' E	Fl.G. period 2s	26 8	5	White framework tower on square tower; 16.	Visible 163°-013°. Radar reflector.	
31616 D 6611.3	-W. side entrance.	14° 27.0' S 40° 39.0' E	Fl.(3)W.R.G. period 9s	35 11	W. R. G.	12 8 8	White framework tower square tower; 20.	G. 200°-233°, W.-241°, R.-271°.
31620 D 6612.4	-Nacala Range, front.	14° 29.0' S 40° 41.0' E	Q.R.	23 7	12	White tripod, triangular daymark, point up; 13.		
31624 D 6612.5	-Rear, 567 meters 155°30' from front.	14° 29.4' S 40° 40.8' E	Iso.R. period 4s	125 38	12	White beacon, triangular daymark, point down; 10.		
31628 D 6611.6	-Fernao Veloso, on Punta Naarenque.	14° 27.3' S 40° 40.5' E	Fl.R. period 3s	26 8	6	White square tower, pyramidal framework structure on top; 16.	Visible 357°-242°. Radar reflector.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31632 <i>D 6613</i>	-Ponta Zuani, on spit.	14° 30.0' S 40° 40.0' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	17 5	5	White 3-pile concrete structure; 16.	
31636 <i>D 6614</i>	-Ponta Namuaxi.	14° 31.0' S 40° 40.0' E	Fl.G. period 4s	17 5	5	White 3-pile concrete structure;	Visible 178°-025°.
31640 <i>D 6610</i>	Ponta Onlungune, Janga.	14° 41.0' S 40° 50.2' E	Fl.(3)W. period 13.5s	46 14	10	White quadrangular concrete skeleton tower, black bands; 39.	
PORTO DE MOCAMBIQUE:							
31652 <i>D 6602</i>	-Ilheu de Sao Lourenco, No. "1" Range, front.	15° 03.3' S 40° 43.5' E	Fl.W. period 3.4s fl. 0.4s, ec. 3s	10 3	14	White triangular daymark, point up; 7.	Visible 232°-322°.
31656 <i>D 6602.1</i>	--Sancul, rear, 3.5 km. 260° from front.	15° 01.8' S 40° 44.4' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	70 21	5	Tower on triangular pyramid; 52.	Visible 224°-284°.
31660 <i>D 6598</i>	-Entrance Range No. "2", front.	15° 03.2' S 40° 47.0' E	Q.W.	45 14	6	White tower on pyramid; 46.	Visible 107°30'-167°30'.
31661 <i>D 6598.1</i>	--Ilha de Goa, rear, 410 meters 127° from front.	15° 03.2' S 40° 47.4' E	Fl.(4)W. period 10s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 4.8s	98 30	27	Square masonry tower, black and white bands, on dwelling; 102.	Aeromarine light.
31672 <i>D 6606</i>	-Customhouse Pier, NW. side of Ilha de Mocambique.	15° 02.0' S 40° 44.0' E	F.R.	9 3	3	Shown from top of white tide gauge; 7.	
31676 <i>D 6606.1</i>	--Middle of pier.	15° 01.2' S 40° 44.2' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	9 3	3	Shown from top of white sentry hut; 13.	In line with pierhead light indicates anchorage range.
31680 <i>D 6604</i>	-Capitania.	15° 02.0' S 40° 44.0' E	F.G.	50 15	5	White watch tower; 49.	
31684 <i>D 6596</i>	Ponta Namalungo.	15° 38.0' S 40° 25.0' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	276 84	10	White quadrangular concrete tower; 62.	Visible 227°-029°. Reserve light F.W.
31688 <i>D 6592</i>	Sangage.	15° 59.7' S 40° 07.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	306 93	19	Dark red hexagonal concrete tower, white bands; 85.	
PORTO DE ANTONIO ENES:							
31692 <i>D 6591</i>	-Parapato.	16° 13.0' S 39° 54.0' E	Q.W.	220 67	9	White metal truncated tower red bands, semaphore; 26.	Signal station.
31696 <i>D 6591.2</i>	-Baixo Monico.	16° 15.0' S 39° 54.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	13 4	4	Red and white banded beacon.	
31700 <i>D 6591.4</i>	-Port office.	16° 14.0' S 39° 54.0' E	F.G.	37 11	4	White quadrangular concrete tower, hut; 28.	
31704 <i>D 6590</i>	Ilha de Mafamede, middle of island.	16° 21.3' S 40° 01.8' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	78 24	12	White heptagonal tower; 82.	
31708 <i>D 6586</i>	Ponta Caldeira.	16° 39.3' S 39° 30.2' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 6.1s	164 50	18	Octagonal concrete tower, dwelling; 86.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31712 <i>D 6582</i>	Ihla Epidendron.	17° 05.2' S 39° 07.1' E	Fl.(2)R. period 8s	102 31	8	White square framework tower, red bands; 79.	
	RACON		D(-••)				
31716 <i>D 6580</i>	Ilha do Fogo, E. side.	17° 14.2' S 38° 53.0' E	Fl.W.R.G. period 12s	115 35	14	White quadrangular skeleton tower; 111.	
31720 <i>D 6576</i>	Ponta Matirre.	17° 16.5' S 38° 11.2' E	Fl.(2+1)W. period 12s	165 50	14	White metal framework tower, red bands; 43.	Signal station.
31724 <i>D 6575</i>	Macuse, on Ponta Namerrumo Point, W. side of entrance to Rio Macuse.	17° 47.0' S 37° 11.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	69 21	4	White square concrete framework tower; 66.	
PORTO DE QUELIMANE:							
31732 <i>D 6573.4</i>	-Port office.	17° 52.7' S 36° 52.9' E	F.G.	23 7	5	Red column; 10.	
31736 <i>D 6574</i>	-Recamba.	17° 53.4' S 36° 52.8' E	Fl.R. period 6s fl. 0.4s, ec. 5.6s	23 7	3	Red column; 16.	
31740 <i>D 6570</i>	Vilhena.	18° 05.8' S 36° 55.3' E	Fl.(2)W. period 12s fl. 0.8s, ec. 4.5s fl. 0.8s, ec. 5.9s	102 31	14	Red metal framework tower, white bands; 89.	
31744 <i>D 6566</i>	Porto do Chinde, Farol Inhamiara.	18° 31.2' S 36° 31.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	14	White concrete quadrangular framework structure; 33.	
31748 <i>D 6567</i>	Praia do Chinde, about 1 mile SW. of Pta. Liberal.	18° 36.0' S 36° 28.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	35 11	7	White concrete quadrangular framework structure; 36.	Reported extinguished (1983).
31752 <i>D 6564</i>	Ilha Timbue.	18° 49.8' S 36° 20.9' E	Fl.W. period 8s fl. 0.8s, ec. 7.2s	135 41	13	Quadrangular metal tower, red and white bands; 128.	
31756 <i>D 6563</i>	Machesse.	19° 16.8' S 35° 33.0' E	Fl.(2)W. period 10.1s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 7s	154 47	14	Metal tower, red bands; 131.	
31760 <i>D 6562</i>	Savane.	19° 40.0' S 35° 10.0' E	L.Fl.W. period 12s fl. 2s, ec. 10s	172 52	7	Quadrangular metal tower, white and black bands; 131.	
31764 <i>D 6553</i>	Rio Macuti.	19° 50.6' S 34° 54.0' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.7s	118 36	19	White round tower, black bands, on dwelling; 92.	Signal station. Radio beacon. Aero Radio beacon 5 miles NNW.
	RACON		M(--)		15		
31768 <i>D 6554</i>	--Antenna Tower.	19° 50.0' S 34° 52.0' E	Aero.Iso.R. period 2.5s	294 90	12	Metal framework tower; 292.	Obstruction light. 3 F.R. (vert.) lights on tower.
31772 <i>D 6557</i>	-Buoy "A".	19° 56.2' S 35° 02.8' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	-RACON		C(-•--•)		15		
31776 <i>D 6556</i>	-Cabedelo.	19° 50.2' S 34° 49.8' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	16 5	3	Metal mast; 13.	
31777 <i>D 6557</i>	-Macuti Approach Buoy.	20° 10.0' S 35° 19.9' E	Fl.(2)W. period 10s				
	-RACON		M(--)		15		
31780 <i>D 6548</i>	Ilha Chiloane Chingune Point.	20° 36.7' S 34° 53.3' E	F.W.	26 8	8	Metal support above white tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31784 <i>D 6546</i>	Ponta Ingomaimo, N. extremity.	20° 43.0' S 35° 00.0' E	Fl.W. period 6s fl. 0.8s, ec. 5.2s	141 43	13	White hexagonal concrete tower, black band; 131.	
31788 <i>D 6540</i>	Cabo Bazaruto.	21° 31.5' S 35° 29.4' E	Fl.(3)W. period 30s	381 116	23	White round tower, dwelling adjacent; 85.	Visible 020°-357°.
31792 <i>D 6542</i>	Ilha do Santa Carolina.	21° 37.0' S 35° 19.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	73 22	8	Square concrete tower; 23.	
31796 <i>D 6544</i>	Mucoque, on Ponta Chue.	21° 59.0' S 35° 19.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	56 17	5	White column, lantern on quadrangular closed tower; 13.	
31800 <i>D 6538</i>	Ponta Sao Sebastiao, near S. end of spit.	22° 16.0' S 35° 32.0' E	Fl.(5)W. period 15s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 6.6s	125 38	12	Red tower, white dwelling; 26.	
31804 <i>D 6536</i>	Ponta da Barra Falsa.	22° 57.0' S 35° 36.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.3s fl. 0.3s, ec. 7.1s	404 123	18	White quadrangular tower; 46.	
31808	<i>Inhambane Lighted Buoy</i> , 914 meters E. of bar.	23° 40.0' S 35° 30.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s			Black and white striped buoy.	
31812 <i>D 6532</i>	Ponta da Barra.	23° 47.5' S 35° 32.3' E	Fl.(3)W. period 10s	81 25	29	White round tower; 44.	Signal station.
31816 <i>D 6530</i>	Cabo das Correntes.	24° 06.0' S 35° 30.0' E	Fl.(4)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	112 34	13	White square tower; 16.	
31820 <i>D 6528</i>	Ponta Zavora.	24° 31.5' S 35° 11.9' E	Fl.W. period 10s	220 67	19	White masonry tower, attached dwelling; 53.	Signal station.
RACON							
			Z(---••)				
31824 <i>D 6526</i>	Quissico.	24° 44.8' S 34° 48.3' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	188 57	10	White square concrete skeleton structure; 20.	Reported extinguished (1987).
31828 <i>D 6524</i>	Baizos da Boa Paz.	24° 57.0' S 34° 10.0' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 5.3s	244 74	15	White round concrete tower; 26.	
BAIA DE LOURENCO MARQUES:							
31832 <i>D 6522</i>	-Monte Belo.	25° 11.2' S 33° 30.1' E	Fl.W. period 4.5s	305 93	20	White round stone tower above dwelling; 46.	
31836 <i>D 6491</i>	-Lacerda.	25° 33.7' S 32° 50.7' E	Fl.(3)W. period 12s	200 61	5	Silver framework tower, white rectangular daymark; 33.	Difficult to distinguish due to vegetation.
-RACON							
31838	-Buoy No. "1N".	25° 38.3' S 32° 53.0' E	Q.W.			N. CARDINAL BY, pillar, topmark.	
-RACON							
31840 <i>D 6491.4</i>	-Macomana.	25° 40.6' S 32° 46.2' E	Fl.W. period 10s		12	Tripod on white building.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31844 <i>D 6492</i>	-Barra Sul Range, front.	25° 58.2' S 32° 59.0' E	Q.W.	72 22	6	Concrete tripod; 75.	Visible 138°-198°. Unreliable. When lit this lead may not necessarily mark the center of the channel.
31848 <i>D 6492.1</i>	-Cabo da Inhaca, rear, 814 meters 142°30' from front.	25° 58.6' S 32° 59.3' E	Fl.(2+1)W. period 15s	357 109	23	White hexagonal tower; 102.	Aeromarine light. Visible 224°-212°.
			Iso.R. period 4s		12		Visible 212°-224° over Baixo Danae Shoal.
31860	-Buoy No. "3S".	25° 52.1' S 32° 54.0' E	Fl.(3)R. period 9s			PORT (A) R, can.	
	-RACON		G(-- •)				
31868 <i>D 6500</i>	-Baixo Ribeiro.	25° 54.6' S 32° 48.1' E	Iso.W.R. period 5s	W. 11 R. 8	White round concrete structure.	R. 075°-244°, W.-075°.	
31876 <i>D 6503</i>	-Canal da Polana Range, front.	25° 57.9' S 32° 37.5' E	Oc.W. period 8s	46 14	25	Red rectangular daymark, yellow stripe; 39.	Visible 250°-255°.
	-RACON		KT(- • - -)				
31880 <i>D 6503.1</i>	--Miradouro, rear, 2976 meters 252°30' from front.	27° 58.5' S 32° 35.7' E	Oc.W. period 8s	180 55	25	Red square daymark, yellow stripe.	Visible 250°-255°.
	--RACON		TS(- • •)				
31884 <i>D 6508</i>	--No. "2" Range, front.	25° 59.7' S 32° 34.7' E	Oc.R. period 4s	23 7	12	Concrete pile structure, red rectangular daymark, yellow stripe; 36.	Visible 219°-259°.
31888 <i>D 6508.1</i>	--Catembe rear, S. bank of river 1865 meters 239° from front.	26° 00.4' S 32° 33.8' E	Oc.R. period 4s	98 30	12	Red rectangular daymark, yellow stripe; 39.	Visible 219°-259°.
31892 <i>D 6512</i>	--Pier, head.	25° 58.7' S 32° 33.7' E	Fl.R. period 5s	10 3	5	White concrete column.	Visible 135°-355°.
31896 <i>D 6514</i>	-Luz do Cais, NW. extremity of Molhe da Capitania.	25° 58.5' S 32° 34.2' E	Fl.(2)G. period 6s	28 9	4	White round building, gallery and mast; 23.	Visible 295°-125°.
31900 <i>D 6517</i>	-Dredged channel, No. "1" Range, front.	25° 56.5' S 32° 30.2' E	Oc.R. period 8s	16 5	12	Framework tower, red rectangular daymark, yellow stripe.	Visible 276°-316°.
31904 <i>D 6517.1</i>	--Rear, about 805 meters 296° from front.	25° 56.5' S 32° 29.8' E	Oc.R. period 8s	75 23	12	Framework tower, red rectangular daymark, yellow stripe.	Visible 276°-316°. Synchronized with front.
31908 <i>D 6518</i>	-Dredged channel, No. "2" Range, front.	25° 57.1' S 32° 31.3' E	Iso.G. period 4s	39 12	10	Top of pump house.	Visible 050°-090°. F.R. lights 90 meters apart mark jetty.
31912 <i>D 6518.1</i>	--Rear, 1,527 meters 070° from front.	25° 56.9' S 32° 32.6' E	Iso.G. period 4s	124 38	10	Framework tower, red rectangular daymark, yellow stripe.	Visible 050°-090°.
31916 <i>D 6519</i>	-Matola anchorage Range, front.	25° 57.7' S 32° 29.7' E	F.G.	43 13	5	Metal column, whitebanded diamond daymark, red lantern.	
31920 <i>D 6519.1</i>	--Rear, about 520 meters 022° from front.	25° 57.5' S 32° 29.8' E	F.G.	56 17	5	Metal column, white banded diamond daymark, green lantern.	
31924 <i>D 6520</i>	--S. silo of cement factory.	25° 57.5' S 32° 29.3' E	F.G.	69 21	5		
31928 <i>D 6488</i>	Ponta do Ouro.	26° 51.4' S 32° 53.3' E	Fl.(2)W. period 10s	374 114	15	White concrete tower on white dwelling; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
31932 <i>D 6486</i>	Jesser Point.	27° 33.1' S 32° 40.7' E	Fl.(4)W. period 40s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 24s	200 61	25	White round tower; 36.	Shown by day.
31936 <i>D 6485</i>	Cape Vidal.	28° 08.8' S 32° 33.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	213 65	25	Yellow round concrete tower; 75.	Shown by day.
31940 <i>D 6484</i>	Cape St. Lucia.	28° 30.9' S 32° 24.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	371 113	24	Metal tower, black and white bands; 26.	Visible 210°-030°.
31944 <i>D 6483</i>	Richard's Bay.	28° 46.5' S 32° 07.7' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 9.8s	236 72	25	White concrete tower; 36.	
31948 <i>D 6483.2</i>	-Range, front.	28° 47.5' S 32° 02.2' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	180 55			F.R. by day.
31952 <i>D 6483.21</i>	--Rear, 0.8 mile 290°15' from front.	28° 47.0' S 32° 00.5' E	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	240 73			F.W. by day.
31956 <i>D 6483.4</i>	-S. breakwater, head.	28° 48.9' S 32° 05.6' E	Fl.W. period 3s	52 16	6	Red tower, white bands.	
-RACON							
31960 <i>D 6483.45</i>	-N. breakwater, head.	28° 48.5' S 32° 05.8' E	Fl.(2)G. period 5s	49 15	6	Black tower, white bands.	
31962 <i>D 6483.5</i>	-N. Headland.	28° 48.4' S 32° 05.6' E	F.G.			Brick tower.	
31963 <i>D 6483.52</i>	-Pelican Island, W. groin, S. head.	28° 47.9' S 32° 05.1' E	Q.G.	29 9	3	Post; 16.	
31963.2 <i>D 6483.53</i>	--N. head.	28° 47.7' S 32° 05.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	3	Post; 16.	
31963.4 <i>D 6483.54</i>	--E. groin.	28° 48.0' S 32° 05.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	29 9	3	Post; 16.	
31963.6 <i>D 6483.57</i>	--E. breakwater.	28° 47.9' S 32° 05.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	3	Post; 16.	
31964 <i>D 6482</i>	Durnford Point.	28° 55.0' S 31° 55.0' E	Fl.(3+1)W. period 40s	161 49	18	White metal framework tower, white square daymark; 39.	Visible 246°-070°.
RACON							
31968 <i>D 6480</i>	Umhlanga Rocks.	29° 43.7' S 31° 05.3' E	Fl.(3)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 14.7s	79 24	24	White round concrete tower, red top, near large white building; 69.	
F.R.							
31972 <i>D 6481</i>	Tugela Bluff.	29° 13.3' S 31° 30.3' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	115 35	23	Metal framework tower, round daymark; 69.	Shown by day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
DURBAN:							
31974 <i>D 6461</i>	-Anglo-American Building.	29° 51.5' S 31° 01.3' E	Fl.W. period 7s	472 144	25	Building.	Private light.
31975 <i>D 6461.5</i>	-Holiday Inn.	29° 51.2' S 31° 02.3' E	F.W.	357 109	8	Building.	Private light.
31976 -Fairway Buoy.		29° 50.0' S 31° 05.6' E	Iso.W. period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		B(-•••)		12		
31977 <i>D 6463</i>	-The Bluff, AVIATION LIGHT.	29° 53.3' S 31° 02.8' E	F.R.		5		Obstruction light.
31978 <i>D 6464</i>	-S. breakwater, head.	29° 51.9' S 31° 03.9' E	Fl.(2)W. period 5s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 3.7s	46 14	17	White round concrete structure; 20.	
31980 <i>D 6466</i>	-N. pier.	29° 52.0' S 31° 03.6' E	Fl.G. period 3s	26 8	6	Black metal column; 16.	
31984 <i>D 6472</i>	-Channel Range, front.	29° 53.1' S 31° 02.8' E	Iso.R. period 2s	69 21	12	Gray tower, yellow triangular daymark, point up.	
31988 <i>D 6472.1</i>	--Rear, 1040 meters 215°30' from front.	29° 53.6' S 31° 02.4' E	Oc.W. period 4s	141 43	14	Gray tower, yellow triangular daymark, point down.	
31989 <i>D 6473</i>	-S. Side.	29° 52.3' S 31° 03.5' E	Q.R.			Caisson.	
31989.5 <i>D 6473.2</i>	--E. side of entrance channel.	29° 52.4' S 31° 03.4' E	Q.R.			Caisson.	
31990 <i>D 6473.3</i>	-Salisbury Island, N. corner pier.	29° 52.8' S 31° 02.5' E	Q.(2)W. period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s			Metal column.	
31991 <i>D 6473.22</i>	-Entrance channel, N. side.	29° 52.4' S 31° 03.3' E	Q.G.			Caisson.	
31992 <i>D 6475</i>	-Island View Channel Range, front.	29° 53.5' S 31° 01.6' E	Fl.W. period 3s	72 22		Black tower, yellow triangular daymark, point up.	
31996 <i>D 6475.1</i>	--Rear, 84 meters 243° 30' from front.	29° 53.4' S 31° 01.5' E	Oc.R. period 4s	82 25		Black tower, yellow triangular daymark, point down.	
31997 <i>D 6475.2</i>	-Small craft basin, W. head.	29° 51.8' S 31° 01.7' E	Fl.(2)R. period 5s				
31998 <i>D 6475.3</i>	--E. head.	29° 51.8' S 31° 01.7' E	Fl.(2)G. period 5s				
31999 <i>D 6476</i>	-S. corner, T-Jetty, head.	29° 52.3' S 31° 02.1' E	Fl.G. period 1.5s				
32000 <i>D 6478</i>	-Beach Anchorage Beacon.	29° 48.8' S 31° 02.3' E	Q.W.	52 16	5	Black column.	F.W. by day.
32001 <i>D 6476.2</i>	--NW. head.	29° 52.2' S 31° 02.0' E	Q.W.				
32002 <i>D 6477</i>	-No. "1" Pier, NE. corner.	29° 52.5' S 31° 02.0' E	Fl.R. period 3s			Metal column.	
32003 <i>D 6477.2</i>	--NW. corner.	29° 52.6' S 31° 01.8' E	Fl.W. period 3s			Metal column.	
32005 <i>D 6477.4</i>	-No. "2" pier, NE. corner.	29° 52.7' S 31° 01.4' E	Q.(2)R. period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s			Metal column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32006 <i>D 6477.5</i>	-Fish wharf.	29° 54.1' S 31° 00.4' E	Q.G.	20 6	2	Gray pole on yellow base.	
32020 <i>D 6458</i>	Cooper.	29° 56.1' S 31° 00.3' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	436 133	26	Red concrete tower, white band, red lantern; 69.	
32024	S.B.M.	30° 00.5' S 30° 58.4' E	Fl.W. period 3s				
32028	Widenham RACON	30° 13.3' S 30° 47.5' E	K(-•-) period 120s				
32032 <i>D 6454</i>	Green Point.	30° 15.0' S 30° 46.8' E	Fl.(2)W. period 15s	279 85	30	Red round metal tower, white bands; 69.	Visible 213°-022°. F.R. lights on radio tower 3.3 miles SW.
			F.R.	248 76	15	Red round iron tower, white bands; 69.	Visible over Aliwal Shoal 268°- 298°.
32036	Scottburgh RACON	30° 17.2' S 30° 45.4' E	G(-•) period 120s				
32040 <i>D 6452</i>	Ifafa Beach.	30° 27.8' S 30° 39.1' E	Fl.(3)W. period 30s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 19.3s	115 35	19	Metal framework tower, triangular daymark, point up; 75.	Shown by day.
32044 <i>D 6450</i>	Port Shepstone.	30° 44.5' S 30° 27.5' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	79 24	26	Black and white checkered metal tower, white lantern; 26.	Visible 215°-028°. F.R. and Q.W. lights on radio tower 8.7 miles W.
32048 <i>D 6448</i>	North Sand Bluff.	31° 03.4' S 30° 13.5' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	125 38	24	White round concrete tower, red lantern; 72.	Visible 217°-034°.
32052 <i>D 6446</i>	South Sand Bluff.	31° 19.7' S 29° 57.7' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	266 81	16	Steel tower, white spherical daymark.	
32056 <i>D 6442</i>	Cape Hermes.	31° 38.1' S 29° 33.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	180 55	21	White octagonal stone tower; 43.	Visible 230°-040° and to 159° in the entrance.
32060 <i>D 6438</i>	Mbashe Point.	32° 14.4' S 28° 54.9' E	Fl.(2+1)W. period 38s fl. 0.3s, ec. 5.1s fl. 0.3s, ec. 16s fl. 0.3s, ec. 16s	151 46	28	White metal framework tower, red lantern; 46.	
32064 <i>D 6434</i>	Cape Morgan.	32° 42.4' S 28° 21.9' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	197 60	24	Square on framework tower, black and yellow bands; 39.	
EAST LONDON:							
32068 <i>D 6432</i>	-Nahoon Point.	32° 59.9' S 27° 56.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	222 68	8	White tower, red band.	
32072 <i>D 6426</i>	-E. breakwater, head.	33° 01.6' S 27° 55.1' E	Q.G.	32 10	2	White tower	
32076 <i>D 6424</i>	-S. breakwater, head.	33° 01.6' S 27° 55.5' E	Oc.R. period 2s	49 15	10	White tower.	Horn: Mo.(Q) ev. 30s (bl. 2.5s, si. 2s, bl. 2.5s, si. 2s, bl. 1s, si. 2s, bl. 2.5s, si. 15.5s), Sounded on request to Port Control.
32080 <i>D 6424.2</i>	--Root.	33° 01.7' S 27° 55.2' E	Q.W.				Obscured 224°-044°. For use inside harbor.
32084 <i>D 6428</i>	-Castle Point Range, front.	33° 01.7' S 27° 54.9' E	F.R.	68 21		Metal framework tower, white triangular daymark, point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32088 <i>D 6428.1</i>	--Rear, about 273 meters 249°45' from front.	33° 01.8' S 27° 54.7' E	Oc.W. period 3s	121 37		Grain elevator gantry, yellow diamond daymark.	
32092 <i>D 6420</i>	Hood Point.	33° 02.4' S 27° 53.9' E	Fl.(4)W. period 40s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 25.4s	180 55	28	White round tower, red lantern; 30.	Obscured 233°-235°.
32096 <i>D 6416</i>	Great Fish Point.	33° 31.2' S 27° 06.5' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	279 85	30	White octagonal tower, black stripes, red lantern; 30.	F.R. lights on radio mast 6.8 miles WSW.
32100 <i>D 6414</i>	Port Alfred, S. breakwater, head.	33° 36.2' S 26° 54.2' E	Q.R.	30 9	5	Square lattice tower; 13.	
32104 <i>D 6412</i>	Bird Islands.	33° 50.5' S 26° 17.3' E	Fl.(2)W. period 20s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 16.8s	96 29	27	Red square tower, white band; 85.	
PORT ELIZABETH							
32108 <i>D 6400</i>	-Deal.	33° 54.9' S 25° 36.9' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	89 27	24	Square framework tower; 72.	F.R. lights on radio masts 6.8 miles SW., 1.2 miles and 2.8 miles WSW.
32110	-Fairway Buoy.	33° 55.6' S 25° 40.4' E	Iso.W. period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		C(-•-•)				
32116 <i>D 6404</i>	-S. breakwater, extension.	33° 57.2' S 25° 38.6' E	V.Q.(2)R. period 6s	52 16	13	White concrete tower.	Horn: Mo.(Q) ev. 30s (bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 10s).
32120 <i>D 6405</i>	-S. breakwater, root-167°45'.	33° 57.8' S 25° 38.7' E	Dir.W.R.G.	122 37	12	Metal tower; 102.	F.G. 148°-162°, Q.G.-166°, F.W.- 170°, Q.R.-174°, F.R.-188°.
32124 <i>D 6403</i>	-Range, front.	33° 57.3' S 25° 37.2' E	Q.R.	118 36	19	Framework tower, red and white bands; 102.	Shown throughout 24 hours.
32128 <i>D 6403.1</i>	--Rear, about 496 meters 238° from front.	33° 57.4' S 25° 36.9' E	Oc.W. period 5s lt. 3s, ec. 2s	197 60	24	White pole; 16.	Shown throughout 24 hours.
32132 <i>D 6406</i>	-N. Arm, Charl Malan Quay, inner head.	33° 57.5' S 25° 38.5' E	F.G. (neon)	26 8	2	Metal post; 10.	
32136 <i>D 6407</i>	--Outer head.	33° 57.3' S 25° 38.3' E	Q.(3)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	52 16	5	Metal pole; 33.	Traffic signals.
32137 <i>D 6407.5</i>	--Range, front.	33° 57.7' S 25° 37.6' E	F.R.	39 12	2	Metal pole; 19.	
32137.1 <i>D 6407.51</i>	--Rear, 180 meters 263° from front.	33° 57.7' S 25° 37.5' E	F.G.	46 14	2	Concrete column; 30.	
32137.2 <i>D 6408</i>	-Berth No."9".	33° 57.7' S 25° 38.2' E	F.R.	30 9	2	Concrete column; 10.	Strip light.
32137.3 <i>D 6408.2</i>	-No. "3" quay.	33° 57.8' S 25° 38.3' E	F.G.	30 9	2	Metal pole; 10.	
32137.4 <i>D 6409</i>	-Fisheries jetty.	33° 58.0' S 25° 38.1' E	Iso.G. period 2s	26 8	2	Pole; 13.	
32137.5 <i>D 6409.5</i>	-Tanker berth.	33° 57.8' S 25° 38.6' E	F.R.	23 7	2	Metal pole; 10.	
32137.6 <i>D 6409.7</i>	-Ore berth, E. quay.	33° 57.9' S 25° 38.5' E	F.R.	30 9	2	Metal pole; 10.	

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SOUTH AFRICA							
32137.7 <i>D 6409.6</i>	--W. quay.	33° 58.0' S 25° 38.3' E	Iso.R. period 2s	30 9	2	Metal pole; 10.	
32138 <i>D 6401</i>	Shark Rock Pier.	33° 58.8' S 25° 39.6' E	Fl.R. period 3s	42 13	5		
32144 <i>D 6390</i>	Cape Recife.	34° 01.7' S 25° 42.1' E	F.L.Fi.(3)W. period 117s fl. 2.8s, ec. 27s fl. 2.8s, ec. 27s fl. 2.8s, ec. 54.6s	92 28	F. 21 L.Fl. 29	Octagonal tower, white and black bands, red lantern; 79.	Visible 190°-162°. Under certain atmospheric conditions, flash may only be seen. Horn: Mo.(B) ev. 30s.
			F.L.Fi.(3)R. period 117s		F. 10 L.Fl. 15	Same structure.	Visible 162°-190°.
32148 <i>D 6386</i>	Cape St. Francis.	34° 12.5' S 24° 50.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	118 36	28	White round tower; 92.	Visible 224°-shore. F.R. on radio masts 23 and 29 miles WNW. Horn: Mo.(C) ev. 30s (bl. 4s, si. 2s, bl. 1.5s, si. 2s, bl. 4s, si. 2s, bl. 1.5s, si. 13s).
32150 <i>D 6386.1</i>	Kromme Bay.	34° 11.7' S 24° 52.0' E	Q.(3)W. period 5s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 3.1s	30 9	7	White pole; 10.	
32152 <i>D 6384</i>	Cape Seal.	34° 06.4' S 23° 24.2' E	Fl.(2)W. period 30s	469 143	15	Steel framework tower, yellow round daymark; 20.	
32154 <i>D 6383.2</i>	Knysna W. Range, front.	34° 03.9' S 23° 02.6' E	F.R. (neon)		1	White post.	
32154.1 <i>D 6383.3</i>	-Rear, 186° from front.	34° 04.0' S 23° 02.6' E	F.W. (neon)		1	White post.	
32156 <i>D 6383</i>	Knysna Range, front.	34° 04.7' S 23° 03.8' E	Fl.W. period 3s				
32160 <i>D 6383.1</i>	-Rear, 910 meters 006° from front.	34° 04.3' S 23° 03.6' E	Q.R.			Mast, red and white bands, triangular daymark, point down	
MOSSELBAAI:							
32164 <i>D 6380</i>	-Aliwai Harbor, mole, head.	34° 10.7' S 22° 08.9' E	F.R.	46 14	4	Column; 26.	
32168 <i>D 6381</i>	-Range, front.	34° 08.4' S 22° 06.8' E	F.R.			Column; 49.	Occasional.
32172 <i>D 6381.1</i>	--Rear, 240 meters 288°30' from front.	34° 08.3' S 22° 06.6' E	F.W.			Column; 49.	Occasional.
32176 <i>D 6381.2</i>	-Range, front.	34° 10.2' S 22° 07.3' E	F.R.	79 24		Column; 33.	Occasional.
32180 <i>D 6381.3</i>	--Rear, 160 meters 198° from front.	34° 10.2' S 22° 07.3' E	F.W.	125 38		Column; 26.	Occasional.
32184 <i>D 6379</i>	-Breakwater, head.	34° 10.5' S 22° 08.9' E	Q.R.	39 12	6	White framework tower; 30.	
32188 <i>D 6382</i>	-No. "4" Quay, NW. corner.	34° 10.5' S 22° 08.7' E	Fl.G. (neon) period 3s	43 13	4	Column; 26.	Vertical strip light.
32189 <i>D 6382.1</i>	--NE. corner.	34° 10.6' S 22° 08.8' E	F.G. (neon)	46 14	4	Column; 26.	Vertical strip light.
32190 <i>D 6382.5</i>	Oil terminal "SBM".	34° 08.7' S 22° 08.5' E	Mo.(U)W. period 15s			Yellow.	Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32192 <i>D 6378</i>	-Cape St. Blaize.	34° 11.2' S 22° 09.5' E	Fl.(2)W. period 15s 2 fl. 0.3s, ec. 14.4s	240 73	25	White square tower; 46.	Obscured 052°-shore and within 0.5 mile of Cape Vacca. F.R. lights on radio mast 22 miles NE. Radiotelephone. Horn: Mo.(F) ev. 60s. Aero Radiobeacon 19 miles ENE.
32194 <i>D 6377.1</i>	E.M. Control Buoy.	34° 54.8' S 21° 42.5' E	Mo.(X)Y.		10	Yellow lattice structure.	Horn: Mo.(U).
	RACON		X(-••-)				
32196 <i>D 6374</i>	Yzervark Point.	34° 23.6' S 21° 43.7' E	Fl.W. period 10s	164 50	24	Metal framework tower, square daymark, black and yellow bands; 79.	Shown 24 hours.
32200 <i>D 6372</i>	Stilbaai, jetty, head.	34° 23.1' S 21° 25.7' E	Iso.R. period 2s	13 4	5	Metal column.	
32204 <i>D 6371</i>	Cape Infanta.	34° 28.3' S 20° 50.8' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	174 53	24	Framework tower, square daymark; 49.	Shown 24 hours.
32205 <i>D 6370.3</i>	Arniston.	34° 40.0' S 20° 13.9' E	Q.R.	7 2	2	Pole; 7.	
32206 <i>D 6370.1</i>	Struisbaai Harbor, S. breakwater.	34° 47.7' S 20° 03.7' E	Fl.W. period 2s	19 6	5	White hut, red bands.	
32206.2 <i>D 6370.2</i>	-	34° 47.9' S 20° 03.4' E	Dir.F.W.R.G.	26 8	3	Red post.	G. 254°-266°, W.-270°, R.-282°.
32208 <i>D 6370</i>	Cape Agulhas.	34° 49.7' S 20° 00.6' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	102 31	30	Red round tower, white band; 89.	
32212 <i>D 6332</i>	Quoin Point.	34° 46.8' S 19° 38.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 6.9s	112 34	16	Metal framework tower, diamond daymark, red and white bands; 72.	
32216 <i>D 6320</i>	Danger Point.	34° 37.8' S 19° 18.1' E	L.Fl.(3)W. period 40s fl. 2s, ec. 4s fl. 2s, ec. 4s fl. 2s, ec. 26s	148 45	27	White octagonal tower, red dome; 56.	Obscured in Walker Bay on bearings more than 180°. Horn: Mo.(D) ev. 15s.
32220 <i>D 6306</i>	-W. breakwater.	34° 35.1' S 19° 20.4' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	33 10	6		
32224 <i>D 6307</i>	-W. breakwater, head.	34° 35.1' S 19° 20.5' E	Fl.(2)G. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s		4		
32228 <i>D 6308</i>	-W. jetty, head.	34° 35.2' S 19° 20.5' E	Fl.(2)R. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s		4		
32232 <i>D 6300</i>	-N. breakwater.	34° 35.0' S 19° 20.7' E	Q.R.	26 8	5	Tower.	
32236 <i>D 6304</i>	-S. breakwater.	34° 35.0' S 19° 20.7' E	Q.G.	26 8	5	Tower.	
32240 <i>D 6290</i>	Hermanus, S. breakwater.	34° 26.1' S 19° 13.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	22 7	8	White square concrete tower.	
32244 <i>D 6280</i>	Cape Hangklip.	34° 23.2' S 18° 49.7' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	107 33	25	White round concrete tower, black band; 72.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
GORDONS BAY:							
32248 <i>D 6262</i>	-W. breakwater, head.	34° 09.7' S 18° 51.5' E	Q.G.	16 5	7	White square concrete tower, green band.	F.I.R. 5M and F.I.G. 5M mark marina 0.7 mile NW.
32252 <i>D 6260</i>	-E. breakwater, head.	34° 09.8' S 18° 51.6' E	F.I.R. period 2s fl. 0.3s, ec. 1.7s	16 5	7	White square concrete tower, red band.	
32253 <i>D 6240</i>	Harbor Island, W. breakwater.	34° 09.1' S 18° 51.4' E	F.I.R. period 3s fl. 0.3s, ec. 2.7s	27 8	5	Red pole; 10.	
32254 <i>D 6241</i>	-E. breakwater.	34° 09.1' S 18° 51.4' E	F.I.G. period 3s fl. 0.3s, ec. 2.7s	27 8	5	Green pole; 10.	
32264 <i>D 5913</i>	Tierberg, Aero obstruction light.	33° 52.5' S 18° 35.8' E	F.I.R. period 1.7s		18		Obstruction lights F.R. 1.9 miles NNE. 1300 feet in height.
32268 <i>D 5912</i>	-Aero obstruction light.	33° 50.1' S 18° 35.3' E	F.I.R. period 1.7s		18		1300 feet in height.
32272 <i>D 6200</i>	Kalk Bay, breakwater, outer head.	34° 07.7' S 18° 27.2' E	L.F.I.R. period 15s fl. 2.5s, ec. 12.5s	22 7	6	Tower; 16.	
32276 <i>D 6224</i>	-Inner mole, head.	34° 07.7' S 18° 27.1' E	F.I.G. period 5s fl. 0.5s, ec. 4.5s	14 4	2		
SIMONS BAY:							
32280 <i>D 6140</i>	-Roman Rocks.	34° 10.9' S 18° 27.7' E	F.I.W. period 6s fl. 0.1s, ec. 5.9s	56 17	20	White round metal tower, red lantern and white dome; 45.	
	-RACON		Q(---) period 48s		12		
32284 <i>D 6141</i>	-N. spur, breakwater, head.	34° 11.1' S 18° 26.3' E	Fl.(3)W. period 7s fl. 1s, ec. 0.5s fl. 1s, ec. 0.5s fl. 1s, ec. 3s	43 13	15	White column, red lantern; 36.	Visible 140°-290°.
32288 <i>D 6143</i>	-Outer breakwater, entrance, E. side.	34° 11.1' S 18° 26.3' E	Q.R.	27 8	5	White column, red lantern; 23.	
32292 <i>D 6143.1</i>	--W. side.	34° 11.2' S 18° 26.2' E	Q.G.	27 8	4	White column, green lantern; 23.	
32296 <i>D 6143.2</i>	--Elbow.	34° 11.3' S 18° 26.1' E	F.I.R. period 15s fl. 1s, ec. 14s	46 14	4	White column, red lantern; 13.	Visible 220°-340°.
32300 <i>D 6144</i>	-N. elbow of dockyard, E. breakwater.	34° 11.2' S 18° 26.5' E	Oc.W. (neon) period 4s lt. 2.5s, ec. 1.5s	57 17	11	Masonry tower; 43.	Visible 055°-315°.
32304 <i>D 6146</i>	-E. dockyard, breakwater.	34° 11.3' S 18° 26.4' E	F.R.	24 7	3	Metal structure; 23.	
32308 <i>D 6150</i>	-W. dockyard, breakwater.	34° 11.3' S 18° 26.2' E	F.G.	24 7	3	Metal column structure; 22.	
32312 <i>D 6151</i>	-New Inner Basin, W. side of entrance.	34° 11.4' S 18° 26.2' E	F.G.				
32316 <i>D 6151.1</i>	--E. side of entrance.	34° 11.0' S 18° 26.0' E	F.R.				
32318 <i>D 6153</i>	-W. dockyard, W. pier, head.	34° 11.5' S 18° 25.8' E	2 F.R. (horiz.)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32320	-Whittle Rock Buoy.	34° 14.7' S 18° 34.2' E	Q.(3)W. period 10s			E. CARDINAL BYB, pillar.	Bell.
	-RACON		B(-•••)				
32324 <i>D 6120</i>	Cape of Good Hope.	34° 21.0' S 18° 29.0' E	Fl.(2+1)W. period 30s fl. 0.6s, ec. 3.6s fl. 0.6s, ec. 12.3s fl. 0.6s, ec. 12.3s	285 87	32	Square masonry tower; 30.	Visible 153°-106°.
		F.R.		253 77	15	Base of same tower.	Visible 299°-023°.

For continuation of lights in the Republic of South Africa, see Pub. 113.

Section 21

Islands in the Indian Ocean

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32328 <i>D 6914</i>	-Cap d'Ambre.	11° 57.0' S 49° 17.0' E	Fl.W. period 5s	231 70	23	Octagonal concrete tower; 105.	Visible 067°-321°. Aeromarine light.
BAIE DE DEIGO-SUAREZ:							
32332 <i>D 6920</i>	-Ilot des Aigrettes, on summit of island.	12° 13.3' S 49° 19.0' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 18	W. 10 R. 7 G. 6	White house, black lantern; 26.	W. 272°-275°, R.-285°, G.-033°, W.-038°, R.-265°, G.-272°.
32336 <i>D 6922</i>	--Antsirana, Port Office.	12° 16.0' S 49° 17.3' E	Iso.W.R.G. period 4s	43 13	W. 13 R. 10 G. 9	White tower; 36.	W. 021°30'-207°, G.-220°, W.- 227°, R.-237°30', obscured elsewhere. F.R. light shown on radio masts 0.9 and 1.4 miles S.W.
32340 <i>D 6924</i>	--Port Militaire, N. jetty, head.	12° 16.0' S 49° 17.0' E	F.R.	7 2		White metal framework tower, red bands.	
32344 <i>D 6925</i>	--Detached breakwater, N. head.	12° 16.3' S 49° 17.0' E	F.G.	7 2		White metal framework tower, red bands.	
32348 <i>D 6926</i>	--Entrance Range, front.	12° 16.4' S 49° 17.1' E	F.G.	20 6		Green pylon; 16.	Visible 089°-159°. Occasional.
32352 <i>D 6926.1</i>	---Rear, 80 meters 124° from front.	12° 16.4' S 49° 17.1' E	F.W.	52 16		Green metal framework tower; 20.	Visible 089°-159°. Occasional.
32356 <i>D 6918</i>	-Cap Mine.	12° 14.0' S 49° 22.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	154 47	20	Octagonal masonry tower; 46.	Visible 137°-077°. Storm signals.
32360 <i>D 6919</i>	-Cape Andranomady, NW. extremity.	12° 13.7' S 49° 21.4' E	F.R.	36 11	5	White octagonal tower, red top; 33.	Visible 060°-280°.
BAIE DE MANGERIVY:							
32364 <i>D 6930</i>	-Nosy Akao.	12° 48.3' S 49° 49.9' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	151 46	19	Concrete tower; 59.	Visible 115°-055°.
VOHEMAR:							
32368 <i>D 6936</i>	-No. "3", S. point of the N. reef Range, front.	13° 21.0' S 50° 00.0' E	F.G.	13 4	5	White beacon, green top; 23.	Occasional.
32372 <i>D 6936.1</i>	--Rear, W. side of bay near summit of 55 meter hill, 260° from front.	13° 21.3' S 49° 58.3' E	Oc.W. period 4s lt. 3s, ec. 1s	207 63	10	White truncated pyramid.	
32376 <i>D 6938</i>	-Beacon No. "4", off N. point of S. reef.	13° 21.0' S 50° 00.8' E	F.R.	23 7	5	Red pyramidal masonry structure; 23.	Shown on request.
32380 <i>D 6939</i>	-Pointe de Hiarambazaha.	13° 21.3' S 50° 00.5' E	F.R.	20 6	3	Red and white checked tower; 13.	Shown when a ship is expected or when requested.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
SAMBAVA:							
32384 <i>D 6942</i>	-Beacon "C".	14° 15.0' S 50° 10.0' E	Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	249 76	10	White beacon; 33.	
32388 <i>D 6943</i>	-Beacon "A", Anchorage Range, front.	14° 15.0' S 50° 09.0' E	F.R.	30 9	3	White tower, upper third red.	Range lights shown only on request. <i>Temporarily extinguished (1983).</i>
32392 <i>D 6943.1</i>	--Rear, Beacon "D", about 1079 meters 196° from front.	14° 15.8' S 50° 09.1' E	F.R.	102 31	7	White beacon.	Visible on range only. Shown on request. <i>Temporarily extinguished (1983).</i>
32396 <i>D 6945</i>	Antalahia, root of pier at customhouse.	14° 53.0' S 50° 15.0' E	F.R.	20 6	3	Support painted red, red lantern.	Shown on request.
32400 <i>D 6944</i>	-Range, front.	14° 53.8' S 50° 16.6' E	Dir.F.G.	23 7	11	White beacon; 23.	Intensified 274°-279°. Occasional.
32404 <i>D 6944.1</i>	--Rear, 1000 meters 276°30' from front.	14° 53.6' S 50° 16.1' E	Oc.(2)W. period 6s	269 82	13	Black and white beacon; 26.	Visible 126°-036°.
RADE D' AGONTSY:							
32408 <i>D 6946</i>	-Cap Est.	15° 17.0' S 50° 28.0' E	Fl.(2)W. period 10s fl. 0.6s, ec. 1.9s fl. 0.6s, ec. 6.9s	229 70	17	White metal tower, masonry base; 62.	Aeromarine light.
32412 <i>D 6948.3</i>	Cape Masoala.	15° 59.0' S 50° 13.0' E	Fl.(5)W. period 20s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.5s	262 80	18	Masonry tower; 82.	
32416 <i>D 6948.5</i>	Nosy Behentona.	16° 00.0' S 50° 09.0' E	Fl.(2+1)W. period 15s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 1.5s	105 32	10	Masonry tower; 33.	Visible 252°-105°.
32420 <i>D 6947</i>	Nosy Mangabe, on summit of island.	15° 30.0' S 49° 50.0' E	Iso.W. period 4s	715 218	10	White metal pylon; 23.	Visible 246°-169°. <i>Temporarily extinguished (1983).</i>
32424 <i>D 6948</i>	Maroantsetra Range, front.	15° 27.0' S 49° 44.0' E	Oc.R. period 6s lt. 4.5s, ec. 1.5s	33 10	5	White beacon, black stripe; 26.	
32428 <i>D 6948.1</i>	-Rear, 240 meters 046° from front.	15° 26.1' S 49° 44.1' E	F.R.	43 13		White metal framework tower, white square daymark, black stripe; 43.	Visible 040°-052°. Occasional.
MANANARA:							
32432 <i>D 6949.5</i>	-Ilot Rocheaux.	16° 10.0' S 49° 45.0' E	F.R.	25 8	3	White beacon, upper third red, red lantern; 13.	
ILE SAINTE MARIE:							
32436 <i>D 6950</i>	-Pointe Albrand.	16° 44.0' S 50° 00.0' E	Fl.W. period 5s	262 80	22	White metal tower, concrete base; 52.	Visible 154°-140°. Aeromarine light.
32440 <i>D 6956</i>	-Rocher aux Sorciers, Port Ste. Marie.	16° 59.0' S 49° 52.0' E	Iso.W.R. period 4s	59 18	W. R.	8 6	White octagonal tower; 20. R. 010°-050°, W.-190°.
32444 <i>D 6952</i>	-Ilot Madame, N. extremity.	17° 00.5' S 49° 50.6' E	Oc.G. period 4s	30 9	6	White round tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32448 <i>D 6954</i>	-Ambodifotra Basin, N. mole, head.	17° 00.0' S 49° 51.0' E	F.R.	13 4		Red daymark, white stripe; 10.	
32452 <i>D 6958</i>	-Ile aux Nattes, Pte. Blevec, on S. end of island.	17° 07.0' S 49° 49.0' E	F.W.	112 34	13	Round masonry tower; 10.	Visible 177°-194°, 223°-265°, 273°-156°.
FENERIVE:							
32456 <i>D 6960</i>	-Lakaria Hill.	17° 23.7' S 49° 25.9' E	Oc.W. period 6s	177 54	10	White tower; 36.	Visible 122°-032°.
32460 <i>D 6972</i>	Ile aux Prunes.	18° 03.0' S 49° 28.0' E	Fl.(3)W. period 25s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 14.9s	197 60	23	White tower, black top; 197.	Aeromarine light.
TAMATAVE:							
32464 <i>D 6973</i>	-Salazamay Range, front.	18° 05.8' S 49° 24.0' E	Q.W.	52 16	10	Pyramidal tower, white triangular daymark; 46.	
32468 <i>D 6973.1</i>	--Rear, 951 meters 277° from front.	18° 05.7' S 49° 23.5' E	Dir.Q.W.	75 23	14	White pyramidal beacon black band; 52.	Intensified 268°-286°.
32476 <i>D 6976</i>	Pte. Tanio.	18° 08.0' S 49° 26.0' E	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	115 35	W. 15 R. 11 G. 11	White metal tower; 58.	R. 165°-192°, W.-200°, R.-209°, G.-211°, W.-217°, R.-296°, G.-298°, R.-353°. F.R. on radio mast 0.64 mile WNW.
32480 <i>D 6978</i>	-Immeuble Portuaire.	18° 09.0' S 49° 25.0' E	Fl.(2+1)W.R.G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5.2s fl. 1s, ec. 5.3s	89 27	W. 14 R. 11 G. 11	Gray lantern on white building.	G. 148°-184°, W.-193°, R.-253°, W.-104°.
32487 <i>D 6980</i>	-Range, front.	18° 09.5' S 49° 25.4' E	F.G.	46 14	5	Red lantern on building.	Visible 148°-178°.
32487.1 <i>D 6980.1</i>	--Rear, 17 meters 163° from front.	18° 09.5' S 49° 25.4' E	F.R.	66 20	6	Red lantern on building.	Visible 148°-178°.
32492 <i>D 6982</i>	-Landing place.	18° 09.5' S 49° 25.5' E	F.G.	16 5	5	Post, white with upper third black.	
32496 <i>D 6988</i>	Mahanoro.	19° 54.0' S 48° 49.0' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	75 23	10	White metal tower; 39.	Visible 178°-030°.
MANANJARY:							
32500 <i>D 6994</i>	-Entrance Range, front.	21° 14.0' S 48° 21.1' E	Q.R.	26 8	8	White rectangular daymark.	Intensified 134°-044°. Partially obscured.
32504 <i>D 6994.1</i>	--Rear, 1198 meters 269° from front.	21° 14.0' S 48° 20.3' E	F.R.	58 18	15	White tower, white daymark; 43.	Intensified 266°-272°. Partially obscured.
32508 <i>D 6995</i>	-Traverse Range, front.	21° 13.3' S 48° 21.3' E	Dir.Oc.G. period 4s lt. 3s, ec. 1s	48 15	12	Beacon, black and white bands; 33.	Intensified 328°-334°.
32512 <i>D 6995.1</i>	--Rear, 400 meters 331° from front.	21° 13.0' S 48° 21.2' E	Dir.F.G.	58 18	12	Beacon, black and white bands; 39.	Intensified 328°-334°.
32516 <i>D 6992</i>	-Water tower.	21° 14.0' S 48° 20.0' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	118 36	12	White tower; 85.	
MANAKARA:							
32520 <i>D 6998</i>	-Approach Range, front.	22° 07.0' S 48° 01.0' E	F.G.	48 15	9	Black and white beacon; 39.	Visible 311°-319°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32524 <i>D 6998.1</i>	--Emokala, rear, 1056 meters 315° from front.	22° 07.2' S 48° 01.2' E	Fl.(4)W. period 25s	144 44	26	White octagonal tower, black top; 95.	Reserve light F.W. Aeromarine light.
32528 <i>D 7000</i>	-Range, front.	22° 08.0' S 48° 01.0' E	Q.W.	23 7	12	White tower, black top; 20.	Visible 151°-061°.
32532 <i>D 7000.1</i>	-Rear, 820 meters 286° from front.	22° 07.9' S 48° 00.9' E	Dir.Q.W.	62 19	16	White tower, black top; 43.	Visible 283°30'-288°30'.
32536 <i>D 7004</i>	-Range, front.	22° 08.0' S 48° 01.0' E	F.G.	20 6		White beacon; 13.	Occasional.
32540 <i>D 7004.1</i>	--Rear, 45 meters 241° from front.	22° 08.2' S 48° 01.4' E	F.G.	33 10		White beacon; 20.	Occasional.
32544 <i>D 7006</i>	-Residency beacon.	22° 07.0' S 48° 02.0' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	W. 12 R. 9 G. 8	White octagonal tower; 33.	G. 200°-237°, W.-247°, R.-020°.
32548 <i>D 7014</i>	Charbonnier.	22° 50.0' S 47° 50.0' E	Oc.W. period 6s	69 21	10	White octagonal tower, black band; 52.	Visible 140°-320°.
32552 <i>D 7018</i>	Pointe d'Itaperina.	24° 59.0' S 47° 06.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	338 103	18	White round masonry tower; 23.	
FORT DAUPHIN:							
32556 <i>D 7019</i>	-Entrance Range, front.	25° 01.5' S 46° 59.5' E	Dir.Oc.W. period 4s lt. 3s, ec. 1s	82 25	18	White stepped beacon, black stripe, black lantern; 33.	Intensified 2½° either side of range line.
32560 <i>D 7019.1</i>	--Rear, 260 meters 239°30' from front.	25° 01.6' S 46° 59.4' E	Dir.Oc.W. period 4s	154 47	18	White beacon, black stripe, black lantern; 26.	Synchronized with front. Intensified 237°-242°.
32564 <i>D 7020</i>	-Second Range, front.	25° 02.0' S 47° 00.0' E	F.R.	39 12	7	White square tower, red lantern; 39.	
32568 <i>D 7020.1</i>	--Flacourt, rear, 40 meters 155° from front.	25° 01.6' S 47° 00.0' E	Oc.(2)W. period 6s	125 38	15	White 6-sided concrete tower, red cupola; 39.	Visible 084°-354°.
32572 <i>D 7021</i>	-Pier, head.	25° 02.0' S 47° 00.0' E	F.G.	20 6	6	White support, upper half black.	F.R. on T.V. mast about 150 meters SE.
32576 <i>D 7022</i>	Cap Sainte Marie.	25° 35.0' S 45° 09.0' E	Fl.(2)W. period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	635 194	20	Square masonry tower, white corners; 59.	
BAIE DE ST. AUGUSTIN:							
32580 <i>D 7024</i>	-Tulear Range, front.	23° 22.0' S 43° 38.0' E	F.R.	39 12	10	White beacon, black bands; 26.	Intensified 111°30'-117°30'. Temporarily extinguished.
32584 <i>D 7024.1</i>	--Anosy Beacon, rear, 200 meters 114°30' from front.	23° 21.4' S 43° 38.4' E	F.W.	62 19	10	White square masonry tower, black lantern; 56.	
32588 <i>D 7025</i>	-Range, front, on reef.	23° 23.4' S 43° 39.0' E	F.G.	13 4	8	White beacon, black lantern, white topmark; 23.	
32592 <i>D 7025.1</i>	--Rear, 890 meters 148° from front.	23° 23.9' S 43° 39.3' E	F.G.	20 6	9	White beacon, black lantern, white topmark; 30.	Visible 145°-151°.
32598 <i>D 7026.5</i>	Ile Europa.	22° 19.1' S 40° 20.4' E	Fl.W. period 5s	69 21	15	Round pylon; 59.	
MOROMBE:							
32600 <i>D 7027</i>	-Nosy Lava.	21° 43.9' S 43° 17.7' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	92 28	10	White square tower, black lantern; 56.	
32604 <i>D 7028</i>	-Range, front.	21° 45.0' S 43° 21.0' E	F.R.	56 17	9	White beacon, black band; 33.	On request. Intensified 127°-139°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32608 <i>D 7028.1</i>	--Rear, 645 meters 133° from front.	21° 45.1' S 43° 21.2' E	F.R.	79 24	9	White beacon, black stripe; 49.	On request. Intensified 127°-139°.
32612 <i>D 7029</i>	Balise de Betaolampia.	20° 25.0' S 44° 14.0' E	Oc.(2)W.R.G. period 9s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	219 67 G.	W. 10 R. 7 G. 6	Brick beacon, white slatted shield; 36.	W. 088°-105°, R.-114°, W.-135°. R.-162°, W.-185°, G.-200°.
32616 <i>D 7030</i>	Morondava.	20° 17.0' S 44° 17.0' E	Oc.W.R. period 4s lt. 3s, ec. 1s	98 30	W. 14 R. 10	Water tower.	W. 050°-063°30', R.-073°, W.-320°.
32620 <i>D 7032</i>	Maintirano.	18° 04.0' S 44° 01.0' E	F.W.	95 29	10	White octagonal tower; 39.	
32624 <i>D 7033</i>	Ile Juan de Nova.	17° 03.1' S 42° 41.8' E	Fl.(2+1)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5.2s fl. 1s, ec. 5.3s	121 37	9	White tower, black top; 89.	
32628 <i>D 7033.7</i>	Cap Saint Andre.	16° 11.6' S 44° 27.0' E	Oc.W.R. period 4s	62 19	W. 10 R. 9	White pylon, black top, white trapezoidal daymark; 49.	R. 004°-059°, W.-250°, R.-274°.
32636	<i>Passe d'Ampajony Lighted Buoy.</i>	15° 24.0' S 46° 14.0' E	Q.W.			Red and white striped buoy, "X" topmark.	Radar reflector.
BAIE DE BOMBETOKE:							
32640 <i>D 7034</i>	-Pointe Katsepe.	15° 43.0' S 46° 13.0' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	397 121	28	White metal tower, black band; 118.	
32644 <i>D 7037</i>	-Pointe de Sable.	15° 44.0' S 46° 18.0' E	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	36 11	12	White tower, black cupola; 30.	Visible 328°-148°. Reserve light shows F.W. partially obscured by trees.
32648 <i>D 7041</i>	-Jetee Schneider.	15° 43.0' S 46° 17.0' E	Oc.(2)R. period 9s	30 9	6	White tower, red lantern; 16.	
32652 <i>D 7036</i>	-Anorombato Pointe, E. side of entrance.	15° 43.0' S 46° 18.0' E	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	137 42 G.	W. 14 R. 10 9	White tower, black cupola; 30.	G. shore-116°, W.-122°, R.-145°, W.-167°, G.-186°, W.-shore.
32656 <i>D 7043</i>	-AMBOROVY AVIATION LIGHT.	15° 40.2' S 46° 20.9' E	Aero.FI.(4)W. period 12s 4 fl. 6s, ec. 6s				
32660 <i>D 7035</i>	-Nosy Beza Range, front.	15° 45.9' S 46° 20.0' E	Dir.Iso.W. period 4s	62 19	13	White lattice tower, black top, white daymark; 59.	Intensified 129°-135°.
32664 <i>D 7035.1</i>	--Rear, 5.4 kilometers 132° from front.	15° 47.9' S 46° 22.2' E	Dir.Oc.W. period 6s	190 58	13	White tower; 62.	Intensified 129°-135°.
32666 <i>D 7038</i>	-Mahajanga Range, front.	15° 43.6' S 46° 18.7' E	Oc.(2+1)R. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	16 5	7	Red pylon; 13.	Visible 257°-122°.
32666.1 <i>D 7038.1</i>	--Rear, 220 meters 061°30' from front.	15° 43.6' S 46° 18.8' E	Q.R.	33 10	6	Red column; 26.	Obscured by buildings on quay.
32668 <i>D 7042</i>	-Extremity of wharf.	15° 43.7' S 46° 18.3' E	F.R.	20 6	6	Red metal framework tower; 6.	
32672 <i>D 7048</i>	Analalava.	14° 38.0' S 47° 45.0' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	203 62 G.	W. 10 R. 7 6	White tower, black cupola; 30.	G. 065°-092°, W.-095°, R.-142°, obscured elsewhere. A F.R. is shown from the jetty.
32676 <i>D 7050</i>	Ampasikely.	14° 37.9' S 47° 45.8' E	F.W.R.	62 19	W. 5 R. 3	White candelabrum, on masonry pedestal; 23.	W. 049°-059°, R.-071°, obscured elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks	
MADAGASCAR								
32680 D 7052	Nosy Lava.	14° 33.0' S 47° 36.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	400 122	20	Metal tower, black and white; 49.	Obscured 295°-325°.	
32684 D 7056	Nosy Iranja.	13° 36.0' S 47° 49.0' E	Fl.W. period 5s	245 75	17	White tower, black top; 65.	Visible 348°-240°.	
32688 D 7058	Tany Kely, entrance of Baie d' Ampasindava, highest part of islet.	13° 29.0' S 48° 15.0' E	Fl.(3)W. period 15s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 7.5s	187 57	11	White round tower, black cupola, black band under gallery.	Aeromarine light.	
32692 D 7062	Nosy Vorona, summit of island.	13° 26.0' S 48° 22.0' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	W. R.	8 5	White octagonal tower, gray lantern; 26.	W. 072°-080°, R.-232°, W.-280°, R.-072°. Reserve light F.W.R.
32708 D 7065	Ampasimena Range, front.	13° 24.0' S 48° 17.5' E	Dir.Q.G.	23 7	11	White beacon, black stripe; 23.	Intensified 014°30'-019°30'.	
32712 D 7065.1	-Rear, 600 meters 017° from front.	13° 23.8' S 48° 17.2' E	Dir.Q.G.	79 24	11	White beacon, black stripe; 20.	Intensified 014°30'-019°30'.	
32716 D 7068	Nosi Faly, summit.	13° 19.0' S 48° 29.0' E	F.W.R.	246 75	W. R.	8 6	Gray octagonal tower; 25.	W. 026°-236°, R.-026°.
32720 D 7069	Port St. Louis, entrance Range, front.	13° 05.0' S 48° 50.0' E	Q.R.	36 11	6	Trapezoidal daymark, white and red median stripe.	Visible 020°-200°.	
32724 D 7069.1	-Rear, 1646 meters 110° from front.	13° 05.4' S 48° 50.8' E	Dir.Q.R.	59 18	16	Metal framework tower, white trapezoidal daymark, red stripe; 52.	Intensified 108°-112°.	
32728 D 7070	Nosi Anambo (Woody Island).	12° 16.0' S 48° 39.0' E	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	138 42	W. R.	14 10	White metal framework tower, red top; 89.	W. 059°-237°, R.-059°.
COMOROS								
32732 D 6882.1	-Vigie.	12° 09.8' S 44° 23.9' E	Q.W.	276 84	5	White square tower, black bands;	Floodlit residence close by. 17.	
32736 D 6883	-Jetty, head.	12° 09.8' S 44° 23.6' E	Oc.(2)R. period 5s	44 13		Red lantern on hut.	Aero Radiobeacon 3 miles NE.	
MORONI GRANDE COMORE:								
32744 D 6904	-Suadzu Islet Range, front.	11° 41.9' S 43° 14.4' E	Q.R.	20 6	7	White tower, red top; 20.	Partially obscured by buildings.	
32748 D 6904.1	--Rear, 220 meters 105° from front.	11° 41.9' S 43° 14.6' E	Q.R.	69 21	7	White minaret.	Partially obscured by buildings.	
32752 D 6902	-Moroni.	11° 42.0' S 43° 14.5' E	Q.W.	85 26	10	White minaret; 75.	Aero Radiobeacon 0.9 mile NNE.	
MAYOTTE (FR):								
32760 D 6896	-Ilot Dzaoudzi, W. jetty, head.	12° 46.8' S 45° 15.1' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	7	White square post, black lantern;	Visible 300°-210°.	
32764 D 6897	--E. jetty, head.	12° 46.8' S 45° 15.4' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	7	White square post, red lantern;	Visible 135°-045°.	
32766 D 6894.6	-Pamanzi Range, front.	12° 46.4' S 45° 16.4' E	Dir.V.Q.W.	36 11	12		Intensified 139°30'-142°30'.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
COMOROS							
32766.1 <i>D 6894.61</i>	-Rear, 1700 meters 141° from front.	12° 47.1' S 45° 17.0' E	Dir.V.Q.W.	164 50	8		Intensified 132°-150°.
32768 <i>D 6900</i>	-Bandele Passage Range, front.	12° 52.4' S 45° 13.0' E	Dir.Q.R.	69 21	5 26.	White octagonal tower, red band; Intensified 284°-302°. Aero Radiobeacon 5.8 miles NE, on Pamanzi.	
32772 <i>D 6900.1</i>	--Rear, 273 meters 292°42' from front.	12° 52.3' S 45° 12.8' E	Dir.Q.R.	177 54	5 26.	White octagonal tower, red band; Intensified 284°-302°.	
32776 <i>D 6898</i>	-Mamutzu, jetty, head.	12° 46.5' S 45° 13.8' E	Fl.(4)R. period 15s	13 4	7	Square gray post, topmark of two squares.	
32777 <i>D 6891</i>	-Cap Douamougno.	12° 39.0' S 45° 06.1' E	Iso.W.R.G. period 4s	266 81	W. 9 R. 6 G. 6	Beacon.	G. 022°-194°, W.-209°, R.-022°. In line 202° with Dziani Bole summit.
32777.1 <i>D 6892.6</i>	-S. Jumeaux Reef.	12° 39.8' S 45° 07.9' E	Fl.(3)R. period 12s	23 7	4	Beacon.	
32777.2 <i>D 6892</i>	-Ile M'Songoma Range, front.	12° 41.2' S 45° 07.6' E	Dir.V.Q.W. Dir.V.Q.W.R.G.		W. 13 10 R. 7 G. 7	Beacon.	Intensified 172°30'-175°30'. G. 279°-290°, W.-292°, R.-296°.
32777.21 <i>D 6892.1</i>	--Rear, 1300 meters 174° from front.	12° 41.9' S 45° 07.6' E	Dir.V.Q.W.		11	Beacon.	Intensified 165°-183°.
32777.4 <i>D 6892.5</i>	-Vancluse Reef.	12° 39.2' S 45° 07.2' E	Fl.(3)G. period 12s	29 9	4	STARBOARD (A) G, beacon, topmark.	
32777.5 <i>D 6894</i>	-Isle Blanche.	12° 43.1' S 45° 10.4' E	Fl.(2)W.R.G. period 6s		W. 9 R. 6 G. 6	Beacon.	W. 133°-142°, G.-320°, R.-133°.
32777.6 <i>D 6893</i>	-Baie de Longoni.	12° 43.2' S 45° 09.7' E	Fl.G. period 2.5s		3	Green beacon.	Beacons Fl.(2)G. 6s and Fl.(3)G. 12s close E.
32777.62 <i>D 6893.6</i>	-Longoni Reef.	12° 42.6' S 45° 09.7' E	Q.(9)W. period 15s		6	W. CARDINAL YBY, beacon, topmark.	
ALDABRA:							
32778	-W. Island.	9° 23.8' S 46° 12.1' E	F.W.	42 13	12	Water tower.	
SEYCHELLES							
AMIRANTE ISLES:							
32780 <i>D 6873</i>	-African Island, center of N. Island.	4° 52.5' S 53° 23.6' E	Q.(2)W. period 10s	102 31	10	White metal framework tower.	
32784 <i>D 6874</i>	-Ile Desroches, NE. head.	5° 40.3' S 53° 42.1' E	L.FI.W. period 10s fl. 3s, ec. 7s	105 32	10	White metal framework tower.	Visible 122°-036°.
32785 <i>D 6875</i>	-Remire Island.	5° 07.0' S 53° 18.8' E	Q.W.	46 14	10		
32788 <i>D 6877</i>	Providence Island, N. head (UK).	9° 12.8' S 51° 02.2' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	105 32	10	White metal framework tower.	Visible 020°-359°.
MAHE ISLAND, PORT VICTORIA:							
32792 <i>D 6866</i>	-AVIATION LIGHT, island, NE. point.	4° 34.9' S 55° 27.8' E	Fl.R.	410 125		Red and white metal framework tower; 10.	Visible 202°30'-000°30'. Shown 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SEYCHELLES							
32796 D 6868	-NW. point of S. reef.	4° 36.8' S 55° 28.2' E	Fl.W. period 6.7s fl. 0.7s, ec. 6s	38 12	7	White round masonry tower; 35. F.R. on radio mast 1.2 miles and 1.5 miles W. F.W. on gantry 1.3 miles NNW. Fl.R. and 2 F.R. on radio mast 2.8 miles SSW. Fl.R. (occas.) 2.1 miles S. and 3.3 miles SSE. R. lights on dome 3.3 miles S.	
	-AVIATION LIGHT.		Q.W.				Occasional.
32800 D 6865	-Saint Anne Island, Summit AVIATION LIGHT.	4° 36.2' S 55° 30.2' E	F.R.	827 252		White building; 13.	Also shown by day.
32804 D 6867	-Range, front.	4° 37.8' S 55° 28.4' E	Oc.R.			Orange beacon.	Visible 200°-220°. Leading lights may be obscured when high intensity stadium lights are in use.
32808 D 6867.1	-Rear, 1646 meters 210° from front.	4° 38.6' S 55° 28.0' E	Oc.R.			Orange beacon.	Visible 200°-220°.
			F.R.				
32810.1 D 6867.31	-Rear, 0.63 mile 264° from beacon "1".	4° 36.9' S 55° 27.5' E	2 F.R. (vert.)			Orange beacon, orange daymark.	
32810.5 D 6867.32	-Rear, 0.63 mile 249° from beacon "1".	4° 37.2' S 55° 27.5' E	Oc.R. period 4s			Orange beacon.	
32811 D 6867.4	-No. "4".	4° 37.2' S 55° 28.0' E	Fl.R. period 4s			Red beacon.	
32811.1 D 6867.5	-No. "5".	4° 37.1' S 55° 27.9' E	Fl.G. period 5s			Green beacon.	
32812 D 6870	-Police Point, S. extremity.	4° 48.1' S 55° 31.2' E	Fl.(2)W. period 15.4s fl. 0.7s, ec. 3s fl. 0.7s, ec. 11s	202 62	7	White masonry tower; 5.	Visible 276°-128°.
32816 D 6871	-Cape Ternay.	4° 38.1' S 55° 21.9' E	V.Q.(2)W. period 10s fl. 0.2s, ec. 0.4s fl. 0.2s, ec. 9.2s	68 21	10	White concrete tower.	Visible 026°-221°.
MAHE ISLAND:							
32820 D 6864	-Marelle Island, on summit.	4° 29.0' S 55° 32.4' E	Fl.W. period 2.5s fl. 0.2s, ec. 2.3s	161 49	11	White square stone structure, red roof; 21.	
32824 D 6862	Praslin Island, St. Ann's Bay, Point Cabris.	4° 21.2' S 55° 46.3' E	Fl.W. period 10s	52 16	5	White masonry tower.	Visible 222°-055°.
32828 D 6862.4	-Zanguilles Point.	4° 17.4' S 55° 44.6' E	Q.W.	52 16	5	White round masonry tower.	Visible 117°-133°30' and 197°284°.
32832 D 6861	Praslin Island Range, front.	4° 20.2' S 55° 43.1' E	Fl.W. period 3s	10 3	5	White square masonry tower.	
32836 D 6861.1	-Rear, 853 meters 028° from front.	4° 19.8' S 55° 43.2' E	F.R.			Red triangular daymark.	
32840 D 6863	-La Digue Island.	4° 20.8' S 55° 49.6' E	Fl.W. period 5s	20 6	5	White square stone tower.	Visible 026°-186°.
32844 D 6860	Denis Island, N. side.	3° 47.7' S 55° 40.0' E	Fl.W. period 5s fl. 0.8s	120 37	10	White metal tower; 90.	

MAURITIUS

32848 D 7102	Flat Island.	19° 52.8' S 57° 39.0' E	Fl.(4)W. period 30s	364 111	29	White tower, red lantern; 53.
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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MAURITIUS							
32852 D 7096	Pointe aux Caves.	20° 11.0' S 57° 25.0' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 8s	152 46	29	White tower, 2 red bands; 97.	F.R. lights on 3 radio masts 11 miles SSE. Aero Radiobeacon 6.8 miles SW.
	Auxiliary light.		F.R.	99 30	10	Same tower.	Visible 216°-shore SE.
PORT LOUIS:							
32860 D 7099	-Entrance Range, front.	20° 09.3' S 57° 29.5' E	Fl.R. period 2s	69 21	10	White metal framework tower, orange triangular daymark, white border, point up; 20.	
32864 D 7099.1	--Middle, 500 meters 127° from front.	20° 09.5' S 57° 29.8' E	Iso.R. period 3s	210 64	15	Building.	
32868 D 7099.2	--Rear, 1.2 miles 127° from front.	20° 10.0' S 57° 30.5' E	Fl.R. period 3s	397 121	15	White framework tower.	
32872 D 7097	-Martello Tower.	20° 09.9' S 57° 27.9' E	Al.Iso.W.G. period 4s W. lt. 1s, ec. 1s G. lt. 1s, ec. 1s	79 24	10	Black stone tower, white stripes, 39.	
32876 D 7098	-Dockers Flat.	20° 08.1' S 57° 29.9' E	Al.Iso.W.R. period 8s W. lt. 2s, ec. 2s R. lt. 2s, ec. 2s	79 24	10	White water tower, red stripes, 66.	
32880 D 7104	AVIATION LIGHT.	20° 25.8' S 57° 40.4' E	Mo.(P)W.				
REUNION (FR.)							
32884 D 7073	Ile Tromelin.	15° 53.0' S 54° 31.0' E	Fl.W. period 4s	49 15	12	On roof of meteorological station; 36.	
32888	Albatross Island.	16° 15.0' S 59° 34.0' E	Fl.(2)W. period 20s fl. 1s, ec. 1s fl. 1s, ec. 17s	30 9	12		May be obscured from northward by trees.
32892 D 6881.6	Coco Island.	16° 49.0' S 59° 31.0' E	Fl.(3)W. period 30s	27 8	12		
PORT DES GALETS:							
32896 D 7077	-Le Port.	20° 56.1' S 55° 17.1' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	102 31	21	Cement silo; 85.	
32900 D 7080	-Entrance Range, front.	20° 56.3' S 55° 17.3' E	F.R.	65 20	6	Pylon, white square daymark, black stripe and orange border; 36.	
32904 D 7080.1	--Rear, about 80 meters 102°30' from front.	20° 55.5' S 55° 17.7' E	F.R.	92 28	6	House, white square daymark, black stripe and red vertical edges; 56.	
32908 D 7078	-S. jetty, head.	20° 56.2' S 55° 16.9' E	Fl.G. period 4s	43 13	7	White metal column with platform; 36.	
32912 D 7081.9	-N. jetty, head.	20° 56.2' S 55° 16.9' E	Q.R.	42 13	9	White framework tower, red top; 36.	
32916 D 7083.46	-N. pier, head.	20° 56.2' S 55° 16.9' E	Iso.G. period 4s	23 7	3	White and green mast; 13.	Visible 170°-075°.
32920 D 7082.3	-N. basin Range, front.	20° 55.9' S 55° 17.2' E	F.R.	92 28	5	Red rectangular daymark, white stripe; 75.	Visible 300°-025°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
REUNION (FR.)							
32924 <i>D 7082.31</i>	--Rear, 60 meters 009° from front.	20° 55.1' S 55° 17.6' E	F.R.	105 32	5	Red rectangular daymark, white stripe; 75.	Visible 300°-025°.
32928 <i>D 7083</i>	-S. basin Range, front.	20° 56.4' S 55° 17.1' E	F.G.	59 18		Green framework tower, white square daymark, green stripe.	Visible 175°-230°.
32932 <i>D 7083.1</i>	--Rear, 60 meters 189° from front.	20° 55.8' S 55° 17.5' E	F.G.	69 21	5	Green framework tower, white square daymark, green stripe.	Visible 175°-230°.
32936 <i>D 7083.4</i>	-Fish basin Range, front.	20° 56.3' S 55° 17.0' E	F.G.	36 11	3	White column, white square daymark, black stripe.	Visible 235°-275°.
32940 <i>D 7083.41</i>	--Rear, 35 meters 265°42' from front.	20° 55.6' S 55° 17.3' E	F.G.	42 13	3	White square daymark, black stripe on white column.	Visible 235°-275°.
LA POSSESSION:							
32944 <i>D 7083.6</i>	-Entrance Range, front.	20° 56.1' S 55° 19.4' E	Dir.F.R.	98 30	7	Black tower, white top, black daymark, white band; 30.	Intensified 153°-171°.
32948 <i>D 7083.61</i>	--Rear, 300 meters 162° from front.	20° 55.5' S 55° 19.9' E	Dir.F.R.	125 38	8	Black tower, white top, black daymark, white band; 26.	Intensified 153°-171°.
32952 <i>D 7083.75</i>	--W. jetty, head.	20° 55.6' S 55° 19.1' E	Fl.G. period 4s	49 15	8	White column, green top; 33.	
32956 <i>D 7083.7</i>	-E. jetty, head.	20° 55.6' S 55° 19.3' E	Fl.R. period 4s	49 15	8	White column, red top; 33.	
32964 <i>D 7083.9</i>	-E. dock Range, front.	20° 55.9' S 55° 19.7' E	F.R.	85 26	5	White pylon, red rectangular daymark; 66.	
32968 <i>D 7083.91</i>	--Rear, 100 meters 085° from front.	20° 55.1' S 55° 20.1' E	F.R.	108 33	5	White pylon, red rectangular daymark; 42.	
32970	Saint Marie, W. breakwater.	20° 52.7' S 55° 32.5' E	Fl.G. period 2.5s		3	White metal tower.	
32970.2	-E. breakwater.	20° 52.7' S 55° 32.5' E	Fl.R. period 2.5s		3	White metal tower.	
32972 <i>D 7084</i>	Pointe de Bel Air.	20° 54.2' S 55° 36.2' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	157 48	23	Red and white tower, green cupola; 82.	Visible 109°-331°. Aero Radiobeacon 5.3 miles W.
32976 <i>D 7086</i>	Pointe de la Table.	21° 19.8' S 55° 48.0' E	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	197 60	8	White square tower; 19.	
SAINT-PIERRE:							
32980 <i>D 7088</i>	-Entrance Range, front.	21° 20.7' S 55° 28.8' E	Q.G.	23 7	3	White round tower, green top; 20.	
32984 <i>D 7088.1</i>	--Rear, 60 meters 029°12' from front.	21° 20.7' S 55° 28.8' E	Q.G.	36 11	3	White round tower, green top; 33.	
32988 <i>D 7089</i>	-Jetty, head.	21° 20.8' S 55° 28.7' E	Fl.R. period 4s	16 5	3	White square post, red top; 13.	
ETANG SALE:							
32992 <i>D 7089.4</i>	-Entrance Range, front.	21° 15.8' S 55° 20.0' E	Q.R.	26 8	9	White masonry tower, red top, white rectangular daymark, red stripe; 10.	Aero Radiobeacon 1.8 miles ESE.
32996 <i>D 7089.41</i>	--Rear, 60 meters 089° from front.	21° 15.0' S 55° 20.4' E	Q.R.	33 10	9	White masonry tower, red top, white rectangular daymark, red stripe; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
REUNION (FR.)							
33000 <i>D 7090</i>	Saint-Leu, jetty, head.	21° 10.1' S 55° 17.2' E	Fl.G. period 4s	30 9	5 16.	White square tower, green top;	
SAINT GILLES LES BAINS:							
33004 <i>D 7091</i>	-W. jetty, head.	21° 03.3' S 55° 13.3' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	39 12	5 26.	White masonry tower, green top;	
33008 <i>D 7091.2</i>	--E. jetty, head.	21° 02.5' S 55° 13.7' E	Oc.(2)W.R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	W. R. 7 5	White tower, red top; 26.	W. 135°-144°, R.-135°.
33012 <i>D 7091.4</i>	-Entrance Range, front.	21° 03.4' S 55° 13.3' E	F.G.	10 3	3	White column, green top.	Visible 117°-212°.
33016 <i>D 7091.41</i>	--Rear, 18 meters 163° from front.	21° 02.6' S 55° 13.7' E	F.G.	23 7	3	White column, green top; 19.	Visible 117°-212°.
33020 <i>D 7092</i>	-Saint-Paul.	21° 00.5' S 55° 16.1' E	Oc.W. period 4s lt. 3s, ec. 1s	65 20	9	White pylon, black top; 46.	
RODRIGUES ISLAND							
MATHURIN BAY:							
33028 <i>D 7114</i>	-Port Mathurin Range, front.	19° 41.0' S 63° 25.0' E	Q.R.	25 8	5	White framework tower.	2 F.W. lights 0.3 mile N. (occasional).
33032 <i>D 7114.1</i>	--Rear, about 420 meters 165°30' from front.	19° 40.8' S 63° 25.4' E	Q.R.	212 65	10	White diamond.	Shown only when required.
CHAGOS ARCHIPELAGO							
33036 <i>K 0800</i>	Diego Garcia AVIATION LIGHT.	7° 18.5' S 72° 24.8' E	AI.FI.W.G. period 10s	132 40	12	Control tower.	
33040 <i>K 0801</i>	-W. Island.	7° 14.9' S 72° 23.1' E	Fl.(2)G. period 5s	33 10	6	Silver framework tower, orange and black checkered diamond daymark.	
33044 <i>K 0805</i>	-Small boat basin breakwater, head.	7° 17.4' S 72° 23.4' E	Fl.R. period 2s				
33050 <i>K 0805.6</i>	--Wharf, head.	7° 17.4' S 72° 23.4' E	Fl.G. period 5s				
33052 <i>K 0806</i>	--Harbor control tower.	7° 17.4' S 72° 23.6' E	Fl.R.			Concrete building.	
33056 <i>K 0802</i>	-Observatory Point.	7° 14.3' S 72° 26.1' E	Fl.W. period 4s	33 10	5	White framework tower, orange and black checkered diamond daymark.	
33060 <i>K 0807</i>	-Trig station Bolt, Leconte Point.	7° 17.0' S 72° 28.0' E	Fl.R. period 2.5s	33 10	3	White framework tower, orange and black checkered diamond daymark.	
33064 <i>K 0808.5</i>	-Minni Minni.	7° 19.5' S 72° 28.5' E	Dir. F.W.R.G.	46 14	20	Round tower; 46.	G. 133°12'-133°48', W.-134°12', R.-134°48'. 9M range during day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ILES CROZET (FR.)							
ILE DE LA POSSESSION:							
	-Port Alfred:						
33072 D 7119.5	--Anchorage Range, Cap Seince.	46° 25.4' S 51° 52.3' E	2 F.G.		6	Beacons, black and white stripes.	Lights in line 296° 70 meters apart.
33076 D 7119.51	--Cap Lieutard.	46° 25.8' S 51° 52.5' E	2 F.R.		7	Beacons, black and white stripes.	Lights in line 212° 46 meters apart.
ILE AMSTERDAM (FR.)							
33080	Pointe Hosken, SE anchorage Range, front.	37° 49.0' S 77° 34.0' E	F.I.R. period 2s		7	Red and white checkered beacon.	Occasional.
33084 K 0822.1	-Rear, 42 meters 244° from front.	37° 48.0' S 77° 32.5' E	F.I.R. period 2s		7	Red and white checkered beacon.	Occasional.
33088 K 0822.4	-NW. anchorage Range, front.	37° 49.0' S 77° 34.0' E	F.G.		6	White rectangular daymark.	Occasional.
33092 K 0822.41	--Rear, 20 meters 222° from front.	37° 47.4' S 77° 31.5' E	F.G.		6	White rectangular daymark.	Occasional.
ILES DE KERGUELEN (FR.)							
PRESQU'ILE COURBET:							
33096 K 0820	-Pointe Molloy.	49° 22.1' S 70° 05.1' E	F.I.R. period 2.5s fl. 0.5s, ec. 2s	49 15	3	White beacon.	
33100 K 0820.4	-Baie du Morbihan Range, front.	49° 21.1' S 70° 04.9' E	Dir.Q.W.	16 5	12	White beacon, black arrow, point up.	
33104 K 0820.41	--Rear, 314°30' from front.	49° 21.0' S 70° 04.4' E	Dir.Q.W.	65 20	12	White beacon, black arrow, point down	
33106 K 0819	--Ile Murray.	49° 30.9' S 70° 15.9' E	Fl.(3)W. period 12s	160 49	11		
33107 K 0821.5	--Ile Channer.	49° 22.9' S 70° 11.3' E	Q.(9)W. period 15s	33 10	6	W. CARDINAL YBY, beacon, topmark.	
-Port Aux Francais:							
33108 K 0821.4	--Anchorage Range, front.	49° 21.2' S 70° 12.5' E	Dir.F.R.	23 7	16	White beacon, red stripe.	Visible on range line only.
33112 K 0821.41	--Rear, 183 meters 329° from front.	49° 21.2' S 70° 12.4' E	Dir.F.R.	69 21	16	White beacon, red stripe.	Visible on range line only.
33120 K 0821	--Entrance Range, front.	49° 21.3' S 70° 13.7' E	Dir.Q.W.	26 8	19	Black and white checkered beacon.	Visible on range line only. Q.W. on radio mast 0.7 mile NE.
33124 K 0821.1	--Rear, 732 meters 058° from front.	49° 20.1' S 70° 14.2' E	Dir.Q.W.	65 20	19	Black and white checkered beacon.	Visible on range line only.

Section 22

Radiobeacons

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
SOUTH AFRICA							
50	George	34° 00.2' S 22° 29.2' E	GG (--- • --- •).	100	260 A2A.	AERO.	
MOZAMBIQUE							
200	Macuti Light Station	19° 50.7' S 34° 53.9' E	MC (- - - • - - -). period 360s tr(3) 9s si 1s (-) 26s si 6s repeats(2) 84s si 234s	150	302 A1A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 12, 36, and 42 minutes past each hour.	
MAURITIUS							
225	Plaisance (West)	20° 16.8' S 57° 23.0' E	FF (• - - • - - - - - -).	100	258. NON A2A.	AERO.	
COMORO ISLANDS							
230	Dzaoudzi, Isle Pamanzi	12° 48.0' S 45° 17.0' E	FJO (• - - - • - - - - - - - -).	100	341 A1A.	AERO.	
240	Anjouan	12° 08.0' S 44° 26.0' E	AJ (- - - - - - - - - - - - - -).	50	369 A1A.	AERO.	
250	Moroni	11° 41.0' S 43° 15.0' E	FXM (• - - - - - - - - - - - - - -).	200	387 A1A.	AERO.	
INDIAN OCEAN							
260	Iles Glorieuses	11° 33.0' S 47° 17.0' E	FXZ (• - - - - - - - - - - - - - -).	100	335 A1A.	AERO.	
270	Ile Europa	22° 20.0' S 40° 21.0' E	FXE (• - - - - - - - - - - - - - -).	100	352 A1A.	AERO.	
340	St. Pierre, Reunion	21° 16.1' S 55° 22.0' E	SP (• - - - - - - - - - - - - - -).	50	352 A1A.	AERO.	
350	Saint Denis Gillot, Reunion	20° 53.1' S 55° 30.6' E	FXR (• - - - - - - - - - - - - - -).	170	382 A2A.	AERO.	
370	Diego Garcia	7° 17.4' S 72° 23.1' E	NKW (- - - - - - - - - - - - - -).	300	300 NON, A2A.	AERO.	
380	Mahe Island, Seychelles	4° 37.0' S 55° 26.0' E	SEY (• - - - - - - - - - - - - - -).	800	373 A2A.	AERO.	
382	Coetivy Island, Seychelles	7° 08.5' S 56° 16.2' E	COE (- - - - - - - - - - - - - -).		335 A2A.	AERO.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
ETHIOPIA - SUDAN							
410	Assab	13° 04.0' N 42° 38.0' E	SB (••• - •••).	150	345 A2A.		AERO. Transmits between 0300Z-1500Z.
430	Port Sudan	19° 36.5' N 37° 14.0' E	PS (•--- • ••).	100	350 A2A.		
EGYPT							
440	Nuweiba	29° 03.0' N 34° 39.8' E	NWB (-• •-- -••-).	150	288 A2A		AERO.
441	Ras Nursani	27° 57.9' N 34° 22.8' E	SKH (••• - •- ••••).		335 A2A.		AERO. Transmits between 0600-1500Z.
OMAN							
450	Salalah	17° 02.0' N 54° 05.0' E	SAN (••• •- -•).	143	310 NON, A2A.		AERO.
470	Muscat/Seeb	23° 35.4' N 58° 15.1' E	NSB (-• ••• -•••).		318 NON, A2A.		AERO.
UNITED ARAB EMIRATES							
490	Dubayy	25° 13.8' N 55° 23.7' E	DO (-•• - -•-).		265 A1A		AERO.
500	Jabal Dhanna	24° 11.0' N 52° 37.0' E	JD (•--- -••-).		302.5 NON, A2A.		AERO.
505	Jazirat Zirkuh	24° 51.8' N 53° 04.8' E	ZKU (-••• -•- ••-).	130	275 NON, A2A.		AERO.
508	Abu Al Bukhush	25° 29.8' N 53° 08.9' E	RP (•-• •---•).	28	248 A2A.		AERO.
510	Das Island	25° 08.0' N 52° 52.0' E	ID (•• -••-).	92	366 NON, A2A.		AERO.
512	Fujayrah	25° 06.0' N 56° 21.0' E	FUJ (••-- •- -•--•-).		400 NON, A2A.		AERO.
PERSIAN GULF							
520	Ad Dawhah, Qatar	25° 18.0' N 51° 33.0' E	BD (-••• -••-).	150	377 NON, A2A.		AERO.
530	Bahrain	26° 17.0' N 50° 38.0' E	BI (-••• ••-).	200	352 NON, A2A.		AERO.
550	Bandar Al Mish'ab	28° 04.9' N 48° 36.7' E	RAS (•-• •- •••-).	200	318 NON, A2A.		AERO.
IRAN							
570	Kharq Island	29° 15.0' N 50° 19.0' E	KHG (-•- •••• -•-•-).	100	325 A2A.		AERO.
580	Sheykh Sho'eyb (Lavan Island)	26° 48.0' N 53° 23.0' E	LD (•-•• -••-).	192	310 A1A.		AERO. Transmits only during the day.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
IRAN							
600	Sirri	25° 54.1' N 54° 32.3' E	SIR (••• • • -•).	300	NON, A2A.	AERO.	
PAKISTAN							
605	Jiwani	25° 04.3' N 61° 48.0' E	JI (--- • •).	300	330 NON, A2A.	AERO.	
MALDIVES							
617	Gan	0° 41.9' S 73° 09.8' E	GN (--• -•).	240	317 A2A.	AERO.	
INDIA							
640	Porbandar	21° 37.2' N 69° 37.2' E	PB (---• -•••).	170	293 A2A.	Repeats 3 times at 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.	
650	Diu Head Light Station	20° 41.5' N 70° 49.7' E	DH (--- • •••). period 360s tr(4) 20s (-) 25s tr(4) 20s (-) 25s tr(2) 10s si 260s	155	289 A2A.		
665	Ratnagiri	16° 59.1' N 73° 16.4' E	RG (-•• - -•).	170	308 A2A.	Repeats twice at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.	
670	Bombay	19° 07.0' N 72° 50.0' E	BB (-••• -•••).	500	265 A2A.	AERO.	
691	Chetlat Island	11° 41.8' N 72° 43.1' E	CT (-••• -).	170	289 A2A.		
700	Cochin	9° 56.0' N 76° 17.0' E	CC (-••• -•••).	240	325 NON, A2A.	AERO. Transmits between 0300-1500.	
710	Trivandrum	8° 29.4' N 76° 54.4' E	TV (- ••• -).	315	299 NON, A2A.	AERO.	
715	Nagappattinam	10° 45.8' N 79° 51.0' E	NP (-• •--•). period 360s		295 A2A.		
730	Madras	13° 02.0' N 80° 10.0' E	MV (-- ••• -).	500	292 NON, A2A.	AERO.	
735	Krishnapatnam	14° 15.0' N 80° 07.6' E	KP (-•- •--•). period 360s	170	289		
740	Antarvedi Light Station	16° 19.2' N 81° 43.7' E	NT (-• -).	180	315 A2A.		
747	Gopalpur	19° 15.3' N 84° 54.2' E	GP (--• •--•).		292 A2A.		
752	Paradip Light Station	20° 15.3' N 86° 39.4' E	PD (-•-• -••). period 360s	170	318 A2A.		

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
SRI LANKA (CEYLON)							
770	Colombo/Ratmalana	6° 50.0' N 79° 53.0' E	RM (• - • - -).	164	350 A2A.		AERO.
BANGLADESH							
780	Chittagong	22° 15.0' N 91° 49.0' E	EG (• - - -).	155	287 NON, A2A.		AERO.
790	Kutubdia Island Light Station	21° 51.9' N 91° 50.5' E	KD (-• - -••).	100	294 A2A.		
800	Cox's Bazar Light Station	21° 26.0' N 91° 58.4' E	BZ (-••• - -•••).	100	297 A2A.		
BURMA							
820	Victoria Point	10° 03.0' N 98° 33.0' E	KT (-•- - -).	100	290 NON, A2A.		AERO.
THAILAND							
850	Sattahip, Ban U Taphao	12° 39.7' N 100° 59.6' E	UP (••- •--••).	170	414 A2A.		AERO.
ANDAMAN ISLANDS							
870	East Island Light Station	13° 38.0' N 93° 03.0' E	AN (•- - -•).	180	317 A2A.		
NICOBAR ISLANDS							
880	Keating Point Light Station	9° 15.0' N 92° 46.3' E	NI (-• ••). period 360s tr 60s si 240s	180	313 A2A.		
MALAYSIA							
890	Kuantan	3° 23.0' N 103° 25.0' E	PK (•---• - -•).	180	282 NON, A2A.		AERO.
900	Kuala Trengganu	5° 22.9' N 103° 06.7' E	TU (- ••-).	90	312 NON, A2A.		AERO.
INDONESIA (BORNEO)							
905	Tanjung Mangkalihat	0° 59.5' N 118° 59.3' E	MH (-- ••••).	100	312. A2A.		
906	Balikpapan	1° 12.9' S 116° 58.5' E	BL (-••• •-•••).	100	304 A2A.		
907	Tanjung Selatan	4° 10.2' S 114° 38.8' E	TS (- ••••).	100	296 A2A.		

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
INDONESIA (BORNEO)							
908	Pontianak	0° 21.7' N 108° 57.2' E	PO (•--• - --).	100	I	304 A2A.	Transmits 00, 10, 20, 30, 40, and 50 minutes past each hour.
INDONESIA (SUMATERA)							
910	Sabang	5° 53.7' N 95° 18.8' E	SA (••• •-).	100		285 A2A.	
911	Pulau Pesemut	2° 30.0' S 108° 51.0' E	PM (-•-- • --).	100	II	304 A2A.	Transmits 05, 15, 25, 35, 45, and 55 mintues past each hour.
912	Pulau Simedang	3° 19.0' S 107° 12.5' E	SI (••• ••).	100	I	296 A2A.	Transmits 00, 15, 30 and 45 minutes past each hour.
COCOS ISLANDS							
930	Christmas Island	10° 25.9' S 105° 41.1' E	XMX (-••- -- -••-).	110		341 NON, A2A.	AERO.
INDONESIA (JAWA)							
944	Peniki	5° 41.7' S 106° 42.7' E	PI (-•-- ••).	100	II	296 A2A.	Transmits 05, 20, 35 and 50 minutes past each hour.
945	Jamuang	6° 55.6' S 112° 43.7' E	JM (--- -- --).	100	II	285 A2A.	Transmits at 05, 15, 25, 35, 45 and 55 minutes past each hour.
946	Muria	6° 24.5' S 110° 55.2' E	MU (-- ••--).	100	I	285 A2A.	Transmits at 00, 10, 20, 30, 40 and 50 minutes past each hour.
950	Surabaja/Djuanda	7° 22.0' S 112° 46.0' E	SB (••• -•••).	100		325 A2A.	AERO.
952	Cilacap	7° 47.0' S 109° 38.3' E	CI (-•-- ••).	100		320 A2A.	
953	Benoa	8° 50.5' S 115° 11.8' E	BO (-••• ---).	100		320 A2A.	
INDONESIA (SULAWESI)							
960	Dewakang Besar	5° 23.7' S 118° 25.3' E	DI (-•• ••).	100	II	318 A2A.	Transmits at 05, 15, 25, 35, 45 and 55 minutes past each hour.
961	Tanjung Rangasa	3° 33.8' S 118° 56.0' E	TM (- -- --).	100	I	318 A2A.	Transmits at 00, 10, 20, 30, 40 and 50 minutes past each hour.
962	Talisei	1° 53.2' N 125° 05.6' E	TA (- •- -).	100		323 A2A.	
INDONESIA (NEW GUINEA)							
980	Daru Island	9° 04.0' S 143° 13.0' E	DAU (-•• •- ••-).	80		290 NON, A2A.	AERO.
990	Madang	5° 13.0' S 145° 47.0' E	MD (-- -••).	110		362 NON, A2A.	AERO.
1000	Wewak	3° 34.9' S 143° 40.6' E	WK (-•-- -•- -).	110		336 A2A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
INDONESIA (NEW GUINEA)							
1010.4	Sorong	0° 50.2' S 131° 12.6' E	SO (••• ---).	100	318 A2A.		Transmits 00-05 and 10-15 minutes past each hour.
1010.5	Ambon	3° 47.2' S 128° 05.5' E	AM (•- --).	100	310 A2A.		
1010.6	Merauke	8° 30.7' S 140° 22.8' E	ME (-• •).	100	296 A2A.		
MALAYSIA (SABAH)							
1020	Bintulu	3° 11.0' N 113° 02.0' E	BU (-••• ••--).	45	304 NON, A2A.		AERO.
1030	Anduki/Seria	4° 38.0' N 114° 22.0' E	AKI (•- -•- ••).	192	250 NON, A2A.		AERO.
1040	Brunei	5° 01.0' N 114° 58.0' E	BN (-••• -•).	60	298 NON, A2A.		AERO.
1055	Kata Kinabalu	5° 54.0' N 116° 02.0' E	JSL (•--- ••• •-•••).	92	400 NON, A2A.		
VIETNAM							
1070	Ba Lat	20° 18.0' N 106° 34.0' E	AG (•- ---•).	100	475		Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 10, 16, 40, and 46 minutes past each hour.
1080	Hon Dau	20° 40.0' N 106° 48.7' E	NP (-• •---•).	100	435		Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 08, 14, 38, and 44 minutes past each hour.
1090	Long Chau/Grande Island Light Station	20° 37.3' N 107° 09.2' E	TC (- ---••).	100	415		Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 12, 36, and 42 minutes past each hour.
PHILIPPINES							
1100	Mactan	10° 19.3' N 123° 58.8' E	MCT (-- -•-• -•).	155	331 A2A.		AERO.
1110	South Nido Oilfield	11° 03.0' N 118° 49.3' E	PCS (•--- •-•-• •••).	100	379		
CHINA							
1140	Hok Tsui	22° 12.6' N 114° 15.3' E	HKG (••• -•- ---•).	500	338 NON, A2A, A3E.		AERO.
1160	Tathong Point	22° 14.5' N 114° 17.1' E	TP (- •---•).	50	280 NON, A2A.		AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
PESCADORES ISLANDS							
1170	P'eng-hu Tao	23° 31.5' N 119° 36.0' E	BM (-•• - -).	315	290 NON, A2A.	AERO.	
OKINAWA GUNTO							
1180	Okinawa Jima	26° 05.8' N 127° 40.0' E	OK (--- -•-).	170	308 A2A.	AERO.	
1190	Okinawa Jima, Machinato	26° 20.3' N 127° 44.9' E	KX (-•- -•-•-).	100	295	AERO.	Transmits between 0900-1700.
1200	Okierabu Shima	27° 26.0' N 128° 43.0' E	ON (--- -•).	170	398 A2A.	AERO.	
TAIWAN							
1210	Fu-Kwei Chiao	25° 18.0' N 121° 32.0' E	B (-•••). period 360s tr(4) 9s si 2s (-) 25s si 2s tr(4) 9s si 73s repeats(2) 240s	100	I, III, V NON, A2A.	302	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 00, 02, 04, 30, 32, and 34 minutes past each hour.
1212	Chi-Lung	25° 09.5' N 121° 44.4' E	C (-•-•). period 360s tr(4) 10.6s si 1s (-) 25s si 1s tr(4) 10.6s si 71.8s repeats(2) 240s	100	II, IV, VI NON, A2A.	302	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 01, 03, 05, 31, 33, and 35 minutes past each hour.
1220	Ch'i-lai Pi Light Station	24° 01.0' N 121° 38.0' E	D (-••).	100	I, III, V A2A.	287	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 08, 10, 36, 38, and 40 minutes past each hour.
1225	Huo-shao Tao Light Station	22° 40.4' N 121° 27.9' E	G (- -•).	100	II, IV, VI A2A	287	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 07, 09, 11, 37, 39 and 41 minutes past each hour.
1228	Lan Yu	22° 04.8' N 121° 29.9' E	H (••••).	100		320 A2A	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 01, 04, 07, 31, 34 and 37 minutes past each hour.
1230	Heng-ch'un	21° 56.1' N 120° 50.1' E	KW (-•- - - -).	240		415 NON, A2A.	AERO.
1240	Kao-hsiung-Shan Light Station	22° 37.0' N 120° 15.4' E	A (• -).	100		320 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 00, 03, 06, 30, 33 and 36 minutes past each hour.
CHINA							
1250	Naozhou Dao	20° 54.2' N 110° 36.2' E	NZ (-• - -••).	200	I	315 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
CHINA							
1252	Baohu Jiao	20° 00.3' N 110° 55.8' E	BH (-••• ••••).	200	III	315 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1256	Jianggang	32° 45.7' N 120° 46.2' E	JG (•--- ---•)	200	I	311 A2A	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1258	Sheyanghe	33° 48.1' N 120° 20.6' E	SY (••• -•--)	200	III	291 A2A	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1260	Yanweigang	34° 28.8' N 119° 47.0' E	YW (-•-- •--•).	200	II	311 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1262	Haozhigang	32° 01.2' N 121° 43.2' E	HZ (•••• -•--•).	200	III	311 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1270	Moye Dao	36° 53.9' N 122° 30.9' E	MY (-- -•--•).	200	I	291 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1272	Qingdao	36° 04.3' N 120° 26.3' E	MD (-- -•••).	200	II	291 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1280	Chengshan Jiao	37° 23.7' N 122° 42.2' E	CS (-•-- ••••).	200		319 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1290	Beitang	39° 06.5' N 117° 43.2' E	BT (-••• -•).	200	I	295 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1292	Qinhuangdao	39° 54.8' N 119° 37.0' E	QH (-•-- •••••).	200	II	295 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1302	Dasanshan Dao	38° 51.9' N 121° 49.5' E	DS (-•• ••••).	200	II	307 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1304	Laotieshan	38° 43.8' N 121° 08.0' E	LT (•-•• -•).	200	III	307 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
KOREA							
1305	Ihwari	39° 46.7' N 124° 33.5' E	LH (•-•• •••••).		I	282 A2A.	
1306	Onjongni	38° 54.1' N 125° 13.9' E	KS (-•- -••••).		III	282 A2A.	
1307	Monggum Po	38° 07.6' N 124° 44.0' E	ML (- -•-•••).		V	282 A2A.	
1310	P'almi Do Light Station	37° 21.3' N 126° 30.8' E	PM (•-•- •--•).	100		313 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits 00-05, 10-15, 20-25, 30-35, 40-45 and 50-55 minutes past each hour, sunrise to sunset.
1320	Och'ong Do Light Station	36° 07.3' N 125° 58.1' E	EC (• - -• -•••).	100		295 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits 05-10, 15-20, 25-30, 35-40, 45-50 and 55-60 past each hour, sunrise to sunset.
1340	Cheju	33° 30.9' N 126° 32.4' E	CD (-•-• -••••).	100		375 A2A.	Aeromarine.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
KOREA							
1345	Mara Do	33° 07.0' N 126° 16.2' E	MR (-- •--)	100	290 A2A		Transmits continuously.
1350	Geomun Do Light Station	34° 00.5' N 127° 19.4' E	KM (-•- --).	100	287.5 A2A.		Transmits continuously during periods of low visibility. During periods of clear weather, transmits 05-10, 15-20, 25-30, 35-40, 45-50 and 55-60 past each hour, sunrise to sunset.
1360	Yeong Do Light Station	35° 03.0' N 129° 05.7' E	CY (-•-- -•--).	60	300 A2A.		Transmits continuously during periods of low visibility. During periods of clear weather, transmits 00-05, 10-15, 20-25, 30-35, 40-45 and 50-55 minutes past each hour, sunrise to sunset.
1370	Suyong Man/Busan	35° 10.4' N 129° 07.8' E	PN (-•-- -•).	100	385 A2A.		Aeromarine.
1380	Changgi Gap Lighthouse	36° 04.5' N 129° 34.2' E	CG (-•-- -•--).	100	310 A2A.		Transmits continuously during periods of low visibility. During periods of clear weather, transmits 05-10, 15-20, 25-30, 35-40, 45-50 and 55-60 minutes past each hour, sunrise to sunset.
1382	Taep'ung Gam.	37° 31.0' N 130° 48.0' E	UL (•-- •--•)	100	319 A2A.		
1385	Kangnung.	37° 45.1' N 128° 56.8' E	LC (-•-- -•--).	100	257 A2A		AERO.
1390	Chumunjin Don Light Station	37° 54.1' N 128° 50.0' E	CM (-•-- ---).	100	295 A2A.		Transmits continuously during periods of low visibility. During periods of clear weather, transmits 00-05, 10-15, 20-25, 30-35, 40-45, and 50-55 minutes past each hour, sunrise to sunset.
1395	Sukcho	38° 08.2' N 128° 35.9' E	SK (•• -•--).	100	378 A2A.		AERO.
JAPAN							
1402	Toi Misaki	31° 22.4' N 131° 20.1' E	TI (- ••). period 30s tr(2), (-) (2)	90	309		Azimuth coverage 036°-216°.
1412	Muroto Saki	33° 15.1' N 134° 10.6' E	MT (- -). period 30s tr(2), (-)(2) repeats (1)	90	295		Azimuth coverage 045°-300°.
1420	Daio Saki	34° 16.5' N 136° 54.2' E	OZ (--- -••). period 30s tr(2), (-)(2) repeats(1)	90	288 H2A.		Azimuth coverage 006°-230°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.
1432	Turugi Saki	35° 08.3' N 139° 40.7' E	TG (- -••). period 30s tr(2), (-)(2) repeats(1)	90	309 H2A.		Azimuth coverage 090°-270°.
1440	Hachijo Jima	33° 04.8' N 139° 51.1' E	CJ (-•-- •--•). period 30s tr(2), (-)(2) repeats(1)	90	302		Azimuth coverage 000°-205°.
1452	Inubo Saki Light Station	35° 42.5' N 140° 52.1' E	IY (•• -•--•). period 30s tr(2), (-)(2) repeats(1)	90	295		Transmits every 3 minutes between 00 minutes and 57 minutes past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
JAPAN							
1460	Kinkasan	38° 16.6' N 141° 35.0' E	KA (-•- •-). period 30s tr(2), (-)(2)	90	316		Azimuth coverage 020°-210°.
1512	Shiriya Saki	41° 25.7' N 141° 27.8' E	YA (-•-- •-). period 30s tr(2), (-)(2) repeats(1)	90	302 D7W.		Azimuth coverage 270°-170°.
1534	Kushiro Saki	42° 58.1' N 144° 22.5' E	UR (••- •-•). period 30s tr(2), (-)(2) repeats(1)	90	288 D7W.		Azimuth coverage 120°-300°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.
1550	Abashiri	43° 59.9' N 144° 17.4' E	AS (•- •••). period 30s tr(2), (-)(2)	90	309 D7W.		Azimuth coverage 320°-120°.
1554	Soya Misaki	45° 31.2' N 141° 56.2' E	OY (---- -•--). period 30s tr(2), (-)(2)	90	295 D7W.		Azimuth coverage 258°-102°.
1564	Shakotan Misaki	43° 22.2' N 140° 28.1' E	CM (-••- ---). period 30s tr(2), (-)(2) repeats(1)	90	316 D7W.		Azimuth coverage 245°-065°.
1572	Matsumae (Fukuyama) Light Station	41° 25.3' N 140° 05.2' E	FK (••-- -•-). period 30s tr(2), (-)(2) repeats(1)	90	309 D7W.		Azimuth coverage 110°-280°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.
1582	Sakata	38° 56.8' N 139° 49.4' E	ST (••• -). period 30s tr(2), (-)(2) repeats(1)	90	288 D7W.		Azimuth coverage 210°-010°.
1590	Hekura Jima	37° 51.1' N 136° 55.2' E	HA (•••• •-). period 30s tr(2), (-)(2)	100	295 H2A.		Transmits every 2 minutes.
1600	Hamada Ko	34° 52.7' N 132° 02.3' E	HT (•••• -). period 30s tr(2), (-)(2) repeats(1)	90	305		Azimuth coverage 240°-040°.
1612	Wakamiya Shima	33° 52.1' N 129° 41.2' E	NU (-• ••-). period 30s tr(2), (-)(2) repeats(1)	90	295		
1616	Ose Saki	32° 37.0' N 128° 36.3' E	OU (--- •-). period 30s	90	302		
1635	Iwo Jima	24° 47.0' N 141° 18.0' E	OX (--- -••-).	250	360 A2A.		AERO.
1640	Miyako Sima	24° 47.1' N 125° 17.7' E	MY (-- -•--).	180	340 A2A.		AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1650	Mys Gamova Light Station	42° 33.4' N 131° 13.2' E	GM (- - • - -). period 360s tr (interrupted by a long dash) 55s si 305s	150	I	306.5 A2A.	
1651	Mys Bryusa Light Station	42° 52.8' N 131° 28.1' E	BU (- • • • - • -). period 360s	15		300.5	
1651.5	Ostrov Skrypleva Light Station	43° 01.7' N 131° 57.1' E	SW (• • - - • - -). period 360s tr(5) 19s (-) 25s tr(2) 7s si 309s	50		291.5 A2A.	
1652	Ostrov Askol'd Light Station	42° 43.9' N 132° 20.7' E	AD (• - - - • - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	306.5 A2A.	
1654	Mys Povorotny Light Station	42° 40.4' N 133° 02.5' E	PO (- - - • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	III	306.5 A2A.	
1656	Mys Ostrovnoy Light Station	42° 48.5' N 133° 43.3' E	OR (- - - • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	306.5 A2A.	
1658	Mys Nizmennyy Light Station	43° 31.2' N 135° 09.3' E	NZ (- • - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	306.5 A2A.	
1660	Mys Yegorova Light Station	44° 46.4' N 136° 27.0' E	EO (• - - - -). period 360s	150	VI	306.5 A2A.	
1670	Nakhodka-Zaliv Amerika Front Light Station	42° 49.9' N 132° 55.8' E	NH (- • - - - - -). period 360s tr 51s si 309s	50		291.5 A2A.	
1680	Nepristupryy	42° 47.8' N 133° 00.1' E	NU (- • - - - - -). period 110s tr 10s (-) 100s	30		315.5, 375 A1A, A2A.	Deviation radiobeacon for calibration use within the harbor. Transmits upon request, in clear weather only.
1690	Mys Balyuzek Light Station	43° 55.0' N 135° 31.0' E	BL (- • • • - - - - -). period 360s	100	V	297.5 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1692	Rudnyy	44° 20.7' N 135° 50.8' E	RD (- - • - - - - -). period 360s	100	VI	297.5 A2A.	Transmits at 05, 11, 17, 23, 29, 35, 41, 47, 53 and 59 minutes past each hour.
1700	Mys Belkina (Byelkin) Light Station	45° 49.5' N 137° 41.5' E	BN (- • • • - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	I	303.5 A2A.	
1702	Mys Zolotoy Light Station	47° 19.1' N 138° 59.5' E	ZO (- - • • - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	303.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1704	Port Kholmsk Light Station	47° 01.5' N 142° 01.5' E	HK (••• •-). period 360s tr(4) 20s (-) 25s tr(2) 10s si 305s	80	III	303.5 A2A.	
1706	Ostrov Moneron Light Station	46° 15.5' N 141° 15.8' E	MR (-- •-). period 360s tr(4) 20s (-) 25s tr(2) 10s si 305s	150	IV	303.5 A2A.	
1708	Mys Kril'on Light Station	45° 54.0' N 142° 04.8' E	KX (-• - ••). period 360s tr(4) 20s (-) 25s tr(2) 10s si 305s	100	V	303.5 A2A.	
1710	Mys Aniva	46° 01.5' N 143° 24.8' E	AW (•- •--). period 360s tr(5) 20s (-) 25s tr(2) 10s si 305s	25		306.5 A1A.	
1720	Ostrov Kamen Opasnosti	45° 47.7' N 142° 13.4' E	K (-•-). period 180s tr 6s (-) 19.5s si 4.5s repeats(1) 30s si 120s	15		315.5 A1A.	
1730	Mys Tomari Aniva (Korsakov)	46° 36.5' N 142° 47.7' E	KW (-•- •--). period 360s tr(2) 12s (-) 18s repeats(1) 30s si 300s	80		312.5 A2A.	Transmits at night or continuously during periods of low visibility at 05, 11, 17, 23, 29, 35, 41, 47, 53 and 59 minutes past each hour.
1740	Mys Susnova Light Station	46° 31.5' N 138° 19.0' E	KM (-•- --). period 360s tr(6) 22s (-) 25s tr(2) 8s si 305s	50		318.5 A1A.	
1750	Mys Yelizavety Light Station	54° 25.5' N 142° 43.0' E	EZ (• - - ••). period 360s	150	I	294.5 A2A.	Navigation season only.
1752	Pil'tun Light Station	52° 51.0' N 143° 18.5' E	PN (•--- • -•). period 360s	150	II	294.5 A2A.	
1754	Chayvo	52° 21.0' N 143° 12.0' E	ChW (--- • - --). period 360s	80	III	294.5 A2A.	
1756	Zaliv Mardvinova	46° 49.4' N 143° 13.1' E	MN (-- - •). period 360s	100	IV	294.5 A2A.	Navigation season only.
1757	Mys Terpeniya Light Station	48° 38.6' N 144° 44.8' E	TR (- •- •). period 360s	150	V	294.5 A2A.	Navigation season only.
1758	Poronaysk Light Station	49° 13.6' N 143° 07.7' E	AS (•- • ••). period 360s	100	VI	294.5 A2A.	
1760	Mys Krasnyy Partizan Light Station	48° 58.5' N 140° 24.8' E	KP (•- • - -- •). period 360s tr(4) 20s (-) 25s tr(2) 10s si 305s	80		312.5 A2A.	Does not transmit during periods of clear weather during daylight hours.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1780	Uglegorsk Light Station	49° 04.6' N 142° 01.8' E	UG (• - - - •). period 180s tr(5) 19s (-) 25s repeats(2) 7s si 128s	80		297.5	A1A.
1790	Mys Zhonkiyer Light Station	50° 53.9' N 142° 07.0' E	VR (• • - - -). period 360s tr(5) 19s (-) 25s repeats(2) 7s si 128s	100	I	309.5	A2A.
1792	Mys Lamanon Light Station	48° 47.1' N 141° 51.2' E	LM (- - • - - -). period 360s tr(5) 19s (-) 25s repeats(2) 7s si 128s	100	II	309.5	A2A.
1796	Mys Datta Light Station	49° 18.8' N 140° 26.8' E	LD (- - • - - -). period 360s tr(5) 19s (-) 25s repeats(2) 7s si 128s	100	IV	309.5	A2A.
1798	Mys Peschanyy Light Station	48° 26.7' N 140° 10.5' E	PA (- - - • - - -). period 360s tr(5) 19s (-) 25s repeats(2) 7s si 128s	100	V	309.5	A2A.
1800	Mys Kloster-Kamp Light Station (Orlova)	51° 25.5' N 140° 53.2' E	OW (- - - • - - -). period 360s tr(5) 19s (-) 25s repeats(2) 7s si 128s	100	VI	309.5	A2A.
1810	Moskal'vo	53° 36.3' N 142° 30.2' E	MO (- - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	80	I	318.5	A2A.
1812	Menshikova	53° 17.7' N 141° 24.6' E	ME (- - - •). period 360s tr (4) 20s (-) 25s tr (2) 10s si 305s	100	II	318.5	A2A.
1814	Mys Litke	53° 56.0' N 140° 21.0' E	LT (- - • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	III	318.5	A1A.
1815	Mys Lazareva Light Station	52° 12.0' N 141° 30.7' E	AZ (- - - - - - -). period 360s tr(5) 19s (-) 25s repeats(2) 7s si 128s	80	VI	318.5	A2A.
1820	Nyyvo	51° 57.0' N 143° 08.0' E	NW (- - - • - - -). period 360s tr(5) 19s (-) 25s repeats(2) 7s si 128s	50		306.5	NON, A2A.
1830	Yeyrineyskaya	59° 15.0' N 145° 49.6' E	RA (- - - • - - -). period 360s tr(5) 19s (-) 25s repeats(2) 7s si 128s	25		291.5	A1A.
1840	Mys Alevina	58° 50.0' N 151° 21.0' E	AL (- - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	I	303.5	A2A.
1842	Mys Chirikova	59° 29.0' N 150° 32.0' E	Chl (- - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	80	III	303.5	A2A.
1844	Ostrov Spafar'yeva	59° 09.8' N 149° 05.7' E	SF (- - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	303.5	A2A.
1846	Mys Elagin (Duga)	59° 09.0' N 146° 03.0' E	DG (- - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	303.5	A2A.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1848	Mys Marekan (Okhotsk)	59° 19.2' N 143° 28.7' E	MK (- - - • -). period 360s tr (interrupted by a long dash) 60s si 300s	175 80	VI	303.5 A2A.	
1850	Ostrov Ptichiy	57° 10.0' N 156° 37.0' E	PI (• - - - • •). period 360s tr (interrupted by a long dash) 60s si 300s	50		309.5 A1A.	
1860	Oklyabr'skiy	52° 33.8' N 156° 18.5' E	BO (- • • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	I	297.5 A2A.	
1862	Mys Lopatka Light Station	50° 53.5' N 156° 40.5' E	LK (• - • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	80	II	297.5 A2A.	
1864	Mys Kurbatova Light Station, Kuril Islands	50° 51.9' N 156° 28.7' E	RB (• - - - - • •). period 360s tr (interrupted by a long dash) 60s si 300s	150	III	297.5 A2A.	
1866	Mys Vasil'yeva Light Station, Kuril Islands	50° 00.2' N 155° 23.5' E	MW (- - - • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	297.5 A2A.	
1868	Krutogorovaya	55° 05.0' N 155° 37.0' E	KG (- • - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	297.5 A2A.	
1870	Ozernovskiy Light Station	51° 29.0' N 156° 29.0' E	OA (- - - - • - -). period 360s tr (interrupted by a long dash) 55s si 305s	150	VI	297.5 A2A.	
1875	Mys Veslovskiy Light Station	43° 39.4' N 145° 32.7' E	WO (• - - - - - -). period 180s tr(5) 19s (-) 25s tr(2) 7s si 129s	25		306.5 A1A.	
1880	Ostrov Shpanberga (Shikotan To) Light Station	43° 50.0' N 146° 55.0' E	PG (• - - - • - - -). period 360s tr 60s si 300s	100	I	312.5 A2A.	
1882	Mys Lovtsova (Atoiya Misaki) Light Station	44° 27.0' N 146° 34.5' E	OC (- - - - - - - -). period 360s tr 60s si 300s	150	II	312.5 A2A.	
1884	Mys Van-der-Lind (Nobonotsu Misaki) Light Station	45° 35.0' N 149° 24.0' E	WL (• - - - - • - -). period 360s tr 60s si 300s	150	III	312.5 A2A.	
1886	Mys Kastrikum Light Station	46° 13.7' N 150° 34.0' E	KU (- • - - - - -). period 360s tr 60s si 300s	150	IV	312.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1888	Ostrov Toporkov Light Station	48° 04.4' N 153° 17.5' E	TK (- - • -). period 360s tr(5) 20s (-) 25s tr(2) 8s si 307s	50		324.5	A1A.
1890	Ostrov Zelenyy (Shibotsu Jima) Light Station	43° 31.8' N 146° 12.6' E	ZN (- - • • - -).	50		309.5	A1A.
1900	Yakujono Bana	43° 52.4' N 146° 49.0' E	MU (- - • • - -).	50		303.5	A1A.
1905	Kamo Shima	43° 43.9' N 146° 43.1' E	DW (- • • • - - -).	50		303.5	A1A.
1907	Taraku To	43° 37.0' N 146° 21.6' E	PS (* - - • • • - - -).	50		318.5	A1A.
1910	Mys Yuzhno Kuril'skiy	44° 01.2' N 145° 51.6' E	YuK (* • - - - - - - - -).	30		324.5	NON, A1A.
1920	O Misaki Ostrov Iturup	45° 26.0' N 147° 55.4' E	BS (- * * * • • * - - -).	50		312.5	A2A.
1930	Mys Chibuynyy (Imai Saki) Light Station	50° 46.0' N 156° 12.0' E	ChN (- - - • - - -).	150		306.5	A2A.
							Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1950	Kruglyy	52° 04.0' N 158° 20.0' E	RL (* - • • - - - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150		291.5	A2A.
1951	Russkiy Light Station	52° 26.1' N 158° 30.5' E	UR (* • - • - - - - - - - -). period 180s tr(5) 19s (-) 25s tr(2) 7s si 129s	30		303.5	A1A.
1951.5	Vilyuchinskiy	52° 36.7' N 158° 27.2' E	WUT (* - - • • - - - - - - - -). period 180s tr(5) 19s (-) 25s tr(2) 7s si 129s	30		309.5	A1A.
1952	Mys Ozernoy	57° 43.5' N 163° 18.9' E	ZR (- - • • - - - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	50		291.5	A1A.
1954	Mys Shipunskiy	53° 06.0' N 160° 01.5' E	ChP (- - - - • - - - - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	100	III	291.5	A2A.
1956	Mys Kronotskiy	54° 43.8' N 162° 07.2' E	KO (- • - - - - - - - - - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	291.5	A2A.
1958	Mys Afrika	56° 10.5' N 163° 18.1' E	AF (* - • • - - - - - - - - - - - - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	291.5	A2A.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1960	Mys Mayachny Light Station	52° 53.4' N 158° 42.4' E	MYa (-- •--). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	291.5 A2A.	
1980	Ust Kamchatsk	56° 13.0' N 162° 31.0' E	RD (•-- -••). period 360s	50		315.5 A1A.	
1990	Karaginski	58° 33.0' N 163° 33.0' E	KJ (-•- •---). period 360s tr(4) 20s (-) 25s tr(2) 10s si 305s	150	I	294.5 A2A.	
1995	Smirnova	59° 54.3' N 166° 23.9' E	SN (••• -•). period 360s tr(5) 20s (-) 25s tr(2) 10s si 305s	50		309.5 A1A.	
2000	Yuzhnaya Glubokaya	60° 11.0' N 166° 53.0' E	YuG (••-- --•). period 360s	50		315.5 A1A.	Navigation season only.
2010	Lavrova	60° 19.0' N 167° 05.0' E	LR (••• •--). period 360s	50		300.5 A1A.	
2015	Bubnova	60° 01.7' N 170° 26.2' E	BO (-••• ---). period 360s tr 20s (-) 25s tr 10s si 305s	50		300.5 A1A.	
2020	Mys Lesovskogo	64° 20.2' N 173° 34.5' W	LS (•••• •••). period 600s tr 110s si 490s	150	V	303.5 A1A.	
2021	Likhacheva Light Station	64° 25.1' N 173° 15.0' W	LW (••• •--). period 600s	35		318.5 A1A.	Navigation season only.
2030	Mys Chaplina Light Station	64° 24.2' N 172° 15.0' W	CHP (-••• ••• •--). period 600s tr 110s si 490s	150	IV	303.5 A1A.	
2080	Russkaya Koshka	64° 34.5' N 178° 32.9' E	RK (•-- -•-). period 360s tr 60s si 300s	150	V	315.5 A2A.	
2090	Navarin	62° 22.3' N 179° 09.5' E	NR (-• •--). period 360s tr 55s si 305s	50		312.5 A1A	

Section 23

Differential GPS Stations

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
KOREA							
7	Chumunjin.	37° 53.9' N 128° 50.0' E	T 663 R 726 R 727	100	295		Message Types: 9. DGPS station.
9	Taep'ung Gam.	37° 31.0' N 130° 48.0' E		100	319		24 hours continuously.
10	Changgigot Light	36° 04.5' N 129° 34.3' E	T 666 R 732 R 734	155	310	100	Message Types: 9. Antenna Power: 300W 24 hours continuously
10.5	Mara Do	33° 07.0' N 126° 16.2' E	T 665 R 730 R 731		290		24 hours continuously.
11	Geomun Do	34° 00.5' N 127° 19.3' E	T 662 R 724 R 725	100	287	100	Message Types: 9.
12	Yong Do.	35° 03.1' N 129° 05.5' E	T 660 R 720 R 721	100	300	100	Message Types: 9. 24 hours continuously.
CHINA							
20	Kau Yi Chau	22° 17.0' N 114° 04.6' E		270	289	200	Message Types: 1, 2, 3, 5, 6, 16.
JAPAN							
315	Kushiro Saki	42° 58.1' N 144° 22.5' E	T 630	108	288		
320	Abashiri	43° 59.9' N 144° 17.4' E	T 631	108	309		
328	Soya Misaki	45° 31.2' N 141° 56.2' E	T 632	108	295		
338	Shakotan Misaki	43° 22.2' N 140° 28.1' E	T 633	108	316		
344	Matsumae	41° 25.3' N 140° 05.2' E	T 634	108	309		
350	Hamada Ko	34° 52.7' N 132° 02.3' E	T 635 R 670 R 671	108	305	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
355	Tango	35° 44.3' N 135° 05.2' E	T 636	108	316		
362	Hekura Jima	37° 51.1' N 136° 55.2' E	T 637	108	295		
368	Sakata	38° 56.8' N 139° 49.4' E	T 638	108	288		
374	Siriya Saki	41° 25.7' N 141° 27.8' E	T 639	108	302		
380	Kinkasan	38° 16.6' N 141° 35.0' E	T 640 R 680 R 681	108	316	200	Message Types: 1, 3, 5, 6, 7, 9, 16.

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
JAPAN							
386	Inubo Saki	35° 42.5' N 140° 52.1' E	T 641 R 682 R 683	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
392	Urayasu	35° 37.0' N 139° 53.8' E	T 642	108	321		
402	Hachijo Jima	33° 04.8' N 139° 51.1' E	T 644 R 688 R 689	108	302	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
411	Nagoya	35° 02.1' N 136° 50.8' E	T 645	108	320		
423	Muroto Saki	33° 15.1' N 134° 10.6' E	T 647 R 694 R 695	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
455	Wakamiya	33° 52.1' N 129° 41.2' E	T 651 R 702 R 703	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
462	Ose Saki	32° 37.0' N 128° 36.3' E	T 652 R 704 R 705	108	302	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
474	Toi Misaki	31° 22.4' N 131° 20.1' E	T 653 R 706 R 707	108	309	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
485	Nakano Shima	29° 49.3' N 129° 54.9' E	T 654	108	320.5		
490	Gesasi	26° 36.3' N 128° 09.1' E	T 655	108	288		
495	Miyako Shima	24° 43.8' N 125° 26.2' E	T 656	108	316		
SINGAPORE							
900	Raffles Light, Pulau Stamu.	1° 09.5' N 103° 44.7' E	T 65	105	298	100	Message Types: 3, 5, 7, 9, 16.
PERSIAN GULF							
1650	Ra's Al Khaymah	25° 59.0' N 56° 04.0' E	T 142 R 480 R 481	250	292	200	Message Types: 3, 6, 7, 9, 16.
1680	Abu Dhabi	24° 06.0' N 52° 56.0' E	T 143 R 486 R 487	250	314	200	Message Types: 3, 6, 7, 9, 16.
1700	Bahrain	26° 07.0' N 50° 39.0' E	T 140 R 480 R 481	250	298	200	Message Types: 3, 6, 7, 9, 16.
1720	Kuwait	29° 07.0' N 48° 08.0' E	T 141 R 482 R 483	250	295	200	Message Types: 3, 6, 7, 9, 16.
RED SEA							
1830	Ras Gharib	28° 21.1' N 33° 06.6' E	T 323 R 446 R 447	150	298		

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
RED SEA							
1840	Ras Umm Said	27° 50.9' N 34° 18.8' E	T 322 R 444 R 445	126	293.5		
1850	El Quseir	26° 08.3' N 34° 15.6' E	T 325 R 450 R 451	260	314.5		
1870	Jeddah	21° 28.4' N 39° 08.9' E	T 961	250	320	200	Message Types: 3, 5, 6, 7, 9, 16.
1880	Gizan	16° 53.1' N 42° 32.1' E	T 962	250	324	200	Message Types: 3, 5, 6, 7, 9, 16.

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Aberdeen	19427	Akitahara Ko	9080	An Do	17072, 17864
Abington	30608	Akitu Ko	8832	An Lan	13636
Abosi Ko	7764	Akizuki	9054	An Thoi	20518
Abu Ali	29412	Akkeshi	500	Analalava	32672
Abu Dhabi	30016	Ako	7804	ANAMBAS ISLANDS (INDO)	21096
Abu Hulayfah	29270	Ako Ko	4936	Anamizu	2976
Abu Musa Lightfloat	28742	Ako Misaki	7800	ANDAMAN ISLANDS	26492
Abu Nuhus	30404.5	Akunami	5952	Ando Sima	8988
Abu Tig	30407	Akune Ko	11164	Androth Island	27616
Abura Syo	8420	Akuseki Sima	13102	Anheung Hang	17852
Aburatori Se	9184	Al Arabiyah	29368	Anhung Shin Hang	17850
ABURATSU KO	10820	Al Baghlah	30743	Anjengo	27502
Abuta Byochi	792	Al Hayrah	30094	Anma Do	17716
Abuto Saki	8424	Al Jeeb	28692	Anma Hang	17721
Abuya Ko	2788	AL JUBAYL	29420	Anori Saki	6356
Abuyong	14932	Al Kubr	29176	Anorombato Pointe	32652
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AD DAMMAM	29580	AL MOCHA	30844	Anping Harbor	13832
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Agashi Gaiko	7652	Al Shaheen	28875	Ao Sattahip	20620
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Ashrafi Juzur	30396	BAIA DI ASSAB	30856	Basilisk	26360
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Nepristupryy	1680
Nyvvo	1820

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Ostrov Skrypleva	1651.5
Ostrov Spafar'yeva	1844
Ostrov Toporkov	1888
Ostrov Zelenyy	1890
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Russkiy	1951

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Sattahip 850	Tathong Point 1160	
Shakotan Misaki 1564	Toi Misaki 1402	
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Chumunjin	Jeddah	1830
7	1870	Ras Umm Said
J		1840

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
17233	1	D6407.5	32137	D6488	31928	D6612	31612
4065.5	.....	18225	D6407.51	.....	32137.1	D6491	.....	31836	D6612.4	.....	31620
D5912	.....	32268	D6408	.....	32137.2	D6491.4	.....	31840	D6612.5	.....	31624
D5913	.....	32264	D6408.2	.....	32137.3	D6492	.....	31844	D6613	.....	31632
D6120	.....	32324	D6409	.....	32137.4	D6492.1	.....	31848	D6614	.....	31636
D6140	.....	32280	D6409.5	.....	32137.5	D6500	.....	31868	D6618	.....	31604
D6141	.....	32284	D6409.6	.....	32137.7	D6503	.....	31876	D6620	.....	31600
D6143	.....	32288	D6409.7	.....	32137.6	D6503.1	.....	31880	D6622	.....	31596
D6143.1	.....	32292	D6412	.....	32104	D6508	.....	31884	D6624	.....	31592
D6143.2	.....	32296	D6414	.....	32100	D6508.1	.....	31888	D6628	.....	31580
D6144	.....	32300	D6416	.....	32096	D6512	.....	31892	D6630	.....	31584
D6146	.....	32304	D6420	.....	32092	D6514	.....	31896	D6632	.....	31588
D6150	.....	32308	D6424	.....	32076	D6517	.....	31900	D6634	.....	31576
D6151	.....	32312	D6424.2	.....	32080	D6517.1	.....	31904	D6636	.....	31568
D6151.1	.....	32316	D6426	.....	32072	D6518	.....	31908	D6637	.....	31572
D6153	.....	32318	D6428	.....	32084	D6518.1	.....	31912	D6640	.....	31564
D6200	.....	32272	D6428.1	.....	32088	D6519	.....	31916	D6641	.....	31560
D6224	.....	32276	D6432	.....	32068	D6519.1	.....	31920	D6642	.....	31556
D6240	.....	32253	D6434	.....	32064	D6520	.....	31924	D6644	.....	31552
D6241	.....	32254	D6438	.....	32060	D6522	.....	31832	D6645	.....	31548
D6260	.....	32252	D6442	.....	32056	D6524	.....	31828	D6646	.....	31544
D6262	.....	32248	D6446	.....	32052	D6526	.....	31824	D6647	.....	31540
D6280	.....	32244	D6448	.....	32048	D6528	.....	31820	D6648	.....	31536
D6290	.....	32240	D6450	.....	32044	D6530	.....	31816	D6650	.....	31516
D6300	.....	32232	D6452	.....	32040	D6532	.....	31812	D6651	.....	31520
D6304	.....	32236	D6454	.....	32032	D6536	.....	31804	D6651.1	.....	31524
D6306	.....	32220	D6458	.....	32020	D6538	.....	31800	D6653	.....	31528
D6307	.....	32224	D6461	.....	31974	D6540	.....	31788	D6653.1	.....	31532
D6308	.....	32228	D6461.5	.....	31975	D6542	.....	31792	D6654	.....	31500
D6320	.....	32216	D6463	.....	31977	D6544	.....	31796	D6656	.....	31504
D6332	.....	32212	D6464	.....	31978	D6546	.....	31784	D6656.1	.....	31508
D6370	.....	32208	D6466	.....	31980	D6548	.....	31780	D6666	.....	31492
D6370.1	.....	32206	D6472	.....	31984	D6553	.....	31764	D6668	.....	31484
D6370.2	.....	32206.2	D6472.1	.....	31988	D6554	.....	31768	D6672	.....	31432
D6370.3	.....	32205	D6473	.....	31989	D6556	.....	31776	D6673	.....	31431
D6371	.....	32204	D6473.2	.....	31989.5	D6562	.....	31760	D6674	.....	31436
D6372	.....	32200	D6473.22	.....	31991	D6563	.....	31756	D6674.1	.....	31440
D6374	.....	32196	D6473.3	.....	31990	D6564	.....	31752	D6684	.....	31444
D6377.1	.....	32194	D6475	.....	31992	D6566	.....	31744	D6684.1	.....	31448
D6378	.....	32192	D6475.1	.....	31996	D6567	.....	31748	D6694	.....	31476
D6379	.....	32184	D6475.2	.....	31997	D6570	.....	31740	D6694.1	.....	31480
D6380	.....	32164	D6475.3	.....	31998	D6573.4	.....	31732	D6697	.....	31453
D6381	.....	32168	D6476	.....	31999	D6574	.....	31736	D6697.1	.....	31453.1
D6381.1	.....	32172	D6476.2	.....	32001	D6575	.....	31724	D6698	.....	31451
D6381.2	.....	32176	D6477	.....	32002	D6576	.....	31720	D6698.1	.....	31451.1
D6381.3	.....	32180	D6477.2	.....	32003	D6580	.....	31716	D6700	.....	31428
D6382	.....	32188	D6477.4	.....	32005	D6582	.....	31712	D6702	.....	31424
D6382.1	.....	32189	D6477.5	.....	32006	D6586	.....	31708	D6704	.....	31416
D6382.5	.....	32190	D6478	.....	32000	D6590	.....	31704	D6706	.....	31404
D6383	.....	32156	D6480	.....	31968	D6591	.....	31692	D6706.1	.....	31408
D6383.1	.....	32160	D6481	.....	31972	D6591.2	.....	31696	D6718	.....	31384
D6383.2	.....	32154	D6482	.....	31964	D6591.4	.....	31700	D6721	.....	31388
D6383.3	.....	32154.1	D6483	.....	31944	D6592	.....	31688	D6722	.....	31392
D6384	.....	32152	D6483.2	.....	31948	D6596	.....	31684	D6726	.....	31376
D6386	.....	32148	D6483.21	.....	31952	D6598	.....	31660	D6726.1	.....	31380
D6386.1	.....	32150	D6483.4	.....	31956	D6598.1	.....	31661	D6732	.....	31368
D6390	.....	32144	D6483.45	.....	31960	D6602	.....	31652	D6732.1	.....	31372
D6400	.....	32108	D6483.5	.....	31962	D6602.1	.....	31656	D6738	.....	31356
D6401	.....	32138	D6483.52	.....	31963	D6604	.....	31680	D6740	.....	31344
D6403	.....	32124	D6483.53	.....	31963.2	D6606	.....	31672	D6742	.....	31340
D6403.1	.....	32128	D6483.54	.....	31963.4	D6606.1	.....	31676	D6746	.....	31276
D6404	.....	32116	D6483.57	.....	31963.6	D6610	.....	31640	D6748	.....	31284
D6405	.....	32120	D6484	.....	31940	D6611	.....	31608	D6748.1	.....	31288
D6406	.....	32132	D6485	.....	31936	D6611.3	.....	31616	D6751	.....	31280
D6407	.....	32136	D6486	.....	31932	D6611.6	.....	31628	D6754	.....	31296

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D6754.1	.....	31300	D6870	.....	32812	D6980	.....	32487	D7082.3	.....	32920
D6756	.....	31308	D6871	.....	32816	D6980.1	.....	32487.1	D7082.31	.....	32924
D6757	.....	31332	D6873	.....	32780	D6982	.....	32492	D7083	.....	32928
D6757.1	.....	31336	D6874	.....	32784	D6988	.....	32496	D7083.1	.....	32932
D6758	.....	31304	D6875	.....	32785	D6992	.....	32516	D7083.4	.....	32936
D6759	.....	31328	D6877	.....	32788	D6994	.....	32500	D7083.41	.....	32940
D6759.55	.....	31316	D6881.6	.....	32892	D6994.1	.....	32504	D7083.46	.....	32916
D6759.56	.....	31316.1	D6882.1	.....	32732	D6995	.....	32508	D7083.6	.....	32944
D6760	.....	31312	D6883	.....	32736	D6995.1	.....	32512	D7083.61	.....	32948
D6761.4	.....	31324	D6891	.....	32777	D6998	.....	32520	D7083.7	.....	32956
D6763	.....	31320	D6892	.....	32777.2	D6998.1	.....	32524	D7083.75	.....	32952
D6769	.....	31272	D6892.1	.....	32777.21	D7000	.....	32528	D7083.9	.....	32964
D6770	.....	31268	D6892.5	.....	32777.4	D7000.1	.....	32532	D7083.91	.....	32968
D6772	.....	31208	D6892.6	.....	32777.1	D7004	.....	32536	D7084	.....	32972
D6772.1	.....	31212	D6893	.....	32777.6	D7004.1	.....	32540	D7086	.....	32976
D6774	.....	31216	D6893.6	.....	32777.62	D7006	.....	32544	D7088	.....	32980
D6774.1	.....	31220	D6894	.....	32777.5	D7014	.....	32548	D7088.1	.....	32984
D6775	.....	31224	D6894.6	.....	32766	D7018	.....	32552	D7089	.....	32988
D6784	.....	31228	D6894.61	.....	32766.1	D7019	.....	32556	D7089.4	.....	32992
D6784.1	.....	31232	D6896	.....	32760	D7019.1	.....	32560	D7089.41	.....	32996
D6794	.....	31240	D6897	.....	32764	D7020	.....	32564	D7090	.....	33000
D6794.1	.....	31244	D6898	.....	32776	D7020.1	.....	32568	D7091	.....	33004
D6796	.....	31236	D6900	.....	32768	D7021	.....	32572	D7091.2	.....	33008
D6812	.....	31256	D6900.1	.....	32772	D7022	.....	32576	D7091.4	.....	33012
D6812.1	.....	31260	D6902	.....	32752	D7024	.....	32580	D7091.41	.....	33016
D6812.5	.....	31264	D6904	.....	32744	D7024.1	.....	32584	D7092	.....	33020
D6813	.....	31252	D6904.1	.....	32748	D7025	.....	32588	D7096	.....	32852
D6818	.....	31204	D6914	.....	32328	D7025.1	.....	32592	D7097	.....	32872
D6820	.....	31200	D6918	.....	32356	D7026.5	.....	32598	D7098	.....	32876
D6824	.....	31192	D6919	.....	32360	D7027	.....	32600	D7099	.....	32860
D6825	.....	31196	D6920	.....	32332	D7028	.....	32604	D7099.1	.....	32864
D6828	.....	31188	D6922	.....	32336	D7028.1	.....	32608	D7099.2	.....	32868
D6832	.....	31176	D6924	.....	32340	D7029	.....	32612	D7102	.....	32848
D6832.1	.....	31180	D6925	.....	32344	D7030	.....	32616	D7104	.....	32880
D6842	.....	31160	D6926	.....	32348	D7032	.....	32620	D7114	.....	33028
D6842.9	.....	31161	D6926.1	.....	32352	D7033	.....	32624	D7114.1	.....	33032
D6843	.....	31161.5	D6930	.....	32364	D7033.7	.....	32628	D7119.5	.....	33072
D6843.1	.....	31162	D6936	.....	32368	D7034	.....	32640	D7119.51	.....	33076
D6844	.....	31163	D6936.1	.....	32372	D7035	.....	32660	D7206	.....	31152
D6844.1	.....	31163.1	D6938	.....	32376	D7035.1	.....	32664	D7210	.....	31144
D6845	.....	31164	D6939	.....	32380	D7036	.....	32652	D7210.1	.....	31148
D6845.1	.....	31164.1	D6942	.....	32384	D7037	.....	32644	D7212	.....	31136
D6846	.....	31165	D6943	.....	32388	D7038	.....	32666	D7212.1	.....	31140
D6846.2	.....	31165.2	D6943.1	.....	32392	D7038.1	.....	32666.1	D7218	.....	31096
D6846.4	.....	31165.4	D6944	.....	32400	D7041	.....	32648	D7220	.....	31100
D6846.6	.....	31165.6	D6944.1	.....	32404	D7042	.....	32668	D7220.1	.....	31104
D6847	.....	31166	D6945	.....	32396	D7043	.....	32656	D7221	.....	31108
D6847.1	.....	31166.1	D6946	.....	32408	D7048	.....	32672	D7221.1	.....	31112
D6848	.....	31172	D6947	.....	32420	D7050	.....	32676	D7222	.....	31132
D6860	.....	32844	D6948	.....	32424	D7052	.....	32680	D7223	.....	31128
D6861	.....	32832	D6948.1	.....	32428	D7056	.....	32684	D7224	.....	31116
D6861.1	.....	32836	D6948.3	.....	32412	D7058	.....	32688	D7224.1	.....	31120
D6862	.....	32824	D6948.5	.....	32416	D7062	.....	32692	D7226	.....	31124
D6862.4	.....	32828	D6949.5	.....	32432	D7065	.....	32708	D7230	.....	31092
D6863	.....	32840	D6950	.....	32436	D7065.1	.....	32712	D7236	.....	31088
D6864	.....	32820	D6952	.....	32444	D7068	.....	32716	D7238	.....	31084
D6865	.....	32800	D6954	.....	32448	D7069	.....	32720	D7239	.....	31080
D6866	.....	32792	D6956	.....	32440	D7069.1	.....	32724	D7242	.....	31076
D6867	.....	32804	D6958	.....	32452	D7070	.....	32728	D7246	.....	31072
D6867.1	.....	32808	D6960	.....	32456	D7073	.....	32884	D7256	.....	31068
D6867.31	.....	32810.1	D6972	.....	32460	D7077	.....	32896	D7258	.....	31064
D6867.32	.....	32810.5	D6973	.....	32464	D7078	.....	32908	D7260	.....	31056
D6867.4	.....	32811	D6973.1	.....	32468	D7080	.....	32900	D7260.1	.....	31060
D6867.5	32811.1	D6976	32476	D7080.1	32904	D7263	31044
D6868	32796	D6978	32480	D7081.9	32912	D7264	31040

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7266	31048	D7321.74	28605.5	D7354.9	30137	D7372.2	30006.4				
D7266.1	31052	D7321.76	28605.7	D7354.92	30138	D7372.4	30006.8				
D7272	30952	D7322	28600	D7355	30096	D7375.6	29843				
D7273	30964	D7322.25	28604.4	D7355.2	30120	D7375.7	29848.2				
D7274	30956	D7322.5	28598	D7355.3	30121	D7375.8	29848.4				
D7274.1	30960	D7323	28596	D7355.32	30121.5	D7376.2	29849.2				
D7275	30968	D7324	28592	D7355.4	30124	D7376.3	29849.4				
D7276	30972	D7324.4	28590	D7355.6	30100	D7376.6	29850				
D7280	30988	D7324.5	28590.2	D7355.61	30104	D7378	29816				
D7280.1	30992	D7325.2	28590.4	D7355.7	30108	D7378.2	29820				
D7283	31036	D7325.9	28589	D7355.8	30110	D7381	29808				
D7284	31008	D7326	28588	D7355.9	30112	D7382	29912				
D7285	31004	D7326.5	28587	D7355.94	30112.1	D7383	29800				
D7286	30996	D7326.6	28587.5	D7356	30118	D7384	29804				
D7286.1	31000	D7327	28586	D7356.2	30114	D7384.9	29918				
D7287	31028	D7328	28584	D7356.3	30116	D7384.3	29805				
D7288	31032	D7329	28568, 28570	D7356.5	30117	D7384.4	29805.1				
D7289	31012	D7329.2	28572	D7356.6	30082.5	D7384.5	29805.2				
D7289.2	31016	D7329.3	28580	D7356.7	30082	D7385	29932				
D7292	31020	D7329.4	28576	D7356.8	30081.5	D7385.2	29934				
D7292.1	31024	D7330	28566	D7357	30084	D7385.4	29944				
D7294	30980	D7331	28564	D7357.2	30081	D7385.6	29945				
D7294.1	30984	D7332	28560	D7357.3	30080	D7387	29946				
D7301	30948	D7332.3	28558	D7357.4	30076	D7387.2	29946.1				
D7302	30950	D7333	28556	D7357.75	30074	D7387.3	29947				
D7302.1	30951	D7334	28556.2	D7358	30072	D7387.4	29947.1				
D7302.3	30949	D7334.4	28556.4	D7358.21	30071.7	D7387.7	29930				
D7303	30949.1	D7334.5	28556.6	D7359	30048	D7387.8	29930.2				
D7303.2	30949.2	D7334.8	28690	D7360	30064	D7389	29892				
D7304	30936	D7334.85	28690.1	D7360.2	30068	D7389.2	29893				
D7308	30940	D7335	28552	D7360.22	30070	D7389.4	29893.5				
D7309	30944	D7336	30160	D7360.4	30052	D7390.8	29899				
D7311	30928	D7336.2	30161	D7360.5	30056	D7390.9	29900				
D7311.2	30932	D7337	28668	D7360.6	30071	D7390.95	29904				
D7312	30920	D7338	28676	D7360.65	30071.1	D7391.6	29905				
D7312.2	30921	D7338.2	28680	D7360.8	30060	D7393	29812				
D7313	30904	D7339	28684	D7361	30062	D7393.9	29796				
D7313.2	30908	D7340	28688	D7362	30016	D7393.92	29796.7				
D7314	30912	D7340.2	28686	D7363	30020	D7393.93	29796.71				
D7314.2	30913	D7340.4	28687	D7363.08	30021	D7393.95	29796.5				
D7314.3	30913.2	D7340.5	28687.2	D7363.2	30024	D7393.97	29796.8				
D7314.5	30913.4	D7341	28692	D7363.3	30028	D7394.5	29794				
D7314.6	30913.7	D7342	28700	D7363.5	30032	D7395	29792				
D7314.7	30913.8	D7344	28696	D7363.6	30036	D7396	29624				
D7315	30914	D7345	30152	D7363.7	30037	D7398	29636				
D7315.4	28613	D7345.05	30157	D7363.75	30038	D7398.4	29640				
D7316	30903	D7345.2	30156	D7364	30040	D7399	29704				
D7316.2	30903.2	D7345.5	30153	D7364.2	30044	D7399.3	29738.5				
D7317	30903.4	D7346	28704	D7365.2	30013	D7399.5	29642				
D7317.2	30903.6	D7346.2	28708	D7365.3	30013.5	D7400	29738				
D7318	30902	D7348	28715	D7366	29872	D7401	29724				
D7318.1	28618	D7349	28716	D7366.2	29880	D7401.1	29728				
D7318.13	28618.2	D7350	28720	D7366.3	29876	D7402	29712				
D7318.14	28618.4	D7351	30140	D7366.4	29881	D7402.4	29716				
D7318.2	28612	D7351.4	30141	D7366.6	29868	D7402.5	29720				
D7318.22	28612.2	D7351.5	30141.2	D7367	29836	D7404	29740				
D7318.24	28612.4	D7351.6	30141.4	D7368	29952	D7404.1	29744				
D7318.4	28610	D7351.8	30141.6	D7368.2	29953	D7404.3	29746				
D7318.5	28610.2	D7351.85	30141.8	D7368.4	29953.1	D7404.5	29748				
D7319	28609	D7353	30088	D7369	29956	D7404.51	29752				
D7319.2	28609.2	D7353.2	30092	D7370	29964	D7404.8	29754				
D7320	28608	D7353.5	30094	D7370.4	29968	D7405	29756				
D7321.6	28605	D7353.6	30094.5	D7371.4	29994	D7405.1	29760				
D7321.7	28605.2	D7354	30132	D7371.6	30004	D7406	29764				
D7321.72	28605.3	D7354.2	30136	D7372	30006	D7406.2	29765				

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7407	29768	D7438	29420	D7576	29308	D7603.3	29226
D7407.6	.....	29769	D7438.4	.....	29424	D7577	.....	29302	D7603.5	.....	29285
D7407.7	.....	29769.5	D7438.6	.....	29428	D7577.1	.....	29302.1	D7603.6	.....	29285.2
D7409	.....	29732	D7438.8	.....	29432	D7577.2	.....	29301.5	D7604	.....	29228
D7409.2	.....	29736	D7439	.....	29440	D7577.3	.....	29301.1	D7604.4	.....	29143
D7409.5	.....	29737	D7439.4	.....	29444	D7577.4	.....	29301	D7604.5	.....	29143.1
D7410	.....	29776	D7439.5	.....	29448	D7577.51	.....	29303.1	D7604.6	.....	29143.2
D7411	.....	29772	D7439.6	.....	29452	D7578	.....	29300	D7604.7	.....	29143.3
D7413	.....	29644	D7439.8	.....	29460	D7578.2	.....	29296	D7604.8	.....	29143.4
D7414.7	.....	29648	D7441	.....	29476	D7578.4	.....	29296.1	D7605	.....	29144
D7415	.....	29649	D7441.1	.....	29480	D7579	.....	29292	D7605.3	.....	29146.2
D7415.2	.....	29650	D7441.4	.....	29468	D7580	.....	29246	D7605.4	.....	29146.1
D7415.21	.....	29650.5	D7441.5	.....	29472	D7580.1	.....	29246.5	D7607.8	.....	29288
D7417	.....	29656	D7441.6	.....	29464	D7580.3	.....	29248.1	D7607.9	.....	29276
D7417.2	.....	29660	D7442.5	.....	29484	D7580.4	.....	29248	D7611	.....	28972
D7417.3	.....	29664	D7442.51	.....	29488	D7582	.....	29252.1	D7612	.....	28976
D7417.4	.....	29668	D7443	.....	29416	D7582.2	.....	29252.2	D7613	.....	28980
D7417.5	.....	29672	D7444	.....	29412	D7582.4	.....	29252	D7614	.....	29032
D7417.6	.....	29676	D7445	.....	29400	D7582.5	.....	29252.3	D7614.1	.....	29036
D7417.7	.....	29680	D7446	.....	29396	D7582.6	.....	29249.1	D7615	.....	29012
D7417.8	.....	29684	D7447	.....	29376	D7582.7	.....	29249	D7616	.....	28996
D7417.9	.....	29688	D7449	.....	29388	D7582.8	.....	29249.2	D7616.1	.....	29000
D7418	.....	29692	D7450	.....	29384	D7585	.....	29271	D7617	.....	29048
D7418.2	.....	29696	D7450.4	.....	29392	D7585.1	.....	29271.1	D7617.1	.....	29052
D7418.3	.....	29700	D7452	.....	29369	D7585.15	.....	29271.2	D7618	.....	29016
D7419.2	.....	29703.5	D7452.1	.....	29370	D7585.6	.....	29264	D7619	.....	29020
D7420	.....	29520	D7454	.....	29368	D7586	.....	29265	D7620	.....	29044
D7421	.....	29500	D7455	.....	29364	D7586.2	.....	29266	D7621	.....	28992
D7422	.....	29512	D7456	.....	29372	D7586.7	.....	29268	D7622	.....	29024
D7424	.....	29532	D7456.2	.....	29372.1	D7587	.....	29269	D7622.1	.....	29028
D7425	.....	29504	D7457	.....	29348	D7587.2	.....	29269.1	D7623	.....	29004
D7427	.....	29534	D7457.3	.....	29347	D7587.62	.....	29270	D7623.1	.....	29008
D7428	.....	29536	D7457.6	.....	29346	D7587.63	.....	29270.1	D7624	.....	29056
D7428.1	.....	29540	D7462	.....	29352	D7587.8	.....	29273	D7624.1	.....	29060
D7428.4	.....	29572	D7500	.....	29336	D7588	.....	29184	D7625	.....	29064
D7428.45	.....	29573	D7505	.....	29340	D7589	.....	29278	D7626	.....	29068
D7428.6	.....	29535	D7505.1	.....	29344	D7589.4	.....	29280	D7626.1	.....	29072
D7428.8	.....	29544	D7505.4	.....	29344.5	D7589.52	.....	29184.3	D7627	.....	29076
D7428.81	.....	29548	D7567	.....	28958	D7589.6	.....	29284	D7627.1	.....	29080
D7429	.....	29576	D7568	.....	29324	D7589.7	.....	29276.6	D7629	.....	29092
D7429.2	.....	29568	D7568.2	.....	29328	D7589.8	.....	29276.8	D7629.1	.....	29096
D7429.3	.....	29564	D7568.4	.....	29330	D7590	.....	29185	D7630	.....	29084
D7429.5	.....	29560	D7569	.....	29316	D7590.2	.....	29185.1	D7630.1	.....	29088
D7429.6	.....	29556	D7569.2	.....	29320	D7590.4	.....	29185.3	D7632.9	.....	29100
D7429.8	.....	29552	D7570	.....	29322	D7590.5	.....	29185.4	D7633	.....	29104
D7431	.....	29580	D7571	.....	29236	D7591	.....	29186	D7633.1	.....	29108
D7432	.....	29584	D7572	.....	29240	D7591.2	.....	29186.1	D7635	.....	29112
D7432.1	.....	29588	D7573	.....	29176	D7592	.....	29220	D7635.2	.....	29116
D7432.4	.....	29592	D7573.2	.....	29180	D7593	.....	29220.2	D7635.6	.....	29120
D7432.8	.....	29596	D7575	.....	29312	D7593.2	.....	29220.4	D7635.8	.....	29124
D7433	.....	29600	D7575.4	.....	29310	D7593.4	.....	29221	D7637	.....	29128
D7433.2	.....	29604	D7575.5	.....	29313	D7593.6	.....	29221.4	D7639	.....	29140
D7433.4	.....	29608	D7575.6	.....	29304	D7593.7	.....	29221.6	D7640	.....	29132
D7433.5	.....	29612	D7575.65	.....	29312.6	D7593.8	.....	29222	D7640.1	.....	29136
D7434.25	.....	29616.4	D7575.655	.....	29303.2	D7593.9	.....	29222.2	D7648	.....	28956
D7434.3	.....	29616.6	D7575.66	.....	29303.3	D7594	.....	29216	D7649	.....	28957
D7434.4	.....	29616	D7575.665	.....	29303.4	D7594.4	.....	29212	D7662	.....	28952
D7434.6	.....	29533	D7575.67	.....	29303.5	D7595	.....	29188	D7663	.....	28948
D7434.61	.....	29533.1	D7575.675	.....	29303.6	D7595.5	.....	29192	D7664.4	.....	28916
D7434.7	.....	29410	D7575.68	.....	29303.7	D7596	.....	29196	D7665.2	.....	28924
D7435	.....	29402	D7575.7	.....	29312.1	D7596.1	.....	29200	D7665.3	.....	28928
D7436	.....	29404	D7575.75	.....	29312.2	D7598.7	.....	29202	D7666	.....	28940
D7436.1	.....	29408	D7575.8	.....	29312.3	D7599	.....	29209	D7666.2	.....	28944
D7437	.....	29418	D7575.85	.....	29312.4	D7601	.....	29210	D7668.4	.....	28930
D7437.5	.....	29419	D7575.9	.....	29312.5	D7603	.....	29224	D7671	.....	28904

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7671.1	.....	28908	D7734	.....	28516	E6023.4	.....	30261	E6044	.....	30452
D7674	.....	28900	D7740	.....	28508	E6023.41	.....	30261.1	E6044.09	.....	30416
D7676	.....	28892	D7742	.....	28504	E6023.6	.....	30264	E6044.3	.....	30454
D7677	.....	28888	D7745	.....	28500	E6024.4	.....	30276	E6044.35	.....	30455
D7680	.....	28880	D7750	.....	28472	E6025	.....	30280	E6044.6	.....	30448
D7681	.....	28878	D7751	.....	28476	E6025.2	.....	30284	E6044.65	.....	30449
D7682	.....	28872	D7751.1	.....	28480	E6025.21	.....	30288	E6044.7	.....	30458
D7683	.....	28876	D7752	.....	28488	E6025.4	.....	30292	E6044.75	.....	30462
D7684	.....	28868	D7753	.....	28496	E6025.41	.....	30296	E6044.8	.....	30463
D7685	.....	28816	D7756	.....	28492	E6025.6	.....	30300	E6044.82	.....	30463.1
D7685.4	.....	28820	D7760	.....	28424	E6025.61	.....	30304	E6045	.....	30469
D7685.6	.....	28856	D7760.09	.....	28427	E6025.8	.....	30316	E6045.5	.....	30469.5
D7685.61	.....	28860	D7761	.....	28428	E6025.81	.....	30320	E6046	.....	30469.6
D7686	.....	28832	D7761.5	.....	28436	E6026	.....	30308	E6046.1	.....	30469.7
D7686.1	.....	28836	D7763	.....	28440	E6026.1	.....	30312	E6046.5	.....	30470
D7686.3	.....	28840	D7763.1	.....	28441	E6026.3	.....	30324	E6047	.....	30476
D7686.31	.....	28844	D7763.11	.....	28441.1	E6026.31	.....	30328	E6047.2	.....	30470.5
D7686.5	.....	28848	D7763.5	.....	28442	E6027	.....	30332	E6047.4	.....	30472
D7686.51	.....	28852	D7763.51	.....	28442.1	E6028	.....	30364	E6047.5	.....	30471.5
D7688	.....	28864	D7763.9	.....	28445	E6028.4	.....	30372	E6047.55	.....	30471.4
D7689	.....	28812	D7763.91	.....	28446	E6028.41	.....	30376	E6047.6	.....	30474
D7690	.....	28804	D7764	.....	28444	E6029.5	.....	30342	E6047.63	.....	30474.5
D7691	.....	28808	D7765	.....	28448	E6030	.....	30340	E6047.65	.....	30471
D7692	.....	28792	D7766	.....	28452	E6031	.....	30348	E6047.67	.....	30475
D7692.2	.....	28800.5	D7767	.....	28456	E6032	.....	30384	E6047.68	.....	30475.2
D7692.3	.....	28801	D7768	.....	28460	E6033	.....	30388	E6047.7	.....	30484
D7692.4	.....	28796	D7769	.....	28464	E6034	.....	30368	E6048	.....	30492
D7692.5	.....	28800	D7770	.....	28468	E6036	.....	30404	E6048.11	.....	30605.2
D7695	.....	28768	D7800	.....	28422	E6036.2	.....	30405	E6048.12	.....	30605.1
D7696	.....	28772	D9192	.....	30158	E6036.21	.....	30406	E6048.14	.....	30605
D7697	.....	28776	D9206.9	.....	29822	E6036.4	.....	30405.5	E6048.155	.....	30605.5
D7697.2	.....	28784	E5996	.....	30204	E6036.5	.....	30404.5	E6048.2	.....	30606
D7697.4	.....	28788	E5996.1	.....	30208	E6037	.....	30408	E6048.5	.....	30478
D7698	.....	28764	E5997	.....	30216	E6037.2	.....	30406.2	E6048.6	.....	30479
D7699	.....	28756	E5997.2	.....	30212	E6037.3	.....	30406.4	E6048.7	.....	30493
D7699.2	.....	28760	E5998	.....	30196	E6037.5	.....	30409	E6048.75	.....	30494
D7700	.....	28732	E6000	.....	30200	E6037.7	.....	30410	E6048.8	.....	30496
D7701	.....	28728	E6004	.....	30217	E6037.8	.....	30410.2	E6048.85	.....	30497
D7703	.....	28724	E6008	.....	30224	E6037.9	.....	30410.4	E6048.9	.....	30498
D7704	.....	28740	E6010	.....	30228	E6037.91	.....	30410.6	E6048.95	.....	30499
D7705.6	.....	28742	E6012	.....	30220	E6038	.....	30411	E6049	.....	30500
D7706	.....	28744	E6014.1	.....	30724	E6038.1	.....	30411.5	E6049.2	.....	30504
D7707	.....	28647	E6015	.....	30229	E6039	.....	30412	E6049.3	.....	30508
D7707.1	.....	28647.1	E6016	.....	30232	E6039.3	.....	30413	E6049.4	.....	30508.5
D7707.5	.....	28647.5	E6017	.....	30230	E6039.5	.....	30414	E6049.42	.....	30509
D7708	.....	28648	E6018	.....	30238	E6039.9	.....	30415.5	E6049.46	.....	30510
D7708.2	.....	28652	E6019	.....	30240	E6039.91	.....	30415	E6049.48	.....	30511
D7708.4	.....	28656	E6019.3	.....	30242.5	E6040	.....	30396	E6049.6	.....	30511.1
D7708.5	.....	28660	E6019.5	.....	30242	E6040.3	.....	30422	E6049.61	.....	30511.2
D7709	.....	28624	E6019.7	.....	30242.2	E6040.5	.....	30420	E6049.7	.....	30511.22
D7709.2	.....	28628	E6019.8	.....	30242.4	E6040.7	.....	30424	E6049.75	.....	30511.23
D7709.4	.....	28632	E6020	.....	30236	E6040.72	.....	30424.2	E6049.8	.....	30511.24
D7709.41	.....	28636	E6021	.....	30244	E6040.74	.....	30424.4	E6049.85	.....	30511.25
D7709.6	.....	28644	E6021.2	.....	30248	E6040.76	.....	30424.6	E6049.9	.....	30511.3
D7709.7	.....	28640	E6021.5	.....	30252	E6040.8	.....	30425	E6049.91	.....	30511.4
D7710	.....	28620	E6021.6	.....	30253	E6040.9	.....	30426	E6050	.....	30511.5
D7711	.....	28548	E6021.61	.....	30253.1	E6041	.....	30428	E6050.1	.....	30480
D7712	.....	28544	E6021.8	.....	30254	E6041.4	.....	30432	E6050.2	.....	30511.51
D7713	.....	28540	E6022	.....	30254.5	E6042	.....	30436	E6050.35	.....	30511.52
D7714	.....	28540.5	E6022.2	.....	30255	E6042.2	.....	30437	E6050.4	.....	30511.53
D7719	.....	28536	E6022.5	.....	30256	E6042.21	.....	30438	E6050.45	.....	30511.55
D7720	.....	28532	E6023	.....	30260	E6042.3	.....	30439	E6050.5	.....	30511.54
D7725	.....	28526	E6023.35	.....	30261.3	E6043	.....	30440	E6050.6	.....	30511.61
D7730	.....	28524	E6023.37	.....	30260.1	E6043.4	.....	30441	E6050.63	.....	30528
D7731	.....	28520	E6023.38	.....	30260.2	E6043.5	.....	30444	E6050.7	.....	30511.71

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E6050.75	.....	30511.72	E6068	.....	30662	E6145.3	.....	30824	F0432.2	.....	28212
E6050.8	.....	30511.81	E6068.2	.....	30662.5	E6145.4	.....	30804	F0432.4	.....	28216
E6050.83	.....	30511.82	E6076	.....	30668	E6148.6	.....	30876	F0433	.....	28224
E6050.86	.....	30511.83	E6076.2	.....	30672	E6149	.....	30844	F0433.1	.....	28228
E6050.89	.....	30511.84	E6076.4	.....	30676	E6149.1	.....	30848	F0436	.....	28204
E6050.92	.....	30511.85	E6076.6	.....	30680	E6149.2	.....	30852	F0438	.....	28200
E6050.95	.....	30511.86	E6076.8	.....	30683	E6150	.....	30900	F0442	.....	28196
E6051.4	.....	30511.91	E6077	.....	30682	E6152	.....	30896	F0444	.....	28192
E6051.45	.....	30511.92	E6077.05	.....	30683.1	E8075	.....	30258	F0446	.....	28188
E6051.47	.....	30511.93	E6077.1	.....	30682.05	E8110	.....	30263	F0448	.....	28180
E6051.5	.....	30511.94	E6077.15	.....	30682.07	E8157	.....	30261.5	F0449	.....	28184
E6051.7	.....	30525	E6077.2	.....	30682.1	E8259	.....	30361	F0452	.....	28176
E6051.9	.....	30526	E6077.4	.....	30683.2	E8340	.....	30387	F0454	.....	28172
E6052.2	.....	30534	E6077.5	.....	30683.3	F0355	.....	28420	F0455	.....	28160
E6052.36	.....	30521	E6077.57	.....	30683.6	F0356	.....	28416	F0455.1	.....	28164
E6052.38	.....	30522	E6077.6	.....	30682.2	F0357	.....	28411	F0455.6	.....	28168
E6052.4	.....	30516	E6077.65	.....	30683.7	F0358	.....	28408	F0456	.....	28156
E6052.46	.....	30513	E6077.7	.....	30683.4	F0360	.....	28404	F0457	.....	28136
E6052.48	.....	30514	E6077.8	.....	30683.5	F0362	.....	28396	F0458	.....	28144
E6052.5	.....	30512	E6078	.....	30684	F0364	.....	28400	F0459	.....	28148
E6053	.....	30536	E6078.5	.....	30685	F0366	.....	28380	F0460	.....	28152
E6053.2	.....	30540	E6078.7	.....	30683.8	F0367	.....	28392	F0462	.....	28140
E6053.4	.....	30544	E6082	.....	30688	F0367.2	.....	28358.8	F0468	.....	28132
E6053.5	.....	30545	E6088	.....	30692	F0367.3	.....	28358.81	F0470	.....	28128
E6054	.....	30604	E6090	.....	30696	F0367.6	.....	28359	F0472	.....	28124
E6054.4	.....	30552	E6096	.....	30700	F0367.61	.....	28359.5	F0476	.....	28120
E6054.5	.....	30554	E6100	.....	30704	F0367.62	.....	28359.3	F0478	.....	28116
E6054.6	.....	30576	E6102	.....	30708	F0367.8	.....	28366	F0479	.....	28112
E6054.7	.....	30555	E6104	.....	30720	F0368	.....	28368	F0480	.....	28108
E6054.8	.....	30556	E6114	.....	30728	F0370	.....	28376	F0484	.....	28100
E6054.85	.....	30560	E6116	.....	30732	F0371	.....	28372	F0489	.....	28092
E6055.2	.....	30572	E6120	.....	30736	F0374	.....	28360	F0490	.....	28096
E6055.3	.....	30580	E6122	.....	30832	F0376	.....	28358	F0491	.....	28088
E6055.35	.....	30584	E6124	.....	30840	F0378	.....	28356	F0491.5	.....	28084
E6055.4	.....	30588	E6128	.....	30856	F0380	.....	28352	F0491.8	.....	28080
E6055.45	.....	30592	E6132	.....	30860	F0382	.....	28348	F0492	.....	28076
E6055.5	.....	30593	E6134	.....	30864	F0383	.....	28340	F0493	.....	28072
E6055.55	.....	30594	E6134.2	.....	30868	F0383.5	.....	28344	F0494	.....	28068
E6055.6	.....	30595	E6135	.....	30872	F0384	.....	28336	F0496	.....	28064
E6055.9	.....	30596	E6138	.....	30744	F0386	.....	28332	F0498	.....	28056
E6055.95	.....	30597	E6138.1	.....	30743	F0386.5	.....	28328	F0499	.....	28060
E6056	.....	30598	E6138.2	.....	30748	F0388	.....	28312	F0500	.....	28052
E6056.05	.....	30599	E6138.4	.....	30752	F0389	.....	28316	F0501	.....	28048
E6056.2	.....	30602	E6138.5	.....	30784	F0390	.....	28308	F0502	.....	28044
E6056.25	.....	30603	E6138.6	.....	30788	F0393	.....	28320	F0514	.....	27952
E6056.4	.....	30600	E6138.7	.....	30756	F0396	.....	28300	F0515	.....	27960
E6056.41	.....	30601	E6138.71	.....	30760	F0397	.....	28304	F0516	.....	27956
E6056.45	.....	30603.5	E6138.8	.....	30768	F0398	.....	28296	F0520	.....	27968
E6056.5	.....	30603.6	E6138.9	.....	30772	F0400	.....	28288	F0521	.....	27972
E6057	.....	30548	E6139	.....	30776	F0401	.....	28290	F0523	.....	27976
E6058	.....	30608	E6139.2	.....	30780	F0404	.....	28284	F0524	.....	27980
E6058.5	.....	30612	E6140	.....	30792	F0406	.....	28280	F0528	.....	27984
E6059	.....	30620	E6141	.....	30829	F0406.1	.....	28282	F0528.1	.....	27988
E6059.2	.....	30616	E6142	.....	30892	F0410	.....	28272	F0532	.....	27992
E6059.4	.....	30636	E6142.5	.....	30893	F0412	.....	28276	F0534	.....	27996
E6060	.....	30632	E6142.7	.....	30893.5	F0414	.....	28268	F0534.1	.....	28000
E6060.6	.....	30638	E6142.9	.....	30894	F0414.2	.....	28266	F0546	.....	28004
E6061	.....	30648	E6143	.....	30828.5	F0420	.....	28264	F0547	.....	28008
E6061.1	.....	30652	E6144	.....	30800	F0422	.....	28256	F0547.1	.....	28012
E6062	.....	30644	E6144.2	.....	30796	F0424	.....	28260	F0548	.....	28016
E6063	.....	30628	E6144.4	.....	30828	F0426	.....	28244	F0548.1	.....	28020
E6064	.....	30640	E6144.6	.....	30816	F0429	.....	28240	F0549	.....	28024
E6065	.....	30664	E6144.8	.....	30808	F0430	.....	28236	F0549.5	.....	28036
E6067	.....	30656	E6145	.....	30820	F0430.6	.....	28232	F0550	.....	28028
E6067.1	.....	30660	E6145.2	.....	30812	F0432	.....	28208	F0550.1	.....	28032

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F0551	.....	28040	F0664	.....	27696	F0762.9	.....	27394	F0866	.....	27232
F0555	.....	27964	F0666	.....	27688	F0763	.....	27395	F0870	.....	27228
F0556	.....	27936	F0666.1	.....	27692	F0763.15	.....	27396	F0872	.....	27224
F0556.5	.....	27940	F0668	.....	27684	F0763.2	.....	27400	F0874	.....	27212
F0556.51	.....	27944	F0668.5	.....	27680	F0763.4	.....	27402	F0875	.....	27208
F0557	.....	27932	F0669.5	.....	27676	F0763.6	.....	27404	F0876	.....	27204
F0557.6	.....	27924	F0671	.....	27672	F0763.8	.....	27406	F0877	.....	27216
F0558	.....	27928	F0672	.....	27668	F0764	.....	27376	F0878	.....	27220
F0559	.....	27916	F0674	.....	27664	F0764.2	.....	27380	F0884	.....	27364
F0560	.....	27920	F0678	.....	27660	F0764.4	.....	27372	F0886	.....	27368
F0562	.....	27908	F0682	.....	27652	F0764.6	.....	27384	F0900	.....	27168
F0563	.....	27912	F0686	.....	27640	F0764.8	.....	27388	F0901	.....	27152
F0564	.....	27904	F0687	.....	27644	F0764.85	.....	27392	F0901.1	.....	27156
F0566	.....	27888	F0688	.....	27648	F0764.9	.....	27408	F0902	.....	27145
F0570	.....	27892	F0689	.....	27636	F0764.91	.....	27409	F0904	.....	27160
F0570.1	.....	27896	F0690	.....	27568	F0765	.....	27412	F0904.1	.....	27164
F0574	.....	27900	F0692	.....	27632	F0765.1	.....	27411	F0910	.....	27144
F0576	.....	27884	F0693	.....	27564	F0765.11	.....	27411.1	F0914	.....	27140
F0577	.....	27880	F0694.5	.....	27560	F0765.12	.....	27412.1	F0916	.....	27136
F0578	.....	27868	F0698	.....	27528	F0765.13	.....	27411.2	F0919	.....	27132
F0578.2	.....	27872	F0700	.....	27540	F0765.2	.....	27414	F0920	.....	27120
F0578.4	.....	27876	F0700.1	.....	27548	F0765.4	.....	27415	F0926	.....	27112
F0579	.....	27864	F0702	.....	27552	F0765.5	.....	27416	F0932	.....	27108
F0580	.....	27856	F0702.1	.....	27556	F0765.6	.....	27420	F0934	.....	27104
F0584	.....	27848	F0703	.....	27544	F0765.8	.....	27428	F0935	.....	27100
F0586	.....	27840	F0703.2	.....	27550	F0766	.....	27432	F0936	.....	27072
F0587	.....	27844	F0705	.....	27520	F0766.2	.....	27440	F0938	.....	27074
F0588	.....	27836	F0706	.....	27516	F0766.4	.....	27448	F0940	.....	27076
F0590	.....	27828	F0710	.....	27512	F0766.6	.....	27436	F0941	.....	27078
F0592	.....	27832	F0712	.....	27504	F0766.65	.....	27444	F0942	.....	27080
F0596	.....	27820	F0715	.....	27502	F0766.8	.....	27452	F0943	.....	27096
F0596.1	.....	27824	F0716	.....	27500	F0767	.....	27456	F0944	.....	27084
F0597	.....	27808	F0717	.....	27496	F0767.05	.....	27464	F0945.5	.....	27098
F0598	.....	27804	F0718	.....	27492	F0767.2	.....	27460	F0950	.....	27068
F0600	.....	27800	F0720	.....	27476	F0767.6	.....	27466	F0951	.....	27064
F0606	.....	27772	F0722	.....	27480	F0780	.....	27332	F0952	.....	27060
F0607	.....	27776	F0724	.....	27472	F0782	.....	27324	F0952.5	.....	27056
F0610	.....	27780	F0726	.....	27484	F0784	.....	27336	F0952.8	.....	27054
F0610.1	.....	27784	F0727	.....	27488	F0790	.....	27320	F0953	.....	27052
F0613	.....	27788	F0730	.....	27200	F0792	.....	27316	F0955	.....	27044
F0613.1	.....	27792	F0734	.....	27176	F0794	.....	27304	F0956	.....	27048
F0614	.....	27796	F0735	.....	27192	F0796	.....	27312	F0957	.....	27040
F0622	.....	27760	F0735.1	.....	27196	F0798	.....	27308	F0958	.....	27032
F0622.2	.....	27764	F0735.5	.....	27188	F0804	.....	27340	F0960	.....	27024
F0623	.....	27764.4	F0735.6	.....	27189	F0806	.....	27328	F0962	.....	27028
F0623.1	.....	27764.41	F0735.7	.....	27189.1	F0812	.....	27344	F0962.5	.....	27026
F0623.2	.....	27764.5	F0736	.....	27180	F0818	.....	27348	F0964	.....	27020
F0623.3	.....	27764.51	F0736.1	.....	27184	F0820	.....	27296	F0966	.....	27016
F0628	.....	27768	F0738	.....	27172	F0820.1	.....	27300	F0968	.....	27012
F0634	.....	27756	F0749	.....	27588	F0824	.....	27292	F0970	.....	26972
F0636	.....	27752	F0750	.....	27580	F0826	.....	27288	F0971	.....	26976
F0637	.....	27748	F0752	.....	27572	F0830	.....	27284	F0973.02	.....	26996
F0638	.....	27744	F0754	.....	27576	F0832	.....	27282	F0973.04	.....	27000
F0642	.....	27740	F0754.2	.....	27592	F0834	.....	27280	F0973.06	.....	27004
F0644	.....	27732	F0754.4	.....	27596	F0836	.....	27276	F0973.08	.....	27008
F0645	.....	27736	F0754.6	.....	27598	F0840	.....	27272	F0973.12	.....	26988
F0648	.....	27724	F0754.7	.....	27600	F0842	.....	27268	F0973.14	.....	26992
F0651	.....	27716	F0755	.....	27616	F0844	.....	27264	F0974.4	.....	26980
F0652	.....	27712	F0755.2	.....	27620	F0846	.....	27260	F0978	.....	26964
F0655	.....	27708	F0755.5	.....	27624	F0852	.....	27244	F0980	.....	26960
F0656	.....	27709	F0755.53	.....	27628	F0853	.....	27248	F0982	.....	26956
F0656.65	.....	27424	F0755.6	.....	27608	F0857	.....	27256	F0986	.....	26952
F0657	.....	27710	F0756	.....	27604	F0858	.....	27254	F0988	.....	26948
F0658	.....	27704	F0757	.....	27612	F0862	.....	27252	F1002	.....	26944
F0660	.....	27700	F0758	.....	27468	F0864.2	.....	27236	F1003	.....	26940

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1004.4	—	26937	F1101.2	—	26648	F1202.66	—	26520	F1254.6	—	23238
F1005.2	—	26908	F1103	—	26652	F1202.68	—	26518	F1255	—	23232
F1005.4	—	26912	F1103.1	—	26656	F1202.7	—	26536	F1255.2	—	23236
F1005.6	—	26916	F1106	—	26660	F1202.8	—	26516	F1256	—	23245.5
F1005.61	—	26920	F1106.1	—	26664	F1202.9	—	26514	F1257	—	23246
F1005.8	—	26924	F1124	—	26600	F1203	—	26512	F1260	—	23268.5
F1005.81	—	26928	F1126	—	26596	F1204	—	26508	F1262	—	23268
F1005.9	—	26932	F1128	—	26592	F1205	—	26492	F1262.3	—	23267
F1005.92	—	26936	F1131	—	26588	F1207	—	26496	F1262.4	—	23247
F1005.98	—	26902	F1132	—	26584	F1208	—	26500	F1262.5	—	23269
F1006	—	26900	F1136	—	26580	F1208.5	—	26501	F1263	—	23284
F1022	—	26847	F1138	—	26572	F1209.5	—	26502	F1263.2	—	23285
F1024	—	26852	F1144	—	26576	F1210	—	26504	F1263.3	—	23276
F1028	—	26860	F1158	—	26570	F1211	—	26476	F1263.5	—	23272
F1029	—	26861	F1160	—	22228	F1212	—	26480	F1264	—	23288
F1031.45	—	26862	F1161	—	22224	F1212.5	—	26481	F1264.5	—	23280
F1031.46	—	26863	F1162	—	22216	F1212.8	—	26482	F1265	—	23259
F1032.7	—	26865	F1163	—	22220	F1213	—	26488	F1265.5	—	23290
F1034	—	26868	F1164	—	22212	F1214	—	26484	F1266.3	—	23289
F1034.5	—	26869	F1165	—	22208	F1216	—	26542	F1267	—	23292
F1040	—	26892	F1166	—	22204	F1220	—	26464	F1267.5	—	23291
F1045	—	26836	F1167	—	22214	F1220.2	—	26468	F1270	—	23300
F1045.5	—	26840	F1168	—	22200	F1220.4	—	26472	F1270.5	—	23298
F1048	—	26764	F1170	—	22184	F1221	—	26460	F1271	—	23296
F1049	—	26792	F1174	—	22188	F1221.5	—	26459	F1271.5	—	23295
F1050	—	26772	F1174.3	—	22189	F1222	—	26456	F1273	—	23304
F1050.4	—	26776	F1174.6	—	22189.3	F1222.4	—	26452	F1273.5	—	23305
F1050.41	—	26780	F1174.61	—	22189.31	F1222.5	—	26451.4	F1274	—	23308
F1051	—	26784	F1174.8	—	22189.5	F1222.55	—	26451.3	F1275	—	23312
F1051.1	—	26788	F1175	—	22190	F1222.58	—	26451.1	F1276	—	23316
F1052	—	26804	F1175.2	—	22190.2	F1222.6	—	26451	F1277	—	23310.5,
F1052.1	—	26808	F1175.4	—	22190.4	F1222.65	—	26450	23317		
F1053	—	26812	F1178	—	22196	F1222.8	—	26451.2	F1278	—	23310
F1053.1	—	26816	F1182	—	22192	F1223	—	26446	F1278.5	—	23318
F1053.4	—	26820	F1182.8	—	22181	F1223.4	—	26448	F1279	—	23311
F1053.41	—	26824	F1183	—	22180	F1223.6	—	26440	F1280	—	23307
F1053.8	—	26826	F1184	—	22176	F1224	—	26424	F1281	—	23306
F1053.81	—	26826.1	F1184.5	—	22177	F1224.1	—	26437	F1284	—	23320
F1054	—	26760	F1184.6	—	22177.1	F1225	—	26428	F1289	—	23326
F1056.4	—	26756	F1184.8	—	22178	F1226	—	26432	F1290	—	23324
F1057	—	26752	F1184.9	—	22178.1	F1226.1	—	26436	F1291	—	23322
F1058	—	26748	F1185.1	—	22179	F1234	—	23202	F1292	—	23328
F1059	—	26744	F1185.2	—	22179.2	F1235	—	23209	F1292.2	—	23328.5
F1060.5	—	26736	F1185.4	—	22179.4	F1235.5	—	23209.2	F1292.3	—	23329
F1062	—	26732	F1185.5	—	22179.6	F1236	—	23212	F1292.35	—	23329.5
F1063	—	26728	F1186	—	22172	F1236.5	—	23216	F1292.5	—	23330
F1064	—	26724	F1188	—	22168	F1237	—	23210	F1292.7	—	23331
F1064.3	—	26720	F1192	—	22164	F1238	—	23220	F1293	—	22296
F1064.5	—	26716	F1192.4	—	22152	F1241	—	23224	F1294	—	22284
F1065	—	26708	F1192.5	—	22156	F1242	—	23224.5	F1295	—	22238
F1066	—	26712	F1193	—	22160	F1242.5	—	23225	F1296	—	22273
F1067	—	26704	F1193.8	—	22148	F1244	—	23228	F1300	—	22232
F1068	—	26688	F1194	—	22144	F1245	—	23271	F1302	—	22236
F1070	—	26692	F1200	—	26564	F1248	—	23248	F1308	—	22260
F1072	—	26684	F1201	—	26552	F1248.2	—	23256	F1310	—	22244
F1076.5	—	23437	F1201.1	—	26560	F1248.4	—	23252	F1312	—	22240
F1080	—	26604	F1202	—	26556	F1249	—	23258	F1313	—	22252
F1085	—	26612	F1202.2	—	26557	F1250	—	23260	F1313.5	—	22256
F1088	—	26620	F1202.4	—	26548	F1251	—	23262	F1314	—	22258
F1093	—	26624	F1202.57	—	26538	F1252	—	23261	F1314.5	—	22280
F1093.1	—	26628	F1202.58	—	26539	F1253	—	23247.5	F1315	—	22268
F1094	—	26632	F1202.59	—	26539.4	F1254	—	23240	F1316	—	22276
F1094.1	—	26636	F1202.6	—	26532	F1254.2	—	23244	F1317	—	22272
F1100.9	—	26640	F1202.62	—	26528	F1254.4	—	23244.2	F1319	—	22286
F1101	—	26644	F1202.64	—	26524	F1254.5	—	23239	F1320.2	—	22292

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1321	.....	22312	F1383.8	.....	22485	F1482	.....	22104	F1570	.....	21909
F1321.2	.....	22300	F1384.2	.....	22487	F1483	.....	22100	F1572	.....	21896
F1321.4	.....	22304	F1385	.....	22488	F1486	.....	22088	F1573	.....	21892
F1321.5	.....	22307.5	F1385.5	.....	22489	F1488	.....	22096	F1573.5	.....	21884
F1321.51	.....	22308.5	F1386	.....	22484	F1490	.....	22092	F1574.3	.....	21880
F1321.6	.....	22309	F1390	.....	22486	F1494	.....	22056	F1574.6	.....	21876
F1321.7	.....	22305	F1395	.....	22492	F1512	.....	22048	F1576	.....	21864
F1322	.....	22340	F1395.5	.....	22496	F1514	.....	22052	F1576.2	.....	21874
F1322.1	.....	22344	F1396	.....	22500	F1519	.....	22032	F1576.4	.....	21868
F1323	.....	22316	F1397	.....	22508	F1519.5	.....	22034	F1577	.....	21866
F1323.2	.....	22320	F1398	.....	22578	F1522	.....	22036	F1578	.....	21860
F1323.4	.....	22324	F1401.9	.....	22520	F1523	.....	22040	F1579	.....	21862
F1323.51	.....	22352	F1402	.....	22512	F1523.5	.....	22031	F1585	.....	21856
F1324	.....	22356	F1402.1	.....	22516	F1524	.....	22064	F1586	.....	21848
F1326	.....	22360	F1402.5	.....	22540	F1524.1	.....	22068	F1591	.....	21846
F1327	.....	22364	F1403	.....	22524	F1525	.....	22072	F1591.2	.....	21846.2
F1327.5	.....	22368	F1403.9	.....	22532	F1525.1	.....	22076	F1592	.....	21836
F1327.8	.....	22369	F1404	.....	22528	F1526	.....	22028	F1592.1	.....	21840
F1328	.....	22372	F1404.1	.....	22536	F1526.4	.....	22026.1	F1593	.....	21844
F1329	.....	22374	F1406	.....	22542	F1526.5	.....	22026	F1594	.....	21820
F1330	.....	22376	F1407	.....	22544	F1527	.....	22020	F1595	.....	21834
F1330.1	.....	22380	F1408	.....	22548	F1527.1	.....	22024	F1596	.....	21825
F1330.5	.....	22384	F1411	.....	22552	F1529	.....	22016	F1597	.....	21826
F1330.6	.....	22388	F1411.9	.....	22564	F1532	.....	22008	F1598	.....	21824
F1330.7	.....	22392	F1412	.....	22568	F1532.1	.....	22012	F1604	.....	21828
F1334	.....	22394	F1412.1	.....	22572	F1536	.....	22006	F1604.1	.....	21832
F1337	.....	22395	F1412.6	.....	22573	F1538	.....	22000	F1606	.....	21816
F1337.5	.....	22395.1	F1413	.....	22556	F1538.4	.....	22004	F1607	.....	21812
F1352	.....	22400	F1413.1	.....	22560	F1540	.....	21992	F1608	.....	21808
F1355	.....	22408	F1413.5	.....	22580	F1540.3	.....	21998	F1609	.....	21806
F1355.9	.....	22412	F1413.7	.....	22582	F1540.6	.....	21996	F1609.1	.....	21806.1
F1356	.....	22416	F1417	.....	22604	F1540.8	.....	21999	F1610	.....	21803
F1356.05	.....	22417	F1417.2	.....	22602	F1542.5	.....	21990	F1612	.....	21800
F1356.1	.....	22420	F1417.5	.....	22588	F1543	.....	21988	F1614	.....	21780
F1362	.....	22424	F1417.6	.....	22587	F1544	.....	21984	F1616	.....	21784
F1362.1	.....	22428	F1418	.....	22596	F1546	.....	21980	F1616.5	.....	21796
F1362.2	.....	22429.5	F1420	.....	22600	F1550	.....	21976	F1617	.....	21788
F1362.3	.....	22431	F1422	.....	22608	F1552	.....	21972	F1617.2	.....	21792
F1362.5	.....	22429	F1426	.....	22610	F1552.5	.....	21970	F1617.4	.....	21794
F1364	.....	22432	F1428	.....	22612	F1553.2	.....	21968	F1618	.....	21783
F1367	.....	22430	F1429	.....	22616	F1554	.....	21924	F1619	.....	21776
F1370	.....	22436	F1430	.....	22617	F1554.9	.....	21928	F1619.4	.....	21774
F1370.1	.....	22440	F1438	.....	22696	F1555	.....	21932	F1620	.....	21772
F1371	.....	22441	F1440	.....	22700	F1555.1	.....	21936	F1620.5	.....	21771
F1371.2	.....	22442	F1440.2	.....	22704	F1557	.....	21940	F1621	.....	21770
F1372	.....	22444	F1459.42	.....	24896	F1557.3	.....	21952	F1621.5	.....	21768
F1373	.....	22448	F1470	.....	22132	F1557.4	.....	21956	F1622	.....	21764
F1374	.....	22450	F1471	.....	22134	F1557.5	.....	21964	F1622.5	.....	21760
F1374.5	.....	22449	F1472	.....	22138	F1558	.....	21960	F1623	.....	21752
F1375	.....	22452	F1473	.....	22140	F1558.5	.....	21912	F1623.6	.....	21756
F1375.5	.....	22456	F1474	.....	22120	F1559	.....	21944	F1626	.....	21748
F1376	.....	22464	F1476	.....	22124	F1559.1	.....	21948	F1627	.....	21749
F1377	.....	22470	F1476.1	.....	22367	F1560	.....	21916	F1627.4	.....	21750
F1378	.....	22460	F1476.3	.....	22130	F1560.2	.....	21920	F1627.6	.....	21746
F1378.5	.....	22462	F1476.4	.....	22125	F1560.5	.....	21921	F1627.9	.....	21746.5
F1378.7	.....	22463	F1476.5	.....	22126	F1560.6	.....	21922	F1628.1	.....	21744.6
F1378.71	.....	22463.5	F1476.6	.....	22126.5	F1560.7	.....	21923	F1628.3	.....	21745
F1379	.....	22468	F1476.7	.....	22127	F1560.9	.....	21964.5	F1628.35	.....	21745.2
F1379.2	.....	22471	F1477	.....	22128	F1562	.....	21965	F1628.4	.....	21745.4
F1379.5	.....	22481	F1477.3	.....	22123	F1562.1	.....	21965.5	F1628.45	.....	21745.6
F1379.51	.....	22481.1	F1477.6	.....	22122	F1562.4	.....	21966	F1628.6	.....	21744.4
F1380	.....	22476	F1477.7	.....	22124.5	F1562.5	.....	21966.5	F1628.65	.....	21744.3
F1382	.....	22480	F1478	.....	22116	F1563	.....	21967	F1629	.....	21744
F1383	.....	22482	F1479	.....	22112	F1565	.....	21900	F1633	.....	21734
F1383.1	.....	22482.1	F1480	.....	22108	F1569	.....	21908	F1634	.....	21736

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1636	21740		F1693.8	21496		F1725	21296		F1830.6	21097.7	
F1637	21735		F1693.9	21495		F1726	21292		F1830.8	21097.6	
F1640	21732		F1694	21480		F1726.2	21276		F1831	21097.5	
F1644	21728		F1694.2	21484		F1726.4	21280		F1831.5	21096.7	
F1646	21724		F1694.6	22592		F1726.6	21284		F1832	21096	
F1648	21718		F1694.7	21476		F1727	21288		F1834	21097.8	
F1650	21716		F1694.8	21472		F1732.5	21268		F1835	21117	
F1652	21708		F1695	21508		F1733	21260		F1836.1	21121	
F1652.5	21712		F1695.1	21527		F1733.17	21264		F1836.5	21112	
F1653	21704		F1695.2	21527.1		F1733.19	21202		F1836.6	21114	
F1654	21702		F1695.3	21528		F1734	21200.7		F1836.7	21108	
F1657	21699		F1695.6	21464		F1735	21200.5		F1836.8	21101	
F1660	21696		F1696	21400		F1736	21200		F1837	21102	
F1668	21692		F1697	21408		F1736.5	21201		F1837.6	21104	
F1669	21690		F1697.2	21412		F1736.55	21201.5		F1837.65	21104.5	
F1669.1	21691		F1697.3	21416		F1736.6	21201.6		F1837.7	21105	
F1670	21688		F1697.5	21436		F1737	21184		F1837.75	21104.7	
F1670.1	21689		F1697.7	21424		F1737.5	21206		F1837.8	21106	
F1674	22584		F1697.73	21428		F1739	21204		F1838	21100	
F1674.2	22584.6		F1697.9	21440		F1740	21208		F1838.3	21098	
F1674.3	22584.8		F1697.93	21453		F1742	21212		F1844	25108	
F1674.4	22584.4		F1697.94	21452		F1744	21216		F1847	25104	
F1674.5	22586		F1697.95	21456		F1745	21222		F1848	25106	
F1676	21687		F1697.96	21460		F1748	21220		F1850	25100	
F1676.2	21687.1		F1697.97	21461		F1756	21232		F1854	25096	
F1676.5	21686.5		F1697.971	21461.1		F1758	21236		F1872	25072	
F1677.5	21686.2		F1697.979	21461.9		F1764.1	22584.2		F1872.1	25076	
F1677.51	21686.3		F1697.981	21461.3		F1766	21240		F1872.3	25077	
F1679	21682		F1697.982	21461.5		F1766.1	21244		F1872.4	25077.2	
F1679.2	21682.1		F1697.983	21461.7		F1770.6	21252		F1872.5	25077.4	
F1680	21686		F1697.99	21462		F1770.62	21256		F1872.6	25069	
F1681	21685		F1698	21336		F1771	21248		F1873.2	25079	
F1682	21680		F1699	21340		F1772	22620		F1879	25081	
F1684	21656		F1699.5	21342		F1772.1	22618		F1880	25080	
F1684.4	21681		F1700.1	21596		F1772.15	22619		F1883	25082	
F1684.5	21681.1		F1700.3	21594		F1772.2	22619.5		F1885	25084	
F1685.03	21664		F1700.38	21625		F1772.3	22620.5		F1887	25086	
F1685.05	21672		F1700.39	21625.1		F1772.31	22620.6		F1887.5	25086.2	
F1685.48	21604		F1700.5	21595		F1772.4	22621		F1888	25086.3	
F1685.6	21608		F1700.52	21595.1		F1772.41	22621.5		F1889	25086.5	
F1685.8	21632		F1700.6	21590		F1773	22624		F1890	25088	
F1686	21628		F1700.65	21590.5		F1774	22632		F1891	25092	
F1686.3	21636		F1700.7	21591		F1775	22636		F1892	25094	
F1686.4	21584		F1701.2	21624		F1776	22640		F1892.1	25094.2	
F1687	21580		F1701.22	21620		F1780	22644		F1894	23872	
F1688	21576		F1701.6	21601		F1780.1	22648		F1895	23876	
F1688.6	21536		F1701.62	21601.1		F1786	22652		F1895.1	23880	
F1689	21548		F1701.75	21588		F1790	22656		F1895.4	23884	
F1689.1	21548.1		F1701.8	21586		F1796	22664		F1896	23888	
F1690	21552		F1701.81	21586.1		F1796.1	22668		F1896.4	23900	
F1690.1	21556		F1701.86	21384		F1798	22660		F1896.8	23904	
F1690.2	21560		F1702	21388		F1802	22676		F1896.85	23906	
F1690.4	21564		F1704	21392		F1806	22672		F1897	23908	
F1690.5	21568		F1716	21352		F1807	22680		F1898	23916	
F1690.55	21572		F1718	21344		F1807.1	22684		F1900	23920	
F1690.6	21544		F1718.4	21332		F1807.5	22692		F1900.1	23924	
F1690.7	21540		F1718.6	21354		F1808	22695		F1901	23928	
F1690.72	21545		F1718.8	21354.5		F1809	22694		F1901.1	23932	
F1690.725	21545.5		F1718.81	21354.6		F1812	21176		F1901.4	23936	
F1690.73	21546		F1719.2	21320		F1820	21188		F1901.6	23940	
F1690.8	21542		F1720	21396		F1821	21186		F1902.2	23944	
F1691.8	21491		F1720.4	21355.4		F1822	21180		F1902.4	23952	
F1692	21492		F1720.6	21355		F1828	21097		F1902.8	23964	
F1693	21500		F1721	21300		F1830	21096.5		F1903.4	23980	
F1693.2	21504		F1724	21298		F1830.55	21096.8		F1904	23988	

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1904.1	.....	23992	F1929	.....	24212	F1953.2	.....	24442.1	F1990.2	.....	24640
F1904.2	.....	23996	F1930	.....	24216	F1953.4	.....	24442.2	F1990.24	.....	24644
F1904.3	.....	24000	F1930.3	.....	24220	F1954.2	.....	24443	F1990.3	.....	24648
F1904.34	.....	24004	F1930.4	.....	24228	F1954.5	.....	24445	F1990.4	.....	24652
F1904.4	.....	24008	F1930.41	.....	24232	F1955	.....	24446	F1990.5	.....	24656
F1904.45	.....	23892	F1931	.....	24234	F1955.6	.....	24448	F1991	.....	24664
F1904.6	.....	24016	F1933.8	.....	24238	F1955.7	.....	24452	F1991.2	.....	24660
F1904.7	.....	24028	F1934	.....	24240	F1955.8	.....	24457	F1991.3	.....	24668
F1904.75	.....	24024	F1934.5	.....	24241	F1955.9	.....	24458	F1991.32	.....	24672
F1904.8	.....	24036	F1934.51	.....	24241.5	F1956	.....	24464	F1991.36	.....	24676
F1904.9	.....	24040	F1934.8	.....	24248	F1956.6	.....	24468	F1991.38	.....	24680
F1905	.....	24044	F1934.9	.....	24244	F1957	.....	24472	F1991.6	.....	24684
F1905.6	.....	24056	F1935	.....	24245	F1957.3	.....	24476	F1991.72	.....	24682
F1905.7	.....	24048	F1935.2	.....	24245.2	F1957.6	.....	24492	F1992	.....	24688
F1905.8	.....	24052	F1936	.....	24368	F1957.7	.....	24496	F1992.14	.....	24700
F1908	.....	24068	F1936.4	.....	24336	F1957.8	.....	24484	F1992.2	.....	24704
F1909.1	.....	24078	F1936.42	.....	24340	F1957.9	.....	24488	F1992.3	.....	24696
F1909.4	.....	24076	F1936.43	.....	24344	F1958	.....	24480	F1992.7	.....	24708
F1909.6	.....	24060	F1936.44	.....	24348	F1958.05	.....	24500	F1993	.....	24712
F1910	.....	24072	F1936.45	.....	24352	F1958.2	.....	24504	F1993.4	.....	24716
F1913	.....	24084	F1936.46	.....	24356	F1958.9	.....	24508	F1994	.....	24728
F1913.9	.....	24093	F1936.47	.....	24362	F1959.5	.....	24511	F1995.4	.....	24732
F1914	.....	24088	F1936.5	.....	24328	F1959.8	.....	24510	F1997	.....	24736
F1914.2	.....	24090	F1936.51	.....	24332	F1961	.....	24516	F1999	.....	24740
F1915	.....	24096	F1936.55	.....	24334	F1961.3	.....	24512	F1999.5	.....	24692
F1915.5	.....	24100	F1936.56	.....	24335	F1961.5	.....	24520	F1999.6	.....	24744
F1916	.....	24104	F1936.6	.....	24360	F1962	.....	24524	F1999.65	.....	24746
F1916.4	.....	24108	F1937	.....	24364	F1964	.....	24532	F1999.7	.....	24745
F1917	.....	24112	F1937.2	.....	24365	F1968	.....	24536	F1999.8	.....	24747
F1917.4	.....	24116	F1937.25	.....	24366	F1969	.....	24540	F1999.9	.....	24749
F1918	.....	24120	F1937.3	.....	24367	F1970	.....	24544	F2000	.....	24752
F1918.2	.....	24121	F1938	.....	24316	F1971	.....	24546	F2000.5	.....	24753
F1918.21	.....	24122	F1939	.....	24256	F1973	.....	24547	F2001	.....	24754
F1918.4	.....	24120.5	F1939.5	.....	24256.2	F1974	.....	24545.5	F2002	.....	24756
F1920	.....	24124	F1940	.....	24257	F1974.3	.....	24545	F2007	.....	24770
F1920.2	.....	24125	F1940.2	.....	24258	F1976.2	.....	24553	F2008	.....	24764
F1922.4	.....	24134	F1940.21	.....	24259	F1977.5	.....	24561	F2008.1	.....	24768
F1922.41	.....	24134.1	F1940.3	.....	24260	F1978	.....	24568	F2009	.....	24762
F1922.5	.....	24135	F1940.4	.....	24264	F1978.6	.....	24564	F2010	.....	24772
F1923.4	.....	24136	F1941	.....	24265	F1978.9	.....	24584	F2010.2	.....	24771
F1923.41	.....	24140	F1941.1	.....	24266	F1979	.....	24580	F2014.3	.....	24772.5
F1923.6	.....	24142	F1941.2	.....	24268	F1979.3	.....	24585	F2014.5	.....	24773.1
F1923.7	.....	24144	F1941.6	.....	24272	F1979.8	.....	24589	F2015	.....	24774
F1924	.....	24156	F1941.8	.....	24276	F1981	.....	24593	F2015.5	.....	24773
F1924.1	.....	24160	F1942	.....	24280	F1981.8	.....	24595	F2015.7	.....	24775
F1924.3	.....	24164	F1942.4	.....	24284	F1982	.....	24596	F2016	.....	24776
F1925	.....	24168	F1942.7	.....	24288	F1982.08	.....	24596.2	F2016.5	.....	24775.1
F1925.2	.....	24172	F1942.9	.....	24290	F1982.14	.....	24596.4	F2018	.....	24780
F1925.21	.....	24176	F1943	.....	24292	F1982.2	.....	24597	F2019	.....	24775.5
F1925.25	.....	24176.7	F1943.2	.....	24294	F1982.4	.....	24600	F2020	.....	24782
F1925.3	.....	24177	F1943.3	.....	24295	F1983	.....	24602	F2022	.....	24784
F1925.31	.....	24178	F1943.4	.....	24296	F1984	.....	24604	F2022.3	.....	24787
F1925.33	.....	24178.6	F1943.5	.....	24298	F1985	.....	24606	F2022.5	.....	24786
F1925.35	.....	24178.5	F1945.2	.....	24386.2	F1985.3	.....	24609	F2024.2	.....	24779
F1925.4	.....	24179	F1946	.....	24387	F1985.5	.....	24610	F2024.3	.....	24778
F1925.45	.....	24179.5	F1946.5	.....	24388	F1985.7	.....	24608.2	F2024.5	.....	24788
F1925.5	.....	24180.5	F1947	.....	24392	F1986	.....	24608	F2024.6	.....	24790
F1925.55	.....	24180	F1948	.....	24440	F1986.5	.....	24605	F2024.65	.....	24792.5
F1925.8	.....	24184	F1948.5	.....	24397	F1987	.....	24612	F2024.7	.....	24792
F1926	.....	24188	F1949	.....	24396	F1987.5	.....	24616	F2024.73	.....	24793
F1926.1	.....	24192	F1949.8	.....	24432	F1988	.....	24620	F2024.75	.....	24794
F1927	.....	24196	F1950.2	.....	24436	F1988.3	.....	24624	F2024.8	.....	24796
F1927.1	.....	24200	F1951.3	.....	24424	F1988.6	.....	24628	F2024.81	.....	24794.1
F1928	.....	24204	F1951.6	.....	24418	F1989	.....	24632	F2025	.....	24796.6
F1928.1	.....	24208	F1951.8	.....	24404	F1990	.....	24636	F2025.1	.....	24796.7

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2025.4	24797		F2106	25216		F2210	15214		F2270	15082	
F2025.41	24797.1		F2107	25224		F2214	15216		F2270.1	15084	
F2025.6	24797.4		F2107.5	25222.7		F2216	15220		F2274	15080	
F2025.61	24797.5		F2108	25223		F2218	15200		F2275	15070	
F2025.7	24797.8		F2109	25218		F2219	15212		F2276	15068	
F2025.8	24798		F2109.2	25219		F2220	15204		F2278	15066	
F2025.9	24799		F2110	25222		F2222.5	15198		F2280	15064	
F2027	24808		F2110.3	25222.3		F2224	15196		F2280.4	15060	
F2028	24800		F2110.5	25220		F2224.2	15197		F2281	15056	
F2028.1	24804		F2111.5	25222.5		F2224.7	15194		F2281.6	15050	
F2028.2	24810		F2111.8	25222.6		F2225	15192		F2282	15052	
F2028.21	24810.1		F2114	25176		F2225.5	15190		F2284	15048	
F2028.3	24812		F2116	25180		F2226	15188		F2286	14508	
F2028.31	24816		F2119	25186		F2226.5	15186		F2286.5	14506	
F2028.49	24817.2		F2120	25184		F2226.7	15162		F2287	14504	
F2028.5	24817		F2120.5	25188		F2227.2	15182		F2287.5	14498	
F2028.9	24817.4		F2123	25190		F2228	15184		F2288	14500	
F2029.4	24818		F2124	25192		F2228.3	15185		F2292	14624	
F2029.41	24818.1		F2126	25196		F2228.5	15185.5		F2292.5	14598	
F2029.7	24818.5		F2127	25194		F2228.7	15181.5		F2293	14622	
F2029.8	24818.7		F2127.5	25196.5		F2229	15181		F2293.5	14623	
F2030	24818.4		F2128	25197		F2230	15168		F2294	14648	
F2030.2	24818.3		F2130	25204		F2231	15172		F2296	14652	
F2031	24819		F2132	25202		F2231.2	15176		F2297	14665	
F2031.1	24819.1		F2132.5	25198.5		F2231.3	15178		F2298	14660	
F2040	25114		F2133	25198		F2231.4	15180		F2300	14664	
F2044	25120		F2133.5	25197.8		F2232	15160		F2301	14626	
F2045	25119		F2134	25199		F2234	15164		F2302	14628	
F2046	25118		F2135	25200		F2234.5	15166		F2304	14632	
F2047	25121		F2135.5	25201		F2235	15163		F2305	14636	
F2047.5	25122		F2136	25197.5		F2235.3	15161		F2306	14640	
F2048	25116		F2138	15156		F2235.5	15167		F2307	14642	
F2050	25112		F2142	14544		F2235.7	15167.3		F2308	14644	
F2052	25113		F2152	14540		F2236	15152		F2310	14656	
F2054	25124		F2156	14536		F2237	15150		F2314	14668	
F2058	25126		F2158	14534		F2238	15148		F2316	14688	
F2060	25128		F2159	14542		F2239	15151		F2318	14687	
F2061.1	25129		F2160	14532		F2239.5	15147		F2319	14694	
F2062	25132		F2161	14527		F2240	15146		F2320	14692	
F2062.5	25134		F2162	14526		F2242	15144		F2326	14700	
F2063	25136		F2163	14524		F2243	15145		F2326.2	14696	
F2063.3	25137		F2164	14520		F2243.5	15142		F2328	14708	
F2063.8	25139		F2166	14518		F2244	15140		F2332	14720	
F2064	25140		F2167	14519		F2245	15138		F2334	14724	
F2064.4	25142		F2168	14516		F2245.5	15017		F2336	14725	
F2066	25144		F2170	14515		F2246	15136		F2337	14728	
F2068	25148		F2171	14514		F2247	15134		F2338	14512	
F2070	25152		F2172	14513		F2247.2	15134.4		F2340	14528	
F2071	25156.5		F2173	14494		F2248	15132		F2344	14796	
F2072	25156		F2174	14496		F2250	15128		F2345	14730	
F2077	25158		F2176	14497		F2252	15126		F2346	14732	
F2078	25160		F2179.2	14497.2		F2253	14935		F2347	14736	
F2079	25172		F2180	14497.4		F2253.5	14935.5		F2348	14780	
F2079.5	25164		F2189	15246		F2254	15124		F2350	14776	
F2079.6	25168		F2190	15248		F2256	15120		F2352	14764	
F2079.7	25169		F2191	15252		F2258	15116		F2354	14744	
F2079.8	25171		F2192	15236		F2261.4	15108		F2356	14740	
F2082	25228		F2194	15244		F2261.5	15110		F2356.4	14748	
F2083	25232		F2196	15232		F2261.7	15112		F2357	14684	
F2083.3	25234		F2200	15240		F2262	15104		F2357.4	14676	
F2086	25236		F2204	15228		F2263	15106		F2357.6	14680	
F2086.5	25238		F2206	15224		F2264	15100		F2358.2	14686	
F2087	25237		F2207	15215		F2265	15098		F2359.5	14716	
F2100	25208		F2208	15214.5		F2266	15092		F2359.7	14717	
F2105	25212		F2209	15214.3		F2268	15088		F2360	14816	

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2362	14752	F2434	14952	F2523	14578	F2616	14248
F2363	.....	14760	F2435	.....	14953	F2524	.....	14580	F2618	.....	14252
F2363.4	.....	14756	F2435.5	.....	14954	F2526	.....	14584	F2620	.....	14256
F2364	.....	14768	F2436	.....	14956	F2527	.....	14588	F2624	.....	14260
F2366	.....	14772	F2436.5	.....	14958	F2527.6	.....	14592, 14593	F2626	.....	14262
F2368	.....	14784	F2437	.....	14964	F2527.8	.....	14564	F2630	.....	14268
F2368.1	.....	14788	F2438	.....	14960	F2528	.....	14576	F2631	.....	14270
F2369	.....	14793	F2440	.....	14976	F2528.5	.....	14566	F2632	.....	14264
F2370	.....	14792	F2442	.....	14968	F2529	.....	14568	F2634	.....	14272
F2374	.....	14884	F2442.5	.....	14970	F2530	.....	14572	F2634.5	.....	14274
F2374.5	.....	14866	F2443	.....	14972	F2531	.....	14474	F2635	.....	14276
F2375	.....	14880	F2444	.....	14980	F2532	.....	14473	F2635.5	.....	14280
F2376	.....	14852	F2446	.....	14996	F2533	.....	14475	F2636	.....	14344
F2378	.....	14863	F2448	.....	15004	F2534	.....	14180	F2639	.....	14352
F2378.1	.....	14864	F2448.3	.....	15005.5	F2535	.....	14170	F2639.1	.....	14356
F2378.2	.....	14864.2	F2448.5	.....	15005	F2535.5	.....	14169	F2640	.....	14340
F2378.4	.....	14864.3	F2449	.....	15006	F2536	.....	14164	F2641	.....	14336
F2378.6	.....	14864.4	F2450	.....	15012	F2538	.....	14168	F2642.2	.....	14335.6
F2378.7	.....	14864.8	F2452	.....	15008	F2540	.....	14176	F2642.4	.....	14335
F2380	.....	14868	F2452.5	.....	15014	F2544	.....	14172	F2642.6	.....	14334.8
F2382	.....	14872	F2453	.....	15016	F2546	.....	14160	F2643	.....	14284
F2383	.....	14885	F2454	.....	15020	F2547	.....	14150	F2645	.....	14286
F2383.5	.....	14875	F2454.7	.....	14932	F2549.3	.....	14475.4	F2645.5	.....	14287
F2384	.....	14876	F2455	.....	14928	F2549.5	.....	14472.5	F2647	.....	14288
F2384.3	.....	14876.5	F2456	.....	14924	F2550	.....	14472	F2648	.....	14292
F2384.4	.....	14877.3	F2457	.....	14916	F2551	.....	14470	F2650	.....	14304
F2384.6	.....	14877	F2458	.....	14920	F2552	.....	14476	F2653	.....	14320
F2385	.....	14877.8	F2462	.....	15024	F2553	.....	14469	F2654	.....	14316
F2385.3	.....	14878	F2464	.....	15028	F2554	.....	14468	F2660	.....	14308
F2385.7	.....	14877.6	F2465	.....	15022	F2558	.....	14464	F2660.2	.....	14312
F2386	.....	14856	F2466	.....	15036	F2560	.....	14452	F2662	.....	14296
F2387	.....	14860	F2468	.....	15034	F2562	.....	14456	F2663	.....	14300
F2387.5	.....	14862	F2470	.....	15032	F2564	.....	14460	F2669	.....	14324
F2387.57	.....	14878.6	F2472	.....	15044	F2566	.....	14465	F2670	.....	14328
F2387.7	.....	14861	F2474	.....	14988	F2568	.....	14448	F2670.5	.....	14332
F2388	.....	14848	F2480	.....	15000	F2569	.....	14450	F2670.8	.....	14334
F2390	.....	14846	F2482	.....	14992	F2570	.....	14488	F2672.8	.....	14360
F2392	.....	14840	F2484	.....	14984	F2574	.....	14492	F2673	.....	14364
F2393	.....	14845	F2488	.....	14148	F2574.5	.....	14486	F2673.4	.....	14368
F2398	.....	14845.4	F2492	.....	14152	F2575	.....	14484	F2674	.....	14372
F2399	.....	14832	F2494	.....	14156	F2576	.....	14480	F2675	.....	14376
F2400	.....	14828	F2498	.....	14616	F2580	.....	14184	F2676	.....	14377
F2402	.....	14824	F2500	.....	14620	F2584	.....	14188	F2677	.....	14381
F2404	.....	14820	F2502	.....	14612	F2586	.....	14192	F2680	.....	14380
F2406	.....	14800	F2503	.....	14602	F2588	.....	14200	F2681	.....	14382
F2408	.....	14804	F2503.2	.....	14602.5	F2590	.....	14204	F2682	.....	14384
F2410	.....	14808	F2503.5	.....	14603	F2594	.....	14208	F2684	.....	14388
F2412	.....	14812	F2503.7	.....	14135.5	F2596	.....	14210	F2686	.....	14390
F2412.5	.....	14810	F2504	.....	14134	F2598	.....	14212	F2686.6	.....	14391
F2413	.....	15040	F2504.2	.....	14133	F2600	.....	14216	F2688	.....	14392
F2415	.....	15039	F2504.5	.....	14134.5	F2602	.....	14196	F2689	.....	14397
F2416	.....	14888	F2505	.....	14135	F2604	.....	14220	F2690	.....	14396
F2418	.....	14892	F2505.3	.....	14135.3	F2604.2	.....	14221	F2691	.....	14398
F2420	.....	14908	F2505.5	.....	14606	F2604.6	.....	14222	F2692	.....	14399
F2421	.....	14907	F2506	.....	14608	F2604.8	.....	14226	F2694	.....	14400
F2423.1	.....	14896	F2508	.....	14604	F2604.9	.....	14229	F2696	.....	14405
F2423.5	.....	14912	F2510	.....	14600	F2605	.....	14227	F2697	.....	14406
F2426	.....	14936	F2511	.....	14594	F2605.1	.....	14227.1	F2698	.....	14408
F2426.5	.....	15125	F2512	.....	14596	F2605.4	.....	14228	F2702	.....	14412
F2427	.....	14938	F2512.5	.....	14596.5	F2606.6	.....	14232	F2702.1	.....	14416
F2427.2	.....	14938.5	F2513	.....	14597	F2607	.....	14224	F2704	.....	14420
F2427.5	.....	14939	F2514	.....	14560	F2608	.....	14236	F2705	.....	14424
F2428	.....	14940	F2516	.....	14552	F2610	.....	14240	F2708	.....	14428
F2429	14944	F2517	14556	F2614	14244	F2712	14432
F2430	14948	F2520	14548	F2615	14261	F2713	14434

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2714	14436	F2819	13985	F2876	21000	F2935	20764
F2716	.....	14440	F2819.5	.....	13991.5	F2877	.....	20998	F2936	.....	20765
F2720	.....	13996	F2820	.....	13991	F2878	.....	20992	F2936.5	.....	20766
F2722	.....	14000	F2822	.....	13988	F2878.5	.....	20996	F2937	.....	20760
F2723	.....	14002	F2822.5	.....	13990	F2880	.....	20968	F2939	.....	20700
F2724	.....	14004	F2823	.....	13992	F2880.5	.....	20972	F2941	.....	20704
F2728	.....	14008	F2824	.....	20289.6	F2881	.....	20974	F2941.1	.....	20708
F2729	.....	14012	F2824.5	.....	20289.2	F2881.5	.....	20975	F2942	.....	20724
F2730	.....	14016	F2825	.....	20289	F2884	.....	20964	F2942.1	.....	20728
F2730.5	.....	14014	F2825.1	.....	20290	F2885	.....	20960	F2943	.....	20712
F2732	.....	14020	F2825.15	.....	20290.1	F2885.1	.....	20956	F2943.1	.....	20716
F2742	.....	14024	F2825.18	.....	20290.8	F2885.15	.....	20958	F2943.5	.....	20701
F2743	.....	14024.6	F2825.2	.....	24376	F2885.2	.....	20952	F2943.51	.....	20702
F2744	.....	14042	F2825.3	.....	24380	F2885.5	.....	20948	F2944	.....	20720
F2746	.....	14028	F2825.4	.....	24384	F2885.6	.....	20942	F2945	.....	20732
F2746.1	.....	14032	F2826	.....	21172	F2885.7	.....	20940	F2945.1	.....	20736
F2747	.....	14036	F2827	.....	21173	F2886	.....	20944	F2948	.....	20740
F2747.5	.....	14026	F2833	.....	21156	F2887	.....	20938	F2948.2	.....	20744
F2747.6	.....	14025	F2833.4	.....	21160	F2888	.....	20936	F2948.4	.....	20748
F2747.7	.....	14037	F2834	.....	21152	F2888.5	.....	20935	F2948.6	.....	20752
F2747.8	.....	14038	F2836	.....	21164	F2889	.....	20934	F2948.8	.....	20756
F2747.9	.....	14040.5	F2836.1	.....	21150	F2890	.....	20932	F2951.5	.....	20692
F2748	.....	14040	F2836.3	.....	21148	F2893	.....	20926	F2954	.....	20672
F2748.5	.....	14040.7	F2836.7	.....	21138	F2894	.....	20920	F2958	.....	20668
F2749	.....	14044	F2837	.....	21140	F2895	.....	20876	F2958.8	.....	20666.7
F2749.5	.....	14045	F2837.2	.....	21144	F2895.4	.....	20878	F2959	.....	20666
F2750	.....	14056	F2839.5	.....	21128	F2895.5	.....	20877	F2959.4	.....	20666.5
F2754	.....	14064	F2840	.....	21124	F2898	.....	20912	F2960	.....	20664
F2756	.....	14068	F2842	.....	21122	F2900	.....	20896	F2962	.....	20660
F2757	.....	14060	F2845	.....	21088	F2904	.....	20880	F2963	.....	20661
F2758	.....	14072	F2847	.....	21076	F2905	.....	20884	F2963.4	.....	20662
F2759	.....	14074	F2848	.....	21080	F2905.1	.....	20888	F2963.5	.....	20662.1
F2760	.....	14076	F2848.1	.....	21084	F2906	.....	20892	F2963.6	.....	20662.2
F2762	.....	14080	F2854	.....	21072	F2906.4	.....	20894	F2963.7	.....	20662.3
F2764	.....	14052	F2857	.....	21052	F2907	.....	20872	F2964	.....	20652
F2766	.....	14048	F2858	.....	21056	F2908	.....	20860	F2966	.....	20656
F2767	.....	14050	F2858.1	.....	21060	F2909	.....	20868	F2968	.....	20648
F2769	.....	14051	F2858.2	.....	21068	F2910	.....	20856	F2970	.....	20644
F2772	.....	14084	F2858.3	.....	21064	F2912	.....	20852	F2973	.....	20640
F2774	.....	14088	F2858.35	.....	21068.4	F2914	.....	20832	F2973.5	.....	20616
F2775	.....	14089	F2858.5	.....	21068.6	F2914.8	.....	20824	F2975	.....	20628
F2776	.....	14092.3	F2858.6	.....	21069.6	F2915	.....	20820	F2975.1	.....	20632
F2778	.....	14092	F2858.7	.....	21069	F2915.2	.....	20816	F2975.3	.....	20624
F2778.5	.....	14093	F2858.71	.....	21069.1	F2915.3	.....	20812	F2975.4	.....	20620
F2779	.....	14095	F2859	.....	21034	F2915.4	.....	20828	F2975.6	.....	20642
F2780	.....	14116	F2859.1	.....	21034.1	F2916	.....	20836	F2976	.....	20608
F2782	.....	14114	F2860.7	.....	21036	F2916.3	.....	20840	F2982	.....	20612
F2784	.....	14096	F2860.71	.....	21040	F2916.5	.....	20840.1	F2984	.....	20604
F2786	.....	14100	F2860.76	.....	21040.2	F2917	.....	20844	F2985	.....	20603.5
F2788	.....	14104	F2860.8	.....	21040.4	F2917.3	.....	20844.1	F2986	.....	20601
F2790	.....	14108	F2860.9	.....	21040.6	F2918	.....	20848	F2986.1	.....	20601.1
F2794	.....	14112	F2862	.....	21032	F2920	.....	20808	F2986.5	.....	20602
F2798	.....	14120	F2864	.....	21044	F2922	.....	20800	F2987	.....	20602.5
F2800	.....	14129	F2864.1	.....	21048	F2923	.....	20804	F2987.1	.....	20602.6
F2802	.....	14124	F2865	.....	21042	F2924	.....	20796	F2987.5	.....	20599
F2802.1	.....	14128	F2865.1	.....	21042.1	F2924.2	.....	20797	F2988	.....	20600
F2808	.....	14136	F2867	.....	21028	F2924.3	.....	20797.1	F2990	.....	20596
F2809	.....	14138	F2869	.....	21020	F2928	.....	20792	F2992	.....	20584
F2809.5	.....	14130	F2869.07	.....	21022	F2930	.....	20788	F2994	.....	20592
F2810	.....	14132	F2869.15	.....	21016	F2932	.....	20784	F2996	.....	20580
F2813	.....	14129.4	F2869.3	.....	21012	F2932.4	.....	20780	F2998	.....	20576
F2814	.....	14140	F2869.4	.....	21008	F2932.7	.....	20776	F3000	.....	20572
F2818	.....	14144	F2869.5	.....	21006	F2933	.....	20772	F3002	.....	20568
F2818.4	.....	14145	F2870	.....	21004	F2934	.....	20768	F3004	.....	20560
F2818.8	.....	14146	F2873	.....	21005	F2934.5	.....	20767	F3006	.....	20564

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F3008	20556		F3213	20278		F3347	20136		F3428	19664	
F3010	20552		F3216	20277		F3347.1	20140		F3429	19668	
F3012	20548		F3220	20276		F3347.3	20144		F3430	19672	
F3014	20532		F3225	20274		F3347.95	20131		F3432	19676	
F3015	20536		F3230	20273		F3348.1	20124		F3433	19687	
F3016	20540		F3232	20216		F3348.2	20130		F3434	19690	
F3017	20544		F3233	20272.5		F3348.3	20128		F3435	19696	
F3019	20524		F3234	20272		F3348.35	20122		F3435.2	19702	
F3019.1	20528		F3236	20268		F3348.4	20120		F3435.4	19693	
F3021	20496		F3268	20248		F3348.46	20212		F3435.6	19699	
F3022	20516		F3268.1	20252		F3348.5	20208		F3442	19708	
F3025	20518		F3272	20256		F3348.6	20204		F3443	19705	
F3028	20520		F3272.1	20260		F3348.8	20200		F3446	19711	
F3030	20512		F3278	20264		F3349	20196		F3448.5	19717	
F3032	20504		F3279	20265		F3350	20194		F3450	19692	
F3032.1	20508		F3279.2	20265.1		F3350.5	20195		F3452	19779	
F3036	20500		F3280	20265.5		F3351	20195.5		F3456	19804	
F3039	20494		F3280.4	20264.5		F3351.1	20195.51		F3457.4	19762	
F3039.5	20494.5		F3282	20266		F3356	20192		F3457.41	19762.1	
F3040	20493		F3282.1	20266.1		F3357	20188		F3458	19754	
F3042	20492		F3283	20267		F3357.5	20184		F3458.1	19754.1	
F3046	20476		F3292	20240		F3358	20112		F3458.4	19770	
F3048	20480		F3293	20220		F3358.5	20110		F3458.5	19774	
F3048.1	20484		F3296	20224		F3359	20000		F3459	19778	
F3049	20488		F3297	20228		F3360	20004		F3465	19810	
F3060	20472		F3298	20232		F3360.1	20008		F3466	19812	
F3066	20416		F3299	20236		F3360.4	20010		F3467	19811	
F3070	20428		F3306	20214		F3360.41	20012		F3473.9	19820	
F3076	20432		F3307	20214.1		F3361	20102		F3474	19824	
F3078	20436		F3309	20214.2		F3368	20016		F3474.1	19828	
F3078.1	20440		F3310	20214.3		F3368.1	20020		F3476	19832	
F3082	20444		F3312	20214.4		F3374	20024		F3476.1	19836	
F3083	20446		F3312.1	20214.5		F3374.1	20028		F3482	19840	
F3084	20448		F3313	20214.6		F3378	20032		F3482.1	19844	
F3084.1	20452		F3313.1	20214.7		F3378.1	20036		F3483	19848	
F3110	20464		F3314	20214.8		F3379	20056		F3483.1	19852	
F3116	20412		F3314.1	20214.9		F3379.1	20060		F3483.2	19856	
F3118	20408		F3315	20216.5		F3380	20040		F3483.21	19860	
F3122	20404		F3316	20215		F3380.1	20044		F3515	19590	
F3134	20384		F3316.1	20095		F3381	20048		F3520	19594	
F3137	20392		F3316.2	20086		F3381.1	20052		F3521	19606	
F3137.2	20396		F3316.3	20213		F3381.5	20064		F3521.2	19618	
F3137.4	20397		F3319	20093.8		F3381.6	20065		F3521.3	19622	
F3137.8	20400		F3320	20092		F3382	20076		F3521.35	19626	
F3138	20388		F3320.5	20087		F3382.1	20080		F3521.54	19540	
F3138.9	20386.1		F3320.51	20087.1		F3383	20068		F3521.6	19552	
F3139.1	20386.2		F3321	20088		F3383.1	20072		F3521.66	19548	
F3140	20385		F3321.1	20088.1		F3404	19996		F3521.7	19550	
F3148	20372		F3326	20096		F3405	19992		F3521.72	19550.5	
F3150	20376		F3327	20100		F3405.5	19988		F3521.8	19554.5	
F3154	20368		F3328	20104		F3405.6	19986		F3521.83	19554	
F3158	20364		F3334	20116		F3405.8	19985		F3521.922	19556.7	
F3162	20332		F3336	20108		F3406	19984		F3522	19574	
F3163	20336		F3337	20164		F3406.5	19984.5		F3522.3	19570	
F3176	20324		F3337.1	20176		F3407	19980		F3523	19566	
F3184	20320		F3337.3	20180		F3416	19640		F3523.2	19578	
F3196	20288		F3337.6	20168		F3420	19720		F3523.22	19578.2	
F3197.5	20280		F3337.61	20172		F3420.5	19723		F3523.23	19578.4	
F3199.5	20284		F3338.2	20160		F3424	19648		F3523.24	19578.6	
F3204	20292		F3338.34	20157		F3426	19656		F3523.25	19578.8	
F3206	20296		F3338.4	20156		F3427	19644		F3523.26	19579	
F3209	20312		F3339	20152		F3427.01	19644.1		F3523.4	19582	
F3210	20304		F3342	20148		F3427.1	19644.2		F3523.6	19610	
F3210.1	20308		F3342.73	20146		F3427.2	19660		F3523.8	19586	
F3211	20316		F3346	20132		F3427.5	19658		F3524	19588	

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F3524.5	.....	19724	F3551.4	.....	19400.1	F3589.2	.....	19229	F3648.6	.....	19085
F3525	.....	19725	F3553	.....	19400.4	F3589.4	.....	19231	F3648.8	.....	19085.5
F3525.5	.....	19726	F3553.3	.....	19400.3	F3590	.....	19232	F3649	.....	19086.5
F3525.6	.....	19727	F3553.6	.....	19400.5	F3592	.....	19216	F3650	.....	19086
F3526	.....	19742	F3560.5	.....	19389	F3592.3	.....	19234	F3659	.....	19084
F3526.2	.....	19746	F3560.55	.....	19389.2	F3593	.....	19224	F3662	.....	19053
F3526.5	.....	19800	F3560.6	.....	19389.4	F3593.1	.....	19224.1	F3660	.....	19080
F3526.6	.....	19750	F3560.65	.....	19389.6	F3594	.....	19240	F3660.4	.....	19076
F3526.8	.....	19752	F3562.5	.....	19386	F3594.1	.....	19240.1	F3660.8	.....	19018
F3526.9	.....	19768	F3562.55	.....	19386.3	F3595	.....	19236	F3661	.....	19068
F3527	.....	19766	F3562.6	.....	19386.6	F3595.1	.....	19236.1	F3661.5	.....	19072
F3527.1	.....	19765	F3566	.....	19379.5	F3595.2	.....	19244	F3662	.....	19020
F3527.6	.....	19729.2	F3567	.....	19379	F3595.21	.....	19244.1	F3662.3	.....	19040
F3527.66	.....	19728	F3568	.....	19376	F3595.3	.....	19249	F3662.4	.....	19048
F3527.7	.....	19728.2	F3569	.....	19381	F3598	.....	19205	F3662.6	.....	19052
F3527.72	.....	19728.4	F3570	.....	19370	F3598.5	.....	19204	F3663	.....	19054
F3527.73	.....	19728.6	F3571.5	.....	19373	F3603	.....	19200	F3663.22	.....	19024
F3527.74	.....	19729.4	F3571.72	.....	19367	F3604	.....	19192	F3663.23	.....	19028
F3527.8	.....	19728.8	F3571.8	.....	19364	F3605	.....	19188	F3663.24	.....	19032
F3527.82	.....	19729	F3572	.....	19355	F3606	.....	19196	F3663.25	.....	19036
F3527.9	.....	19732	F3573	.....	19358	F3607	.....	19197	F3663.5	.....	19064
F3528	.....	19734	F3573.6	.....	19352	F3609	.....	19186	F3663.6	.....	19060
F3529	.....	19736	F3574	.....	19342	F3610	.....	19184	F3664.5	.....	19016
F3529.3	.....	19738	F3575	.....	19353	F3612	.....	19180	F3665	.....	19012
F3529.5	.....	19528	F3575.4	.....	19349	F3612.2	.....	19150.8	F3667	.....	19010
F3530	.....	19532	F3575.6	.....	19334	F3612.3	.....	19151.6	F3668	.....	19008
F3530.6	.....	19520	F3575.8	.....	19338	F3612.5	.....	19162	F3669	.....	19004
F3530.8	.....	19521	F3576	.....	19330	F3613	.....	19152	F3670	.....	19000
F3530.9	.....	19523	F3576.6	.....	19405	F3613.5	.....	19156	F3674	.....	18996
F3531	.....	19516	F3576.8	.....	19415	F3614	.....	19160	F3675.5	.....	18984
F3531.3	.....	19544	F3577	.....	19410	F3615	.....	19168	F3676	.....	18992
F3531.5	.....	19546	F3577.1	.....	19420	F3615.5	.....	19164	F3682	.....	18982
F3532	.....	19526	F3577.2	.....	19412	F3616	.....	19172	F3684	.....	18981
F3532.2	.....	19512	F3577.4	.....	19422	F3617	.....	19174	F3689	.....	18980
F3532.25	.....	19514	F3577.44	.....	19442	F3620	.....	19176	F3692	.....	18978
F3532.3	.....	19524	F3577.46	.....	19558	F3620.25	.....	19150.6	F3712	.....	18936
F3534	.....	19492	F3577.5	.....	19562	F3620.4	.....	19150.4	F3714	.....	18932
F3534.2	.....	19488	F3577.6	.....	19437	F3620.8	.....	19150	F3714.14	.....	18940
F3534.22	.....	19488.2	F3577.64	.....	19432	F3625	.....	19148	F3714.148	.....	18954
F3534.24	.....	19488.4	F3577.68	.....	19425	F3626	.....	19144	F3714.16	.....	18944
F3534.3	.....	19488.6	F3577.7	.....	19430	F3627	.....	19141	F3714.18	.....	18948
F3535.42	.....	19484.1	F3577.8	.....	19427.5	F3627.5	.....	19137	F3714.2	.....	18952
F3535.666	.....	19483.5	F3577.84	.....	19427	F3627.8	.....	19139	F3714.22	.....	18956
F3535.668	.....	19483.6	F3577.86	.....	19431	F3628	.....	19124	F3714.24	.....	18960
F3535.72	.....	19485.1	F3578	.....	19326	F3632	.....	19136	F3714.26	.....	18964
F3535.78	.....	19485	F3578.3	.....	19292	F3632.5	.....	19134	F3714.266	.....	18976
F3536.5	.....	19496	F3578.4	.....	19296	F3633.17	.....	19136.5	F3714.28	.....	18968
F3537.6	.....	19504	F3580.6	.....	19318	F3633.3	.....	19133	F3714.3	.....	18972
F3537.7	.....	19508	F3580.7	.....	19322	F3633.4	.....	19133.6	F3714.6	.....	18922
F3537.8	.....	19445	F3580.88	.....	19314	F3633.8	.....	19133.4	F3715	.....	18928
F3538	.....	19460	F3580.9	.....	19306	F3633.9	.....	19133.2	F3715.2	.....	18930
F3540.7	.....	19483	F3580.93	.....	19310	F3634	.....	19132	F3715.21	.....	18930.1
F3540.75	.....	19483.1	F3580.95	.....	19300	F3634.4	.....	19128	F3715.3	.....	18929
F3540.8	.....	19482	F3580.98	.....	19290	F3634.8	.....	19092	F3715.4	.....	18920
F3540.85	.....	19482.1	F3581	.....	19288	F3635	.....	19096	F3716	.....	18916
F3541	.....	19480.5	F3581.284	.....	19288.5	F3635.1	.....	19100	F3716.4	.....	18912
F3541.3	.....	19480	F3581.3	.....	19284	F3635.2	.....	19104	F3716.48	.....	18966
F3545.4	.....	19476	F3581.35	.....	19286	F3635.4	.....	19112	F3716.71	.....	18909
F3545.55	.....	19476.2	F3582	.....	19280	F3635.41	.....	19116	F3716.723	.....	18909.5
F3545.7	.....	19476.4	F3584	.....	19276	F3635.42	.....	19114	F3716.8	.....	18908
F3545.75	.....	19476.6	F3585	.....	19272	F3635.65	.....	19122	F3717	.....	18892
F3548	.....	19473	F3586	.....	19264	F3635.7	.....	19120	F3717.5	.....	18888
F3548.2	.....	19473.3	F3587.7	.....	19206	F3641.95	.....	19091	F3720	.....	18904
F3551	.....	19400.2	F3588	.....	19208	F3644	.....	19090	F3728	.....	18900
F3551.2	.....	19400	F3589	.....	19230	F3648	.....	19087	F3730	.....	18902

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F3734	.....	18896	F3804	.....	18760	F3886	.....	18580	F3972.5	.....	18373
F3738	.....	18884	F3806	.....	18756	F3886.5	.....	18587.5	F3975	.....	18375
F3739	.....	18879.6	F3807.7	.....	18753.9	F3887	.....	18586	F3976	.....	18376
F3740	.....	18880	F3808	.....	18752	F3887.1	.....	18586.1	F3976.1	.....	18377
F3740.02	.....	18878	F3808.2	.....	18753	F3888	.....	18584	F3977	.....	18378
F3740.025	.....	18878.5	F3808.21	.....	18753.1	F3892	.....	18556	F3978	.....	18335
F3740.055	.....	18879.5	F3808.4	.....	18753.7	F3892.5	.....	18568	F3979	.....	18334.7
F3740.06	.....	18879.1	F3808.6	.....	18751.4	F3893	.....	18564	F3979.1	.....	18334.71
F3740.08	.....	18879	F3808.8	.....	18751.2	F3893.5	.....	18560	F3979.15	.....	18334.75
F3741	.....	18877	F3809	.....	18751	F3894	.....	18536	F3979.2	.....	18334.8
F3746	.....	18872	F3810	.....	18680	F3895.28	.....	18539	F3983	.....	18334
F3747	.....	18876	F3811	.....	18679.2	F3895.3	.....	18538	F3986	.....	18312
F3747.4	.....	18864	F3812	.....	18679	F3895.35	.....	18537	F4010	.....	18236
F3748	.....	18868	F3813	.....	18750	F3895.85	.....	18558	F4011	.....	18316
F3750	.....	18796	F3814	.....	18668	F3897	.....	18532	F4012	.....	18238
F3751	.....	18794	F3816	.....	18670	F3898	.....	18533	F4016	.....	18240
F3752	.....	18792	F3818	.....	18672	F3898.1	.....	18533.5	F4018	.....	18244
F3753	.....	18784	F3820	.....	18676	F3899	.....	18534	F4020	.....	18260
F3754.2	.....	18808	F3821	.....	18678	F3899.1	.....	18534.5	F4022	.....	18256
F3754.69	.....	18829	F3822	.....	18684	F3908	.....	18500	F4026	.....	18264
F3754.7	.....	18828	F3823	.....	18686	F3910	.....	18504	F4028	.....	18268
F3755	.....	18812	F3824	.....	18692	F3910.1	.....	18508	F4030	.....	18272
F3762	.....	18780	F3825	.....	18700	F3912	.....	18512	F4032	.....	18276
F3767	.....	18816	F3826	.....	18688	F3912.1	.....	18516	F4033	.....	18277
F3768	.....	18824	F3832	.....	18704	F3932	.....	18496	F4043	.....	18282
F3770	.....	18830	F3836	.....	18708	F3936	.....	18476	F4044	.....	18280
F3771	.....	18835	F3837	.....	18728	F3937	.....	18408	F4045	.....	18279
F3779	.....	18836	F3837.5	.....	18720	F3937.4	.....	18412	F4058	.....	18220
F3780	.....	18840	F3844	.....	18732	F3937.41	.....	18416	F4058.5	.....	18234
F3780.2	.....	18841	F3844.1	.....	18736	F3937.6	.....	18420	F4059	.....	18228
F3780.3	.....	18842	F3847	.....	18740	F3941	.....	18468	F4059.2	.....	18227
F3780.4	.....	18843	F3847.1	.....	18744	F3941.1	.....	18472	F4059.3	.....	18229
F3780.5	.....	18844	F3847.5	.....	18748	F3942	.....	18454	F4059.5	.....	18231
F3780.6	.....	18845	F3850.5	.....	18666	F3942.1	.....	18454.5	F4060	.....	18222
F3781	.....	18848	F3850.6	.....	18664	F3943	.....	18440	F4062	.....	18216
F3781.1	.....	18852	F3851	.....	18662	F3943.1	.....	18444	F4064	.....	18212
F3782	.....	18854	F3856	.....	18660	F3943.8	.....	18456	F4065.5	.....	18226.2
F3783	.....	18855	F3858	.....	18656	F3943.9	.....	18464	F4066	.....	18226
F3785	.....	18857	F3860	.....	18652	F3944.5	.....	18460	F4067	.....	18208
F3785.4	.....	18858	F3862	.....	18648	F3945	.....	18466	F4068.1	.....	18210
F3785.41	.....	18858.1	F3863	.....	18644	F3948	.....	18448	F4100	.....	18176
F3790	.....	18860	F3864	.....	18640	F3948.1	.....	18452	F4104	.....	18160
F3794.14	.....	18779.8	F3866	.....	18636	F3948.11	.....	18448.1	F4105	.....	18164
F3794.17	.....	18779.7	F3867	.....	18634	F3948.15	.....	18448.2	F4106	.....	18166
F3794.2	.....	18779.6	F3868	.....	18608	F3949.5	.....	18424	F4107	.....	18168
F3794.5	.....	18779.5	F3869	.....	18616	F3950	.....	18428	F4112	.....	18156
F3795	.....	18779.4	F3870	.....	18612	F3950.5	.....	18432	F4113	.....	18152
F3800.4	.....	18758	F3871	.....	18624	F3950.71	.....	18340	F4116	.....	18112
F3800.5	.....	18761	F3871.6	.....	18628.5	F3953.8	.....	18452.5	F4117	.....	18119
F3800.7	.....	18777	F3871.63	.....	18628	F3953.81	.....	18452.6	F4117.5	.....	18118
F3800.71	.....	18777.1	F3871.7	.....	18626	F3953.82	.....	18452.7	F4118	.....	18116
F3800.8	.....	18778	F3871.71	.....	18626.1	F3953.9	.....	18452.8	F4119	.....	18120
F3800.81	.....	18778.1	F3874	.....	18620	F3954.65	.....	18453	F4120	.....	18124
F3801	.....	18762	F3876	.....	18600	F3954.9	.....	18453.2	F4122	.....	18128
F3802	.....	18764	F3878	.....	18596	F3954.91	.....	18453.4	F4126	.....	18132
F3802.5	.....	18768	F3880	.....	18604	F3964	.....	18387	F4128	.....	18136
F3803.4	.....	18779.3	F3880.5	.....	18592	F3966.2	.....	18384	F4132	.....	18148
F3803.41	.....	18779.31	F3881	.....	18588	F3966.5	.....	18383	F4136	.....	18104
F3803.5	.....	18779	F3881.4	.....	18587.6	F3966.51	.....	18383.1	F4137.2	.....	18087
F3803.6	.....	18778.6	F3881.5	.....	18587.7	F3970	.....	18336	F4137.4	.....	18088
F3803.61	.....	18778.7	F3881.6	.....	18587.8	F3971.1	.....	18344	F4138	.....	18093
F3803.81	.....	18778.25	F3882	.....	18572	F3971.9	.....	18348	F4139	.....	18094
F3803.82	.....	18778.26	F3882.5	.....	18587	F3972	.....	18352	F4140	.....	18096
F3803.85	.....	18778.2	F3882.51	.....	18587.1	F3972.1	.....	18353, 18374	F4145	.....	18080
F3803.86	.....	18778.21	F3884	.....	18576	F3972.3	.....	18358	F4146	.....	18076

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F4146.5	.....	18077	F4173.5	.....	18018	F4207.2	.....	17726.5	F4246	.....	17556
F4148	.....	18040	F4173.52	.....	18017	F4207.4	.....	17732	F4246.6	.....	17581
F4149	.....	18048	F4173.6	.....	18016	F4207.5	.....	17736	F4246.65	.....	17581.5
F4149.1	.....	18051	F4173.8	.....	18012	F4207.65	.....	17737	F4247	.....	17560
F4149.3	.....	17895	F4174	.....	17992	F4207.7	.....	17740	F4247.25	.....	17552
F4150	.....	17920	F4174.5	.....	18008	F4208	.....	17720	F4247.6	.....	17551.8
F4151	.....	17856.5	F4175	.....	18004	F4209	.....	17716	F4247.7	.....	17554
F4152	.....	17856	F4175.2	.....	17996	F4210	.....	17712	F4248	.....	17576
F4153	.....	17854	F4175.4	.....	18000	F4210.5	.....	17713	F4249	.....	17564
F4154	.....	17840	F4176	.....	17972	F4210.8	.....	17643.1	F4249.2	.....	17568
F4154.2	.....	17841	F4178	.....	17984	F4211	.....	17644	F4249.4	.....	17572
F4154.25	.....	17840.8	F4178.4	.....	17988	F4211.5	.....	17666	F4249.8	.....	17562
F4154.3	.....	17850	F4178.5	.....	17989	F4212	.....	17672	F4250	.....	17580
F4154.4	.....	17851	F4178.6	.....	17990	F4212.5	.....	17668	F4254	.....	17480
F4154.5	.....	17852	F4179	.....	17980	F4212.7	.....	17669	F4254.2	.....	17482
F4154.7	.....	17860	F4179.2	.....	17976	F4212.8	.....	17670	F4254.4	.....	17488
F4155	.....	17892	F4179.3	.....	17973	F4213	.....	17652	F4254.6	.....	17484
F4155.1	.....	17858	F4184	.....	17844	F4213.5	.....	17660	F4254.9	.....	17489.5
F4155.4	.....	17924	F4184.5	.....	17839.8	F4214	.....	17664	F4255	.....	17496
F4155.6	.....	18044	F4185	.....	17848	F4215	.....	17620	F4255.5	.....	17502
F4156	.....	17864	F4185.12	.....	17839	F4215.5	.....	17632	F4256	.....	17500
F4156.35	.....	17863	F4185.15	.....	17839.2	F4216	.....	17636	F4257	.....	17508
F4156.5	.....	17894	F4185.4	.....	17839.5	F4216.5	.....	17640	F4258	.....	17504
F4156.58	.....	17893.5	F4185.41	.....	17839.6	F4216.9	.....	17621	F4259	.....	17505
F4156.6	.....	17865	F4186	.....	17836	F4217	.....	17624	F4262	.....	17516
F4156.65	.....	17865.1	F4186.2	.....	17838	F4217.3	.....	17622	F4263	.....	17512
F4156.7	.....	17866	F4187	.....	17832	F4217.5	.....	17642	F4263.5	.....	17518
F4156.75	.....	17866.1	F4188	.....	17816	F4217.7	.....	17625	F4264	.....	17520
F4157	.....	17896	F4188.5	.....	17818	F4217.8	.....	17627.7	F4265.2	.....	17528
F4158	.....	17932	F4189	.....	17824	F4218	.....	17628	F4265.3	.....	17528.5
F4158.2	.....	17940	F4189.5	.....	17820	F4218.3	.....	17630	F4265.7	.....	17393
F4158.3	.....	17936	F4189.55	.....	17821	F4218.35	.....	17630.5	F4266	.....	17376
F4158.64	.....	17902	F4189.6	.....	17825	F4220	.....	17616	F4266.5	.....	17380
F4158.7	.....	17910.6	F4189.7	.....	17828	F4222	.....	17696	F4267	.....	17381
F4158.77	.....	17911.4	F4189.8	.....	17830	F4222.1	.....	17679	F4267.5	.....	17382
F4158.8	.....	17912	F4190	.....	17804	F4222.5	.....	17678	F4269	.....	17396
F4159	.....	17928	F4190.5	.....	17808	F4223	.....	17684	F4269.28	.....	17396.8
F4160	.....	17926	F4190.6	.....	17806	F4223.4	.....	17683	F4269.3	.....	17397
F4163	.....	17934	F4191	.....	17760	F4223.5	.....	17688	F4269.5	.....	17400
F4163.5	.....	18063.5	F4192	.....	17756	F4223.8	.....	17694	F4269.9	.....	17402.1
F4164	.....	17944	F4192.5	.....	17782	F4224	.....	17680	F4270	.....	17404
F4164.25	.....	17949	F4192.55	.....	17783	F4225	.....	17676	F4270.1	.....	17407
F4164.3	.....	17953	F4193	.....	17764	F4225.5	.....	17692	F4270.2	.....	17408
F4164.5	.....	17956.5	F4193.5	.....	17758	F4226	.....	17700	F4271	.....	17412
F4165	.....	17954	F4193.8	.....	17775	F4227	.....	17708	F4272	.....	17420
F4166	.....	17956	F4195	.....	17774	F4227.2	.....	17709	F4272.2	.....	17416
F4167	.....	17960	F4196	.....	17772	F4227.4	.....	17710	F4272.3	.....	17424
F4167.3	.....	17961	F4196.5	.....	17776	F4228	.....	17704	F4272.35	.....	17434
F4168	.....	18056	F4197	.....	17780	F4228.5	.....	17588	F4272.36	.....	17435
F4168.5	.....	18052	F4197.7	.....	17784	F4229	.....	17648	F4272.42	.....	17432
F4169	.....	18064	F4198	.....	17788	F4229.1	.....	17649	F4272.5	.....	17436
F4169.5	.....	18068	F4199	.....	17792	F4229.5	.....	17645	F4272.54	.....	17440
F4170	.....	18060	F4204	.....	17800	F4229.8	.....	17644.5	F4272.57	.....	17448
F4170.4	.....	18062	F4205	.....	17802	F4230	.....	17643	F4272.6	.....	17444
F4171	.....	17963	F4205.2	.....	17796	F4231	.....	17656	F4272.7	.....	17452
F4171.2	.....	17963.5	F4205.5	.....	17751	F4232	.....	17584	F4272.8	.....	17456
F4172.1	.....	18032	F4206	.....	17748	F4232.6	.....	17582	F4272.9	.....	17455
F4172.15	.....	18028	F4206.3	.....	17752	F4234	.....	17592	F4272.95	.....	17455.5
F4172.16	.....	17962	F4206.35	.....	17754	F4235	.....	17614	F4273	.....	17468
F4172.18	.....	17962.5	F4206.38	.....	17746	F4236	.....	17596	F4274.2	.....	17462
F4172.19	.....	17969	F4206.4	.....	17812	F4237	.....	17612	F4274.5	.....	17460
F4172.4	.....	17968	F4206.6	.....	17744	F4238	.....	17608	F4274.55	.....	17476
F4172.51	.....	17970.1	F4206.7	.....	17727	F4241	.....	17600	F4274.58	.....	17477
F4172.53	.....	17970.3	F4206.8	.....	17728	F4242	.....	17604	F4274.65	.....	17372
F4173.4	.....	18020	F4206.85	.....	17746.5	F4243	.....	17548	F4274.7	.....	17368

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F4274.85	.....	17366.5	F4300.4	.....	17232	F4319	.....	17000	F4331.55	.....	16876.9
F4275	.....	17360	F4300.6	.....	17264	F4319.5	.....	16978	F4331.6	.....	16877
F4275.6	.....	17346	F4301	.....	17284	F4320.2	.....	16986	F4331.7	.....	16876
F4276	.....	17348	F4302	.....	17268	F4320.45	.....	16968	F4332	.....	16872
F4277	.....	17352	F4304	.....	17272	F4320.5	.....	16996	F4332.5	.....	16875
F4277.8	.....	17344	F4305	.....	17220	F4320.6	.....	16988	F4333	.....	16874
F4277.9	.....	17364	F4305.4	.....	17219	F4320.61	.....	16992	F4334	.....	16864
F4278	.....	17532	F4305.5	.....	17218	F4321	.....	16964	F4335	.....	16862
F4278.15	.....	17531	F4305.6	.....	17222	F4321.08	.....	16965	F4336	.....	16860
F4278.16	.....	17320.5	F4306	.....	17216	F4321.12	.....	16966	F4337.3	.....	16857
F4278.2	.....	17530	F4307	.....	17224	F4321.2	.....	17004	F4337.4	.....	16857.5
F4278.3	.....	17529	F4307.3	.....	17068	F4321.31	.....	17006	F4338	.....	16852
F4278.4	.....	17544	F4307.5	.....	17072	F4321.4	.....	17020	F4340	.....	16856
F4279	.....	17536	F4307.7	.....	17074	F4321.45	.....	17012	F4340.3	.....	16848
F4279.3	.....	17540	F4307.8	.....	17075	F4321.47	.....	17013	F4340.4	.....	16846
F4279.36	.....	17533.5	F4308	.....	17064	F4321.5	.....	17008	F4340.45	.....	16847
F4279.37	.....	17531.5	F4308.05	.....	17066	F4321.52	.....	17008.5	F4340.5	.....	16840
F4279.4	.....	17320	F4308.15	.....	17063	F4321.55	.....	16962	F4340.6	.....	16844
F4279.45	.....	17322	F4308.2	.....	17080	F4321.58	.....	17010	F4340.7	.....	16836
F4279.5	.....	17324	F4308.3	.....	17084	F4321.59	.....	17010.5	F4340.75	.....	16838
F4279.6	.....	17301.5	F4308.35	.....	17088	F4321.6	.....	17036	F4340.8	.....	16824
F4279.7	.....	17326	F4308.4	.....	17156	F4321.8	.....	16963	F4340.85	.....	16823
F4280	.....	17332	F4308.5	.....	17160	F4322	.....	17032	F4340.9	.....	16830
F4280.4	.....	17305	F4308.55	.....	17165	F4322.2	.....	17024	F4340.99	.....	16821.1
F4280.5	.....	17328	F4308.6	.....	17212	F4322.3	.....	17028	F4341	.....	16828
F4281	.....	17304	F4308.72	.....	17148	F4322.4	.....	16960	F4341.4	.....	16832
F4281.2	.....	17312	F4308.74	.....	17152	F4322.5	.....	16954	F4342	.....	16820
F4281.4	.....	17308	F4308.8	.....	17100	F4322.6	.....	16956	F4342.4	.....	16818
F4281.6	.....	17302	F4308.9	.....	17092	F4322.65	.....	16956.5	F4342.5	.....	16817.8
F4281.65	.....	17303	F4308.94	.....	17096	F4322.7	.....	16868	F4343	.....	16808
F4281.7	.....	17301	F4309	.....	17104	F4322.72	.....	16894	F4344	.....	16796
F4281.8	.....	17306	F4309.4	.....	17108	F4322.75	.....	16893	F4345	.....	16792
F4281.9	.....	17307	F4309.8	.....	17120	F4322.8	.....	16888	F4346	.....	16804
F4282	.....	17340	F4310	.....	17116	F4322.85	.....	16886	F4347	.....	16800
F4283.4	.....	17336	F4310.2	.....	17112	F4322.9	.....	16884	F4348	.....	16816
F4283.6	.....	17338	F4310.3	.....	17126	F4322.95	.....	17016	F4348.7	.....	16815.9
F4283.8	.....	17398	F4310.4	.....	17128	F4323	.....	16952	F4348.8	.....	16815
F4284	.....	17316	F4310.5	.....	17132	F4323.1	.....	16942	F4348.9	.....	16815.5
F4286	.....	17244	F4310.54	.....	17140	F4323.6	.....	16920	F4349.2	.....	16813
F4286.5	.....	17251	F4310.57	.....	17136	F4323.8	.....	16924	F4349.3	.....	16814
F4287	.....	17252	F4310.6	.....	17124	F4324	.....	16892	F4350	.....	16781
F4290.2	.....	17250	F4310.7	.....	17144	F4325	.....	16908	F4350.1	.....	16780.4
F4292	.....	17248	F4310.8	.....	17171.5	F4325.4	.....	16911	F4350.2	.....	16780.5
F4293	.....	17246	F4310.82	.....	17200.8	F4325.5	.....	16915.7	F4351	.....	16780
F4294	.....	17260	F4310.86	.....	17172	F4325.55	.....	16915.5	F4351.8	.....	16778
F4294.5	.....	17240	F4310.9	.....	17188	F4325.7	.....	16914	F4351.9	.....	16829
F4295	.....	17236	F4310.91	.....	17192	F4325.8	.....	16915	F4352	.....	16776
F4295.5	.....	17290	F4310.94	.....	17196	F4325.85	.....	16918.5	F4352.3	.....	16779
F4295.7	.....	17291	F4310.95	.....	17200	F4325.9	.....	16918	F4352.4	.....	16774
F4296	.....	17292	F4310.97	.....	17201	F4326	.....	16912	F4353.5	.....	16772
F4296.8	.....	17233	F4311	.....	17056	F4326.3	.....	16929	F4353.7	.....	16775.5
F4297	.....	17228	F4311.4	.....	17060	F4326.5	.....	16916	F4354	.....	16768
F4297.3	.....	17229.4	F4311.6	.....	17048	F4327	.....	16928	F4354.5	.....	16770
F4297.4	.....	17230	F4311.65	.....	17050	F4328	.....	16936	F4354.7	.....	16769
F4297.8	.....	17294	F4311.7	.....	17051	F4329	.....	16932	F4355	.....	16764
F4298	.....	17296	F4311.73	.....	17058.1	F4330	.....	16880	F4355.4	.....	16760
F4298.5	.....	17272.5	F4311.75	.....	17051.5	F4330.1	.....	16880.5	F4355.5	.....	16760.5
F4299	.....	17300	F4311.8	.....	17046	F4330.2	.....	16879	F4356	.....	16728
F4299.2	.....	17298	F4312	.....	17052	F4330.4	.....	17863.2	F4356.4	.....	16734
F4299.4	.....	17299	F4314	.....	17044	F4330.7	.....	16898	F4356.5	.....	16735
F4299.6	.....	17298.5	F4315	.....	17040	F4330.8	.....	16899	F4356.6	.....	16733.1
F4299.72	.....	17227	F4317	.....	16972	F4330.9	.....	16904	F4357.6	.....	16749
F4300	.....	17280	F4317.5	.....	16974	F4331	.....	16900	F4357.8	.....	16749.5
F4300.3	.....	17282	F4317.7	.....	16975	F4331.25	.....	16902	F4360	.....	16748
F4300.35	.....	17280.5	F4318	.....	16976	F4331.5	.....	16896	F4366	.....	16752

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F4368	.....	16756	F4413.7	.....	16609	F4457	.....	16420	F4543	.....	16262
F4374	.....	16732	F4413.75	.....	16610	F4458	.....	16404	F4544	.....	16264
F4374.2	.....	16727	F4413.8	.....	16611	F4458.2	.....	16416	F4546	.....	16268
F4374.3	.....	16727.1	F4414	.....	16604	F4458.4	.....	16408	F4547	.....	16269
F4374.4	.....	16724.4	F4415	.....	16600	F4458.6	.....	16412	F4556	.....	16248
F4374.5	.....	16725.2	F4417	.....	16596.5	F4459	.....	16380	F4558	.....	16232
F4374.6	.....	16725.6	F4418	.....	16596	F4459.1	.....	16384	F4560.8	.....	16234
F4374.7	.....	16724.8	F4420	.....	16588	F4459.15	.....	16385	F4568	.....	16228
F4374.8	.....	16725.8	F4421	.....	16592	F4459.2	.....	16386	F4570	.....	16200
F4374.81	.....	16725.9	F4424	.....	16584	F4459.3	.....	16378	F4574	.....	16220
F4375.6	.....	16724	F4426	.....	16572	F4459.4	.....	16379	F4576	.....	16224
F4376	.....	16720	F4427	.....	16574	F4459.43	.....	16377	F4578	.....	16216
F4377.6	.....	16714	F4429	.....	16576	F4459.5	.....	16388	F4582	.....	16208
F4377.9	.....	16713	F4430	.....	16580	F4459.54	.....	16396	F4584	.....	16212
F4378	.....	16712	F4430.5	.....	16569	F4459.6	.....	16392	F4590	.....	16204
F4379	.....	16704	F4431	.....	16568	F4459.7	.....	16376	F4602	.....	13768
F4379.2	.....	16708	F4431.2	.....	16566	F4459.75	.....	16374	F4603.04	.....	13769
F4379.4	.....	16710	F4431.4	.....	16566.2	F4459.9	.....	16369	F4603.06	.....	13769.5
F4379.5	.....	16711	F4431.45	.....	16565	F4460	.....	16365	F4610	.....	13780
F4379.6	.....	16711.3	F4431.5	.....	16564	F4460.1	.....	16365.1	F4612	.....	13776
F4379.7	.....	16709, 16711.5	F4432	.....	16552	F4461	.....	16364	F4618	.....	13796
F4381.3	.....	16690	F4432.6	.....	16556	F4462	.....	16359	F4620	.....	13800
F4381.36	.....	16691	F4433	.....	16560	F4464	.....	16360	F4621	.....	13804
F4381.4	.....	16692	F4433.7	.....	16508	F4464.5	.....	16362	F4622	.....	13806
F4381.5	.....	16696	F4433.8	.....	16516	F4465	.....	16358	F4623.4	.....	13807
F4382	.....	16700	F4433.9	.....	16518	F4466	.....	16356	F4624.4	.....	13788
F4382.5	.....	16698	F4434	.....	16500	F4468	.....	16352	F4624.42	.....	13792
F4382.7	.....	16699	F4434.2	.....	16504	F4472	.....	16332	F4624.5	.....	13793
F4383	.....	16702	F4434.3	.....	16502	F4474	.....	16328	F4624.51	.....	13793.1
F4383.2	.....	16702.5	F4434.7	.....	16506	F4480	.....	16340	F4625	.....	13808
F4385	.....	16688	F4434.75	.....	16505	F4484	.....	16348	F4625.2	.....	13812
F4388	.....	16676	F4435	.....	16496	F4484.5	.....	16344	F4625.4	.....	13816
F4389	.....	16686	F4436	.....	16488	F4485	.....	16326	F4626	.....	13820
F4390	.....	16684	F4437	.....	16492	F4487	.....	16325	F4626.1	.....	13824
F4394	.....	16680	F4440	.....	16548	F4488	.....	16324	F4626.3	.....	13825
F4397	.....	16674	F4443	.....	16536	F4490	.....	16323	F4626.4	.....	13825.1
F4397.4	.....	16673	F4444	.....	16540	F4492	.....	16316	F4626.45	.....	13825.2
F4397.5	.....	16673.1	F4445	.....	16544	F4494	.....	16320	F4626.5	.....	13826
F4398	.....	16672	F4446.2	.....	16520	F4495	.....	16322	F4628	.....	13828
F4400	.....	16668	F4446.5	.....	16484	F4506	.....	16312	F4629	.....	13832
F4402	.....	16664	F4446.6	.....	16480	F4506.5	.....	16308.5	F4629.2	.....	13836
F4403	.....	16662	F4446.8	.....	16478	F4507	.....	16310	F4629.3	.....	13837
F4404	.....	16656	F4447	.....	16464	F4508	.....	16309	F4629.35	.....	13837.2
F4405	.....	16660	F4448	.....	16466	F4510	.....	16308	F4629.4	.....	13837.4
F4405.5	.....	16661	F4448.4	.....	16467	F4510.4	.....	16306	F4629.5	.....	13838
F4406	.....	16644	F4449	.....	16456	F4510.6	.....	16307	F4629.55	.....	13838.2
F4408	.....	16643	F4449.1	.....	16454	F4511.4	.....	16306.1	F4629.6	.....	13838.4
F4409	.....	16652	F4449.2	.....	16454.1	F4512	.....	16304	F4630	.....	13840
F4410	.....	16648	F4449.3	.....	16449	F4512.2	.....	16305	F4640	.....	13884
F4410.1	.....	16648.6	F4449.35	.....	16450	F4513	.....	16303	F4642	.....	13888
F4410.5	.....	16614	F4449.5	.....	16452	F4514	.....	16301	F4646	.....	13892
F4411	.....	16636	F4449.6	.....	16451.7	F4514.4	.....	16302	F4650	.....	13880
F4411.2	.....	16640	F4449.65	.....	16451.8	F4516	.....	16284	F4651	.....	13876
F4411.4	.....	16626	F4449.8	.....	16451	F4520	.....	16296	F4652	.....	13872
F4411.41	.....	16627	F4449.85	.....	16451.5	F4522	.....	16288	F4653	.....	13864
F4412	.....	16624	F4450	.....	16436	F4524	.....	16292	F4653.2	.....	13868
F4412.5	.....	16632	F4452	.....	16440	F4526	.....	16300	F4654	.....	13860
F4412.6	.....	16628	F4452.5	.....	16444	F4530	.....	16280	F4658	.....	13856
F4412.7	.....	16634	F4453	.....	16448	F4531	.....	16277	F4658.5	.....	13844
F4412.72	.....	16633	F4455	.....	16432	F4532	.....	16278	F4659.415	.....	13854
F4412.8	.....	16642	F4455.4	.....	16433	F4533	.....	16276.5	F4659.5	.....	13852
F4413	.....	16616	F4455.6	.....	16430	F4534	.....	16272	F4659.7	.....	13893
F4413.2	.....	16620	F4456	.....	16428	F4536	.....	16276	F4660.15	.....	13896
F4413.4	.....	16621	F4456.2	.....	16429	F4540	.....	16252	F4660.2	.....	13940
F4413.6	.....	16612	F4456.5	.....	16424	F4542	.....	16260	F4660.4	.....	13900

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F4660.45	.....	13905	F4705	.....	13728	F4741.3	.....	13388	F4765.4	.....	13224
F4660.6	.....	13904	F4706	.....	13732	F4743	.....	13392	F4765.5	.....	13242
F4660.64	.....	13908	F4708	.....	13736	F4744.8	.....	13382	F4765.51	.....	13242.1
F4660.66	.....	13909	F4708.1	.....	13740	F4745	.....	13404	F4765.6	.....	13212
F4660.68	.....	13910	F4709	.....	13748	F4745.4	.....	13370	F4765.8	.....	13216
F4660.69	.....	13910.1	F4709.3	.....	13750	F4745.5	.....	13369	F4766	.....	13220
F4660.7	.....	13912	F4709.5	.....	13746	F4746	.....	13368	F4766.5	.....	13196
F4660.8	.....	13916	F4709.7	.....	13747	F4748	.....	13364	F4766.7	.....	13200
F4660.92	.....	13918	F4710	.....	13744, 13747.5	F4748.5	.....	13362	F4766.8	.....	13204
F4660.93	.....	13920	F4714	.....	13752	F4749	.....	13360	F4766.81	.....	13208
F4660.94	.....	13906	F4716	.....	13756	F4749.5	.....	13349	F4767	.....	13132
F4660.941	.....	13907	F4724	.....	13760	F4750	.....	13352	F4767.6	.....	13140
F4661	.....	13944	F4725	.....	13764	F4750.2	.....	13354	F4767.8	.....	13134
F4661.5	.....	13948	F4728	.....	13580	F4750.4	.....	13356	F4767.81	.....	13134.1
F4661.6	.....	13949	F4728.2	.....	13584	F4750.7	.....	13348	F4768	.....	13144
F4661.7	.....	13950	F4728.3	.....	13586	F4750.84	.....	13336	F4770	.....	13148
F4662	.....	13952	F4728.4	.....	13576	F4752	.....	13316	F4770.4	.....	13148.5
F4664	.....	13960	F4729	.....	13556	F4752.4	.....	13320	F4771	.....	13150
F4665.2	.....	13962	F4730	.....	13560	F4753	.....	13324	F4771.5	.....	13151
F4665.4	.....	13962.5,	F4731	.....	13564	F4753.4	.....	13328	F4775	.....	13152
13962.9			F4732	.....	13536	F4753.5	.....	13332	F4776	.....	13156
F4665.5	.....	13962.8	F4733	.....	13532	F4754	.....	13308	F4778	.....	13168
F4666.5	.....	13964	F4734	.....	13528	F4754.5	.....	13322	F4780	.....	13172
F4670	.....	13592	F4734.15	.....	13542	F4754.6	.....	13306	F4780.5	.....	13176
F4672	.....	13596	F4734.2	.....	13540	F4754.7	.....	13305	F4780.6	.....	13180
F4672.2	.....	13600	F4734.3	.....	13544	F4754.8	.....	13310	F4780.7	.....	13184
F4672.4	.....	13612	F4734.4	.....	13548	F4754.9	.....	13310.5	F4781	.....	13192
F4674	.....	13604	F4734.5	.....	13550	F4755	.....	13326	F4781.5	.....	13188
F4675	.....	13616	F4734.7	.....	13554	F4758	.....	13284	F4781.8	.....	13178
F4675.5	.....	13624	F4735	.....	13568	F4759	.....	13296	F4782	.....	13112
F4676	.....	13620	F4736	.....	13524	F4759.2	.....	13300	F4782.1	.....	13116
F4676.6	.....	13628	F4737	.....	13516	F4759.25	.....	13300.5	F4782.5	.....	13124
F4677	.....	13632	F4737.5	.....	13520	F4759.4	.....	13304	F4782.51	.....	13128
F4678	.....	13640	F4737.7	.....	13513	F4760	.....	13302	F4782.6	.....	13120
F4679	.....	13636	F4737.8	.....	13512	F4761	.....	13288	F4782.8	.....	13104
F4680	.....	13634	F4738	.....	13504	F4761.4	.....	13292	F4782.9	.....	13108
F4680.5	.....	13635	F4738.4	.....	13508	F4761.6	.....	13290	F4783	.....	13096
F4682.5	.....	13652	F4738.5	.....	13506	F4762.2	.....	13272	F4784	.....	13100
F4683	.....	13656	F4738.6	.....	13510	F4762.4	.....	13280	F4784.5	.....	13092
F4684	.....	13658	F4739	.....	13500	F4762.9	.....	13268	F4785	.....	13088
F4685	.....	13659	F4739.2	.....	13492	F4763	.....	13264	F4786	.....	13080
F4686	.....	13660	F4739.37	.....	13490	F4763.2	.....	13266	F4786.3	.....	13076
F4687	.....	13661	F4739.39	.....	13491	F4763.4	.....	13440	F4786.6	.....	13084
F4688	.....	13662	F4739.4	.....	13480	F4763.44	.....	13444	F4787	.....	12992
F4690	.....	13588	F4739.42	.....	13482	F4763.5	.....	13424	F4787.2	.....	12994
F4692.2	.....	13668	F4739.47	.....	13476	F4763.52	.....	13428	F4788	.....	13072
F4692.21	.....	13672	F4739.48	.....	13472	F4763.54	.....	13436	F4790	.....	13064
F4692.4	.....	13664	F4739.5	.....	13464	F4763.57	.....	13449	F4790.4	.....	13068
F4693	.....	13676	F4739.6	.....	13468	F4763.6	.....	13448	F4790.6	.....	13060
F4693.2	.....	13677	F4739.7	.....	13466	F4763.61	.....	13450	F4790.8	.....	13056
F4693.4	.....	13677.2	F4739.8	.....	13460	F4763.62	.....	13456	F4791	.....	13052
F4694	.....	13680	F4739.85	.....	13462	F4763.64	.....	13452	F4791.2	.....	13048
F4697	.....	13682	F4739.88	.....	13463	F4763.7	.....	13432	F4792	.....	13032
F4700	.....	13684	F4739.9	.....	13408	F4763.8	.....	13244	F4793	.....	13028
F4700.5	.....	13688	F4739.92	.....	13407	F4764	.....	13248	F4793.5	.....	13024
F4700.6	.....	13692	F4740	.....	13412	F4764.4	.....	13252	F4794	.....	13020
F4701	.....	13696	F4740.3	.....	13420	F4764.41	.....	13256	F4796	.....	13004
F4701.15	.....	13716	F4740.4	.....	13422	F4764.5	.....	13263	F4797	.....	13008
F4701.2	.....	13700	F4740.6	.....	13414	F4764.7	.....	13262	F4798.4	.....	13012
F4701.22	.....	13704	F4740.8	.....	13376	F4765	.....	13260	F4798.6	.....	13016
F4701.25	.....	13712	F4740.85	.....	13380	F4765.05	.....	13261	F4798.8	.....	13002
F4702	.....	13721	F4740.87	.....	13372	F4765.2	.....	13240	F4799	.....	13000
F4703	.....	13722	F4740.9	.....	13372.2	F4765.3	.....	13236	F4800	.....	13044
F4704	.....	13725	F4741.2	.....	13396	F4765.34	.....	13228	F4800.4	.....	13036
F4704.2	.....	13726	F4741.21	.....	13400	F4765.35	.....	13232	F4800.6	.....	13040

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F4801	.....	13496	F4870.5	.....	10820	F4912	.....	10464	F4962	.....	9421
F4802	.....	12988	F4870.51	.....	10824	F4913	.....	10600	F4964	.....	9424
F4804	.....	12990	F4872	.....	10828	F4913.5	.....	10594	F4965	.....	9428
F4805	.....	12984	F4873	.....	10832	F4914	.....	10596	F4966	.....	9432
F4812	.....	11064	F4873.6	.....	10836	F4916	.....	10572	F4968	.....	9676
F4815	.....	11062	F4874	.....	10840	F4917	.....	10576	F4968.4	.....	9680
F4815.3	.....	11056	F4876	.....	10804	F4917.5	.....	10578	F4968.6	.....	9684
F4817	.....	11060	F4880	.....	10796	F4918	.....	10580	F4969	.....	9688
F4819	.....	11048	F4881	.....	10800	F4920	.....	10592	F4971	.....	9696
F4819.5	.....	11044	F4882	.....	10784	F4920.2	.....	10588	F4972	.....	9692
F4820	.....	11024	F4883	.....	10780	F4920.4	.....	10584	F4974	.....	9700
F4820.2	.....	11028	F4884	.....	10788	F4920.5	.....	10586	F4974.2	.....	9704
F4820.6	.....	11040	F4884.1	.....	10792	F4921	.....	10574	F4974.6	.....	9708
F4821	.....	11032	F4886	.....	10776	F4922	.....	10524	F4975	.....	9712
F4821.2	.....	11036	F4886.5	.....	10766	F4923	.....	10528	F4975.5	.....	9714
F4821.6	.....	10924	F4887	.....	10768	F4923.3	.....	10526	F4976.2	.....	9716
F4822	.....	10932	F4888	.....	10772	F4924	.....	10532	F4976.6	.....	9734
F4822.4	.....	10928	F4889	.....	10764	F4927.5	.....	10535	F4977	.....	9726
F4823	.....	11008	F4889.2	.....	10762	F4928	.....	10536	F4977.3	.....	9728
F4823.02	.....	11004	F4889.4	.....	10763	F4928.5	.....	10538	F4978	.....	9720
F4823.06	.....	11002	F4890	.....	10760	F4929	.....	10552	F4978.5	.....	9724
F4823.12	.....	11000	F4892.6	.....	10756	F4930	.....	10548	F4979	.....	9730
F4823.2	.....	10996	F4893	.....	10752	F4938.3	.....	10556	F4981	.....	9738
F4823.3	.....	10992	F4894	.....	10748	F4939	.....	10558	F4982	.....	9742
F4823.4	.....	11016	F4896	.....	10736	F4940	.....	10560	F4982.3	.....	9744
F4823.42	.....	11020	F4896.4	.....	10744	F4941	.....	10564	F4982.5	.....	9736
F4824	.....	10936	F4897	.....	10712	F4943	.....	10568	F4983	.....	9746
F4824.5	.....	10937	F4898	.....	10716	F4943.5	.....	10570	F4984	.....	9750
F4825	.....	10960	F4898.6	.....	10708	F4944	.....	9316	F4985	.....	9754
F4825.4	.....	10940	F4898.7	.....	10740	F4945	.....	9312	F4985.5	.....	9756
F4825.5	.....	10944	F4899	.....	10724	F4945.5	.....	9310	F4986	.....	9758
F4826.4	.....	10948	F4899.4	.....	10732	F4946	.....	9308	F4992	.....	11096
F4827	.....	10952	F4899.7	.....	10720	F4946.6	.....	9320	F4994	.....	11100
F4827.4	.....	10956	F4900	.....	10688	F4947	.....	9300	F4994.4	.....	11092
F4828	.....	10964	F4900.2	.....	10704	F4947.04	.....	9304	F4994.6	.....	11088
F4828.2	.....	10968	F4900.7	.....	10696	F4947.06	.....	9321	F4994.7	.....	11084
F4828.6	.....	10971	F4900.8	.....	10700	F4947.08	.....	9322	F4994.8	.....	11112
F4828.7	.....	10972	F4900.94	.....	10692	F4947.09	.....	9338	F4995	.....	11108
F4828.8	.....	10973	F4902	.....	10684	F4947.1	.....	9332	F4996	.....	11104
F4831	.....	10980	F4903	.....	10680	F4947.11	.....	9328	F4996.4	.....	11152
F4831.7	.....	10981	F4903.6	.....	10676	F4947.12	.....	9324	F4997	.....	11160
F4834	.....	10920	F4903.7	.....	10672	F4947.15	.....	9336	F4998	.....	12980
F4835	.....	10916	F4904	.....	10648	F4947.18	.....	9340	F5002	.....	12904
F4836	.....	10912	F4904.2	.....	10650	F4947.19	.....	9341	F5002.4	.....	12900
F4837	.....	10908	F4904.4	.....	10656	F4947.26	.....	9344	F5002.6	.....	12896
F4839	.....	10904	F4904.5	.....	10660	F4947.3	.....	9342	F5002.7	.....	12890
F4840	.....	10900	F4904.6	.....	10644	F4947.4	.....	9348	F5002.8	.....	12892
F4841.5	.....	10899.1	F4904.8	.....	10652	F4947.5	.....	9352	F5003	.....	12976
F4842	.....	10896	F4904.9	.....	10668	F4947.6	.....	9356	F5003.5	.....	12894
F4842.6	.....	10898	F4905	.....	10664	F4947.7	.....	9364	F5004	.....	12880
F4857	.....	10885	F4905.4	.....	10640	F4947.74	.....	9360	F5005	.....	12884
F4857.5	.....	10884	F4906	.....	10632	F4947.8	.....	9368	F5005.4	.....	12888
F4858	.....	10892	F4907	.....	10636	F4947.9	.....	9376	F5005.7	.....	12876
F4860	.....	10876	F4907.5	.....	10638	F4948	.....	9372	F5006	.....	12864
F4860.2	.....	10880	F4908	.....	10624	F4948.4	.....	9380	F5006.4	.....	12868
F4861	.....	10874	F4908.4	.....	10628	F4948.6	.....	9384	F5006.55	.....	12970
F4864	.....	10868	F4908.6	.....	10630	F4950	.....	9388	F5007	.....	12968
F4864.4	.....	10872	F4909	.....	10620	F4951	.....	9392	F5008	.....	12856
F4865	.....	10864	F4909.1	.....	10610	F4953	.....	9396	F5008.2	.....	12862
F4866	.....	10860	F4909.2	.....	10612	F4954	.....	9400	F5008.4	.....	12952
F4866.2	.....	10852	F4909.3	.....	10613	F4954.5	.....	9404	F5008.45	.....	12960
F4866.4	.....	10856	F4909.4	.....	10614	F4955	.....	9408	F5008.5	.....	12964
F4866.8	.....	10844	F4909.6	.....	10616	F4955.5	.....	9412	F5008.6	.....	12956
F4867	.....	10848	F4909.8	.....	10608	F4955.57	.....	9414	F5009	.....	12832
F4870	.....	10808	F4910	.....	10604	F4956	.....	9416	F5009.6	.....	12836

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F5010	.....	12860	F5054	.....	12552	F5106.5	.....	11361	F5141.6	.....	11320
F5010.2	.....	12844	F5056	.....	12536	F5107	.....	11362	F5142	.....	11308
F5010.3	.....	12852	F5056.4	.....	12532	F5107.5	.....	11346	F5142.4	.....	11304
F5010.35	.....	12848	F5056.6	.....	12528	F5109	.....	11360	F5143	.....	11556
F5010.4	.....	12840	F5056.8	.....	12524	F5110	.....	11332	F5143.2	.....	11564
F5010.5	.....	12806	F5056.9	.....	12520	F5110.2	.....	11328	F5143.7	.....	11322
F5010.6	.....	12804	F5057	.....	12512	F5110.4	.....	11348	F5143.8	.....	11416
F5011	.....	12792	F5057.4	.....	12516	F5112	.....	11324	F5143.9	.....	11420
F5011.4	.....	12788	F5057.9	.....	12510	F5114	.....	11356	F5144	.....	11424
F5011.5	.....	12802	F5060	.....	12504	F5117	.....	11352	F5144.4	.....	11428
F5012	.....	12796	F5060.1	.....	12508	F5117.5	.....	11336	F5144.45	.....	11426
F5012.4	.....	12800	F5062	.....	12500	F5118	.....	11344	F5144.5	.....	11436
F5012.8	.....	12786	F5065	.....	12492	F5120	.....	11340	F5145	.....	11440
F5013	.....	12780	F5066	.....	12490	F5126	.....	11368	F5146	.....	11448
F5013.4	.....	12784	F5067	.....	12488	F5126.5	.....	11369	F5146.2	.....	11441
F5014	.....	12776	F5068	.....	12484	F5128	.....	11384	F5146.25	.....	11443.5
F5014.5	.....	12774	F5068.4	.....	12480	F5129	.....	11392	F5146.26	.....	11443.1
F5015	.....	12772	F5069	.....	12476	F5129.05	.....	11394	F5146.27	.....	11440.5
F5015.3	.....	12768	F5069.2	.....	12477	F5129.1	.....	11372	F5146.28	.....	11443
F5016	.....	12724	F5069.4	.....	12472	F5129.15	.....	11376	F5146.4	.....	11444
F5016.4	.....	12740	F5070	.....	12456	F5129.2	.....	11400	F5147	.....	11452
F5017.2	.....	12756	F5070.2	.....	12460	F5129.25	.....	11380	F5147.4	.....	11456
F5017.4	.....	12748	F5070.3	.....	12462	F5129.3	.....	11396	F5148	.....	11460
F5017.5	.....	12750	F5070.5	.....	12468	F5129.4	.....	11404	F5149	.....	11464
F5017.7	.....	12744	F5071	.....	12600	F5129.6	.....	11388	F5149.4	.....	11468
F5017.8	.....	12716	F5072	.....	12608	F5129.7	.....	11389	F5150	.....	11472
F5018	.....	12720	F5073	.....	12604	F5129.8	.....	11390	F5150.4	.....	11476
F5020	.....	12760	F5073.2	.....	12612	F5130	.....	11196	F5150.6	.....	11480
F5021	.....	12730	F5073.3	.....	12614	F5131	.....	11208	F5151	.....	11484
F5022	.....	12732	F5073.4	.....	12616	F5132	.....	11200	F5152	.....	11488
F5024	.....	12736	F5073.6	.....	12622	F5133	.....	11204	F5152.3	.....	11494
F5025	.....	12728	F5073.7	.....	12620	F5134	.....	11212	F5152.5	.....	11500
F5025.5	.....	12729	F5074	.....	12596	F5136.4	.....	11224	F5153	.....	11496
F5026	.....	12764	F5074.6	.....	12590	F5136.7	.....	11228	F5154	.....	11438
F5026.6	.....	12808	F5076	.....	12440	F5137	.....	11232	F5154.4	.....	11492
F5027	.....	12812	F5078	.....	12446	F5137.4	.....	11236	F5154.6	.....	11504
F5027.4	.....	12816	F5078.1	.....	12447	F5137.44	.....	11240	F5154.7	.....	11536
F5027.6	.....	12820	F5080	.....	11068	F5137.48	.....	11242	F5154.8	.....	11508
F5028	.....	12824	F5082	.....	11076	F5137.5	.....	11244	F5155.1	.....	11274
F5028.4	.....	12828	F5083	.....	11072	F5137.6	.....	11256	F5156	.....	11528
F5028.6	.....	12972	F5084	.....	11080	F5137.7	.....	11254	F5157	.....	11532
F5028.8	.....	12974	F5087	.....	11124	F5137.8	.....	11248	F5158	.....	11540
F5029	.....	12948	F5087.5	.....	11126	F5138	.....	11410	F5159	.....	11542
F5029.2	.....	12940	F5088	.....	11120	F5138.4	.....	11412	F5160	.....	11544
F5029.21	.....	12944	F5090	.....	11116	F5138.5	.....	11260	F5162	.....	11548
F5029.4	.....	12936	F5091	.....	11128	F5138.6	.....	11264	F5164	.....	11552
F5029.5	.....	12934	F5092	.....	11156	F5138.8	.....	11268	F5165	.....	11560
F5029.6	.....	12932	F5093	.....	11148	F5138.85	.....	11270	F5167	.....	11588
F5030	.....	12924	F5094	.....	11136	F5138.9	.....	11269	F5168	.....	11592
F5032	.....	12912	F5094.25	.....	11146	F5138.95	.....	11279	F5170	.....	11596
F5033	.....	12916	F5094.3	.....	11138	F5139	.....	11276	F5171	.....	11600
F5033.5	.....	12920	F5094.4	.....	11140	F5139.2	.....	11278	F5172	.....	11604
F5034	.....	12908	F5094.6	.....	11132	F5139.5	.....	11276.5	F5172.4	.....	11608
F5038	.....	12588	F5095	.....	11164	F5140	.....	11280	F5172.7	.....	11612
F5039	.....	12584	F5096	.....	11168	F5140.2	.....	11284	F5173.2	.....	11616
F5040	.....	12582	F5097	.....	11169	F5140.4	.....	11288	F5174	.....	11628
F5042	.....	12580	F5098	.....	11169.1	F5140.5	.....	11292	F5174.4	.....	11632
F5047	.....	12564	F5100	.....	11172	F5140.55	.....	11294	F5175	.....	11636
F5050	.....	12568	F5100.2	.....	11180	F5140.6	.....	11296	F5175.3	.....	11640
F5050.5	.....	12562	F5101	.....	11176	F5140.8	.....	11300	F5175.8	.....	11704
F5051	.....	12556	F5101.4	.....	11364	F5141	.....	11312	F5175.85	.....	11706
F5051.5	.....	12558	F5102	.....	11184	F5141.2	.....	11316	F5175.9	.....	11708
F5052	.....	12544	F5103	.....	11188	F5141.3	.....	11512	F5176.5	.....	11688
F5052.5	.....	12540	F5106	.....	11192	F5141.4	.....	11516	F5176.7	.....	11692
F5053	.....	12548	F5106.2	.....	11363	F5141.5	.....	11520	F5176.8	.....	11696

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F5176.85	.....	11700	F5202.3	.....	11835	F5254.5	.....	12092	F5268	.....	12180
F5177	.....	11660	F5202.5	.....	11833	F5254.6	.....	12096	F5269	.....	12240
F5177.2	.....	11664	F5202.51	.....	11833.1	F5254.8	.....	12100	F5269.02	.....	12232
F5177.22	.....	11698	F5203	.....	11832	F5254.86	.....	12104	F5269.04	.....	12236
F5177.24	.....	11699	F5204	.....	11864	F5254.9	.....	12156	F5269.06	.....	12244
F5177.4	.....	11668	F5207	.....	11840	F5254.91	.....	12157	F5269.2	.....	12256
F5177.41	.....	11672	F5208	.....	11852	F5254.95	.....	12088	F5269.22	.....	12252
F5177.5	.....	11676	F5208.4	.....	11848	F5254.97	.....	12090	F5269.24	.....	12248
F5177.6	.....	11680	F5209	.....	11844	F5255	.....	12108	F5269.3	.....	12254
F5177.8	.....	11684	F5209.2	.....	11859	F5255.05	.....	12118	F5269.5	.....	12260
F5178.5	.....	11656	F5209.5	.....	11860	F5255.1	.....	12124	F5269.55	.....	12262
F5179	.....	11644	F5210	.....	11872	F5255.22	.....	12112	F5269.6	.....	12272
F5179.04	.....	11648	F5211	.....	11900	F5255.23	.....	12120	F5269.62	.....	12268
F5179.1	.....	11652	F5216.1	.....	11880	F5255.24	.....	12116	F5269.7	.....	12264
F5179.2	.....	11624	F5216.2	.....	11884	F5255.3	.....	12136	F5269.8	.....	12280
F5179.6	.....	11620	F5225	.....	11904	F5255.35	.....	12154	F5269.9	.....	12296
F5179.65	.....	11622	F5226	.....	11908	F5255.4	.....	12144	F5269.92	.....	12292
F5179.7	.....	11610	F5230	.....	11912	F5255.5	.....	12152	F5269.94	.....	12288
F5179.75	.....	11609	F5232	.....	11920	F5255.7	.....	12148	F5269.96	.....	12284
F5179.8	.....	11568	F5232.4	.....	11916	F5256	.....	12160	F5270	.....	12304
F5180	.....	11572	F5233	.....	11868	F5257	.....	12168	F5270.15	.....	12286
F5181	.....	11580	F5236	.....	11928	F5257.1	.....	12172	F5270.2	.....	12300
F5182	.....	11576	F5236.5	.....	11924	F5257.4	.....	12176	F5270.3	.....	12312
F5182.2	.....	11709.2	F5238	.....	12004	F5258	.....	12704	F5270.4	.....	12308
F5182.5	.....	11584	F5239	.....	12008	F5259	.....	12624	F5270.6	.....	12328
F5182.8	.....	11709	F5239.1	.....	12000	F5259.2	.....	12628	F5271	.....	12316
F5183	.....	11524	F5239.15	.....	12010	F5259.27	.....	12689	F5272	.....	12320
F5183.2	.....	11709.8	F5239.5	.....	12012	F5259.29	.....	12689.1	F5272.4	.....	12324
F5183.5	.....	11710	F5239.55	.....	12014	F5259.3	.....	12688	F5273	.....	12340
F5184	.....	11712	F5239.6	.....	11994	F5259.32	.....	12630	F5274	.....	12344
F5186	.....	11716	F5239.7	.....	11992	F5259.34	.....	12632	F5274.5	.....	12338
F5187.2	.....	11716.1	F5239.8	.....	11988	F5259.36	.....	12684	F5275	.....	12348
F5187.3	.....	11728	F5240	.....	11984	F5259.38	.....	12636	F5275.2	.....	12346
F5187.4	.....	11732	F5240.4	.....	11960	F5259.4	.....	12660	F5275.4	.....	12352
F5187.5	.....	11730	F5240.43	.....	11964	F5259.45	.....	12638	F5279	.....	12356
F5187.55	.....	11729	F5240.44	.....	11957	F5259.6	.....	12644	F5280	.....	12372
F5187.6	.....	11736	F5240.46	.....	11976	F5259.61	.....	12648	F5282	.....	12360
F5187.64	.....	11752	F5240.48	.....	11956	F5260	.....	12640	F5282.4	.....	12368
F5187.67	.....	11754	F5240.6	.....	11956.5	F5260.4	.....	12664	F5282.5	.....	12364
F5188	.....	11740	F5240.65	.....	11956.7	F5260.8	.....	12670	F5283	.....	12390
F5188.3	.....	11744	F5241	.....	11972	F5261	.....	12668	F5284	.....	12336
F5189	.....	11748	F5242.1	.....	11980	F5261.2	.....	12680	F5284.4	.....	12332
F5189.4	.....	11756	F5242.2	.....	11968	F5261.3	.....	12676	F5285	.....	12416
F5191	.....	11760	F5242.4	.....	12020	F5261.4	.....	12672	F5286	.....	12420
F5191.4	.....	11749	F5242.6	.....	12016	F5261.5	.....	12692	F5288	.....	12392
F5192	.....	11764	F5243	.....	12028	F5261.7	.....	12696	F5289	.....	12396
F5193	.....	11768	F5244	.....	12032	F5261.72	.....	12690	F5289.2	.....	12400
F5193.2	.....	11772	F5245	.....	12024	F5261.74	.....	12700	F5289.8	.....	12404
F5193.3	.....	11776	F5245.5	.....	12034	F5261.8	.....	12698	F5290	.....	12412
F5193.4	.....	11780	F5246	.....	12036	F5261.9	.....	12712	F5291	.....	12408
F5193.42	.....	11784	F5246.5	.....	12038	F5262	.....	12276	F5291.4	.....	12424
F5193.6	.....	11788	F5248	.....	12048	F5263	.....	12452	F5291.5	.....	12428
F5193.7	.....	11800	F5249	.....	12044	F5265	.....	12220	F5291.6	.....	12432
F5193.8	.....	11804	F5250	.....	12052	F5265.4	.....	12192	F5292	.....	12436
F5193.95	.....	11798	F5250.4	.....	12064	F5265.6	.....	12184	F5293	.....	12438
F5194	.....	11792	F5250.6	.....	12040	F5265.65	.....	12188	F5297	.....	9912
F5195	.....	11796	F5250.8	.....	12056	F5265.8	.....	12216	F5300	.....	9888
F5195.5	.....	11808	F5250.9	.....	12060	F5266	.....	12228	F5300.1	.....	9892
F5197	.....	11816	F5251	.....	12076	F5266.2	.....	12224	F5301	.....	9896
F5198.4	.....	11820	F5251.5	.....	12075	F5266.3	.....	12208	F5301.1	.....	9900
F5198.8	.....	11812	F5252	.....	12072	F5266.35	.....	12212	F5302	.....	9880
F5199	.....	11828	F5253	.....	12068	F5266.4	.....	12204	F5306	.....	9774
F5200	.....	11826	F5253.2	.....	12070	F5266.45	.....	12193.5	F5312	.....	9766
F5201	.....	11836	F5253.4	.....	12080	F5266.5	.....	12194	F5322	.....	1548
F5202	.....	11834	F5254	.....	12084	F5267	.....	12196	F5323	.....	1550

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F5324	—	9962	F5393	—	9588	F5435	—	9236	F5486	—	8648
F5324.4	—	9962.2	F5394	—	9584	F5436	—	9128	F5487	—	8640
F5324.5	—	9962.4	F5394.5	—	9580	F5437	—	8812	F5488	—	8644
F5324.7	—	9962.6	F5396	—	9577	F5439	—	8810	F5488.5	—	8645
F5324.8	—	9962.8	F5397	—	9574	F5439.4	—	8808	F5490	—	8636
F5326	—	9952	F5397.5	—	9512.3	F5439.8	—	8806	F5492	—	8604
F5327	—	9956	F5398.5	—	9512	F5441	—	8804	F5494	—	8608
F5327.2	—	9954	F5399	—	9516	F5442	—	8800	F5495	—	8612
F5327.6	—	9953	F5400	—	9520	F5444	—	8796	F5496	—	8616
F5328	—	9960	F5400.3	—	9532	F5445	—	8896	F5497	—	8600
F5329	—	1544	F5400.4	—	9528	F5446	—	8790	F5497.6	—	8596
F5330	—	1540	F5400.5	—	9524	F5447	—	8792	F5497.7	—	8736
F5332	—	9948	F5400.8	—	9568	F5448	—	8788	F5498	—	8592
F5334	—	9944	F5400.81	—	9572	F5450	—	8772	F5499	—	8376
F5334.2	—	9946	F5401	—	9556	F5451	—	8768	F5499.9	—	8380.5
F5334.5	—	9942	F5401.6	—	9544	F5452	—	8764	F5500	—	8380
F5335.2	—	9924.5	F5402	—	9540	F5454	—	8760	F5500.5	—	8386
F5335.4	—	9928	F5402.5	—	9548	F5456	—	8716	F5501	—	8372
F5335.6	—	9920	F5402.51	—	9552	F5456.1	—	8720	F5502	—	8252
F5336	—	9940	F5404	—	9536	F5458	—	8744	F5502.5	—	8264
F5337	—	9932	F5404.4	—	9508	F5458.5	—	8708	F5502.7	—	8268
F5337.1	—	9936	F5404.5	—	9496	F5459.3	—	8748	F5503	—	8248
F5338.4	—	9864	F5404.7	—	9500	F5459.4	—	8752	F5503.5	—	8244
F5339	—	9860	F5404.8	—	9504	F5459.44	—	8756	F5504	—	8240
F5340	—	9836	F5405	—	9488	F5460	—	8732	F5504.5	—	8236
F5340.1	—	9840	F5405.2	—	9494	F5461	—	8740	F5505	—	8260
F5340.3	—	9820	F5405.4	—	9492	F5462	—	8724	F5506	—	8232
F5340.31	—	9824	F5406	—	9484	F5463	—	8728	F5507	—	8228
F5340.6	—	9804	F5406.2	—	9486	F5464	—	8712	F5507.5	—	8310
F5340.61	—	9808	F5406.5	—	9472	F5467	—	8700	F5508	—	8368
F5343	—	9872	F5406.55	—	9474	F5468	—	8704	F5509	—	8364
F5343.4	—	9876	F5406.7	—	9476	F5470	—	8692	F5512	—	8356
F5343.7	—	9868	F5406.8	—	9480	F5470.3	—	8696	F5514	—	8352
F5344	—	9848	F5407	—	9464	F5470.5	—	8688	F5515	—	8348
F5344.1	—	9852	F5407.4	—	9460	F5470.6	—	8687	F5518	—	8344
F5345	—	9844	F5408	—	9456	F5470.7	—	8676	F5520.8	—	8340
F5347	—	9816	F5408.5	—	9468	F5470.71	—	8680	F5524	—	8320
F5348	—	9800	F5409	—	9444	F5471	—	8672	F5525	—	8324
F5351	—	9794	F5409.1	—	9448	F5472	—	8656	F5525.1	—	8328
F5352	—	9788	F5409.4	—	9452	F5473	—	8660	F5527	—	8336
F5353	—	9786	F5410	—	9232	F5474	—	8668	F5530	—	8332
F5354	—	9790	F5412	—	9164	F5474.2	—	8664	F5533	—	8216
F5355.2	—	9792	F5413	—	9228	F5474.8	—	8682	F5534	—	8220
F5356	—	9778	F5414	—	9160	F5475	—	8684	F5535	—	8212
F5356.1	—	9782	F5415	—	9224	F5475.2	—	8686.5	F5536	—	8208
F5358	—	9770	F5418	—	9156	F5475.5	—	8654	F5538	—	8144
F5360	—	9762	F5418.5	—	9152	F5475.7	—	8542, 8686	F5538.6	—	8152
F5366	—	9672	F5424	—	9296	F5476	—	8564	F5538.7	—	8150
F5372	—	9668	F5426	—	9292	F5477	—	8568	F5539	—	8160
F5376	—	9664	F5427	—	9288	F5477.5	—	8577	F5539.2	—	8156
F5380	—	9656	F5427.5	—	9284	F5478	—	8572	F5539.25	—	8155
F5380.1	—	9660	F5427.8	—	9280	F5479	—	8576	F5539.5	—	8206
F5382	—	9640	F5428	—	9272	F5479.5	—	8582	F5539.6	—	8205
F5386	—	9636	F5429	—	9276	F5480	—	8584	F5540	—	8204
F5387	—	9648	F5430	—	9270	F5480.4	—	8588	F5540.6	—	8196
F5387.3	—	9652	F5430.5	—	9268	F5481	—	8580	F5540.8	—	8164
F5387.5	—	9632	F5431	—	9264	F5481.5	—	8578	F5540.9	—	8168
F5388	—	9628	F5432	—	9260	F5482	—	8384	F5541	—	8172
F5389	—	9624	F5432.6	—	9252	F5482.5	—	8628	F5541.6	—	8176
F5390	—	9608	F5432.8	—	9256	F5482.6	—	8632	F5542.12	—	8188
F5390.4	—	9612	F5432.9	—	9246	F5483	—	8624	F5545	—	8136
F5390.45	—	9616	F5432.95	—	9247	F5484	—	8620	F5545.6	—	8128
F5390.6	—	9604	F5433	—	9248	F5484.4	—	8653	F5546	—	8132
F5391.4	—	9596	F5433.8	—	9240	F5484.6	—	8647	F5546.5	—	8124
F5392	—	9592	F5434	—	9244	F5485	—	8652	F5546.8	—	8120

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F5547	.....	7916	F5577	.....	7052	F5596.6	.....	10208	F5615.6	.....	10424
F5547.4	.....	7920	F5577.06	.....	9964	F5596.7	.....	10210	F5616	.....	10416
F5547.5	.....	7912	F5577.1	.....	9983	F5597	.....	10212	F5616.2	.....	10368
F5547.55	.....	7904	F5577.15	.....	9984	F5598	.....	10224	F5616.4	.....	10360
F5547.6	.....	7908	F5577.2	.....	9988	F5598.1	.....	10216	F5618	.....	10356
F5547.8	.....	7900	F5578	.....	9996	F5598.15	.....	10220	F5618.2	.....	10358
F5548	.....	7896	F5578.5	.....	10000	F5598.25	.....	10234	F5619	.....	10344
F5548.2	.....	7932	F5578.6	.....	10012	F5598.3	.....	10228	F5619.2	.....	10348
F5549	.....	7928	F5578.8	.....	10004	F5598.5	.....	10252	F5619.4	.....	10412
F5549.2	.....	7924	F5579	.....	10008	F5598.7	.....	10256	F5620	.....	10408
F5549.3	.....	7922	F5579.4	.....	10016	F5599	.....	10236	F5621	.....	10352
F5549.5	.....	8033	F5579.6	.....	10024	F5599.2	.....	10240	F5621.4	.....	10404
F5549.55	.....	8034	F5579.7	.....	10028	F5599.3	.....	10248	F5622	.....	10400
F5549.6	.....	8032	F5581	.....	10032	F5599.4	.....	10244	F5622.4	.....	10392
F5549.7	.....	8030	F5581.1	.....	10036	F5599.6	.....	10246	F5622.5	.....	10396
F5549.9	.....	8119	F5581.2	.....	10040	F5600	.....	10260	F5622.7	.....	10388
F5549.95	.....	8031.5	F5581.4	.....	10044	F5600.2	.....	10258	F5623	.....	10372
F5550	.....	8031	F5581.6	.....	10048	F5601	.....	10264	F5623.4	.....	10376
F5550.2	.....	8024	F5581.8	.....	10052	F5601.3	.....	10266	F5623.5	.....	10378
F5550.3	.....	8028	F5584	.....	10056	F5601.6	.....	10276	F5623.6	.....	10380
F5550.5	.....	8008	F5584.3	.....	10060	F5601.7	.....	10273	F5624.5	.....	10384
F5550.6	.....	8016	F5585	.....	10064	F5601.8	.....	10272	F5625	.....	10466
F5550.7	.....	8012	F5585.3	.....	10065	F5601.9	.....	10270	F5625.2	.....	10465.5
F5550.8	.....	8004	F5585.5	.....	10068	F5602	.....	10284	F5625.6	.....	10465
F5550.85	.....	8000	F5585.6	.....	10072	F5602.4	.....	10286	F5626	.....	9436
F5550.9	.....	7996	F5585.65	.....	10066	F5603	.....	10288	F5626.2	.....	9440
F5551	.....	7994	F5585.7	.....	10080	F5604	.....	10296	F5627	.....	9220
F5551.3	.....	7988	F5585.8	.....	10076	F5605	.....	10304	F5628	.....	9216
F5551.5	.....	7168	F5586	.....	10084	F5606	.....	10308	F5632	.....	9120
F5551.6	.....	7162, 7988.5	F5587	.....	10088	F5607	.....	10300	F5634	.....	9124
F5551.75	.....	7164	F5587.2	.....	10092	F5607.3	.....	10292	F5634.5	.....	9116
F5551.8	.....	7144	F5587.3	.....	10096	F5607.5	.....	10310	F5636	.....	9112
F5552	.....	7148	F5587.4	.....	10098	F5608	.....	10312	F5638	.....	9110
F5552.4	.....	7152	F5589	.....	10100	F5608.4	.....	10316	F5639	.....	9212
F5552.41	.....	7156	F5590	.....	10104	F5608.7	.....	10320	F5639.2	.....	9210
F5552.5	.....	7158	F5591	.....	10108	F5609	.....	10340	F5639.4	.....	9208
F5552.6	.....	7160	F5592.2	.....	10112	F5609.5	.....	10336	F5640	.....	9200
F5553	.....	7136	F5592.3	.....	10116	F5609.7	.....	10328	F5641	.....	9202
F5553.4	.....	7140	F5592.4	.....	10118	F5610	.....	10332	F5642	.....	9204
F5554	.....	7132	F5592.5	.....	10120	F5610.12	.....	10324	F5644	.....	9148
F5555	.....	7088	F5592.55	.....	10124	F5610.17	.....	10330	F5644.4	.....	9144
F5555.4	.....	7084	F5592.6	.....	10128	F5610.2	.....	10520	F5645	.....	9140
F5556	.....	7120	F5592.8	.....	10132	F5610.4	.....	10516	F5645.4	.....	9192
F5557	.....	7118	F5593	.....	10136	F5610.5	.....	10512	F5645.6	.....	9196
F5559	.....	7116	F5593.2	.....	10140	F5611	.....	10504	F5646	.....	9188
F5560	.....	7112	F5593.3	.....	10142	F5611.2	.....	10508	F5646.5	.....	9184
F5561	.....	7104	F5593.4	.....	10144	F5611.3	.....	10500	F5646.7	.....	9186
F5562	.....	7108	F5593.5	.....	10148	F5611.4	.....	10496	F5647	.....	9168
F5564	.....	7092	F5594	.....	10152	F5612	.....	10492	F5649	.....	9172
F5565	.....	7096	F5594.8	.....	10160	F5612.1	.....	10488	F5650	.....	9176
F5565.4	.....	7100	F5595	.....	10156	F5612.14	.....	10484	F5651	.....	9180
F5568	.....	7080	F5595.2	.....	10150	F5612.2	.....	10480	F5651.2	.....	8902
F5570	.....	7184	F5595.25	.....	10151	F5612.3	.....	10476	F5651.3	.....	8900
F5570.2	.....	7188	F5595.3	.....	10154	F5612.5	.....	10472	F5651.6	.....	9136
F5570.5	.....	7192	F5595.6	.....	10172	F5613	.....	10468	F5651.7	.....	9132
F5570.8	.....	7078	F5595.7	.....	10176	F5614	.....	10456	F5651.75	.....	9130
F5571	.....	7076	F5595.74	.....	10180	F5614.1	.....	10452	F5651.8	.....	8780
F5572	.....	7072	F5595.8	.....	10184	F5614.2	.....	10444	F5652	.....	8776
F5572.5	.....	7066	F5596.2	.....	10192	F5614.3	.....	10448	F5652.5	.....	8778
F5574	.....	7068	F5596.25	.....	10190	F5614.34	.....	10440	F5653	.....	8784
F5575	.....	7064	F5596.3	.....	10188	F5614.4	.....	10420	F5654	.....	8904
F5575.4	.....	7060	F5596.4	.....	10196	F5614.5	.....	10436	F5654.5	.....	8914
F5575.6	.....	7056	F5596.44	.....	10200	F5614.8	.....	10432	F5655	.....	8912
F5576	.....	7044	F5596.46	.....	10198	F5614.9	.....	10430	F5656	.....	8908
F5576.4	.....	7048	F5596.5	.....	10204	F5615	.....	10428	F5657	.....	9108

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F5658	.....	9100	F5697.1	.....	8852	F5729.81	.....	8400	F5756.61	.....	7796
F5659	.....	9104	F5697.2	.....	8856	F5730	.....	8392	F5756.7	.....	7780
F5660	.....	9102	F5697.4	.....	8860	F5731	.....	8388	F5756.8	.....	7784
F5662	.....	8920	F5697.5	.....	8840	F5731.2	.....	8388.5	F5757	.....	7892
F5663	.....	9096	F5697.6	.....	8844	F5731.4	.....	8316	F5757.3	.....	7888
F5664	.....	8916	F5697.7	.....	8846	F5731.7	.....	8312	F5757.4	.....	7884
F5664.4	.....	9092	F5697.8	.....	8880	F5731.8	.....	8308	F5757.41	.....	7880.5
F5664.7	.....	9088	F5697.9	.....	8834	F5731.85	.....	8306	F5757.45	.....	7885
F5665.5	.....	9080	F5698	.....	8836	F5731.9	.....	8304	F5757.5	.....	7886
F5666	.....	9076	F5698.4	.....	8828	F5732	.....	8300	F5757.6	.....	7880
F5666.5	.....	9072	F5699	.....	8832	F5732.02	.....	8296	F5757.8	.....	7872
F5667	.....	8960	F5699.4	.....	8830	F5732.04	.....	8288	F5757.9	.....	7876
F5668	.....	8924	F5700	.....	8524	F5732.08	.....	8292	F5758	.....	7868
F5669	.....	8956	F5700.5	.....	8746	F5732.11	.....	8294	F5758.4	.....	7864
F5670	.....	8958	F5702	.....	8520	F5732.15	.....	8284	F5759.6	.....	7776
F5671	.....	8952	F5703	.....	8516	F5732.17	.....	8181	F5759.7	.....	7772
F5675.4	.....	8948	F5704	.....	8508	F5732.18	.....	8282	F5760	.....	7768
F5675.7	.....	8944	F5706	.....	8512	F5732.2	.....	8274	F5761	.....	7764
F5676	.....	9048	F5708	.....	8820	F5732.3	.....	8280	F5762	.....	7752
F5676.4	.....	9044	F5709	.....	8822	F5732.7	.....	8276	F5763.3	.....	7790
F5677	.....	9040	F5710	.....	8816	F5733	.....	8272	F5763.5	.....	7756
F5677.2	.....	8932	F5710.6	.....	8824	F5734	.....	8256	F5763.6	.....	7760
F5677.4	.....	8928	F5710.8	.....	8528	F5735	.....	8118	F5764	.....	7748
F5678	.....	8936	F5711.2	.....	8536	F5737	.....	8114	F5764.6	.....	7740
F5678.4	.....	8940	F5711.4	.....	8540	F5737.5	.....	8110	F5764.8	.....	7744
F5678.6	.....	8977	F5711.5	.....	8544	F5737.7	.....	8102	F5766	.....	7732
F5679	.....	8964	F5711.6	.....	8548	F5737.8	.....	8106	F5766.3	.....	7728
F5680	.....	8980	F5711.8	.....	8550	F5738	.....	8098	F5766.5	.....	7736
F5680.4	.....	8988	F5712	.....	8504	F5739	.....	8086	F5767	.....	7726
F5680.6	.....	8968	F5713	.....	8500	F5740	.....	8082	F5768	.....	7860
F5680.8	.....	8972	F5714	.....	8496	F5741.7	.....	8072	F5769	.....	7724
F5680.9	.....	8976	F5715	.....	8492	F5743	.....	8078	F5770	.....	7716
F5680.95	.....	8978	F5715.5	.....	8490	F5744	.....	8090	F5771	.....	7720
F5681	.....	8984	F5716	.....	8488	F5746	.....	8094	F5771.6	.....	7712
F5681.2	.....	9036	F5717.4	.....	8484	F5747	.....	8074	F5772	.....	7708
F5683	.....	9028	F5718	.....	8480	F5747.6	.....	8064	F5772.5	.....	7704
F5684	.....	9024	F5719	.....	8476	F5748	.....	8070	F5773	.....	7700
F5684.2	.....	9023	F5719.5	.....	8478	F5748.3	.....	8060	F5774	.....	7684
F5684.4	.....	9023.5	F5720	.....	8472	F5748.5	.....	8058	F5774.4	.....	7680
F5685	.....	9022	F5721	.....	8526	F5748.6	.....	8040	F5775	.....	7692
F5686	.....	9020	F5722	.....	8452	F5749	.....	8048	F5776	.....	7688
F5687	.....	9004	F5723	.....	8456	F5750	.....	8044	F5781	.....	7672
F5687.1	.....	9005	F5723.3	.....	8474	F5751	.....	8052	F5782	.....	7668
F5687.4	.....	9012	F5723.4	.....	8458	F5751.2	.....	8056	F5782.6	.....	7664
F5687.5	.....	9008	F5723.7	.....	8450.5	F5751.4	.....	8036	F5782.8	.....	7666
F5688.4	.....	8994	F5724	.....	8468	F5751.5	.....	8038	F5783	.....	7652
F5689	.....	8992	F5724.2	.....	8552	F5751.6	.....	7856	F5784	.....	7660
F5690	.....	9000	F5724.4	.....	8464	F5751.8	.....	7848	F5785	.....	7656
F5691	.....	8996	F5724.6	.....	8560	F5752	.....	7852	F5796	.....	7648
F5692	.....	9052	F5724.8	.....	8556	F5752.2	.....	7844	F5797	.....	7936
F5692.5	.....	9050	F5724.9	.....	8450	F5752.4	.....	7840	F5798.4	.....	7940
F5692.7	.....	9054	F5725	.....	8444	F5753	.....	7836	F5798.6	.....	7944
F5693	.....	9056	F5725.4	.....	8448	F5753.3	.....	7832	F5798.8	.....	7946
F5694	.....	9060	F5726	.....	8440	F5754	.....	7828	F5799	.....	7948
F5694.1	.....	9064	F5727	.....	8436	F5754.5	.....	7824	F5799.5	.....	7956
F5694.5	.....	9068	F5728	.....	8460	F5754.7	.....	7822	F5800	.....	7952
F5695	.....	8888	F5728.5	.....	8424	F5754.85	.....	7826	F5802	.....	7960
F5695.4	.....	8884	F5728.7	.....	8428	F5755	.....	7820	F5803	.....	7964
F5695.5	.....	8886	F5729	.....	8420	F5755.3	.....	7816	F5804	.....	7968
F5695.6	.....	8876	F5729.4	.....	8412	F5755.6	.....	7800	F5806	.....	7972
F5695.7	.....	8872	F5729.5	.....	8410	F5756	.....	7804	F5809	.....	7980
F5695.8	.....	8868	F5729.6	.....	8416	F5756.1	.....	7806	F5809.2	.....	7976
F5696	.....	8892	F5729.7	.....	8404	F5756.2	.....	7808	F5811	.....	7984
F5696.4	.....	8864	F5729.71	.....	8408	F5756.21	.....	7812	F5811.4	.....	7172
F5697	.....	8848	F5729.8	.....	8396	F5756.6	.....	7792	F5812	.....	7176

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F5814	.....	7180	F5939	.....	7312	F5967.84	.....	6956	F6002	.....	6716
F5814.2	.....	7182	F5939.4	.....	7316	F5967.9	.....	6954	F6003	.....	6708
F5814.25	.....	7183	F5939.6	.....	7310	F5968	.....	6952	F6003.4	.....	6712
F5814.3	.....	7196	F5939.7	.....	7296	F5968.3	.....	6948	F6004	.....	6700
F5814.6	.....	7516	F5939.8	.....	7292	F5968.4	.....	6950	F6006	.....	6704
F5815	.....	7520	F5940	.....	7304	F5968.5	.....	6946	F6006.8	.....	6696
F5815.5	.....	7524	F5945	.....	7308	F5968.6	.....	6944	F6007	.....	6688
F5816	.....	7528	F5950	.....	7284	F5969.08	.....	6932	F6007.1	.....	6692
F5818.4	.....	7536	F5951	.....	7288	F5969.2	.....	6924	F6007.2	.....	6684
F5819.5	.....	7548	F5952	.....	7289	F5969.21	.....	6928	F6007.3	.....	6682
F5821	.....	7592	F5952.1	.....	7289.1	F5969.3	.....	6936	F6007.35	.....	6681
F5822	.....	7596	F5953	.....	7280	F5969.31	.....	6940	F6007.4	.....	6680
F5822.12	.....	7600	F5953.6	.....	7272	F5969.4	.....	6912	F6007.5	.....	6678
F5822.16	.....	7604	F5953.7	.....	7271.9	F5969.6	.....	6904	F6008	.....	6644
F5822.22	.....	7610	F5953.75	.....	7271.95	F5969.7	.....	6908	F6008.5	.....	6640
F5822.3	.....	7612	F5954	.....	7271	F5970	.....	6900	F6008.7	.....	6636
F5822.4	.....	7616	F5955	.....	7260	F5974	.....	6888	F6009	.....	6632
F5822.5	.....	7618	F5955.04	.....	7264	F5974.5	.....	6892	F6009.2	.....	6628
F5822.6	.....	7620	F5955.06	.....	7250	F5975	.....	6896	F6009.5	.....	6652
F5822.8	.....	7624	F5955.2	.....	7268	F5977	.....	6884	F6009.54	.....	6656
F5823	.....	7626	F5955.3	.....	7242	F5977.4	.....	6880	F6009.6	.....	6648
F5828	.....	7628	F5955.5	.....	7248	F5977.6	.....	6840	F6009.64	.....	6660
F5829	.....	7632	F5956.2	.....	7244	F5977.7	.....	6836	F6009.7	.....	6664
F5834	.....	7640	F5956.25	.....	7256	F5978	.....	6832	F6010	.....	6668
F5834.2	.....	7644	F5956.4	.....	7252	F5979	.....	6828	F6010.2	.....	6672
F5836	.....	7650	F5957.2	.....	7240	F5980	.....	6844	F6010.3	.....	6676
F5836.2	.....	7650.5	F5957.4	.....	7236	F5980.4	.....	6852	F6010.4	.....	6624
F5836.4	.....	7651	F5957.5	.....	7234	F5980.61	.....	6860	F6011	.....	6620
F5836.6	.....	7651.5	F5957.52	.....	7235	F5980.8	.....	6858	F6012	.....	6580
F5838.6	.....	7504	F5957.6	.....	7239	F5980.9	.....	6848	F6013	.....	6588
F5838.7	.....	7508	F5957.61	.....	7233	F5981	.....	6864	F6014	.....	6616
F5840	.....	7500	F5957.64	.....	7233.5	F5981.1	.....	6868	F6015	.....	6612
F5843	.....	7492	F5957.65	.....	7238	F5981.6	.....	6872	F6016	.....	6604
F5843.1	.....	7494	F5957.69	.....	7230.3	F5981.7	.....	6850	F6017	.....	6608
F5843.2	.....	7491	F5957.7	.....	7228, 7230.6	F5981.8	.....	6876	F6019	.....	6596
F5843.4	.....	7496	F5957.8	.....	7229	F5984	.....	6824	F6020	.....	6600
F5844	.....	7488	F5958	.....	7212	F5986	.....	6820	F6021	.....	6592
F5848	.....	7482	F5958.2	.....	7224	F5987	.....	6816	F6021.5	.....	6584
F5852	.....	7476	F5959	.....	7204	F5988	.....	6808	F6022	.....	6548
F5854	.....	7408	F5960	.....	7200	F5988.4	.....	6812	F6022.2	.....	6568
F5857	.....	7472	F5960.4	.....	7208	F5989	.....	6804	F6022.4	.....	6560
F5857.5	.....	7472.5	F5960.5	.....	7206	F5990	.....	6802	F6022.5	.....	6564
F5860	.....	7464	F5961	.....	7040	F5991	.....	6788	F6022.7	.....	6558
F5861	.....	7460	F5961.6	.....	7036	F5991.1	.....	6792	F6023	.....	6576
F5862	.....	7456	F5961.8	.....	7034	F5992	.....	6796	F6023.5	.....	6572
F5865	.....	7414	F5962.4	.....	7024	F5992.1	.....	6800	F6023.8	.....	6544
F5866	.....	7416	F5963	.....	7028	F5994	.....	6776	F6024	.....	6552
F5866.3	.....	7420	F5964	.....	7032	F5995	.....	6768	F6024.8	.....	6540
F5867	.....	7424	F5965	.....	7018	F5995.6	.....	6772	F6025	.....	6524
F5867.2	.....	7428	F5965.05	.....	7016	F5995.8	.....	6764	F6025.4	.....	6536
F5868	.....	7452	F5965.12	.....	7012	F5996	.....	6780	F6025.6	.....	6528
F5870	.....	7436	F5965.2	.....	7008	F5996.05	.....	6740	F6025.7	.....	6537
F5872	.....	7448	F5966	.....	7000	F5996.2	.....	6736	F6025.8	.....	6532
F5886	.....	7404	F5966.2	.....	7004	F5996.4	.....	6748	F6026.3	.....	6520
F5894	.....	7384	F5966.5	.....	6980	F5996.5	.....	6750	F6026.35	.....	6522
F5899	.....	7400	F5966.62	.....	6976	F5997	.....	6744	F6026.4	.....	6516
F5899.2	.....	7430	F5966.8	.....	6988	F5997.2	.....	6784	F6026.5	.....	6508
F5899.3	.....	7402	F5967	.....	6984	F5997.3	.....	6752	F6027	.....	6512
F5899.5	.....	7398	F5967.2	.....	6992	F5997.6	.....	6760	F6027.15	.....	6500
F5906	.....	7332	F5967.3	.....	6996	F5998	.....	6756	F6027.17	.....	6504
F5907	.....	7336	F5967.35	.....	6972	F5999	.....	6742	F6027.2	.....	6496
F5920	.....	7344	F5967.4	.....	6968	F6000	.....	6732	F6027.4	.....	6492
F5928	.....	7352	F5967.5	.....	6964	F6001	.....	6724	F6027.5	.....	6488
F5930	.....	7356	F5967.8	.....	6960	F6001.1	.....	6728	F6027.6	.....	6484
F5932	.....	7348	F5967.82	.....	6958	F6001.5	.....	6720	F6028	.....	6476

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F6031	6452	F6063.4	6296	F6160.3	6055	F6228	—	5778			
F6032	6448	F6063.5	6294	F6160.5	6050	F6230	—	5780			
F6032.2	6456	F6063.6	6264	F6160.6	6056	F6233	—	5774			
F6032.3	6464	F6064	6268	F6161	6076	F6234	—	5772			
F6032.4	6460	F6066	6260	F6161.3	6080	F6234.5	—	5770			
F6032.5	6468	F6073.5	6254	F6161.4	6084	F6234.7	—	5768			
F6032.6	6472	F6074	6252	F6161.5	6008	F6234.8	—	5764			
F6032.7	6420	F6080	6232	F6161.6	6044	F6234.9	—	5766			
F6033	6440	F6080.2	6248	F6161.7	6048	F6235	—	5760			
F6033.2	6444	F6081	6236	F6161.8	6040	F6235.1	—	5762			
F6033.3	6424	F6081.2	6240	F6161.9	6006	F6235.5	—	5756			
F6033.31	6428	F6081.4	6228	F6162	6000	F6236	—	5752			
F6033.32	6432	F6082	6224	F6162.3	6004	F6236.2	—	5754			
F6033.42	6436	F6084	6220	F6163	5984	F6236.3	—	5753			
F6033.46	6416	F6085	6222	F6163.4	5972	F6237	—	5748			
F6033.5	6412	F6087	6212	F6163.5	5976	F6238	—	5746			
F6033.6	6414	F6093	6208	F6163.6	5988	F6239	—	5744			
F6033.7	6408	F6093.5	6210	F6164	5980	F6239.4	—	5736			
F6033.8	6404	F6093.6	6209	F6164.4	5992	F6239.5	—	5740			
F6034.2	6396	F6094	6204	F6178	5968	F6240	—	5728			
F6034.5	6400	F6094.4	6200	F6180	5964	F6241	—	5732			
F6035	6392	F6095	6196	F6192.3	5962	F6244	—	5724			
F6035.2	6394	F6095.6	6140	F6193	5960	F6244.5	—	5726			
F6036	6384	F6095.62	6140.21	F6194.2	5944	F6248	—	5708			
F6036.3	6307	F6095.63	6140.22	F6194.4	5948	F6248.4	—	5704			
F6036.4	6380	F6095.64	6140.31	F6194.5	5952	F6249	—	5700			
F6038	6376	F6095.65	6140.32	F6194.7	5940	F6249.4	—	5692			
F6042	6356	F6096	6192	F6195	5936	F6249.5	—	5696			
F6042.25	6374	F6097	6164	F6195.4	5932	F6251	—	5672			
F6042.4	6362	F6097.2	6168	F6195.6	5920	F6253	—	5676			
F6042.46	6352, 6364	F6097.4	6172	F6196	5928	F6253.2	—	5680			
F6042.6	6368	F6097.6	6184	F6196.4	5916	F6253.4	—	5684			
F6044	6372	F6098	6176	F6196.5	5924	F6255	—	5688			
F6044.5	6360	F6099	6180	F6196.54	5926	F6262	—	5716			
F6045	6344	F6104	6188	F6196.6	5908	F6262.1	—	5720			
F6045.2	6348	F6110	6160	F6196.7	5912	F6263	—	5668			
F6046	6336	F6110.1	6161	F6197	5900	F6264	—	5624			
F6046.3	6340	F6110.12	6161.1	F6197.2	5904	F6264.2	—	5628			
F6047	6332	F6110.15	6162	F6197.6	5896	F6265	—	5632			
F6047.2	6330	F6110.16	6162.1	F6198	5888	F6265.1	—	5636			
F6047.4	6300	F6111	6152	F6199	5884	F6266	—	5640			
F6047.6	6288	F6112	6156	F6200	5880	F6266.4	—	5644			
F6047.8	6304	F6113	6144	F6201	5876	F6267.4	—	5652			
F6048	6328	F6133	6136	F6201.5	5870	F6267.5	—	5648			
F6048.5	6320	F6135	6132	F6201.8	5866	F6267.6	—	5656			
F6049	6324	F6136	6128	F6202	5868	F6267.64	—	5660			
F6050	6276	F6137	6124	F6204	5864	F6267.68	—	5662			
F6050.1	6280	F6138	6120	F6206	5860	F6267.69	—	5663			
F6050.3	6284	F6138.5	6116	F6207	5858	F6267.7	—	5664			
F6050.8	6272	F6138.6	6110.9	F6208	5874	F6268.2	—	5616			
F6051	5824	F6139	6112	F6208.7	5875	F6268.4	—	5620			
F6051.3	5832	F6141	6110	F6209.5	5873	F6268.8	—	5612			
F6051.5	5822	F6144	6108	F6210	5872	F6268.9	—	5608			
F6052	5812	F6146	6104	F6216	5852	F6269	—	5604			
F6053	5816	F6156	6096	F6216.4	5856	F6269.2	—	5600			
F6053.4	5820	F6156.5	6100	F6217	5844	F6269.22	—	5602			
F6055	6072	F6158.2	6088	F6217.4	5848	F6269.24	—	5596			
F6055.5	5836	F6158.5	6092	F6218.5	5810	F6269.27	—	5592			
F6056	6064	F6159	6036	F6219	5800	F6269.3	—	5588			
F6057.5	6060	F6159.2	6032	F6221	5804	F6269.5	—	5584			
F6057.8	6308	F6159.3	6028	F6221.2	5808	F6269.6	—	5580			
F6058	6312	F6159.4	6016	F6223	5796	F6270	—	5572			
F6059	6316	F6159.5	6024	F6224	5792	F6270.4	—	5576			
F6062	6256	F6160	6012	F6225	5790	F6272	—	5556			
F6063	6292	F6160.2	6020	F6226	5784	F6272.5	—	5558			

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F6272.8	—	5562	F6340	—	5396	F6427.4	—	5276	F6470	—	4836
F6273	—	5560	F6340.5	—	5394	F6427.6	—	5280	F6470.1	—	4844
F6273.5	—	5552	F6342	—	5384	F6427.8	—	5284	F6470.14	—	4840
F6274	—	5564	F6343	—	5368	F6428	—	5292	F6470.2	—	4828
F6274.4	—	5568	F6344	—	5372	F6429	—	5288	F6470.3	—	4832
F6274.8	—	5566	F6345	—	5376	F6430	—	5304	F6470.7	—	4824
F6275	—	4924	F6347	—	5364	F6430.5	—	5301	F6470.8	—	4826
F6275.5	—	4922	F6349	—	5380	F6431	—	5296	F6470.9	—	4818
F6276	—	4920	F6354	—	5044	F6432	—	5300	F6471	—	4816
F6276.1	—	4928	F6354.3	—	5048	F6433	—	5308	F6471.03	—	4812
F6276.2	—	4936	F6354.4	—	5050	F6433.6	—	5312	F6471.1	—	4804
F6276.3	—	4938	F6355	—	5056	F6434.2	—	5316	F6472	—	4800
F6276.4	—	4932	F6356.4	—	5060	F6434.5	—	5320	F6477	—	4796
F6276.6	—	4939	F6358	—	5064	F6434.67	—	5356	F6478	—	4780
F6277	—	4952	F6358.1	—	5068	F6434.9	—	5340	F6478.4	—	4784
F6277.4	—	4956	F6359	—	5072	F6434.95	—	5336	F6479	—	4788
F6278.1	—	4948	F6359.5	—	5055	F6435	—	5332	F6482	—	4752
F6278.5	—	4950	F6360	—	5076	F6439.4	—	5116	F6482.2	—	4768
F6279.6	—	4940	F6361	—	5084	F6439.41	—	5120	F6482.4	—	4764
F6280	—	5488	F6362	—	5080	F6440	—	5124	F6483	—	4756
F6281	—	5484	F6366	—	5088	F6440.4	—	5110	F6483.4	—	4760
F6281.1	—	5492	F6368	—	5092	F6440.6	—	5108	F6491	—	4776
F6281.2	—	5496	F6372	—	5132	F6441	—	5096	F6491.2	—	4748
F6281.7	—	5486	F6376	—	5128	F6442	—	5100	F6491.4	—	4750
F6282	—	5476	F6377	—	5140	F6443	—	5104	F6491.41	—	4750.1
F6284	—	5480	F6378	—	5136	F6443.8	—	5053	F6492	—	4744
F6286	—	5500	F6379	—	5142	F6443.9	—	5052.5	F6492.4	—	4741
F6290	—	5548	F6380	—	5144	F6444	—	5052	F6493.2	—	4740
F6291	—	5546	F6400	—	5196	F6444.5	—	5051	F6494.2	—	4732
F6292	—	5536	F6400.6	—	5148	F6445	—	5040	F6495	—	4720
F6293	—	5544	F6400.61	—	5152	F6445.5	—	5036	F6495.04	—	4724
F6293.3	—	5540	F6401	—	5156	F6446	—	5032	F6495.3	—	4708
F6294	—	5532	F6401.2	—	5160	F6446.5	—	5030	F6495.4	—	4728
F6295	—	5528	F6401.3	—	5164	F6447	—	5028	F6495.45	—	4710
F6296	—	5524	F6401.32	—	5168	F6448	—	5020	F6495.5	—	4704
F6297	—	5522	F6401.4	—	5172	F6448.4	—	5024	F6495.6	—	4702
F6300	—	5504	F6401.45	—	5170	F6449	—	5008	F6495.8	—	4688
F6300.4	—	5512	F6401.5	—	5180	F6451	—	5012	F6495.9	—	4684
F6300.6	—	5520	F6401.6	—	5176	F6451.2	—	5016	F6496	—	4692
F6301	—	5508	F6402	—	5188	F6452	—	5004	F6496.02	—	4700
F6302	—	5516	F6406	—	5184	F6454	—	4996	F6496.03	—	4696
F6302.4	—	5472	F6407	—	5204	F6455	—	5000	F6496.04	—	4680
F6303	—	5468	F6411	—	5200	F6456	—	4992	F6496.1	—	4676
F6303.5	—	5466	F6412.5	—	5208	F6457	—	4984	F6496.2	—	4672
F6304	—	5464	F6413	—	5192	F6457.1	—	4988	F6496.3	—	4668
F6306	—	5452	F6417.2	—	5210	F6457.4	—	4990	F6496.6	—	4660
F6307.5	—	5456	F6417.3	—	5211	F6458	—	4980	F6497	—	4664
F6308	—	5448	F6418	—	5216	F6459	—	4912	F6498.2	—	4656
F6309	—	5444	F6418.2	—	5220	F6459.1	—	4916	F6499	—	4652
F6310	—	5436	F6418.4	—	5224	F6461	—	4900	F6499.8	—	4632
F6311	—	5440	F6418.41	—	5228	F6462	—	4904	F6500	—	4636
F6314	—	5432	F6419	—	5232	F6463	—	4890	F6500.2	—	4628
F6318	—	5428	F6419.2	—	5244	F6465	—	4888	F6500.4	—	4612
F6323	—	5424	F6420	—	5236	F6465.4	—	4892	F6500.6	—	4620
F6326	—	5420	F6421.8	—	5246	F6466	—	4880	F6501	—	4616
F6328	—	5412	F6422.2	—	5248	F6466.4	—	4884	F6502	—	4624
F6329	—	5406	F6424	—	5254	F6466.6	—	4882	F6502.8	—	4644
F6330	—	5408	F6426	—	5256	F6467.4	—	4876	F6503	—	4640
F6332	—	5404	F6427	—	5264	F6468	—	4872	F6503.5	—	4648
F6333	—	5400	F6427.04	—	5273	F6468.2	—	4868	F6504	—	4608
F6334	—	5402	F6427.06	—	5274	F6468.4	—	4860	F6505	—	4604
F6335	—	5399	F6427.08	—	5266	F6468.41	—	4864	F6505.4	—	4592
F6336	—	5398	F6427.12	—	5267	F6469	—	4848	F6505.6	—	4588
F6338	—	5388	F6427.15	—	5268	F6469.2	—	4852	F6507	—	4584
F6339	—	5392	F6427.19	—	5272	F6469.4	—	4856	F6507.4	—	4580

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F6508	.....	4560	F6548	.....	4340	F6589.8	.....	4128	F6624.8	.....	3904
F6509.6	.....	4564	F6549	.....	4320	F6590.4	.....	4120	F6624.85	.....	3906
F6511	.....	4556	F6549.5	.....	4324	F6591	.....	4124	F6625	.....	3892
F6512	.....	4552	F6549.8	.....	4334	F6592	.....	4116	F6625.5	.....	3908
F6513	.....	4550	F6550	.....	4328	F6593	.....	4100	F6625.7	.....	3884
F6514	.....	4544	F6551	.....	4332	F6593.2	.....	4104	F6626	.....	3888
F6514.1	.....	4540	F6554	.....	4304	F6593.3	.....	4098	F6627	.....	3880
F6514.15	.....	4548	F6555	.....	4316	F6594	.....	4096	F6627.4	.....	3878
F6514.2	.....	4536	F6555.2	.....	4308	F6594.5	.....	4092	F6628	.....	3860
F6514.3	.....	4542	F6555.21	.....	4312	F6595	.....	4084	F6628.2	.....	3876
F6514.6	.....	4524	F6556	.....	4300	F6595.04	.....	4088	F6628.4	.....	3872
F6514.8	.....	4532	F6557	.....	4296	F6595.1	.....	4060	F6628.8	.....	3856
F6514.9	.....	4528	F6558	.....	4292	F6595.2	.....	4076	F6630	.....	3852
F6514.95	.....	4520	F6560	.....	4284	F6595.24	.....	4080	F6631	.....	3848
F6514.96	.....	4512	F6560.2	.....	4285	F6595.4	.....	4068	F6631.2	.....	3847
F6514.97	.....	4516	F6560.5	.....	4286	F6595.5	.....	4064	F6631.4	.....	3845
F6515	.....	4504	F6561	.....	4288	F6595.7	.....	4072	F6631.5	.....	3846
F6515.2	.....	4508	F6561.6	.....	4282	F6596	.....	4040	F6631.6	.....	3846.5
F6515.4	.....	4500	F6562	.....	4280	F6597	.....	4048	F6631.8	.....	3846.1
F6516	.....	4496	F6564	.....	4276	F6597.2	.....	4056	F6632	.....	3840
F6516.7	.....	4499	F6566	.....	4268	F6597.3	.....	4052	F6633	.....	3844
F6517	.....	4488	F6566.5	.....	4256	F6597.35	.....	4044	F6633.5	.....	3836
F6517.2	.....	4492	F6567	.....	4248	F6597.6	.....	4036	F6633.8	.....	3834
F6517.4	.....	4480	F6567.2	.....	4260	F6598	.....	4028	F6634	.....	3832
F6517.45	.....	4484	F6567.21	.....	4264	F6599	.....	4026	F6635	.....	3830
F6517.5	.....	4476	F6567.3	.....	4254	F6600	.....	4025	F6635.4	.....	3833
F6518	.....	4472	F6567.4	.....	4272	F6602	.....	4024	F6636	.....	3828.2
F6520	.....	4432	F6567.48	.....	4246	F6603	.....	4020	F6636.2	.....	3828.4
F6520.5	.....	4434	F6567.5	.....	4252	F6603.5	.....	4018	F6636.3	.....	3828
F6521	.....	4452	F6568	.....	4240	F6604	.....	4016	F6636.6	.....	3835
F6521.1	.....	4464	F6569	.....	4244	F6604.2	.....	4014	F6636.7	.....	3816
F6521.2	.....	4460	F6570	.....	4236	F6604.5	.....	4012	F6637	.....	3812
F6521.25	.....	4457	F6571	.....	4216	F6605	.....	4008	F6637.4	.....	3811
F6521.3	.....	4468	F6572	.....	4214	F6605.2	.....	4004	F6638	.....	3810
F6521.32	.....	4458	F6574	.....	4232	F6605.25	.....	4006	F6638.4	.....	3809
F6521.35	.....	4456	F6575	.....	4228	F6605.4	.....	4000	F6639	.....	3806
F6521.4	.....	4448	F6578	.....	4224	F6605.8	.....	3996	F6640	.....	3804
F6521.5	.....	4454	F6579	.....	4220	F6606	.....	3992	F6640.2	.....	3802
F6522	.....	4444	F6581	.....	4208	F6607	.....	3988	F6640.25	.....	3800
F6523	.....	4442	F6581.2	.....	4213	F6607.4	.....	3986	F6640.4	.....	3790
F6524	.....	4436	F6581.5	.....	4212	F6607.5	.....	3984	F6641	.....	3780
F6524.1	.....	4440	F6582	.....	4172	F6607.8	.....	3983	F6641.2	.....	3788
F6530	.....	4428	F6582.2	.....	4176	F6608	.....	3972	F6641.4	.....	3778
F6531	.....	4424	F6582.4	.....	4180	F6609	.....	3980	F6641.6	.....	3776
F6532	.....	4412	F6582.6	.....	4184	F6610	.....	3976	F6641.7	.....	3772
F6533	.....	4408	F6583	.....	4196	F6610.3	.....	3978	F6642	.....	3768
F6533.4	.....	4400	F6583.1	.....	4200	F6610.6	.....	3982	F6642.5	.....	3764
F6533.6	.....	4404	F6583.3	.....	4204	F6612	.....	3956	F6643	.....	3760
F6533.8	.....	4416	F6583.4	.....	4206	F6612.1	.....	3960	F6643.2	.....	3744
F6533.81	.....	4420	F6583.5	.....	4188	F6613	.....	3964	F6643.5	.....	3740
F6534	.....	4380	F6583.7	.....	4192	F6613.3	.....	3968	F6645.2	.....	3736
F6535	.....	4388	F6584	.....	4166	F6614	.....	3952	F6647	.....	3732
F6535.2	.....	4384	F6585	.....	4168	F6615	.....	3948	F6647.5	.....	3734
F6537	.....	4376	F6586	.....	4164	F6618	.....	3944	F6649	.....	3731
F6538	.....	4372	F6586.2	.....	4162	F6618.4	.....	3942	F6650	.....	3730
F6540	.....	4368	F6586.4	.....	4160	F6619	.....	3941	F6650.5	.....	3728
F6540.5	.....	4366	F6586.6	.....	4156	F6620	.....	3896	F6650.7	.....	3726
F6541	.....	4364	F6587	.....	4152	F6621	.....	3900	F6651	.....	3724
F6542	.....	4356	F6588	.....	4148	F6622	.....	3920	F6654	.....	3716
F6544	.....	4348	F6588.2	.....	4144	F6623	.....	3924	F6656	.....	3720
F6545	.....	4352	F6588.4	.....	4140	F6623.2	.....	3928	F6657	.....	3712
F6545.5	.....	4360	F6589	.....	4136	F6623.6	.....	3922	F6657.5	.....	3714
F6545.7	.....	4354	F6589.25	.....	4108	F6624	.....	3936	F6658	.....	3708
F6546	.....	4344	F6589.3	.....	4113	F6624.4	.....	3940	F6662	.....	3704
F6547	.....	4336	F6589.4	.....	4132	F6624.7	.....	3916	F6663	.....	3706

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F6668	.....	3696	F6745.5	.....	692	F6813	.....	544	F6884.6	.....	270
F6670	.....	3700	F6746	.....	708	F6814	.....	516	F6885	.....	252
F6672	.....	3692	F6746.4	.....	704	F6814.1	.....	522	F6886	.....	256
F6673	.....	3688	F6746.6	.....	696	F6814.2	.....	520	F6886.2	.....	262
F6684	.....	988	F6747	.....	712	F6814.3	.....	542	F6886.4	.....	260
F6686	.....	992	F6748	.....	724	F6814.4	.....	540	F6887	.....	264
F6690	.....	964	F6749	.....	716	F6814.5	.....	529	F6889	.....	248
F6691	.....	968	F6750	.....	720	F6814.6	.....	528	F6890	.....	244
F6692	.....	960	F6754.3	.....	736	F6815	.....	524	F6892	.....	236
F6693	.....	956	F6754.31	.....	740	F6816	.....	536	F6893	.....	240
F6695	.....	948	F6755	.....	748	F6816.4	.....	532	F6893.5	.....	232
F6696	.....	952	F6755.1	.....	752	F6822	.....	512	F6893.6	.....	228
F6698	.....	944	F6756	.....	744	F6826	.....	508	F6893.65	.....	226
F6700	.....	940	F6762	.....	756	F6826.5	.....	510	F6893.7	.....	224
F6701	.....	936	F6762.1	.....	760	F6828	.....	500	F6894.4	.....	216
F6701.5	.....	934	F6763	.....	764	F6828.4	.....	502	F6894.5	.....	212
F6702	.....	928	F6763.1	.....	768	F6829	.....	504	F6894.6	.....	208
F6702.5	.....	932	F6768	.....	772	F6830	.....	492	F6895	.....	204
F6703	.....	924	F6768.1	.....	776	F6830.4	.....	498	F6895.2	.....	202
F6704	.....	920	F6769	.....	780	F6831	.....	496	F6895.4	.....	200
F6704.5	.....	922	F6769.1	.....	784	F6834	.....	488	F6896	.....	1524
F6706	.....	900	F6770	.....	680	F6834.3	.....	486	F6896.5	.....	1536
F6707	.....	904	F6770.3	.....	684	F6834.5	.....	484	F6897	.....	1532
F6707.4	.....	908	F6772	.....	676	F6835	.....	480	F6897.2	.....	1528
F6708	.....	912	F6773	.....	664	F6835.5	.....	478	F6897.4	.....	1522
F6714	.....	916	F6773.1	.....	674	F6836	.....	472	F6897.6	.....	1520
F6715	.....	896	F6773.3	.....	675	F6837	.....	476	F6898	.....	1516
F6716	.....	892	F6773.4	.....	668	F6837.5	.....	474	F6899	.....	1512
F6718	.....	888	F6773.7	.....	672	F6838.4	.....	469	F6900	.....	1508
F6719	.....	884	F6773.75	.....	673	F6839	.....	460	F6900.5	.....	1510
F6720	.....	882	F6774	.....	660	F6839.2	.....	468	F6901	.....	1476
F6722	.....	880	F6774.3	.....	658	F6839.4	.....	464	F6901.5	.....	1480
F6724	.....	876	F6774.4	.....	652	F6840	.....	448	F6902	.....	1484
F6724.4	.....	868	F6774.6	.....	648	F6842	.....	452	F6902.4	.....	1488
F6724.5	.....	872	F6775	.....	644	F6845	.....	444	F6903	.....	1500
F6725	.....	864	F6776	.....	640	F6847	.....	440	F6903.4	.....	1492
F6727	.....	860	F6777	.....	632	F6850	.....	436	F6904	.....	1486
F6727.4	.....	860.5	F6777.5	.....	636	F6852	.....	432	F6905	.....	1486.5
F6728.5	.....	858	F6778	.....	628	F6853	.....	438	F6907	.....	1472
F6729	.....	856	F6780	.....	626	F6854	.....	439	F6908	.....	1428
F6730	.....	852	F6781	.....	620	F6856	.....	388	F6908.4	.....	1432
F6730.5	.....	850	F6783	.....	624	F6856.5	.....	392	F6909	.....	1424
F6731	.....	848	F6784	.....	616	F6856.7	.....	396	F6910	.....	1436
F6732	.....	844	F6786	.....	604	F6857	.....	400	F6910.5	.....	1444.5
F6733	.....	836	F6788	.....	608	F6857.4	.....	402	F6910.7	.....	1440
F6733.5	.....	840	F6789	.....	612	F6857.5	.....	404	F6911	.....	1448
F6734	.....	842	F6790	.....	602	F6858	.....	424	F6911.2	.....	1466
F6735	.....	832	F6791	.....	600	F6860	.....	412	F6911.4	.....	1468
F6737	.....	830	F6792	.....	596	F6861	.....	416	F6911.6	.....	1456
F6738	.....	828	F6793	.....	592	F6861.2	.....	420	F6912	.....	1460
F6740	.....	812	F6794	.....	590	F6861.4	.....	426	F6912.4	.....	1464
F6740.5	.....	814	F6796	.....	580	F6861.5	.....	428	F6913	.....	1452
F6741	.....	816	F6797	.....	584	F6862	.....	308	F6913.5	.....	1462
F6741.05	.....	816.5	F6798	.....	588	F6863	.....	430	F6914	.....	1433
F6741.2	.....	820	F6799	.....	578	F6866	.....	296	F6915	.....	1372
F6741.25	.....	820.5	F6802	.....	576	F6870	.....	304	F6916	.....	1376
F6741.3	.....	824	F6803	.....	572	F6872	.....	300	F6917	.....	1378
F6741.4	.....	810	F6803.5	.....	574	F6876	.....	294	F6919	.....	1420
F6741.5	.....	808	F6807.5	.....	556	F6877	.....	288	F6922	.....	1416
F6742	.....	796	F6808	.....	560	F6878	.....	292	F6922.4	.....	1412
F6742.4	.....	800	F6809	.....	562	F6878.5	.....	293	F6923	.....	1404, 1408
F6744	.....	792	F6810	.....	564	F6882	.....	280	F6924	.....	1400
F6744.2	.....	790.5	F6811.7	.....	554	F6883	.....	276	F6925	.....	1396
F6744.5	.....	788	F6812	.....	552	F6884	.....	272	F6926	.....	1392
F6745	.....	688	F6812.4	.....	548	F6884.4	.....	268	F6927	.....	1388

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F6928	1380		F7009	1148		F7058	3604		F7097	3304	
F6930	1384		F7010	1144		F7058.8	3600		F7098	3308	
F6934	1368		F7011	1140		F7058.9	3596		F7100.2	3312	
F6934.1	1367		F7012	1136		F7059.5	3592		F7100.6	3314	
F6934.5	1356		F7013	1132		F7059.6	3588		F7101.5	3315	
F6935	1364		F7013.2	1130		F7060	3584		F7102	3316	
F6936	1360		F7013.4	1128		F7061	3560		F7102.5	3320	
F6939	1336		F7014	1124		F7061.4	3562		F7102.7	3214	
F6941	1332		F7015	1120		F7062	3564		F7103	3216	
F6941.5	1350		F7016	1116		F7062.7	3574		F7103.08	3218	
F6942	1352		F7018	1112		F7063.3	3576		F7103.3	3220	
F6942.6	1344		F7018.5	1108		F7063.4	3572		F7103.5	3224	
F6942.8	1348		F7019	1100		F7063.5	3568		F7103.51	3226	
F6943	1340		F7019.4	1104		F7064	3580		F7103.52	3222	
F6944	1324		F7020	1096		F7066	3552		F7103.6	3228	
F6945	1330		F7021	1088		F7066.5	3548		F7104	3232	
F6946	1328		F7022	1080		F7067	3556		F7104.4	3236	
F6953	1312		F7023	1084		F7069	3544		F7104.5	3240	
F6954	1308		F7023.2	1076		F7069.4	3536		F7104.7	3244	
F6954.4	1320		F7023.3	1092		F7069.6	3540		F7105	3248	
F6955	1316		F7023.8	1072		F7070	3528		F7106	3256	
F6957	1304		F7024.4	1064		F7071	3532		F7106.2	3258	
F6958	1300		F7024.6	1068		F7072	3520		F7106.4	3252	
F6959	1296		F7025.2	1056		F7072.4	3524		F7107	3260	
F6960.6	1272		F7025.4	1052		F7075	3516		F7107.4	3264	
F6960.8	1280		F7026	1048		F7075.5	3513		F7107.6	3268	
F6961	1276		F7028	1032		F7076	3504		F7108	3388	
F6962	1284		F7028.4	1044		F7076.1	3506		F7108.4	3396	
F6963	1288		F7029	1036		F7076.2	3512		F7108.6	3392	
F6970	1260		F7029.4	1040		F7076.3	3508		F7109	3380	
F6972	1268		F7030	1028		F7077	3496		F7110	3384	
F6972.2	1256		F7031	1024		F7077.4	3500		F7110.5	3352	
F6972.4	1258		F7032	1020		F7080	3492		F7111.2	3356	
F6973.5	1252		F7032.4	1016		F7082	3472		F7112	3360	
F6974	1248		F7032.6	1008		F7082.5	3476		F7113	3372	
F6974.4	1244		F7033	1012		F7083	3484		F7116	3376	
F6975.5	1240		F7034	1004		F7084	3480		F7116.5	3370	
F6979	1231.5		F7036	1000		F7085	3488		F7116.8	3350	
F6980	1232		F7037	996		F7086	3470		F7117	3348	
F6981	1236		F7039	984		F7087	3460		F7117.4	3344	
F6981.2	1231.2		F7040	980		F7087.1	3464		F7118	3340	
F6981.4	1230		F7042	972		F7087.2	3468		F7118.4	3332	
F6981.41	1231		F7044	976		F7087.3	3456.1		F7118.6	3336	
F6988	1224		F7048	3680		F7087.4	3456		F7119	3328	
F6989	1228		F7052	3672		F7087.8	3440		F7119.5	3326	
F6992	1220		F7052.5	3674		F7087.9	3444		F7120	3324	
F6995	1216		F7053	3676		F7088	3428		F7121	3208	
F6996	1212		F7053.3	3670		F7088.4	3432		F7125	3200	
F6997.5	1210		F7053.6	3668		F7088.6	3436		F7125.5	3202	
F6998	1196		F7053.8	3664		F7088.8	3424		F7128	3196	
F6998.4	1204		F7054	3660		F7089	3416		F7132	3192	
F6998.6	1200		F7054.2	3656		F7089.5	3420		F7132.5	3188	
F6999.4	1208		F7054.4	3658		F7090	3412		F7132.8	3180	
F7001	1188		F7055	3652		F7090.5	3408		F7133	3184	
F7002	1184		F7055.1	3644		F7090.7	3405		F7134	3172	
F7003	1180		F7055.12	3646		F7090-8	3406		F7135	3168	
F7004	1172		F7055.14	3648		F7092	3272		F7136.5	3170	
F7004.3	1176.5		F7055.2	3640		F7092.4	3276		F7136.6	3164	
F7004.5	1178		F7055.5	3636		F7092.6	3280		F7136.7	3156	
F7005	1176		F7055.8	3632		F7093	3284		F7136.8	3160	
F7005.2	1168		F7055.9	3628		F7094	3292		F7136.9	3152	
F7005.5	1164		F7056	3624		F7094.4	3290		F7137	3148	
F7005.7	1160		F7057	3612		F7095	3288		F7137.2	3144	
F7006	1152		F7057.2	3620		F7096	3296		F7137.6	3140	
F7008	1156		F7057.4	3608		F7096.5	3300		F7142	3132	

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F7144	3136		F7194	2904		F7243.74	2636		F7283.4	2368	
F7144.4	3124		F7194.5	2902		F7243.8	2632		F7283.5	2360	
F7144.5	3128		F7195	2896		F7244	2628		F7283.51	2364	
F7145	3120		F7195.4	2900		F7245	2624		F7283.52	2352	
F7147	3116		F7195.8	2892		F7245.5	2620		F7283.54	2356	
F7149	3112		F7195.9	2876		F7246	2600		F7283.57	2340	
F7150.5	3100		F7195.95	2880		F7247	2604		F7283.58	2348	
F7150.6	3098		F7196	2888		F7248	2612		F7283.59	2344	
F7151	3096		F7198	2872		F7248.2	2616		F7283.6	2332	
F7151.4	3092		F7199	2884		F7249	2596		F7283.7	2336	
F7151.6	3104		F7200	2856		F7249.6	2592		F7283.8	2328	
F7151.8	3090		F7201	2860		F7250	2588		F7283.84	2324	
F7152	3084		F7201.4	2864		F7250.5	2584		F7283.85	2320	
F7154	3088		F7201.6	2868		F7251	2580		F7283.9	2308	
F7156	3080		F7202	2852		F7251.4	2576		F7283.94	2316	
F7160	3056		F7204	2836		F7251.6	2572		F7283.96	2312	
F7160.4	3060		F7206	2840		F7252	2556		F7284	2300	
F7160.6	3064		F7207	2844		F7252.4	2560		F7285	2304	
F7161	3072		F7209	2832		F7252.6	2568		F7285.5	2298	
F7161.3	3076		F7210	2830		F7252.7	2564		F7286	2296	
F7162	3068		F7212	2828		F7254	2548		F7286.4	2292	
F7162.2	3066		F7212.4	2824		F7254.4	2544		F7287	2288	
F7162.3	3065		F7213	2820		F7254.6	2552		F7287.5	2276	
F7162.4	3064.1		F7214	2812		F7254.7	2554		F7287.6	2286	
F7164.5	3052		F7216	2816		F7255	2540		F7288.6	2264	
F7166	3044		F7220	2792		F7255.4	2538		F7288.8	2268	
F7166.5	3048		F7221	2804		F7256.6	2528		F7288.9	2260	
F7166.75	3046		F7221.1	2808		F7257	2536		F7289	2256	
F7167.4	3040		F7221.3	2790		F7257.2	2532		F7289.1	2252	
F7168	3036		F7221.4	2791		F7258	2504		F7289.14	2248	
F7169	3032		F7221.6	2788		F7259	2516		F7289.2	2236	
F7169.5	3030		F7222	2784		F7260	2512		F7289.3	2244	
F7170	3028		F7224	2780		F7261	2520		F7289.4	2240	
F7170.5	3024		F7225	2772		F7261.4	2524		F7290	2228	
F7171	3020		F7226	2776		F7269.3	2500		F7290.2	2232	
F7171.4	3016		F7230	2768		F7269.4	2488		F7292	2224	
F7171.8	2994		F7232	2752		F7269.5	2492		F7293	2220	
F7172	2992		F7232.4	2764		F7269.6	2496		F7293.5	2216	
F7172.4	2988		F7233	2760		F7269.7	2484		F7294	2180	
F7173	2984		F7233.2	2756		F7270	2480		F7294.5	2182	
F7174	2996		F7234	2744		F7271.4	2476		F7296	2184	
F7174.5	3000		F7234.4	2748		F7271.6	2472		F7297	2188	
F7177	3004		F7236	2740		F7272	2468		F7300	2208	
F7180	3008		F7236.4	2736		F7274	2456		F7304	2212	
F7182	3012		F7237	2720		F7274.1	2460		F7305	2204	
F7182.2	3014		F7237.2	2732		F7274.2	2452		F7306	2192	
F7182.6	2980		F7237.4	2728		F7274.4	2448		F7307	2196	
F7183	2976		F7238	2724		F7274.5	2444		F7308	2200	
F7183.5	2982		F7239.5	2716		F7275	2440		F7314	2016	
F7184	2972		F7239.7	2712		F7276	2428		F7315	2020	
F7185	2960		F7240	2704		F7277	2432		F7315.2	2024	
F7186	2964		F7240.2	2708		F7278	2436		F7315.4	2028	
F7186.2	2968		F7240.3	2696		F7278.6	2412		F7315.6	2168	
F7186.6	2956		F7240.4	2700		F7279	2416		F7316	2172	
F7188	2944		F7240.5	2692		F7279.1	2420		F7317	2176	
F7188.1	2940		F7240.7	2688		F7279.2	2424		F7318	2010	
F7188.2	2936		F7241	2684		F7280	2400		F7318.4	2012	
F7188.4	2948		F7241.5	2680		F7280.4	2408		F7318.6	2008	
F7189	2932		F7242	2676		F7280.7	2402		F7319.5	2076	
F7189.4	2928		F7242.6	2672		F7281	2376		F7319.7	2072	
F7189.6	2924		F7243	2668		F7281.5	2380		F7319.75	2070	
F7190	2920		F7243.5	2666		F7282	2392		F7319.8	2068	
F7190.8	2916		F7243.64	2656		F7283	2396		F7320	2064	
F7192.4	2912		F7243.68	2648		F7283.2	2372		F7320.2	2056	
F7192.6	2914		F7243.7	2640		F7283.3	2384		F7320.4	2060	

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F7320.8	.....	2052	F7345	.....	1876	F7390.5	.....	1616	F7576	.....	15924
F7321.1	.....	2048	F7346	.....	1868	F7391	.....	1612	F7578	.....	15920
F7321.12	.....	2046	F7346.2	.....	1872	F7392	.....	1604	F7579	.....	15909.5
F7321.14	.....	2044	F7346.4	.....	1864	F7394	.....	1600	F7579.5	.....	15909
F7321.16	.....	2040	F7346.5	.....	1860	F7395	.....	1592	F7581	.....	15908
F7321.2	.....	2032	F7347	.....	1856	F7395.2	.....	1594	F7584	.....	15900
F7321.25	.....	2036	F7347.4	.....	1852	F7395.4	.....	1576	F7588	.....	15896
F7321.3	.....	2088	F7348	.....	1824	F7395.6	.....	1580	F7596	.....	15880
F7321.4	.....	2084	F7348.5	.....	1844	F7395.8	.....	1588	F7604	.....	15868
F7321.42	.....	2082	F7349	.....	1828	F7396	.....	1584	F7608	.....	15864
F7321.5	.....	2080	F7349.15	.....	1832	F7397	.....	1568	F7610	.....	15860
F7321.7	.....	2152	F7349.2	.....	1840	F7397.5	.....	1570	F7612	.....	15856
F7321.74	.....	2164	F7349.3	.....	1838	F7399	.....	1564	F7613	.....	15854
F7321.77	.....	2148	F7351	.....	1848	F7399.2	.....	1566.1	F7614	.....	15852
F7321.8	.....	2166	F7351.5	.....	1820	F7399.5	.....	1566	F7616	.....	15848
F7321.9	.....	2160	F7352.4	.....	1804	F7400	.....	1560	F7617	.....	15844
F7321.94	.....	2156	F7354	.....	1812	F7401	.....	1556	F7618	.....	15840
F7322	.....	2136	F7355	.....	1808	F7402	.....	1552	F7622	.....	15836
F7322.6	.....	2132	F7357	.....	1800	F7420	.....	16198	F7626	.....	15832
F7322.8	.....	2140	F7358	.....	1788	F7420.01	.....	16198.1	F7630	.....	15828
F7323	.....	2092	F7358.4	.....	1792	F7422	.....	16196	F7634	.....	15824
F7323.2	.....	2096	F7358.41	.....	1796	F7428	.....	16192	F7636	.....	15820
F7323.21	.....	2098	F7359	.....	1784	F7430	.....	16188	F7640	.....	15812
F7323.24	.....	2100	F7360	.....	1780	F7434	.....	16172	F7642	.....	15798
F7323.36	.....	2120	F7360.4	.....	1776	F7435.5	.....	16170.3	F7643	.....	15784
F7323.4	.....	2116	F7360.5	.....	1740	F7436	.....	16170.4	F7650	.....	15786
F7323.42	.....	2118	F7360.6	.....	1736	F7438	.....	16170.35	F7651	.....	15788
F7323.44	.....	2124	F7360.7	.....	1732	F7440	.....	16170.25	F7652	.....	15790
F7323.5	.....	2104	F7360.85	.....	1730	F7440.1	.....	16170.26	F7653	.....	15792
F7323.6	.....	2128	F7360.9	.....	1728	F7470	.....	16166	F7653.1	.....	15792.2
F7323.7	.....	2112	F7361	.....	1692	F7471	.....	16167	F7653.2	.....	15792.4
F7323.8	.....	2108	F7361.2	.....	1726	F7472	.....	16169	F7654	.....	15794
F7324	.....	2004	F7361.4	.....	1720	F7472.01	.....	16169.1	F7660	.....	15796
F7324.4	.....	2000	F7362	.....	1696	F7472.02	.....	16169.2	F7670	.....	15776
F7324.5	.....	1996	F7362.5	.....	1722	F7473	.....	16169.3	F7674	.....	15768
F7324.6	.....	1992	F7363.6	.....	1704	F7474	.....	16169.7	F7675	.....	15761.3
F7324.7	.....	1988	F7363.7	.....	1712	F7474.01	.....	16169.8	F7676	.....	15761.4
F7325	.....	1976	F7363.8	.....	1708	F7478	.....	16169.91	F7676.5	.....	15761.35
F7325.4	.....	1980	F7364	.....	1716	F7479	.....	16169.92	F7677	.....	15761
F7326	.....	1984	F7368	.....	1764	F7480	.....	16170	F7677.1	.....	15761.1
F7327	.....	1968	F7369	.....	1768	F7480.01	.....	16170.1	F7677.5	.....	15761.2
F7328	.....	1972	F7369.6	.....	1760	F7482	.....	16170.18	F7677.51	.....	15761.21
F7331	.....	1960	F7370	.....	1748	F7498	.....	16160	F7678	.....	15760
F7331.5	.....	1964	F7372.4	.....	1754	F7528	.....	16056	F7679	.....	15587
F7332	.....	1958	F7373	.....	1756	F7532	.....	16052	F7679.4	.....	15584.45
F7333	.....	1956	F7374	.....	1758	F7533	.....	16053	F7679.41	.....	15584.46
F7333.2	.....	1952	F7375	.....	1744	F7534	.....	16054	F7679.5	.....	15744.2
F7333.5	.....	1944	F7377	.....	1628	F7538	.....	16008	15744.21		
F7333.7	.....	1948	F7378	.....	1632	F7558	.....	16004	F7682	.....	15744.31
F7334	.....	1936	F7378.2	.....	1634	F7562	.....	15948	F7685	.....	15744.51
F7335	.....	1940	F7378.6	.....	1640	F7563	.....	15952	F7685.1	.....	15744.52
F7336	.....	1924	F7378.8	.....	1644	F7563.2	.....	15944	F7686	.....	15744.6
F7336.4	.....	1928	F7378.9	.....	1648	F7563.4	.....	15992	15744.61		
F7337	.....	1932	F7379	.....	1636	F7563.41	.....	15996	F7700	.....	15744
F7337.6	.....	1922	F7380	.....	1684	F7563.6	.....	16000	F7703	.....	15740
F7338	.....	1916	F7381.8	.....	1656	F7564	.....	15960	F7704	.....	15736
F7339	.....	1920	F7381.9	.....	1660	F7564.1	.....	15964	F7706	.....	162
F7341	.....	1904	F7382	.....	1652	F7566	.....	15968	F7707	.....	161
F7341.2	.....	1912	F7382.2	.....	1664	F7566.1	.....	15972	F7708	.....	160
F7341.4	.....	1900	F7384	.....	1668	F7567	.....	15956	F7709	.....	156
F7342	.....	1888	F7386	.....	1680	F7569	.....	15940	F7709.4	.....	148
F7343	.....	1892	F7388	.....	1620	F7570	.....	15942	F7709.5	.....	152
F7343.2	.....	1896	F7389	.....	1672	F7572	.....	15936	F7711	.....	140
F7343.6	1884	F7389.2	1676	F7573	15934	F7711.5	132
F7344	1880	F7389.5	1624	F7574	15926	F7712	136

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F7713	108	F8007	15568	F8153	15352	K0821.1	33124
F7713.1	.....	112	F8008.1	.....	15566.2	F8157	.....	15353	K0821.4	.....	33108
F7714	.....	124	F8008.2	.....	15566	F8157.1	.....	15353.1	K0821.41	.....	33112
F7714.2	.....	128	F8009	.....	15564	F8157.5	.....	15353.5	K0821.5	.....	33107
F7715	.....	120	F8011	.....	15562	F8159	.....	15356	K0822.1	.....	33084
F7715.2	.....	116	F8015	.....	15561	F8169	.....	15345	K0822.4	.....	33088
F7716	.....	104	F8021	.....	15560	F8169.1	.....	15345.01	K0822.41	.....	33092
F7738	.....	100	F8022	.....	15553.15	F8172	.....	15344	K0824	.....	23080
F7746	.....	56	F8024	.....	15553.1	F8172.5	.....	15340	K0838	.....	23204
F7748	.....	76	F8026	.....	15553.05	F8173	.....	15336	K0838.5	.....	23206
F7750	.....	80	F8028	.....	15553	F8176	.....	15328	K0838.7	.....	23209.5
F7752	.....	60	F8030	.....	15552	F8178	.....	15332	K0842	.....	23192
F7752.1	.....	64	F8036	.....	15532	F8180	.....	15320	K0844	.....	23201
F7753	.....	68	F8037.5	.....	15530	F8182	.....	15324	K0845	.....	23198
F7753.1	.....	72	F8038	.....	15528	F8183	.....	15317	K0846	.....	23200
F7754	.....	84	F8041	.....	316	F8183.1	.....	15317.5	K0850	.....	23196
F7754.3	.....	92	F8042	.....	320	F8186	.....	15316	K0851	.....	23162
F7754.5	.....	96	F8043	.....	15538	F8188	.....	15312	K0851.5	.....	23162.2
F7776	.....	40	F8045	.....	323	F8190	.....	15308	K0852	.....	23162.4
F7778	.....	44	F8046	.....	324	F8192	.....	15304	K0852.5	.....	23162.6
F7778.1	.....	48	F8047	.....	326	F8193	.....	15303	K0853	.....	23162.8
F7788	.....	36	F8048	.....	340	F8194	.....	15302	K0858	.....	23165
F7794	.....	16	F8049	.....	344	F8194.2	.....	15289.3	K0859	.....	23190
F7796	.....	20	F8049.3	.....	345	F8194.8	.....	15289.7	K0860	.....	23188
F7800	.....	12	F8049.5	.....	346	F8195	.....	15289.1	K0861	.....	23184
F7802	.....	8	F8050	.....	348	F8196	.....	15300	K0861.5	.....	23159
F7804	.....	4	F8050.5	.....	349	F8208	.....	15284	K0862	.....	23160
F7806	.....	2	F8051	.....	352	F8210	.....	15289	K0864	.....	23164
F7810	.....	162.3	F8051.5	.....	354	F8211	.....	15283	K0868	.....	23172
F7828	.....	162.4	F8052	.....	360	F8212	.....	15282	K0870	.....	23176
F7830	.....	164	F8053	.....	356	F8214	.....	15280	K0870.2	.....	23180
F7831	.....	162.5	F8054	.....	372	F8216	.....	15281	K0871	.....	23168
F7832	.....	162.7	F8054.2	.....	376.5	F8217	.....	15281.1	K0872	.....	23161
F7840	.....	165	F8054.5	.....	376	F8220	.....	15272	K0872.5	.....	23158.5
F7841.5	.....	166	F8054.6	.....	379	F8226	.....	15268	K0873	.....	23158
F7842	.....	168	F8054.7	.....	380.5	F8232	.....	15260	K0874	.....	23156
F7846	.....	170	F8056	.....	384	F8346	.....	4964, 4968	K0875	.....	23154
F7847	.....	172.5	F8056.2	.....	384.5	F8347	.....	4962	K0875.7	.....	23153
F7848	.....	172	F8056.5	.....	385	F8348	.....	4960	K0876	.....	23152
F7870	.....	174	F8057	.....	386	F8350	.....	4972	K0876.2	.....	23153.5
F7875	.....	180	F8057.6	.....	456	F8351	.....	4974	K0877	.....	23144
F7876	.....	184	F8057.8	.....	456.5	F8360	.....	4976	K0877.2	.....	23150
F7876.1	.....	188	F8058	.....	364	F9516.31	.....	24135.5	K0877.5	.....	23148
F7884	.....	196	F8059	.....	366	F9526.3	.....	24141	K0877.6	.....	23153.8
F7885	.....	192	F8060	.....	368	F9527.48	.....	24249	K0877.8	.....	23138
F7885.1	.....	193	F8062	.....	15520	F9527.5	.....	24372	K0878	.....	23137
F7890	.....	194	F8063.5	.....	15526	F9531	.....	20966	K0878.1	.....	23136
F7902	.....	15588	F8064	.....	15516	F9532	.....	20965	K0879	.....	23135.5
F7902.5	.....	195	F8065	.....	15442.7	F9534.9	.....	20291	K0880	.....	23140
F7903	.....	15590	F8066	.....	15442.5	F9690.4	.....	18528	K0880.2	.....	23142
F7904	.....	15589	F8067	.....	15442	G7110	.....	15288	K0881	.....	23128
F7910	.....	15585	F8068	.....	15441.6	K0800	.....	33036	K0883	.....	23132
F7982	.....	15744.45	F8069	.....	15441	K0801	.....	33040	K0883.55	.....	23126
F7982.1	.....	15744.4,	F8072	.....	15441.3	K0802	.....	33056	K0883.6	.....	23120
15744.41			F8076	.....	15440.5	K0805	.....	33044	K0883.65	.....	23115
F7982.2	.....	15744.36	F8096	.....	15440	K0805.6	.....	33050	K0883.7	.....	23124
F7982.3	.....		F8102	.....	15432	K0806	.....	33052	K0884	.....	23104
15745.15,			F8108	.....	15428	K0807	.....	33060	K0885	.....	23102.4
15745.16,		15745.2,	F8120	.....	15424	K0808.5	.....	33064	K0885.2	.....	23102.6
15745.21			F8121.8	.....	15400	K0813.2	.....	27467	K0885.5	.....	23102
F7982.4	.....	15745	F8125	.....	15420	K0819	.....	33106	K0885.51	.....	23102.2
F7985	.....	15584	F8126	.....	15416	K0820	.....	33096	K0893	.....	23108
F7985.5	.....	15584.4	F8128	.....	15408	K0820.4	.....	33100	K0895	.....	23101
F7986	15582	F8130	15412	K0820.41	33104	K0895.4	23101.5
F8006	15569	F8150	15348	K0821	33120	K0897	23100

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K0898	23099	K0973.1	22748	K1031	25055	K1069	23408
K0900	.....	23098	K0975	.....	22726	K1032	.....	22988	K1069.4	.....	23412
K0904	.....	23096	K0976	.....	22728	K1033	.....	25056	K1070	.....	23416.1
K0906	.....	23092	K0978	.....	22730	K1033.5	.....	25054	K1070.1	.....	23416.4
K0910	.....	23088	K0980	.....	22724	K1033.6	.....	25053	K1070.2	.....	23416.5
K0911	.....	23086	K0980.4	.....	22722	K1033.8	.....	25051	K1070.3	.....	23416.2
K0914	.....	23076	K0980.5	.....	22722.2	K1034	.....	25052	K1070.4	.....	23416.3
K0920	.....	23048	K0981	.....	22720	K1036	.....	25048	K1072.7	.....	23417
K0920.5	.....	23052	K0981.5	.....	22716	K1038	.....	23392	K1072.8	.....	23417.1
K0922	.....	23044	K0981.9	.....	22926	K1040	.....	23388	K1072.9	.....	23422
K0922.2	.....	23058	K0982	.....	22924	K1042	.....	23376	K1073	.....	23423
K0922.4	.....	23056	K0983	.....	22916	K1043	.....	23380	K1073.2	.....	23423.2
K0922.6	.....	23060	K0984	.....	22908	K1044	.....	23384	K1073.21	.....	23423.4
K0923	.....	23040	K0985	.....	22912	K1045	.....	23382	K1073.5	.....	23428
K0923.2	.....	23064	K0986	.....	22914	K1045.5	.....	23383	K1074	.....	23432
K0923.5	.....	23036	K0988	.....	22904	K1045.7	.....	23383.5	K1076	.....	23436
K0925	.....	23028	K0990	.....	22896	K1050	.....	23336	K1076.4	.....	23440
K0926	.....	23024	K0991	.....	22884	K1050.05	.....	23335	K1076.6	.....	23448
K0926.5	.....	23020	K0991.3	.....	22878	K1050.1	.....	23333	K1076.7	.....	23452
K0927	.....	23016	K0992	.....	22876	K1050.2	.....	23332	K1076.8	.....	23456
K0928	.....	23004	K0993	.....	22872	K1050.3	.....	23333.5	K1076.9	.....	23444
K0928.5	.....	23008	K0994	.....	22880	K1050.5	.....	23334	K1078	.....	23396
K0928.55	.....	23009	K0996	.....	22868	K1051	.....	23340	K1079	.....	23400
K0928.6	.....	23009.2	K0998	.....	22864	K1051.1	.....	23342	K1084	.....	23460
K0928.65	.....	23009.4	K1000	.....	22856	K1051.7	.....	23338	K1086	.....	23468
K0928.7	.....	23009.6	K1001	.....	22860	K1052	.....	23344	K1090	.....	23472
K0929	.....	23012	K1001.5	.....	22862	K1052.5	.....	23346	K1091.1	.....	23474
K0929.2	.....	23013	K1002	.....	22968	K1052.6	.....	23346.7	K1091.11	.....	23474.1
K0929.3	.....	23013.5	K1003	.....	22969	K1052.7	.....	23346.5	K1091.12	.....	23475
K0929.5	.....	23014	K1003.1	.....	22969.1	K1052.9	.....	23347	K1092	.....	23476
K0929.6	.....	23015	K1004	.....	22956	K1053	.....	23348	K1092.5	.....	23480
K0931	.....	22752	K1005	.....	22952	K1053.2	.....	23352	K1092.51	.....	23484
K0932	.....	22756	K1005.4	.....	22957	K1053.26	.....	23353	K1093	.....	23488
K0932.1	.....	22760	K1005.7	.....	22958	K1053.3	.....	23354	K1095	.....	23492
K0934	.....	22764	K1006	.....	22960	K1053.31	.....	23354.1	K1095.5	.....	23494
K0934.1	.....	22768	K1006.5	.....	22964	K1053.33	.....	23355.1	K1099	.....	23500
K0936	.....	22770	K1007	.....	22948	K1053.35	.....	23355.3	K1101	.....	23502
K0938	.....	22772	K1008	.....	22946	K1053.6	.....	23356	K1102	.....	23520
K0938.1	.....	22776	K1008.1	.....	22946.5	K1053.7	.....	23358	K1105	.....	23504
K0938.4	.....	22780	K1009	.....	22940	K1053.72	.....	23358.5	K1106	.....	23508
K0938.41	.....	22784	K1010	.....	22944	K1053.74	.....	23358.6	K1108	.....	23512
K0939	.....	22788	K1010.5	.....	22936	K1053.9	.....	23359	K1110	.....	23517
K0939.2	.....	22792	K1010.7	.....	22934	K1053.91	.....	23359.5	K1112	.....	23516
K0939.6	.....	22796	K1011	.....	22928	K1054	.....	23360	K1120	.....	23538
K0939.64	.....	22800	K1012	.....	22932	K1054.5	.....	23361	K1122	.....	23532
K0939.7	.....	22804	K1012.5	.....	22933	K1055	.....	23362	K1124	.....	23524
K0939.8	.....	22808	K1013	.....	22973	K1056	.....	23363	K1126	.....	23528
K0940	.....	22812	K1020	.....	22972	K1056.5	.....	23363.5	K1128	.....	23539
K0940.4	.....	22816	K1020.5	.....	22972.2	K1056.6	.....	23363.9	K1130	.....	23542
K0941	.....	22820	K1020.7	.....	22972.25	K1056.7	.....	23363.6	K1132	.....	23560
K0941.4	.....	22824	K1021	.....	22974	K1056.8	.....	23363.7	K1133	.....	23552
K0941.41	.....	22828	K1021.5	.....	22974.5	K1056.9	.....	23363.8	K1133.1	.....	23556
K0942	.....	22832	K1021.6	.....	22972.3	K1058	.....	23364	K1133.3	.....	23557
K0943	.....	22836	K1021.8	.....	22972.5	K1060	.....	23368	K1134	.....	23558
K0943.2	.....	22840	K1022	.....	22980	K1060.5	.....	23372	K1135	.....	23559
K0943.4	.....	22844	K1024	.....	22976	K1061	.....	23370	K1136	.....	23559.1
K0945	.....	22848	K1024.05	.....	22976.5	K1062	.....	23404	K1138	.....	23584
K0947	.....	22852	K1024.1	.....	22975.5	K1063	.....	23405	K1139	.....	23580
K0953	.....	22706	K1024.2	.....	22975	K1064	.....	23406	K1140	.....	23568
K0954	.....	22708	K1024.5	.....	22977	K1065	.....	23407	K1140.2	.....	23568.5
K0956	.....	22709	K1025	.....	22978	K1066	.....	23407.5	K1140.3	.....	23571.5
K0957	.....	22710	K1028	.....	23000	K1066.2	.....	23407.7	K1140.4	.....	23571
K0958	.....	22712	K1028.7	.....	23002	K1066.4	.....	23407.8	K1140.5	.....	23570
K0968	22732	K1028.8	22998	K1068	23420	K1141	23569
K0973	22744	K1030	22984	K1068.5	23416	K1144	23572

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K1144.1	23572.5	K1243.5	23751	K1289.1	25536.1	K1319.4	25658.2
K1144.2	.....	23572.8	K1244	.....	23752	K1290	.....	25528	K1320.2	.....	25660
K1144.3	.....	23573	K1244.5	.....	23754	K1291	.....	25524	K1321	.....	25656
K1144.35	.....	23573.1	K1245	.....	23756	K1291.2	.....	25526	K1321.5	.....	25653.2
K1144.6	.....	23573.5	K1246	.....	23760	K1291.21	.....	25526.1	K1322	.....	25578
K1144.8	.....	23573.6	K1246.3	.....	23771	K1291.4	.....	25520	K1323	.....	25584.5
K1145	.....	23574	K1246.5	.....	23768	K1291.6	.....	25522	K1324	.....	25585
K1145.5	.....	23586	K1247	.....	23764	K1292	.....	25546	K1324.5	.....	25586
K1149	.....	23590	K1248.5	.....	23770	K1294	.....	25548	K1325.3	.....	25416.6
K1150	.....	23588	K1249	.....	23774	K1294.5	.....	25551	K1326	.....	25661.3
K1151	.....	23589	K1250	.....	23776	K1294.8	.....	25555.5	K1327	.....	25662
K1151.1	.....	23589.4	K1250.1	.....	23780	K1294.9	.....	25555	K1327.1	.....	25662.1
K1152	.....	23591.5	K1256	.....	23784	K1295	.....	25554	K1327.2	.....	25662.2
K1153	.....	23591	K1257	.....	23788	K1296	.....	25552	K1327.3	.....	25664.5
K1157	.....	23608	K1257.3	.....	23789	K1296.7	.....	25571	K1327.5	.....	25662.5
K1158	.....	23616	K1257.5	.....	23791	K1297	.....	25568	K1327.7	.....	25664
K1158.1	.....	23620	K1258	.....	23792	K1298	.....	25560	K1327.8	.....	25665
K1158.2	.....	23624	K1258.1	.....	23792.5	K1298.3	.....	25565	K1328	.....	25663
K1158.51	.....	23625.4	K1258.2	.....	23796	K1298.35	.....	25565.5	K1328.5	.....	25666
K1158.55	.....	23625	K1261	.....	23806	K1298.4	.....	25564	K1328.7	.....	25668
K1158.59	.....	23625.2	K1261.5	.....	23821	K1299	.....	25570	K1329	.....	25628.5
K1158.85	.....	23625.8	K1262	.....	23821.2	K1299.3	.....	25571.5	K1330	.....	25629.2
K1159	.....	23626	K1262.5	.....	23821.3	K1299.5	.....	25569	K1330.2	.....	25629.4
K1160	.....	23627	K1262.8	.....	23821.5	K1299.56	.....	25572.7	K1330.4	.....	25629.7
K1162	.....	23612	K1263	.....	23821.61	K1299.57	.....	25572.8	K1331.5	.....	25630
K1168	.....	23628	K1263.1	.....	23821.62	K1299.571	.....	25572.81	K1332	.....	25631
K1174	.....	23632	K1263.9	.....	23821.6	K1300	.....	25572	K1333	.....	25636
K1176	.....	23652	K1264	.....	23821.7	K1300.1	.....	25573.5	K1334	.....	25639.5
K1178	.....	23656	K1264.5	.....	23821.9	K1300.2	.....	25573	K1334.5	.....	25639
K1179	.....	23660	K1265	.....	23822	K1300.3	.....	25573.2	K1335	.....	25639.3
K1179.2	.....	23664	K1267	.....	23823	K1300.35	.....	25573.4	K1337	.....	25632
K1182	.....	23636	K1267.4	.....	23823.1	K1300.4	.....	25573.3	K1338	.....	25638
K1182.1	.....	23640	K1267.5	.....	23823.2	K1301	.....	25576	K1339	.....	25642
K1183	.....	23644	K1268	.....	23824	K1303	.....	25580	K1339.5	.....	25643
K1183.1	.....	23648	K1270	.....	23852	K1304	.....	25584	K1340	.....	25640
K1188	.....	23668	K1270.1	.....	23828	K1304.4	.....	25602.5	K1340.5	.....	25644
K1197	.....	23670	K1270.11	.....	23832	K1304.6	.....	25602.7	K1341	.....	25648
K1198	.....	23672	K1272	.....	23836	K1305	.....	25574	K1341.6	.....	25650
K1200	.....	23676	K1272.1	.....	23840	K1306	.....	25574.4	K1342	.....	25652
K1204	.....	23684	K1273.2	.....	23842	K1307	.....	25604	K1342.5	.....	25651.7
K1210	.....	23688	K1273.21	.....	23842.1	K1307.5	.....	25605	K1343	.....	25651
K1211	.....	23689	K1274	.....	23844	K1308.1	.....	25603	K1343.5	.....	25651.5
K1212	.....	23692	K1274.1	.....	23848	K1308.4	.....	25602	K1343.7	.....	25651.6
K1212.2	.....	23696	K1274.6	.....	23856	K1308.5	.....	25606	K1344	.....	25712
K1213	.....	23700	K1274.61	.....	23860	K1309	.....	25588	K1344.5	.....	25712.5
K1214	.....	23704	K1275.3	.....	23864	K1309.5	.....	25610	K1345	.....	25711.7
K1218	.....	23709	K1275.4	.....	23868	K1310	.....	25608	K1346	.....	25714
K1220	.....	23708	K1276	.....	23822.6	K1310.2	.....	25596	K1347	.....	25710
K1222	.....	23710	K1276.2	.....	23822.4	K1310.4	.....	25594	K1347.5	.....	25711
K1223	.....	23712	K1276.5	.....	23822.2	K1310.6	.....	25593	K1348	.....	25711.5
K1224	.....	23773	K1277	.....	23870	K1310.7	.....	25613	K1350	.....	25672
K1225	.....	23714	K1278	.....	23869.5	K1310.8	.....	25614	K1352	.....	25676
K1225.5	.....	23715	K1278.2	.....	23869	K1311	.....	25616	K1353	.....	25677
K1226	.....	23716	K1280	.....	23871.5	K1311.2	.....	25617	K1354	.....	25678
K1228	.....	23718	K1282	.....	23804	K1311.5	.....	25618	K1356	.....	25680
K1230	.....	23720	K1282.5	.....	23775	K1312	.....	25620	K1358	.....	25681
K1232	.....	23724	K1283	.....	25544	K1312.1	.....	25624	K1360	.....	25684
K1236	.....	23728	K1283.5	.....	25543	K1314	.....	25628	K1360.5	.....	25686
K1236.1	.....	23732	K1283.7	.....	25545	K1315	.....	25626	K1362	.....	25688
K1238	.....	23736	K1284	.....	25542	K1315.5	.....	25628.3	K1364	.....	25696
K1238.1	.....	23740	K1284.2	.....	25541	K1317	.....	25653.5	K1365	.....	25700
K1238.5	.....	23742	K1285	.....	25540	K1318	.....	25653	K1365.5	.....	25682
K1240	.....	23744	K1286	.....	25538	K1318.7	.....	25653.1	K1365.7	.....	25702
K1242	.....	23748	K1287	.....	25532	K1319	.....	25658	K1366	.....	25704
K1243	.....	23750	K1289	.....	25536	K1319.2	.....	25658.1	K1366.2	.....	25705

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K1366.4	.....	25705.5	K1420	.....	24989	K1459.94	.....	24847	K1536	.....	25408
K1367	.....	25709	K1422	.....	24988	K1459.95	.....	24848	K1537	.....	25417
K1368	.....	25708	K1424	.....	23592	K1460.6	.....	24844.5	K1538.5	.....	25418
K1368.3	.....	25709.5	K1424.5	.....	23593	K1460.7	.....	24845	K1540	.....	25470
K1369	.....	25708.5	K1426	.....	23604	K1462	.....	24846	K1541	.....	25472
K1369.5	.....	25709.7	K1426.5	.....	24978	K1462.2	.....	24840	K1541.3	.....	25473
K1369.6	.....	25709.8	K1427.4	.....	24974	K1462.21	.....	24844	K1541.6	.....	25386
K1371	.....	25717	K1427.8	.....	24948.5	K1462.39	.....	24828	K1542	.....	25388
K1371.1	.....	25717.1	K1428	.....	24987	K1462.4	.....	24836	K1544	.....	25390
K1371.5	.....	25717.5	K1430	.....	24968	K1462.41	.....	24832	K1545	.....	25404
K1372	.....	25716	K1431	.....	24966	K1462.6	.....	24852	K1545.6	.....	25400
K1373	.....	25718	K1432	.....	24964	K1462.61	.....	24856	K1547.5	.....	25406
K1373.5	.....	25718.5	K1433	.....	24963.5	K1462.8	.....	24860	K1547.9	.....	25360
K1374	.....	25719	K1434	.....	24972	K1462.81	.....	24864	K1548	.....	25356
K1376	.....	25720	K1435	.....	24973	K1463.1	.....	24880	K1548.3	.....	25364
K1378	.....	25722	K1435.2	.....	24963.4	K1464	.....	24868	K1548.5	.....	25368
K1379	.....	25724	K1435.3	.....	24963.2	K1464.1	.....	24872	K1548.6	.....	25370
K1380	.....	25732	K1435.4	.....	24963	K1468.05	.....	24858	K1548.7	.....	25372
K1380.2	.....	25734	K1435.5	.....	24961.2	K1468.5	.....	24882	K1548.9	.....	25373.5
K1380.3	.....	25728	K1435.7	.....	24961	K1476	.....	25508	K1548.91	.....	25373.6
K1382	.....	25736	K1435.8	.....	24960.5	K1478	.....	25510	K1549	.....	25373
K1382.8	.....	25738	K1436	.....	24960	K1482.5	.....	25516	K1549.1	.....	25318.6
K1383	.....	25740	K1437	.....	24951	K1483	.....	25512	K1549.15	.....	25318.4
K1400	.....	25068.7	K1438	.....	24952	K1484	.....	25504	K1549.2	.....	25319
K1402	.....	25068	K1438.1	.....	24956	K1485	.....	25503.8	K1549.25	.....	25319.05
K1405.5	.....	25058	K1438.2	.....	24957	K1486	.....	24944	K1549.3	.....	25319.1
K1406	.....	25060	K1438.4	.....	24957.5	K1486.5	.....	24942	K1549.35	.....	25319.3
K1407	.....	25064	K1439	.....	24950	K1488	.....	24946	K1549.4	.....	25317.2
K1407.2	.....	25064.2	K1439.4	.....	24950.5	K1489	.....	25503.7	K1549.7	.....	25317.6
K1407.3	.....	25064.3	K1439.6	.....	24950.6	K1489.1	.....	25503.65	K1550	.....	25318
K1407.5	.....	25064.1	K1442	.....	24976	K1489.2	.....	25503.6	K1550.5	.....	25317
K1407.7	.....	25064.4	K1442.1	.....	24970	K1490	.....	25500	K1551	.....	25320
K1408	.....	25065	K1442.2	.....	24969	K1490.1	.....	25503	K1551.2	.....	25324
K1408.1	.....	25066	K1442.5	.....	24980	K1490.15	.....	25503.5	K1551.5	.....	25328
K1408.3	.....	25067	K1442.7	.....	24982	K1491	.....	25502	K1551.6	.....	25329
K1409	.....	25066.2	K1443	.....	24984	K1496	.....	25492	K1551.8	.....	25330
K1409.1	.....	25066.4	K1443.5	.....	24986	K1498	.....	25488	K1551.9	.....	25331
K1410	.....	25050	K1444	.....	24948	K1500	.....	25485	K1552	.....	25332
K1410.3	.....	25049	K1444.2	.....	24987.5	K1506	.....	25476	K1552.4	.....	25336
K1410.5	.....	22990	K1444.3	.....	24987.3	K1506.5	.....	25474	K1552.6	.....	25340
K1411	.....	25044	K1444.4	.....	24987.7	K1506.6	.....	25474.5	K1553	.....	25352
K1411.2	.....	25040	K1444.5	.....	24949	K1507	.....	25480	K1553.2	.....	25352.5
K1411.22	.....	25042	K1445	.....	24947	K1507.5	.....	25482	K1553.5	.....	25374
K1411.23	.....	25042.5	K1446	.....	24946.5	K1508	.....	25468	K1554	.....	25353
K1411.24	.....	25043	K1446.5	.....	24941	K1508.5	.....	25461	K1554.1	.....	25354
K1411.25	.....	25046	K1447	.....	24940	K1509	.....	25425	K1554.2	.....	25353.5
K1411.3	.....	25047	K1449	.....	24938	K1509.5	.....	25464	K1554.4	.....	25342
K1411.31	.....	25047.1	K1450	.....	24939	K1510	.....	25460	K1555	.....	25344
K1411.4	.....	25036	K1452	.....	24936	K1510.5	.....	25458	K1555.8	.....	25346
K1411.6	.....	25032	K1454	.....	24932	K1511	.....	25436	K1558	.....	25348
K1411.7	.....	25031	K1455	.....	24928	K1512	.....	25449	K1558.2	.....	25348.5
K1411.72	.....	25028.5	K1456	.....	24924	K1513	.....	25444	K1558.3	.....	25349
K1411.75	.....	25029	K1457	.....	24929	K1514	.....	25448	K1558.32	.....	25349.5
K1411.8	.....	25030	K1457.5	.....	24926	K1515	.....	25452	K1558.33	.....	25351
K1412	.....	25024	K1458	.....	24923.7	K1516	.....	25440	K1558.34	.....	25350.4
K1412.3	.....	25028	K1459	.....	24920	K1517	.....	25432	K1558.35	.....	25350
K1412.5	.....	25026	K1459.2	.....	24888	K1517.2	.....	25434	K1558.4	.....	25311
K1412.51	.....	25026.1	K1459.21	.....	24892	K1518	.....	25424	K1558.5	.....	25312
K1413.1	.....	24996	K1459.4	.....	24900	K1518.5	.....	25421	K1558.6	.....	25316
K1413.3	.....	25000	K1459.41	.....	24904	K1519	.....	25422	K1558.7	.....	25310
K1413.31	.....	25004	K1459.6	.....	24908	K1522	.....	25420	K1559	.....	25280
K1416	.....	25012	K1459.61	.....	24912	K1524	.....	25416	K1559.5	.....	25284
K1417	.....	25014	K1459.73	.....	24923	K1528	.....	25414	K1559.7	.....	25288
K1418	.....	25016	K1459.76	.....	24922	K1532	.....	25412	K1559.74	.....	25286
K1419	.....	25018	K1459.8	.....	24918	K1532.5	.....	25411	K1559.75	.....	25285

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K1559.8	25279	K1616	25804	K3344.5	25918	K3395.55	26107.7				
K1559.9	25289	K1619	25773	K3344.7	25917.5	K3395.59	26101				
K1559.95	25278	K1620	25772	K3345	25917	K3395.6	26100				
K1560	25292	K1621	25776	K3345.3	25916	K3395.8	26104				
K1560.05	25296	K1621.4	25780	K3345.4	25910	K3395.9	26104.5				
K1560.2	25300	K1622	25782	K3345.5	25912	K3396	26105				
K1560.3	25290	K1622.5	25783	K3346	25920	K3396.2	26105.5				
K1560.31	25290.2	K1623	25784	K3347	25924	K3396.6	26112				
K1562	25308	K1623.5	25788	K3347.7	25925	K3396.8	26092				
K1562.93	25274.6	K1624	25790	K3348.4	25940	K3396.9	26115				
K1563	25264	K1624.5	25791	K3348.7	25938	K3397	26116				
K1563.2	25266	K1624.7	25791.4	K3349	25928	K3397.5	26117				
K1563.5	25268	K1625	25808	K3350	25936	K3397.8	26119				
K1564	25272	K1626	25812	K3352	25930	K3397.95	26119.5				
K1564.2	25273	K1626.3	25820	K3354	25932	K3398	26120				
K1564.7	25274	K1626.5	25816	K3356	25926	K3398.5	26122				
K1564.8	25274.2	K1628	25824	K3358	25944	K3398.8	26123.5				
K1564.9	25274.4	K1628.5	25828	K3360	25948	K3398.9	26123				
K1565	25274.3	K1629	25832	K3360.5	25948.5	K3399	26124				
K1565.5	25249	K1629.3	25833	K3361	25949	K3399.1	26128				
K1566	25252	K1629.36	25834	K3362	26020	K3399.8	26129				
K1566.3	25256	K1629.8	25837	K3362.5	26021	K3400	26130				
K1566.6	25275	K1630	25840	K3363	26022	K3400.15	26132				
K1566.7	25275.5	K1630.4	25833.5	K3366	25968	K3400.18	26134				
K1566.8	25275.6	K1630.6	25844	K3366.5	25962	K3400.2	26136				
K1567.5	25275.7	K1631	25848	K3367.9	25980	K3400.4	26140				
K1568	25276	K1632	25872	K3368	25972	K3400.6	26142				
K1569	25380	K1632.4	25884	K3368.1	25976	K3400.7	26142.1				
K1569.3	25384	K1632.6	25886	K3368.5	25984	K3401	26144				
K1571.5	25260.2	K1633	25876	K3372	25988	K3401.4	26152				
K1572	25260	K1923.71	24148	K3373	25952	K3401.6	26156				
K1572.4	25258	K1954.4	24450	K3373.3	25956	K3401.8	26160				
K1572.5	25248.5	K1993.2	24715	K3374	25964	K3402	26172				
K1574	25248	K3336	25887	K3376	26024	K3403	26164				
K1575	25244	K3338	25888	K3376.5	26028	K3403.1	26168				
K1576	25240	K3338.4	25897.5	K3379	25992	K3403.2	26170				
K1578	25239	K3338.5	25898	K3381	26000	K3403.4	26169				
K1580	25262	K3338.7	25899	K3381.1	26004	K3403.41	26169.5				
K1582	25771	K3339	25892	K3382	26008	K3404	26176				
K1587.5	25769	K3339.1	25896	K3384	26012	K3405.4	26184				
K1588	25770	K3339.2	25890	K3386	26016	K3406	26188				
K1592	25742	K3339.6	25900	K3387	26018	K3408	26192				
K1594	25748	K3339.8	25902	K3389	26032	K3412	26200				
K1596	25744	K3340	25904	K3390	26040	K3415	26212				
K1597	25746	K3340.5	25906	K3390.1	26048	K3422.5	26214				
K1599	25750	K3340.51	25906.1	K3390.4	26044	K3423	26216				
K1600	25752	K3340.52	25906.3	K3391	26036	K3424	26220				
K1600.5	25754	K3340.65	25907.1	K3392	26052	K3424.1	26224				
K1601	25756	K3340.67	25907.15	K3392.5	26080	K3426	26228				
K1601.1	25755	K3340.68	25907.2	K3392.7	26056	K3428	26232				
K1601.15	25754.5	K3340.69	25906.7	K3392.8	26058	K3429	26244				
K1601.3	25756.5	K3340.7	25907	K3393	26060	K3429.4	26252				
K1601.5	25760	K3340.8	25907.4	K3393.1	26064	K3429.6	26248				
K1603	25764	K3340.85	25907.6	K3393.3	26068	K3429.8	26256				
K1603.5	25948.7	K3340.87	25907.62	K3393.4	26072	K3430	26236				
K1604	25792	K3340.9	25907.65	K3393.5	26076	K3430.1	26240				
K1605	25796	K3340.94	25907.25	K3393.6	26088	K3432	26260				
K1605.5	25794	K3340.95	25907.3	K3393.7	26108	K3436	26416				
K1608	25800	K3341	25850	K3395	26096	K3437	26420				
K1610.5	25798	K3342.4	25852	K3395.15	26081	K3438	26264				
K1610.7	25802	K3342.41	25856	K3395.2	26082	K3440	26288				
K1611.8	25803	K3342.6	25860	K3395.3	26106	K3444	26292				
K1612	25803.5	K3342.61	25864	K3395.35	26106.5	K3446	26268				
K1612.5	25803.7	K3343	25908	K3395.4	26107	K3448	26296				
K1613	25806	K3343.5	25914	K3395.5	26107.5	K3449	26272				

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K3450	.....	26276	K3451.24	.....	26304	K3458	.....	26352	K3463.8	.....	26392
K3450.3	.....	26280	K3451.4	.....	26336	K3458.4	.....	26356	K3464	.....	26384
K3450.4	.....	26281	K3452	.....	26332	K3459	.....	26360	K3464.4	.....	26396
K3450.41	.....	26281.5	K3453	.....	26328	K3459.1	.....	26364	K3465	.....	26400
K3450.44	.....	26282	K3454	.....	26340	K3460	.....	26376	K3469	.....	26408
K3450.46	.....	26283	K3455	.....	26324	K3460.1	.....	26380	K3469.7	.....	26404
K3450.5	.....	26284	K3456	.....	26316	K3460.3	.....	26382	K3634.2	.....	19132.5
K3451	.....	26312	K3456.5	.....	26320	K3461	.....	26368	K6160.4	.....	6054
K3451.2	.....	26300	K3456.7	.....	26344	K3461.2	.....	26372	K7605.5	.....	29146
K3451.23	.....	26308	K3457	.....	26348	K3463.4	.....	26388			