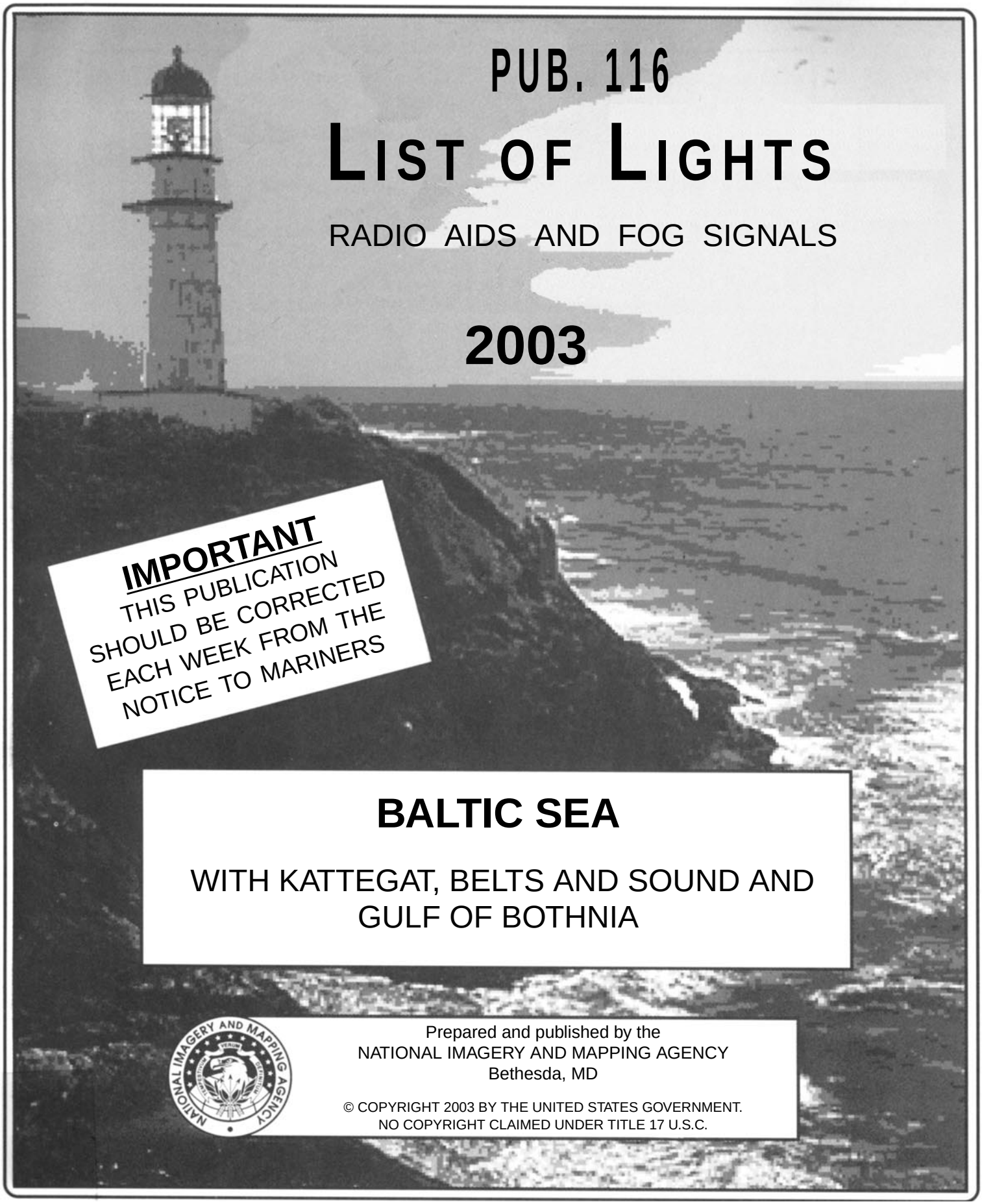

PUB. 116

LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

2003

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

BALTIC SEA

WITH KATTEGAT, BELTS AND SOUND AND GULF OF BOTHNIA

Prepared and published by the
NATIONAL IMAGERY AND MAPPING AGENCY
Bethesda, MD

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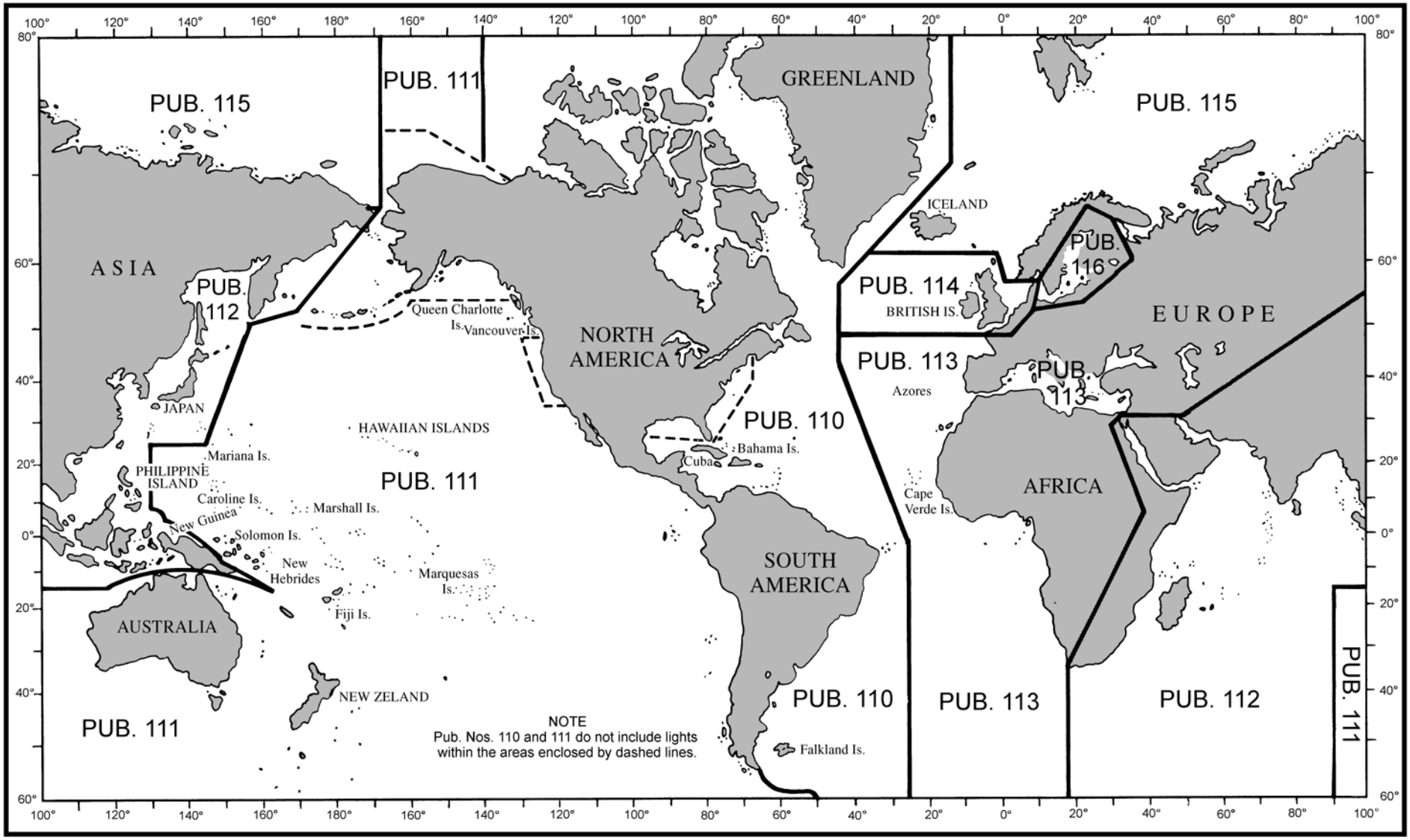
NIMA REF. NO. LLPUB116

LIST OF LIGHTS LIMITS
NATIONAL IMAGERY AND MAPPING AGENCY



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 sinker 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 2003 edition of Pub. 116, List of Lights, Radio Aids and Fog Signals for Baltic Sea with Kattegat, Belts and Sound and Gulf of Bothnia, cancels the previous edition of Pub. 116.

This edition contains information available to the National Imagery and Mapping Agency (NIMA) up to 29 March 2003, including Notice to Mariners No. 13 of 2002.

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 NIMA in matters affecting the status and boundaries of States and Territories.

RECORD OF CORRECTIONS
PUBLISHED IN WEEKLY NOTICE TO MARINERS

NOTICE TO MARINERS

YEAR 2003				YEAR 2004			
1.....	14.....	27.....	40.....	1.....	14.....	27.....	40.....
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7.....	20.....	33.....	46.....	7.....	20.....	33.....	46.....
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INTRODUCTION

The National Imagery and Mapping 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:

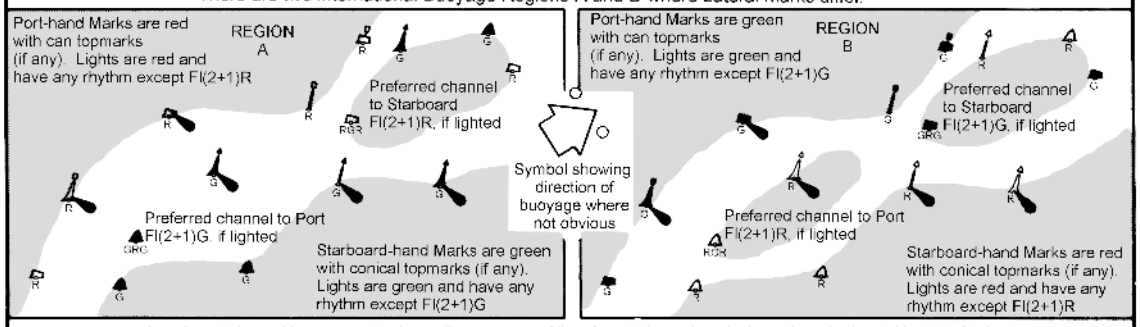
MARITIME SAFETY INFORMATION DIVISION
ST D 44
NATIONAL IMAGERY AND MAPPING AGENCY
4600 SANGAMORE ROAD
BETHESDA, MD 20816-5003

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.



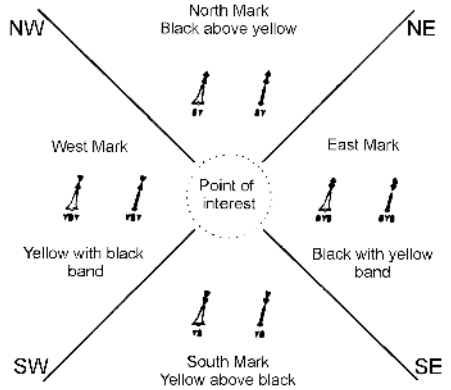
A preferred channel buoy may also be a pillar or a spar. All preferred channel marks have three horizontal bands of color.

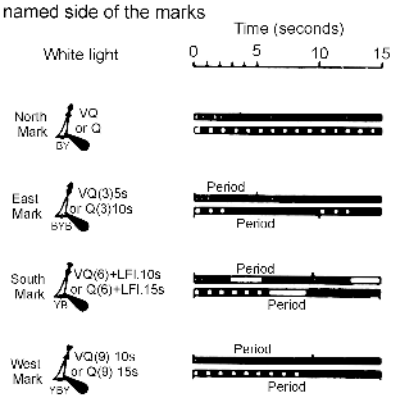
All marks other than Lateral Marks are the same in REGIONS A and B

UNLIGHTED MARKS | **LIGHTED MARKS**

Cardinal Marks indicating navigable water to the named side of the marks

Topmark: 2 black cones





* 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

Safe Water Marks, such as mid-channel and landfall marks.

Body red and white stripes
Topmark (if any): red ball

Special Marks, not primarily to assist navigation but to indicate special features.

Body (shape optional): yellow
Topmark (if any) yellow X

BEACONS with IALA System topmarks are charted by upright symbols, eg. (minor beacon) or, on smaller-scale charts:

Beacon towers are charted: etc (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

MARITIME SAFETY INFORMATION DIVISION WEB SITE

The National Imagery and Mapping Agency (NIMA) Maritime Safety Information Division Web site 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, NIMA 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, Radar Navigation Manual and Maneuvering Board Manual.

The Maritime Safety Information Division Web site can be accessed via the NIMA Homepage (www.nima.mil) under the Safety of Navigation icon or directly at http://pollux.nss.nima.mil. Any questions concerning the Maritime Safety Information Center Web site should be directed to:

MARITIME SAFETY INFORMATION DIVISION
ATTN: NSS STAFF
ST D 44
NATIONAL IMAGERY AND MAPPING AGENCY
4600 SANGAMORE ROAD
BETHESDA, MD 20816-5003

Telephone: (1) 301-227-3296 or DSN 287-3296
Fax: (1) 301-227-4211
E-mail: webmaster_nss@nima.mil

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

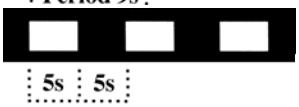
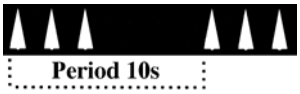
Where the lights of different countries intermingle in the list they are distinguished by the following letters:

(D.)	Denmark	(P.)	Poland
(F.)	Finland	(R.)	Russia
(G.)	Germany	(S.)	Sweden

Other abbreviations:

Al.—alternating
bl.—blast
Bu.—blue
Dir.—directional
ec.—eclipsed
ev.—every
F.—fixed
Fl.—flashing
fl.—flash
G.—green
horiz.—horizontal
intens.—intensified
I.Q.— interrupted quick flashing
Iso.—isophase
I.V.Q.—interrupted very quick flashing
Km.— kilometer (0.62137 mile)
L.Fl.—long flashing
lt.—lit
Mo.—Morse code
min.—minute
obsc.—obscured
Oc.—occulting
Or.—orange
Q.—quick flashing
R.—red
s.—seconds
si.—silent
U.Q.—ultra quick flashing
unintens.—unintensified
vert.—vertical
Vi.—violet
vis.—visible
V.Q.— very quick 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.	
Group occulting	Oc.(2)	An occulting light for which a group of eclipses, specified in number, is regularly repeated.	
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.	
Isophase	Iso.	A light for which all durations of light and darkness are clearly equal.	
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).	
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.	
Group flashing	Fl.(3)	A flashing light for which a group of flashes, specified in number, is regularly repeated.	
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.	
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.	
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.	
	Q.(9)		
	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.

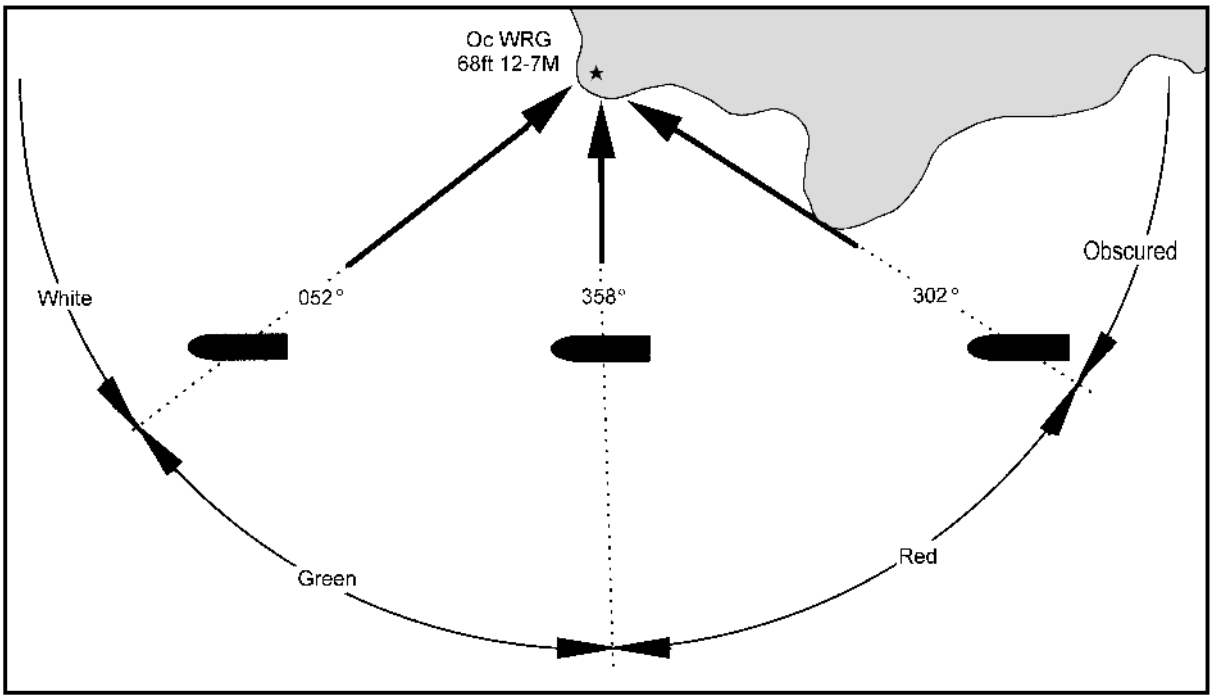
Aeromarine lights—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

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.


Oc WRG
68ft 12-7M
Obscured
White
052°
358°
302°
Green
Red

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."

In the Baltic Sea, when lights with sectors of differing colors are encountered, the fairway is usually covered by a white sector to a vessel approaching the light, a green sector to starboard and a red sector to port. The white navigational sector may be very narrow and special care should be taken to keep on its center line.

In winter, most of the lighthouses and their surroundings are covered with snow and are difficult to distinguish. Due to frequent "snow bursts" one light may be showing at its full brilliancy while another in the same vicinity may be completely obscured even though the visibility may appear to be exceptional; for the same reason a light showing at full brilliancy may suddenly become obscured.

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 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 recent, is listed.

Radio navigational aids and certain lights on the Russian Arctic coast and adjacent islands north of the Arctic Circle, from Novaya Zemlya east to the Bering Strait, have been omitted due to the lack of reliable information.

Russian lightships are on their station during periods of navigation. They leave their stations only when forced to do so because of ice and are then replaced as soon as possible. Lightships, by day, show a ball over a yellow flag with a blue St. George's cross. If a vessel is seen standing 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 the rockets only are used.

When not on their proper stations, the lightships discontinue their characteristic lights and fog signals and if possible 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 International Code Signal "LO", or will show a red and 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 white lights 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 underway, and if proceeding under its own power, hoists two black balls, one forward and one aft.

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

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

At lighthouses: In groups of double strokes, the interval between the groups being not more than 3 minutes.

On board 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 interval between the double or triple strokes in the groups is reduced and the bell is sounded continuously in double or triple strokes until the vessel is past the light or clear of danger.

Swedish lights are exhibited 15 minutes after sunset and extinguished at sunrise. Unless otherwise stated, they are shown throughout the year except when navigation in their vicinity is blocked by ice. Many of the smaller lights in Sweden are private lights, which are not constantly maintained.

Swedish lightships only leave their stations when forced to because of ice and are then replaced as soon as circumstances allow. Should a vessel be observed standing into danger, guns may be fired. Reserve lightships are painted red with "RESERV" in white on both sides.

Swedish lightships, when out of position, discontinue their characteristic lights and fog signals and, if possible, will lower their daymarks. The following signals are

shown:

By day—(a) Two black balls, one forward and one aft. Red flags may be substituted for the balls.

(b) The International Code Signal "LO".

By night—(a) Two red lights, one forward and one aft.

(b) Two flare-ups (one white and one red) or flashes shown simultaneously every 15 minutes. A red and white light may be used in place of the flare-ups.

A lightship underway shows the same lights and makes the same sound as other vessels underway.

All principal *Finnish* lights are exhibited from sunset to sunrise and are shown when navigation is open. Lights southward of 62° N. are extinguished from June 15th to July 1st; lights northward of 62° N. are extinguished from May 25th to July 20th.

Finnish lightships carry a riding light on the forestay. When not on their proper stations, the regular lights will be extinguished, no fog signals sounded, the daymarks removed if possible, and the following signals shown:

By day—(a) Two black balls, one forward and one aft.

(b) The International Code Signal "LO".

By night—Two red lights, one forward and one aft; also one red and white light will be shown simultaneously over the gunwale at least every 15 minutes.

Lightships are kept on their stations as long as ice conditions permit and, if forced to leave, return as soon as circumstances allow. If the mechanical fog signal is disabled, a bell will be rung.

When a pilot is stationed on board and is available, the International Code Flag "H" will be flown by day and a blue flare exhibited at night. If the pilot is absent or unable to leave the vessel, the International Code Flag "H" will be hoisted and lowered immediately. Explanation will be given by International Code Signal, or at night by Morse code. A lightship under way shows the same lights and makes the same sound signals as other vessels under way and, if proceeding under its own power, will hoist two black balls, one forward and one aft.

German lightships may be driven from their stations by ice, but are replaced as soon as circumstances allow. When out of position by day they hoist the International Code Signal "LO", two red flags, one forward and one aft, and the distinguishing masthead mark is lowered. By night two red lights are shown, one forward and one aft. In addition, at intervals of less than 15 minutes, one white and one red light are displayed horizontally 9 feet apart from the deck for a period of one minute. In fog, only the bell fog signals prescribed in the navigation regulations are sounded. If a vessel is seen standing into danger a gun will be fired (groups of 2 reports at intervals of 3 minutes), the bell will be rung and signals made in accordance with the International Code of Signals.

Danish lights are exhibited 15 minutes after sunset and extinguqished 15 minutes before sunrise.

Danish lightships carry a riding light on the forestay. Lightships, when out of position either because they have drifted or are on passage to their station or harbor, discontinue their characteristic lights and fog signals. If they have drifted out of position they will show:

By day—two black balls, one forward and one aft, and hoist the International Code Signal "LO".

By night—two red lights will be shown, one forward and one aft; also one red and one white light will be shown simultaneously over the gunwale at least every 15 minutes.

A lightship under way shows the same lights, and makes the same sound signals as other vessels under way, and if proceeding under its own power, hoists two black balls, one forward and one aft. They are kept on their stations as long as ice permits and, when forced to leave, return as soon as circumstances allow.

Fog signals are sounded when visibility is 3 miles or less. Should the mechanical fog signal be disabled, a hand horn is used. Should a vessel be observed to be running into danger, the Morse letter "U" will be made by siren or flashing light, the International Code flag "U" hoisted. When pilots are available, a flag is displayed at the masthead of the lightship, upper half white, lower half red. By night, pilot signals are answered by burning a flare.

WRECKING-MARKING VESSELS

A vessel marking a wreck in *Danish* or *Swedish* waters can be either a lightship or some other vessel fitted as such, but the hull is usually of some color other than red and will be distinguished as follows:

By day—Three green balls displayed from a yard; one ball on the yardarm nearest the wreck, and two balls vertically disposed on the other yardarm.

By night—A bell is sounded for about 10 seconds at intervals of not more than two minutes.

During fog—A bell is sounded for about 10 seconds at intervals of not more than 2 minutes.

When the vessel is anchored in a direction between north and east from the wreck, a bell sounds a series of double strokes.

When a vessel is anchored in a direction between south and west from the wreck, a bell sounds a series of single strokes.

Wreck-marking lighted buoys, which are painted green, exhibit a green group flashing light, giving two flashes when moored in a direction between N and E of the wreck, and a green flashing light when moored in a direction S and W of the wreck.

Wreck-marking spar buoys, which are painted green, have two green flags when moored in a direction between N and E of the wreck, and one green flag when moored in the direction S and W of the wreck; reflectors, when fitted, are green.

Wreck mark are always placed in the northeast or southwest quadrants from the wreck and between the latter and

the main traffic route. In open water they are placed as nearly as possible northeastward or southwestward from the wreck; the narrow channels they are placed as nearly as possible on a line from the wreck at right angles to the direction of the channel, so that it may be necessary to place the marking on one side or the other of appropriate quadrant.

In *Danish* waters, a wreck, or other obstruction which shows above water, may be marked by a quick flashing light displayed on the wreck or obstruction itself. This light will be white when an inbound vessel is to keep the wreck to her starboard hand, and red when she is to keep it on her port hand.

When another vessel is considered to be approaching too closely, one or more warning shots will be fired if possible from the wreck-marking vessel.

A vessel marking a wreck in *German* waters shall be painted green and may be marked “WRACK” or “W” in white. Temporary wreckmarking vessels may be painted some color other than green, but shall display a green board with the word “WRACK” in white letters on each side.

The following lights and shapes are displayed:

To be passed on the mariner's starboard hand:

By day—A green cone point up above two green balls, arranged vertically.

By night—Three fixed green lights arranged vertically.

Fog signal—Three strokes in succession on a bell, at intervals of not more than 30 seconds, or the rapid ringing of a bell for 5 seconds followed by 5 single strokes.

To be passed on the mariner's port hand:

By day—A green cylinder above a green ball, disposed vertically.

By night—Two fixed green lights, disposed vertically.

Fog signal—Two strokes in succession on a bell, at intervals of not more than 30 seconds, or the rapid ringing of a bell for 5 seconds followed by 5 double strokes.

To be passed on either hand:

By day—Two green balls, disposed vertically, at either end of a crossyard.

By night—Two fixed green lights, disposed vertically, at either end of a crossyard.

Fog signal—Four strokes in succession on a bell, at intervals of not more than 30 seconds, or the rapid ringing of a bell for 5 seconds followed by 2 groups of 4 single strokes.

Note—The ordinary riding light for a vessel at anchor is not exhibited.

If a vessel is seen to be running into danger, a gun will be fired (groups of 2 reports at intervals of 3 minutes), the bell will be rung and signals made in accordance with the International Code of Signals.

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:

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;

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;

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;

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

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;

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:

Radiobeacons 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.

Radiobeacons, 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)	16.5
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–multipy 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.

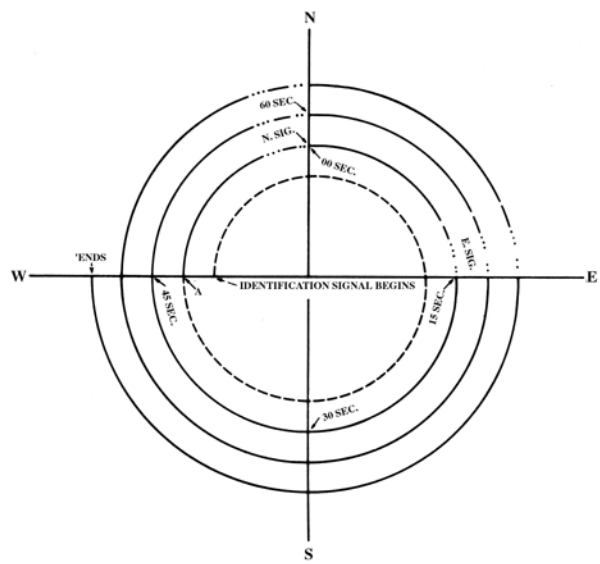
(f) No quadrantal error arises, and no corrections are necessary except as in (c) and (d) above.

(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 RADIOBEACON
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 refrence 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** dentoes 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	Radiobeacons Almanacs
9	Sub-set differential GNSS corrections
15	Ionospheric corrections
16	Special messages

Section 1

West Coast of Sweden

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
4 *B 2196*	Kattholmen.	59° 03.6′ N 11° 09.5′ E	**Fl.W.R.G.** period 3s	31 **9**	W. 6 R. 5 G. 4	White hut, black roof.	G. 178°-205°, W.-225°, R.-297°, G.-023°, W.-026°30′, R.-055°, G.-083°.
8 *B 2192*	Tjurholmsknappen.	58° 59.0′ N 11° 06.0′ E	**Fl.(2)W.R.G.** period 6s	46 **14**	W. 7 R. 5 G. 4	White tower; 13.	G. 194°-236°, W.-323°, R.-356°, G.-022°30′, W.-028°, R.-066°, G.-074°, W.-107°, R.-117°.
12 *B 2190*	Klovningarna Range, front.	58° 55.9′ N 10° 59.5′ E	**Iso.W.R.G.** period 4s	40 **12**	W. 11 R. 8 G. 7	White tower; 20.	G. 327°-051°, W.-059°, R.-132°, G.-140°30′, W.-145°, R.-216°, G.-242°, W.-255°30′, R.-327°.
	RACON		**K(– • –)**		12		
16 *B 2190.1*	-Rear, Nord Hallso, about 6.4 kilometers 053° from front.	58° 58.0′ N 11° 04.8′ E	**Q.W.R.G.**	125 **38**	W. 10 W. 9 R. 6 G. 5	White lantern.	W. 049°-057°, G. 090°-115°, W.-122°, R.-137°30′, W. (unintensified)-203°.
20 *B 2188*	Sodra Langon Range, front.	58° 56.0′ N 11° 08.0′ E	**Iso.W.R.G.** period 4s	16 **5**	W. 7 W. 5 R. 3 G. 2	White lantern on pedestal.	W. shore-220°, G.-315°, W.-321°, R.-340°.
24 *B 2188.1*	-Rear, 500 meters 161°30′ from front.	58° 56.1′ N 11° 07.9′ E	**Q.W.R.**	49 **15**	W. 7 W. 4 R. 3	White lantern on pedestal.	W. shore-180°, R.-200°, W.-250°.
28 *B 2187*	Stromstad (Killingsholmen), E. side of island.	58° 56.0′ N 11° 09.0′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 6 R. 4 G. 3	White lantern.	G. 040°30′-051°, W.-053°, R. 078°, obsc.-222°, G. (unintensified)-233°, W. (unintensified)-242°, R. (unintensified)-251°, G. (unintensified)-262°, W. (unintensified)-272°, R. (unintensified)-353°, W. (unintensified)-040°30′.
32 *B 2186*	Kristhallan.	58° 56.0′ N 11° 08.0′ E	**Fl.(3)W.R.G.** period 9s	26 **8**	W. 9 R. 6 G. 5	White lantern on pedestal.	G. 285°-303°, W.-333°, R.-033°, G.-096°, W.-100°, R.-107°.
36 *B 2185*	Halsorholmen.	58° 56.0′ N 11° 08.0′ E	**Fl.W.** period 3s fl. 0.2s, ec. 2.8s	25 **8**	2	White lantern on cairn.	
40 *B 2184*	Likholmen.	58° 56.0′ N 11° 07.0′ E	**Q.W.R.G.**	27 **8**	W. 6 R. 4 G. 3	White lantern.	G. 197°-243°, W.-250°, R.-324°, G.-034°, W.-036°30′, R.-058°, G.-069°, W.-075°, R.-197°.
44 *B 2181*	Kabblingarna, on S. islet.	58° 54.8′ N 11° 05.7′ E	**Fl.W.R.G.** period 9s	16 **5**	W. 6 R. 4 G. 3	Red lantern.	R. 187°30′-202°, G.-035°, W.-062°, R.-075°30′.
48 *B 2178*	Ekenas Range, front.	58° 54.0′ N 11° 03.0′ E	**F.G.**	49 **15**	6	White triangle on post.	Fishing light.
52 *B 2178.1*	-Rear, 165 meters 240° from front.	58° 53.8′ N 11° 02.5′ E	**F.G.**	85 **26**	6	Post, white triangular daymark, point down.	Fishing light.
56 *B 2179*	Ekenas Range, front.	58° 54.0′ N 11° 03.0′ E	**F.R.**	12 **4**	3	Column.	Fishing light.
60 *B 2179.1*	-Rear, about 165 meters 176° from front.	58° 53.7′ N 11° 02.8′ E	**F.R.**	15 **5**	3	Column.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
64 *B 2176*	Sneholm, E. side of Stora Sneholm.	58° 53.5′ N 11° 03.9′ E	**Fl.W.R.G.** period 3s	39 **12**	W. 8 R. 5 G. 4	White concrete tower, black band; 36.	G. 123°-167°, W.-182°, R.-191°, G.-248°, W.-250°, R.-292°, G.-335°, W.-338°, R.-347°, G.-033°.
68 *B 2169*	Kostersundet Sodra Range, front.	58° 53.0′ N 11° 00.0′ E	**F.R.**	39 **12**	6	Post, white triangular daymark, black border.	Fishing light.
72 *B 2169.1*	-Rear, about 95 meters 015° from front.	58° 53.3′ N 11° 00.1′ E	**F.R.**	59 **18**	6	Post, white triangular daymark, black border.	Fishing light.
76 *B 2173*	Vattenholmen.	58° 52.5′ N 11° 06.4′ E	**Fl.(2)W.R.G.** period 6s	33 **10**	W. 8 R. 6 G. 5	Red lantern.	G. 337°-007°, W.-013°, R.-017°30′, obsc.-038°, G.-103°, W.-115°, R.-150°.
84 *B 2164*	Lilla Brattskar.	58° 51.9′ N 11° 04.2′ E	**Fl.W.R.G.** period 3s	31 **9**	W. 5 R. 3 G. 2	Lantern on pole; 7.	G. 000°-028°30′, W.- 036°30′, R.-152°, G.- 211°, W.-230°, R.-250°.
88 *B 2163*	Rundegra.	58° 51.2′ N 11° 02.8′ E	**Fl.W.R.G.** period 2s fl. 0.4s, ec. 1.6s	26 **8**	W. 5 R. 3 G. 2	White lantern on pedestal.	G. 197°-225°, W.-240°, R.-288°, G.-015°, W.-020°, R.-037°. Fishing light.
92 *B 2162*	Skareskar.	58° 50.0′ N 11° 03.0′ E	**Fl.(4)W.R.G.** period 12s	39 **12**	W. 5 R. 3 G. 2	White lantern on pedestal.	G. 264°-042°, W.-050°, R.-106°, G.-188°, R.-264°. Fishing light.
96 *B 2159*	Ursholmen, Kosteroarna, SW. side.	58° 50.0′ N 10° 59.4′ E	**L.Fl.(2)W.R.G.** period 15s	108 **33**	W. 10 R. 7 G. 6	White round tower, black band; 42.	R. 349°-036°, W.-169°, R.-174°, W.-337°, G.-341°, W.-349°.
108 *B 2168*	-Siesadan.	58° 52.6′ N 11° 00.5′ E	**Q.W.R.G.**	16 **5**	W. 3 R. 1 G. 1	White lantern on pedestal.	G. 084°-129°, W.-136°, R.-166°, W.-084°. Fishing light. Shown as needed.
112 *B 2157*	**Svangen.**	58° 48.0′ N 11° 07.2′ E	**Fl.W.R.G.** period 3s	70 **21**	W. **16** R. 13 G. 12	White lantern.	R. 302°-025°, G.-042°, W.-047°, R.-076°, G.-107°, W.-108°30′, R.-136°, G.-167°30′, W.-169°30′, R.-204°, W.-238°.
114 *B 2153*	Bissen.	58° 48.1′ N 11° 09.3′ E	**Fl.(2)W.R.G.** period 6s	28 **9**	W. 6 R. 4 G. 4	Red lantern on tower; 23.	G. shore-328°, W.-330°, R.-346°, W. (unintensified)-125°, G.-140°, W.-143°, R.-156°.
116 *B 2155*	Ramskar.	58° 45.4′ N 10° 59.5′ E	**Fl.(3)W.R.G.** period 9s	62 **19**	W. 9 R. 6 G. 5	White tower, black band; 63.	G. 346°30′ -002°, W.-046°, R.-078°, G.-108°, W.-143°, R.-189°, G.-220°, W.-263°, G.-272°, R.-279°, W.-338°, R.-346°30′.
	RACON		**M(– –)**		13		
120 *B 2151*	Havstenssund Range, front.	58° 45.0′ N 11° 11.0′ E	**Iso.W.R.G.** period 4s	36 **11**	W. 10 R. 7 G. 6	Red lantern.	G. shore-012°, R.-040°, W.-179°, G.-187°, W.-189°, R.-195°.
124 *B 2151.1*	-Rear, about 1.2 km., 013° from front.	58° 46.0′ N 11° 11.0′ E	**Q.R.**	69 **21**	11	Red lantern.	Visible on range line only.
128 *B 2149*	Vacker Rock.	58° 42.8′ N 11° 09.7′ E	**Fl.(4)W.R.G.** period 12s	44 **14**	W. 8 R. 6 G. 5	White tower, red top, black stripe on gray conical base; 44.	G. 344°30′-016°, W.-019°, R.-034°, G.-071°, W.-085°30′, R.-099°, G.-285°, R.-344°30′.
132 *B 2142*	Stangeskar.	58° 39.6′ N 11° 11.6′ E	**Fl.W.R.G.** period 3s	28 **9**	W. 9 R. 6 G. 5	White tower on black base; 24.	G. 154°30′-159°, W.-161°, R.-243°, G.-269°30′, W.-272°, R.-289°, G.-354°, W.-356°, R.-065°.
136 *B 2138*	Bramskar.	58° 39.3′ N 11° 09.5′ E	**Fl.W.R.G.** period 6s	31 **9**	W. 8 R. 6 G. 5	White lantern; 30.	G. 002°-010°, W.-015°, R.-020°, G.-067°30′, W.-097°, R.-118°, obsc.-248°, G.-255°30′, W.-258°, R.-272°, G.-287°30′, W.-306°, R.-328°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
	GREBBESTAD:						
140 *B 2144*	-Ottero, NW. side.	58° 40.0′ N 11° 13.0′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 6 R. 4 G. 3	White lantern.	G. -55°-087°, W.-093°, R.-129°, G.-221°.
144 *B 2146*	-Svinnas Range, front.	58° 40.6′ N 11° 14.5′ E	**Q.W.R.G.**	18 **5**	W. 3 R. 6 G. 2	White square daymark, lantern on pedestal.	R. (intensified) on range line. G. 235°-239°, W.-243°, R.-257°, R. (unintensified)- 040°.
148 *B 2146.1*	- -Rear, 250 meters 042° from front.	58° 40.7′ N 11° 14.7′ E	**Q.R.**	27 **8**	5	White square daymark, lantern on pedestal.	Visible on range line only.
152 *B 2147*	-Range, front.	58° 41.3′ N 11° 15.3′ E	**F.R.**	16 **5**	6	White triangular daymark, point up, and lantern on pedestal.	
156 *B 2147.1*	- -Rear, about 105 meters 010°30′ from front.	58° 41.4′ N 11° 15.4′ E	**F.R.**	29 **9**	6	White triangular daymark, point down, and lantern on pedestal.	
	FJALLBACKA APPROACH:						
160 *B 2140*	-Djupskar.	58° 38.2′ N 11° 11.8′ E	**Fl.(3)W.R.G.** period 9s fl. 0.7s, ec. 1.2s fl. 0.7s, ec. 1.2s fl. 0.7s, ec. 4.5s	29 **9**	W. 8 R. 5 G. 4	White tower, black band; 21.	G. 250°-339°, W.-341°30′, R.-070°, G.-123°, W.-126°, R.-145°, G.-178°30′, W.-181°, R.-250°.
164 *B 2131*	-Sodra Syster.	58° 36.0′ N 11° 09.0′ E	**Fl.(2)W.R.G.** period 6s	47 **14**	W. 6 R. 4 G. 3	White tower, black base; 30.	G. 320°-004°, W.-026°, R.-039°, G.-048°, W.-072°30′, R.085°, G.-117°, W.-162°, R.-219°, G.-252°30′, W.-272° R.-320°.
168 *B 2132*	-Brande Holmen, S. extremity.	58° 36.0′ N 11° 12.0′ E	**Q.W.R.G.**	56 **17**	W. 5 R. 3 G. 2	White structure; 22.	G. 251°30′-267°30′, W.-273°, R.-296°, W. (unintensified)-050°30′, G.-093°, W.-097°, R.-115°. Obscured from approximately 076°-083°.
172 *B 2133*	-Trybergsholm.	58° 36.0′ N 11° 13.0′ E	**Oc.(2)W.R.G.** period 9s	21 **6**	W. 5 R. 3 G. 2	White lantern.	G. 047°30′-063°, W.-072°, R.-150°, G.-225°, W.-228°, R.-241°.
176 *B 2134*	-Testholmen.	58° 36.0′ N 11° 14.0′ E	**Q.W.R.G.**	16 **5**	W. 6 R. 4 G. 3	White lantern.	G. 140°-155°30′, W.-157°, R.-213°, G.-316°30′, W.-319°, R.-327°.
180 *B 2124*	-Kalvoskar.	58° 35.0′ N 11° 15.0′ E	**Iso.W.R.G.** period 4s	13 **4**	W. 6 R. 4 G. 3	White lantern.	G. 000°-016°, W.-019°, R.-068°, G.-133°, W.-138°, R.-149°.
184 *B 2135*	-Lilla Kotto.	58° 36.2′ N 11° 15.5′ E	**Fl.W.R.G.** period 3s	35 **11**	W. 6 R. 4 G. 3	White lantern.	G. 302°-318°30′, W.-328°, R.-340°, W. (unintensified)-071°, G.-086°30′, W.-092°, R.-114°, W. (unintensified)-150°, G.-170°, W.-173°, R.-178°.
192 *B 2126*	Vaderobod.	58° 32.5′ N 11° 01.9′ E	**L.Fl.W.R.G.** period 8s	105 **32**	W. 10 R. 7 G. 6	Red tower; 62.	R. 145°30′-190°, R. (unintensified)-229°, G.-331°, W.-145°30′.
	RACON		**C(– • – •)** period 30s		**18**		
196 *B 2127*	Skalholmen.	58° 32.5′ N 11° 05.6′ E	**Fl.W.R.G.** period 6s	45 **14**	W. 8 R. 6 G. 5	White metal tower; 29.	G. 167°-184°, W.-187°, R.-208°, G.-218°, W.-220°, R.-235°, G.-289°, W.-292°, R.-315°, G.-324°, W.-328°, R.-353°, G.-002°30′, W.-008°, R.-032°.
200 *B 2120*	Sandviksholmen, N. side.	58° 34.0′ N 11° 15.0′ E	**Fl.(2)W.R.G.** period 6s	34 **10**	W. 6 R. 4 G. 3	White concrete tower; 22.	G. 014°-045°30′, W.-048°, R.-122°, G.-190°30′, W.-193°, R.-242°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
204 *B 2118*	Sotens Svartskar.	58° 33.0′ N 11° 13.0′ E	**Fl.(3)W.R.G.** period 9s	24 **7**	W. 8 R. 5 G. 4	White tower; 20.	R. 350°-355°, G.-004°, W.-018°30′, R.-036°30′, G.-048°, W.-051°30′, R.-063°, obsc.-172°30′, G.-210°, W.-217°, R.-302°.
	SOTE FJORD:						
208 *B 2116*	-Langholmen Range, front.	58° 31.9′ N 11° 13.5′ E	**Iso.W.R.G.** period 4s	25 **8**	W. 11 R. 1 G. 1	White hut.	W. 164°30′-087°, G.-130°, W. (unintensified)-150°, R.-164°30′. Intensified on range line.
212 *B 2116.1*	--Rear, Magholmen 901 meters 006° from front.	58° 32.4′ N 11° 13.5′ E	**Q.W.**	56 **17**	10	White square daymark on hut.	
220 *C 0344*	-Soo (Ramsvik), N. Point Range, front.	58° 26.7′ N 11° 15.6′ E	**Q.W.**	19 **6**	4	White square concrete hut.	Intensified on range line.
224 *C 0344.1*	--Rear, 1,019 meters 115°30′ from front.	58° 26.6′ N 11° 16.4′ E	**Iso.W.R.G.** period 4s	46 **14**	W. 7 R. 5 G. 4	White tower, red lantern; 20.	G. 325°-356°30′, W.-000°, R.-036°, G.-098°, W.-118°, R.-122°, G.-184°.
240 *C 0352*	-Mjolskar (Miolskar).	58° 25.0′ N 11° 12.0′ E	**Fl.W.R.G.** period 3s	46 **14**	W. 7 R. 5 G. 4	White octagonal tower, black band, gray base; 47.	G. 355°-022°, W.-025°, R.-169°, G.-194°, W.-196°, R.-355°.
242 *C 0353*	Skarvasatt, N. head.	58° 21.8′ N 11° 12.6′ E	**Fl.(2)W.R.G.** period 6s	46 **14**	W. 8 R. 5 G. 4	White tower, red lantern; 20.	G. (unintensified) 011°30′-082°30′, R. (unintensified)-148°, G.-162°, W.-167°30′, R.-176°, G.-183°.
244 *C 0354*	-Tryggo (Evenskar) Range, front.	58° 23.0′ N 11° 13.0′ E	**Iso.R.** period 4s	23 **7**	7	White post on square concrete hut.	Visible on range line only.
248 *C 0354.1*	--Rear, 1005 meters 016° from front.	58° 23.8′ N 11° 13.4′ E	**Q.R.**	55 **17**	8	White post on white hut.	Visible on range line only.
252 *C 0362*	Smogen Range, front.	58° 21.0′ N 11° 13.0′ E	**F.R.**			Post.	Visible on range line only.
256 *C 0362.1*	-Rear, about 150 meters 284° from front.	58° 21.2′ N 11° 12.9′ E	**F.R.**			Post.	Visible on range line only.
260 *C 0361*	Kolebadan.	58° 21.0′ N 11° 15.0′ E	**Iso.W.R.G.** period 3s	19 **6**	W. 10 R. 7 G. 6	White hut, white and black base.	G. 004°30′-084°, W.-087°30′, R.-179°, W.-004°30′.
268 *C 0369*	Pengeskarsbadan.	58° 21.0′ N 11° 13.0′ E	**Q.W.R.G.**	23 **7**	W. 5 R. 3 G. 2	White hut on black base.	G. 200°-234°, W.-238°30′, R.-200°.
272 *C 0368*	Hatteflu, on Ostra Hatteflu.	58° 21.0′ N 11° 14.0′ E	**Fl.W.R.G.** period 3s	21 **6**	W. 5 R. 4 G. 3	White hut on black stone base.	G. 038°-105°30′, W.-111°30′, R.-120°, W.-187°30′, W. (unintensified)-252°.
276 *C 0375*	**Hallo.**	58° 20.2′ N 11° 13.2′ E	**Fl.W.** period 12s	131 **40**	**21**	White round stone tower, red cupola; 66. Floodlit.	Obscured by Salo 117°-119°30′ when within 2.5 miles of light. Visible 183°-175°, (unintensified) 345°-175°.
282 *C 0371*	Byttelocket.	58° 21.2′ N 11° 14.4′ E	**Fl.R.** period 3s	13 **4**	1	Concrete beacon, white top, black bottom.	
284 *C 0370*	Gravarna Backevik Range, front.	58° 21.0′ N 11° 15.0′ E	**Iso.W.R.G.** period 3s	49 **15**	W. 8 R. 12 R. 5 G. 4	Red lantern.	R. on range line, G. 046°-055°, W.-058°, R. (unintensified)-069°30′.
288 *C 0370.1*	-Rear, 200 meters 023°30′ from front.	58° 21.5′ N 11° 14.9′ E	**Iso.R.** period 3s	92 **28**	12	Red Lantern.	Visible on range line only. Synchronized with front.
292 *C 0372*	-Fiskeham Range, front.	58° 22.0′ N 11° 14.0′ E	**F.G.**	23 **7**	6	Post, white triangular daymark.	Fishing light.
296 *C 0372.1*	--Rear, about 115 meters 349°30′ from front.	58° 21.6′ N 11° 14.3′ E	**F.G.**	39 **12**	6	Post, white triangular daymark.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
308 *C 0364*	Fisketangen Range, front.	58° 22.0′ N 11° 16.0′ E	**F.R.**	44 **13**	4	White cairn tower.	
312 *C 0364.1*	-Rear, 200 meters 297°30′ from front.	58° 21.5′ N 11° 15.7′ E	**F.R.**	68 **21**	4	White cairn tower.	Range marks dredged channel.
316 *C 0376*	**-Brandskarsflak.**	58° 17.6′ N 11° 18.7′ E	**Oc.(2)W.R.G.** period 8s	82 **25**	W. **16** R. 14 G. 12	White tower, green band, gray base; 85. Floodlit. Helicopter platform.	R. 226°30′-311°, G.-352°, R.-028°, G.-045°48', W.-226°30′.
	-RACON		**B(– • • •)** period 20s		**15**		
320 *C 0376.2*	**-Dynabrott.**	58° 18.0′ N 11° 19.0′ E	**Oc.W.R.G.** period 8s	82 **25**	W. **15** R. 14 G. 12	White tower, red band, gray base; 85. Floodlit. Helicopter platform.	R. 209°-216°, G.-226°30′, W.-052°42′, R.-078°, G.-209°. Partially obscured 060°-071°.
324 *C 0376.4*	-**Lindholmen Mellersta Range**, common front.	58° 19.0′ N 11° 23.0′ E	**Iso.W.** period 8s	89 **27**	**16**	Red tower; 43.	Reserve light Iso R. 8s.
328 *C 0376.41*	**- -Fiskebacksvik**, rear 2.6 kilometers 050°30′ from front.	58° 20.0′ N 11° 25.0′ E	**Iso.W.** period 8s	207 **63**	**17**	Orange pilot lookout tower; 26.	Reserve light Iso.R. 8s.
329 *C 0376.42*	- -**Lindholmen Ostra**.	58° 19.4′ N 11° 22.6′ E	**Iso.G.** period 8s	89 **27**	**16**	Red tower; 10.	In line 049°30′ with Fiskebacksvik light marking SE. limit of channel.
330 *C 0376.43*	**- - -Vastra.**	58° 19.5′ N 11° 22.6′ E	**Iso.R.** period 8s	89 **27**	**16**	Red tower; 49.	In line 051°30′ with Fiskebacksvik light marking NW. limit of channel.
332 *C 0376.5*	**-Stretudden Range,** front.	58° 21.0′ N 11° 25.0′ E	**Iso.W.** period 4s	115 **35**	**17**	White tower, black band, white daymark; 13.	
336 *C 0376.51*	- -Rear, 1,700 meters 046° from front.	58° 21.0′ N 11° 26.0′ E	**Iso.W.** period 4s	190 **58**	**18**	White tower, black band, white daymark; 52.	
	FISTETAGEN:						
340 *C 0378.2*	-Tan.	58° 17.9′ N 11° 19.6′ E	**Q.W.R.G.**	38 **12**	W. 8 R. 6 G. 5	White tower; 26. Floodlit.	R. 224°06'-259°, obsc.-002°, G.-037°30′, W.-224°06'.
344 *C 0378.6*	-Tinnholmen.	58° 20.0′ N 11° 24.0′ E	**Q.W.R.G.**	43 **13**	W. 7 R. 5 G. 4	White tower; 26.	R. 009°-099°, G.-118°, W.-122°, R.-171°, G.-309°.
348 *C 0366*	Flattarna.	58° 21.0′ N 11° 18.0′ E	**Fl.(2)W.R.G.** period 6s	26 **8**	W. 6 R. 4 G. 3	White lantern.	R. 254°-258°, G.-262°30′, W.-288°, R.-335°, G.-343°30′, W.-345°30′, R.-358°30′, G.-046°, W.-060°, R.-085°.
356 *C 0360*	Breviksudde Range, front.	58° 22.0′ N 11° 22.0′ E	**Iso.W.R.G.** period 3s	26 **8**	W. 10 R. 7 G. 6	White lantern.	G. 336°-001°, W.-005°, R.-037°, G.-065°30′, W.-076°30′, R.-095°30′.
360 *C 0360.1*	-Rear, 275 meters 074° from front.	58° 21.9′ N 11° 21.6′ E	**Q.W.**	82 **25**	10	Lantern on white pedestal.	Visible 028°-049°30′.
364 *C 0379*	Svensholmen.	58° 19.0′ N 11° 22.0′ E	**Fl.(3)W.R.G.** period 9s	47 **14**	W. 13 R. 10 G. 9	White concrete tower; 23.	G. 047°-085°30′, W.-088°30′, R.-098°30′, G.-152°, W.-168°, R.-243°, G.-313°.
372 *C 0378.4*	Kafra.	58° 20.0′ N 11° 22.0′ E	**Fl.W.R.G.** period 3s	33 **10**	W. 9 R. 6 G. 5	White tower, black base; 36. Floodlit.	W. 234°-046°, R.-096°, G.-149°, R.-170°, obsc.-180°, G.-236°.
376 *C 0380*	Blackhall.	58° 19.0′ N 11° 23.0′ E	**Fl.(2)W.R.G.** period 6s	31 **9**	W. 8 R. 6 G. 5	Red lantern.	G. 310°-322°30′, W.-327°30′, R.-020°, G.-113°, W.-121°, R.-150°.
378 *C 0381*	Stora Korno.	58° 18.3′ N 11° 22.7′ E	**F.W.R.G.**	10 **3**	2	White hut on concrete base.	G. 103°-170°, W.-175°, R.-190°, G.-213°, W.-222°, R.-260°, W.-103°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
380 *C 0381.5*	Hangdyn.	58° 18.0′ N 11° 24.0′ E	**Q.W.R.G.**	16 **5**	W. 5 R. 3 G. 2	Red lantern on base.	G. 264°-036°, W.-043°, R.-090°, G.-143°, W.-146°, R.-264°.
384	*Sorgrundsberg Buoy.*	58° 17.0′ N 11° 11.0′ E	**Q.(6)+L.Fl.W.** period 15s			S. CARDINAL YB, pillar, topmark.	**Radar reflector.**
388 *C 0388*	Stangholmen, E. side.	58° 16.0′ N 11° 25.0′ E	**Iso.W.R.G.** period 4s	19 **6**	W. 6 R. 4 G. 3	White lantern.	G. 155°-163°30′, W.-165°, R.-245°, G.-293°, W.-328°, R.-011°.
392 *C 0384*	Gaven.	58° 16.3′ N 11° 21.0′ E	**Fl.(3)W.R.G.** period 9s	89 **27**	W. 8 R. 6 G. 5	Red lantern on white tower, black band; 31.	G. (unintensified) 234°-241°, W. (unintensified)-261°, R. (unintensified)-311°, G. (unintensified)-002°30′, G.-024°, W.-030°, R.-041°30′, G.-053°30′, W.-088°, R.-110°, G.-122°.
396 *C 0382*	Gulskaren, on Sodra Gulskar.	58° 17.0′ N 11° 24.0′ E	**Fl.(2)W.R.G.** period 6s	30 **9**	W. 7 R. 5 G. 4	White tower; 20.	W. (unintensified) 237°-258°, R. (unintensified)-315°, R.-346°30′, G.-056°30′, W.-059°30′, R.-132°, G.-141°, G. (unintensified)-237°.
400 *C 0390*	Flatholmen.	58° 15.7′ N 11° 24.8′ E	**Fl.W.R.G.** period 4s	33 **10**	W. 9 R. 6 G. 5	White lantern.	G. 090°30′-094°30′, W.-096°, R.-112°30′, G.-129°, W.-138°30′, R.-200°, G.-257°, W.-265°, R.-304°, G.-335°.
404 *C 0392*	Slaggabaden.	58° 16.0′ N 11° 26.0′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	22 **7**	W. 10 R. 7 G. 6	White tower, gray base; 27. Floodlit.	G. 195°-226°, R.-248°30′, G.-261°30′, W.-273°, R.-290°30′, G.-306°, W.-316°, R.-352°30′, G.-018°, W.-020°, R.-043°, G.-083°, W.-085°, R.-195°.
416 *C 0392.5*	-Redd.	58° 16.0′ N 11° 27.0′ E	**Q.W.**	19 **6**	4	White hut.	
417 *C 0392.7*	-Degausing Station W. dolphin.	58° 16.0′ N 11° 27.0′ E	**2 F.R.** (vert.)		2	Post on dolphin.	
418 *C 0392.8*	- -E. Dolphin.	58° 16.2′ N 11° 27.2′ E	**2 F.R.** (vert.)		2	Post on dolphin.	
420 *C 0391*	Fiskelbackskil Range, front.	58° 15.0′ N 11° 28.0′ E	**F.R.**	59 **18**	8	Framework mast, white triangular daymark, point up, red border.	Visible on range line only. Marks water pipe.
424 *C 0391.1*	-Rear, about 389 meters 132° from front.	58° 14.9′ N 11° 28.2′ E	**F.R.**	131 **40**	8	Framework mast, white triangular daymark, point down, red border.	Visible on range line only. Synchronized.
428	*Brofjorden Angoring Buoy.*	58° 15.0′ N 11° 13.5′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
	RACON		**G(– – •)** period 30s				(3 & 10 cm).
	SKAFTO:						
432 *C 0394*	-Groto, SE. point.	58° 13.0′ N 11° 24.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 6 R. 4 G. 3	White lantern.	G. 173°30′-201°, W.-205°, R.-236°30′, G.-295°, W.-350°30′, R.-006°, G.-036°.
436 *C 0398*	-Grundsund pier, head.	58° 13.0′ N 11° 25.0′ E	**Oc.(2)W.R.G.** period 8s	16 **5**	W. 6 R. 4 G. 3	Gray structure.	G. 100°-132°, W.-160°30′, R.-171°30′.
440 *C 0400*	-Islandsberg.	58° 12.0′ N 11° 24.0′ E	**Fl.(4)W.R.G.** period 12s	43 **13**	W. 7 R. 5 G. 4	Red tower; 23.	G. shore-031°30′, W.-034°, R.-038°30′, obsc.-044°30′, R.-048°, G.-085°30′, R.-125°30′, G.-181°30′, W.-185°, R.-shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
444 *C 0402*	Hattan.	58° 11.0′ N 11° 23.0′ E	**Fl.(2)W.R.G.** period 6s	48 **15**	W. 8 R. 6 G. 5	White concrete tower, black band; 29. Floodlit.	G. 020°-036°, W.-051°30′, R.-077°, G.-116°, W.-124°, R.-150°30′, G.-210°, W.-216°, R.-226°.
448 *C 0404*	Fredagsholmen.	58° 11.0′ N 11° 25.0′ E	**Fl.W.R.G.** period 3s	18 **5**	W. 5 R. 4 G. 3	Red lantern.	G. 286°30′-294°, W.-300°30′, R.-054°30′, G.-114°30′, W.-121°30′, R.-136°.
452 *C 0409*	Ornekullen Range, front.	58° 12.0′ N 11° 30.0′ E	**Iso.R.** period 4s	65 **20**	9	White post, white square daymark.	Visible on range line only. Synchronized.
456 *C 0409.1*	-Rear, 255 meters 059° from front.	58° 11.9′ N 11° 30.0′ E	**Iso.R.** period 4s	105 **32**	9	White post on white hut, black and white square daymark.	Visible on range line only. Synchronized.
460 *C 0409.5*	Hallen Range, front.	58° 12.0′ N 11° 29.0′ E	**Iso.G.** period 4s	16 **5**	8	White pedestal.	
464 *C 0409.6*	-Rear, 210 meters 194° from front.	58° 11.6′ N 11° 29.2′ E	**Iso.G.** period 4s	29 **9**	8	White pedestal.	Visible on range line only. Synchronized.
468 *C 0410*	Tarneskar Range, front.	58° 12.0′ N 11° 30.0′ E	**Iso.R.** period 4s	18 **5**	8	White pedestal.	Visible on range line only. Synchronized.
472 *C 0410.1*	-Rear, 80 meters 239°30′ from front.	58° 12.3′ N 11° 29.5′ E	**Iso.R.** period 4s	24 **7**	8	White hut, with white triangular daymark, point down.	Synchronized.
476 *C 0410.5*	Flato.	58° 13.0′ N 11° 31.0′ E	**Fl.W.R.G.** period 3s	33 **10**	W. 6 R. 2 G. 2	White hut.	G. 282°-299°30′, W.-310°, R.-010°.
480 *C 0411*	Morlanda.	58° 12.0′ N 11° 32.0′ E	**Fl.(2)W.R.G.** period 6s	19 **6**	W. 6 R. 4 G. 3	White structure.	R. 133°-142°, G.-225°, W.-228°, R.-280°.
484 *C 0411.4*	Ravsnasudde Range, front.	58° 16.0′ N 11° 39.0′ E	**Iso.W.** period 4s	46 **14**	10	White hut, white square daymark.	
488 *C 0411.5*	-Rear, 920 meters 047° from front.	58° 16.0′ N 11° 39.1′ E	**Q.W.**	98 **30**	10	White post, white square daymark.	
492 *C 0411.7*	Rafsnas.	58° 15.5′ N 11° 38.6′ E	**Fl.W.** period 3s	23 **7**	5	White pole; 7.	Visible 225°-113°.
496 *C 0411.8*	Goden.	58° 15.5′ N 11° 39.1′ E	**Fl.(2)G.** period 6s	36 **11**	2	White pole, green band; 7.	Visible 053°-298°.
498	Kalvon.	58° 15.6′ N 11° 39.8′ E	**Fl.R.** period 3s	30 **9**	3	White pole, red band; 7.	Visible 234°-125°.
500 *C 0412.5*	Saten.	58° 16.0′ N 11° 41.0′ E	**Fl.(2)W.R.G.** period 6s	22 **7**	W. 6 R. 4 G. 3	White lantern.	G. 357°-039°, W.-048°30′, R.-091°, G.-175°30′, W.-179°, R.-190°.
504 *C 0412.7*	Hogholmen, N. of channel.	58° 18.0′ N 11° 41.0′ E	**Fl.W.R.G.** period 3s	19 **6**	W. 5 R. 3 G. 3	White tower.	G. shore-230°, W.-236°, R.-324°, G.-042°, W.-056°30′, R.-shore.
508 *C 0413.3*	Mattholm.	58° 18.0′ N 11° 44.0′ E	**Fl.W.R.G.** period 3s	18 **5**	W. 4 R. 2 G. 2	White hut.	G. 338°-089°30′, W.-092°30′, R.-182°30′.
512 *C 0413*	Oso.	58° 18.0′ N 11° 43.0′ E	**Q.R.G.**	18 **5**	2	White hut.	G. 107°-280°30′, R.-349°.
516 *C 0413.5*	-Sandvikskullen.	58° 18.0′ N 11° 44.0′ E	**Fl.(2)W.R.G.** period 6s	18 **5**	W. 10 R. 7 G. 6	White lantern.	G. shore-116°, W.-119°, R.-205°, G.-246°30′, W.-249°30′, R.-shore.
528 *C 0422*	Tvestjarten.	58° 11.0′ N 11° 25.0′ E	**Fl.(2)W.R.** period 6s	16 **5**	W. 5 R. 4	White square hut.	W. 324°30′-196°30′, R.-203°30′.
540 *C 0428*	Rao Range, front.	58° 09.0′ N 11° 24.0′ E	**Q.W.G.**	16 **5**	4	Black pedestal, white triangular daymark.	G. 283°-074°, W.-229°.
544 *C 0428.1*	-Rear, 1000 meters 004° from front; Raon Range, front.	58° 10.0′ N 11° 24.0′ E	**Iso.W.G.** period 5s	25 **8**	W. 3 G. 8 G. 3	Red lantern.	G. 345°-010°, W.-198°30′. Intensified on range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
544.1 *C 0426*	--Stromholmen, rear, 1100 meters 010°30′ from front.	58° 10.0′ N 11° 24.0′ E	**Fl.W.R.G.** period 3s	31 **9**	W. 6 R. 4 G. 4	Lantern on white pedestal.	G. 163°-186°30′, W.-014°, R.-029°30′.
548 *C 0430*	Jarnskar.	58° 08.0′ N 11° 24.0′ E	**Fl.W.R.G.** period 3s	15 **5**	W. 6 R. 4 G. 3	White lantern.	G. 028°-050°, W.-064°, R.-095°, G.-139°30′, W.-148°30′, R.-226°, W.-277°.
552 *C 0434*	Koljebergskil Range, front.	58° 08.0′ N 11° 25.0′ E	**Iso.R.** period 3s	37 **11**	6	Black hut, white gable, red band.	Visible on range line only.
556 *C 0434.1*	-Rear, 110 meters 093°30′ from front.	58° 08.0′ N 11° 25.2′ E	**Q.R.**	69 **21**	6	Black hut, white gable, red band.	Visible on range line only.
560 *C 0438*	Sorhallsudde Range, front.	58° 08.0′ N 11° 25.0′ E	**Iso.W.** period 4s	22 **7**	9	Black hut, white gable, red band.	Visible on range line only.
564 *C 0438.1*	-Rear, 140 meters 345° from front.	58° 08.2′ N 11° 24.9′ E	**Q.W.**	26 **8**	8	Black hut, white gable, red band.	Visible on range line only.
568 *C 0444*	Porsnasudde.	58° 07.0′ N 11° 26.0′ E	**Fl.(2)W.R.G.** period 6s	19 **6**	W. 5 R. 4 G. 3	White octagonal hut.	G. 315°30′-326°30′, W.-329°, R. 139°30′, W.-165°.
572 *C 0446*	Karingo Kummel.	58° 07.0′ N 11° 22.0′ E	**Iso.W.R.G.** period 3s	31 **9**	W. 7 R. 5 G. 4	White beacon, black band on lower part; 23.	W. 152°-173°30′, G.-209°30′, W.-212°, R.-237°, obsc.-299°, G.-310°, W.-316°, R.-322°.
576 *C 0447*	Karingo telephone cable Range, front.	58° 07.0′ N 11° 22.0′ E	**F.R.**	25 **8**	7	White rectangular daymark, red stripe.	Visible on range line only.
580 *C 0447.1*	-Rear, 75 meters 193° from front.	58° 06.7′ N 11° 22.3′ E	**F.R.**	48 **15**	7	White rectangular daymark, red stripe.	
584 *C 0448*	Oxskar.	58° 07.0′ N 11° 23.0′ E	**Fl.(3)W.R.G.** period 9s	22 **7**	W. 6 R. 4 G. 4	White lantern.	G. 326°30′-341°, W.-348°, R.-054°30′, W.-063°, obsc.-240°, G.-251°, R.-253°, G.-260°.
588 *C 0456*	**Maseskar.**	58° 06.0′ N 11° 20.0′ E	**Fl.(3)W.R.G.** period 30s fl. 1.5s, ec. 3.5s fl. 1.5s, ec. 3.5s fl. 1.5s, ec. 18.5s	88 **27**	W. **16** R. 13 G. 12	White tower, red square daymark; 43.	W. 012°-163°, R.-300°, G.-012°.
592 *C 0458*	Brato.	58° 06.0′ N 11° 27.0′ E	**Fl.(4)W.R.G.** period 12s	23 **7**	W. 5 R. 4 G. 3	Red lantern; 8.	G. 336°30′-350°, W.-355°, R.-090°, G.-132°, W.-137°, R.-shore.
596 *C 0460*	Mollosund.	58° 05.0′ N 11° 28.0′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 9 R. 6 G. 5	Red lantern; 8.	G. shore-314°, W.-319°30′, R.-018°, G.-119°30′, W.-127°30′, R.-151°30′.
600 *C 0462*	Lyr, W. side.	58° 04.0′ N 11° 30.0′ E	**Fl.(4)W.R.G.** period 12s	16 **5**	W. 5 R. 4 G. 3	Red lantern.	G. 359°-009°30′, W.-014°30′, R.-021°, G.-072°, W.-078°, R.-087°.
604 *C 0450*	Kraksundsgap N.	58° 06.0′ N 11° 27.0′ E	**Q.W.**	15 **5**	4	White hut.	
608 *C 0452*	Kraksundsgap S.	58° 06.1′ N 11° 26.5′ E	**Fl.(2)W.R.G.** period 6s	42 **13**	W. 8 R. 6 G. 5	White tower, black conical base; 42.	R. shore-358°30′, G.-045°, W.-050°, R.-078°, G.-093°30′, W.-118°, obsc.-140°, G.-195°30′, W.-220°, R.-243°, G.-253°.
612 *C 0463*	Otterholmen (Otterholm), NE. point.	58° 04.0′ N 11° 30.0′ E	**Q.R.G.**	24 **7**	R. 2 G. 2	White hut.	G. shore-183°30′, R.-shore.
616 *C 0464*	Rabbehuvud.	58° 02.0′ N 11° 29.0′ E	**Fl.(2)W.R.G.** period 6s	46 **14**	W. 8 R. 5 R. 4 G. 4 G. 3	Black and white tower, concrete base; 31.	G. 009°-017°30′, W.-020°, R. (unintensified)-105°, G. (unintensified)-182°30′, W.-193°30′, R.-202°.
620 *C 0468*	Sodra Kyrkesund Range, front.	58° 02.0′ N 11° 31.0′ E	**Iso.R.** period 4s	69 **21**	10	White square concrete hut.	Visible on range line only.

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			SWEDEN-WEST COAST				
624 *C 0468.1*	-Rear, 550 meters 002°30′ from front.	58° 02.1′ N 11° 30.9′ E	**Q.R.**	98 **30**	10	White square concrete hut.	Visible on range line only.
628 *C 0472*	Gasskar.	58° 02.0′ N 11° 31.0′ E	**Fl.(2)W.R.G.** period 6s	14 **4**	W. 6 R. 4 G. 3	White lantern.	G. 324°30′-334°, W.-340°, R.-070°, W.-132°, R.-148°30′.
632 *C 0474*	Norra Kyrkesund Range, front.	58° 02.0′ N 11° 31.0′ E	**Iso.W.** period 4s	16 **5**	6	White hut on black base.	Visible 135°-337°.
636 *C 0474.1*	-Rear, about 1 km. 154° 30′ from front.	58° 01.1′ N 11° 31.1′ E	**Q.W.R.**	34 **10**	W. 8 R. 6	Lantern on white pedestal.	W. 147°-160°, R.-173°30′.
	HJARTOFJORD (HIERTO FJORD):						
648 *C 0482*	-Sanct Olovs Range, front.	58° 00.0′ N 11° 31.0′ E	**Iso.W.R.G.** period 4s	25 **8**	W. 6 R. 4 G. 3	Red tower; 30.	W. 342°-049°, W. (unintensified)-119°, G.-155°30′, W.-169°, R.-178°, W. (unintensified)-239°.
652 *C 0482.1*	- -Rear, 1.6 km., 006°30′ from front.	58° 00.8′ N 11° 31.1′ E	**Q.W.**	83 **25**	13	Red lantern.	Visible on range line only.
656 *C 0485*	-Skarhamn Harbor Range, front.	57° 59.6′ N 11° 32.1′ E	**Iso.R.** period 3s	23 **7**	11	Lantern on black pedestal, white bands and one blue band with white letters "B" and "N".	Visible on range line only.
660 *C 0485.1*	- -Rear, about 500 meters 050° from front.	57° 59.7′ N 11° 32.5′ E	**Oc.R.** period 5s	95 **29**	11	Framework mast, white daymark; 30.	Visible on range line only.
664 *C 0486*	-Eggskar.	57° 57.0′ N 11° 31.0′ E	**Fl.(2)W.R.G.** period 6s	25 **8**	W. 6 R. 4 G. 3	White concrete tower; 25.	G. 071°30′-117°, W.-120°, R.-138°30′, G.-244°, R.-266°30′, G.-295°, W.-299°, R.-325°, G.-017°, R.-071°30′.
668 *C 0488*	-Angholmen Range, front.	57° 57.0′ N 11° 34.0′ E	**F.G.**	13 **4**	2	Post, orange triangular daymark.	Fishing light.
672	- -Rear, about 101 meters 101°30′ from front.	57° 56.7′ N 11° 33.9′ E	**F.G.**	44 **13**	2	Post, orange triangular daymark.	Fishing light.
	MARSTRANDSFJORDEN:						
676 *C 0487*	-Tjornekalv Power Cable Range, front.	57° 56.0′ N 11° 34.0′ E	**F.R.**	23 **7**	8	White triangular daymark, point up, black border.	Visible on range line only.
676.1 *C 0487.1*	- -Rear, 40 meters 220°30′ from front.	57° 56.2′ N 11° 34.2′ E	**F.R.**	39 **12**	8	White triangular daymark, point down, black border.	Visible on range line only.
680 *C 0490*	-Berlin Islet.	57° 56.0′ N 11° 33.0′ E	**Fl.W.R.G.** period 3s	26 **8**	W. 5 R. 3 G. 3	White round metal hut.	G. 330°30′-338°30′, W.-343°, R.-096°30′, G.-137°, W.-145°, R.-155°, G.-163°, W.-168°30′, R.-191°.
684 *C 0490.6*	-Astol.	57° 55.0′ N 11° 35.0′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	23 **7**	W. 12 R. 10 G. 8	Red lantern. Floodlit.	G. 249°-262°, W.-264°, R.-271°30′, G.-281°30′, W.-294°, R.-031°, G.-042°30′, W.-062°30′, R.-083°, G.-090°.
688 *C 0491*	-Norra Astol Power Cable Range, front.	57° 56.0′ N 11° 35.0′ E	**F.R.**	23 **7**	8	White triangular daymark, point up, black border.	
690 *C 0491.1*	- -Rear, 100 meters 141° from front.	57° 55.4′ N 11° 35.4′ E	**F.R.**	39 **12**	8	White triangular daymark, point down, black border.	
692 *C 0491.4*	-Astols Fishing Harbor Range, front.	57° 55.0′ N 11° 35.0′ E	**F.G.**	18 **5**	2	Post, white triangular daymark.	Fishing light.
696 *C 0491.5*	- -Rear, 60 meters 257° from front.	57° 55.5′ N 11° 35.1′ E	**F.G.**	24 **7**	2	Post, white triangular daymark, point down.	Fishing light.
700 *C 0489.5*	-Hamneskar.	57° 54.0′ N 11° 28.0′ E	**F.W.**	49 **15**	9	Lattice mast; 26.	

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			SWEDEN-WEST COAST				
708 *C 0489*	**-Hatteberget.**	57° 51.8′ N 11° 27.5′ E	**Fl.(2)W.R.G.** period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	85 **26**	W. **21** R. **18** G. **18**	Black tower, red bands, gray base; 85. Helicopter platform.	W. 008°-110°, R.-152°, G. (16M)-225°, W. (18M)-260°, R. (15M)-346°, G.-008°.
	-RACON		**G(– – •)** period 30s		**15**		
712 *C 0493*	-Skallen, on islet.	57° 53.5′ N 11° 33.6′ E	**Iso.W.R.G.** period 4s	44 **13**	W. 14 R. 11 G. 10	White tower; 20.	G. 034°-054°, W.-069°, R.-086°, G.-132°, W.-206°30′, R.-235°, G.-shore.
716 *C 0494.8*	-Graberget.	57° 53.0′ N 11° 35.0′ E	**Fl.(2)W.R.G.** period 3s	25 **8**	W. 6 R. 4 G. 3	White tower on black base; 20.	G. 051°-052°30′, W.-054°, R.-067°, G.-099°, W.-103°, R.-138°30′, G.-209°, W.-223°, R.-234°30′.
720 *C 0494*	-Marstrand Havn.	57° 54.0′ N 11° 35.0′ E	**Fl.(3)W.R.G.** period 9s	23 **7**	W. 10 R. 7 G. 6	White lantern.	G. 053°-091°, R.-148°, G.-160°30′, W.-163°30′, R.-171°30′.
724 *C 0496*	-Sodra Meholm.	57° 55.5′ N 11° 37.6′ E	**Fl.(2)W.R.G.** period 6s	26 **8**	W. 5 R. 3 G. 3	Lantern on white pedestal.	W. 073°-256°30′, R.-290°30′, G.-073°.
728 *C 0498*	-Norra Meholm.	57° 56.0′ N 11° 38.0′ E	**Fl.W.R.G.** period 3s	36 **11**	W. 5 R. 3 G. 2	Lantern on white pedestal.	W. 266°30′-076°, R.-261°30′, G.-266°30′.
730 *C 0499*	-Nordholmarna.	57° 54.6′ N 11° 38.0′ E	**Oc.(2)W.R.G.** period 10s	16 **5**	W. 10 R. 7 G. 6	White tower on green base; 10.	R. 055°-071°, G.-111°, W.-227°30′, R.-242°30′, G.-256°30′.
731 *C 0500*	-Backebadan.	57° 55.0′ N 11° 37.7′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 9 R. 7 G. 6	Red hut, white roof, on base. Floodlit.	R. 110°-236°30′, G.-242°30′, W.-110°.
	UDDEVALLA APPROACH:						
732 *C 0501*	-Algo (Elgo), island, W. head.	57° 55.6′ N 11° 40.3′ E	**Q.W.R.G.**	22 **7**	W. 6 R. 4 G. 3	White lantern.	G. 060°-081°30′, W.-083°30′, R.-200°30′, G.-212°30′, W.-216°, R.-252°30′.
736 *C 0502.2*	-Wallhamn Roda Range, front.	58° 01.0′ N 11° 42.0′ E	**F.R.**	89 **27**	10	Framework tower.	F.R. 3M by day.
740 *C 0502.21*	- -Rear, 520 meters 352°30′ from front.	58° 01.0′ N 11° 42.0′ E	**F.R.**	118 **36**	10	Framework tower.	
744 *C 0502.4*	-Grona Range, front.	58° 01.0′ N 11° 42.0′ E	**F.G.**	89 **27**	10	Framework tower.	F.R. 3M by day.
748 *C 0502.41*	- -Rear, 521 meters 352°30′ from front.	58° 01.0′ N 11° 42.1′ E	**F.G.**	118 **36**	10	Framework tower.	
752 *C 0502*	-Mitholmarna.	57° 58.0′ N 11° 44.0′ E	**Fl.(4)W.R.G.** period 12s	24 **7**	W. 7 R. 5 G. 4	White lantern.	G. 027°-036°30′, W.-040°30′, R.-153°30′, G.-205°, W.-207°, R.-219°30′.
754 *C 0503*	-Vinterholmen.	58° 01.9′ N 11° 46.9′ E	**Fl.W.R.G.** period 3s	36 **11**	W. 8 R. 5 G. 4	Metal framework tower.	W. 018°-021°30′, R.-189°, G.-196°, W.-204°30′, R.-335°, G.-018°.
756 *C 0503.6*	-Snoholmarna.	58° 03.0′ N 11° 48.0′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 6 R. 4 G. 3	White lantern.	G. 011°30′-017°30′, W.-027°30′, R.-076°30′, G.-137°, W.-143°30′, R.-172°30′, G.-200°, R.-240°30′.
760 *C 0503.4*	-Brattogrundet, 1.5 kilometers 316° from Snoholmarna.	58° 03.2′ N 11° 46.9′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 3	White hut, gray base.	G. 040°-186°, W.-199°, R.-236°, G.-283°, W.-313°, R.-040°.
768 *C 0504.2*	-Havden Roda Range, front.	58° 05.0′ N 11° 48.0′ E	**F.R.**	26 **8**	7	Beacon, yellow triangular daymark, point up, black border.	On request.

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			SWEDEN-WEST COAST				
772 *C 0504.21*	- -Rear, 80 meters 059° from front.	58° 05.0′ N 11° 48.4′ E	**F.R.**	44 **13**	7	Beacon, yellow triangular daymark, point down, black border.	
776 *C 0504.3*	-Havden Grona Range, front.	58° 05.0′ N 11° 48.0′ E	**F.G.**	19 **6**	6	Beacon, yellow triangular daymark, point up, black border.	On request.
780 *C 0504.31*	- -Rear, 52 meters 059° from front.	58° 05.0′ N 11° 48.4′ E	**F.G.**	29 **9**	6	Beacon, yellow triangular daymark, point down, black border.	
784 *C 0504.36*	-Stenung Range, front.	58° 05.0′ N 11° 49.0′ E	**F.G.**	26 **8**	6	Post, white triangular daymark, point up, black border.	On request.
788 *C 0504.37*	- -Rear, 112 meters 102°30′ from front.	58° 05.1′ N 11° 48.8′ E	**F.G.**	37 **11**	6	Post, white triangular daymark, point down, black border.	
792 *C 0504.4*	-Hog Grona Range, front.	58° 05.0′ N 11° 49.0′ E	**F.G.**	52 **16**	7	Yellow triangular daymark, point up.	Range line marks side of entrance channel into Norra Harbor Basin. Visible on range line only. On request.
796 *C 0504.41*	- -Rear, 90 meters 101°18′ from front.	58° 05.3′ N 11° 49.4′ E	**F.G.**	75 **23**	7	Mast, yellow triangular daymark, point down.	Visible on range line only. On request.
800 *C 0504.6*	-Hog Roda Range, front.	58° 05.0′ N 11° 49.0′ E	**F.R.**	43 **13**	7	Mast, yellow triangular daymark, point up.	Range line marks side of entrance channel into Norra Harbor Basin. Visible on range line only. On request.
804 *C 0504.61*	- -Rear, 75 meters 102°06′ from front.	58° 05.4′ N 11° 49.4′ E	**F.R.**	59 **18**	7	Mast, yellow triangular daymark, point down.	Visiblie on range line only. On request.
808 *C 0506*	-Galteron.	58° 06.0′ N 11° 48.0′ E	**Fl.(2)W.R.G.** period 6s	16 **5**	W. 9 R. 7 G. 6	White lantern. Floodlit.	G. 009°30′-013°30′, W.-015°30′, R.-028°30′, W. (unintensified)-178°, G.-217°, W.-223°, R.-234°.
810 *C 0507*	-Halse Nabb.	58° 07.4′ N 11° 49.8′ E	**Q.W.R.G.**	16 **5**	W. 10 R. 7 G. 6	White shed with red roof on red base; 10. Floodlit.	G. shore-192°, W.-040°, R.-shore.
812 *C 0510*	-Svanesund, at Orust.	58° 08.0′ N 11° 50.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 10 R. 7 G. 6	Red tower; 20.	G. 191°-202°, W.-208°, R.-225°30′, W. (unintensified)-312°, G.-351°, W.-008°, R.-shore.
816 *C 0508*	-Sundholmen.	58° 08.0′ N 11° 50.0′ E	**Fl.(2)W.R.G.** period 6s	16 **5**	W. 5 R. 3 G. 2	White hut. Floodlit.	G. shore-000°, W.-188°, R.-270°.
819 *C 0511.4*	-Grota Holme.	58° 09.5′ N 11° 51.5′ E	**Fl.(2)W.R.G.** period 6s	19 **6**	W. 7 R. 5 G. 4	Lantern on white pedestal.	G. 016°-034°30′, W.-047°30′, R.-090°, G.-170°, W.-174°30′, R.-179°, G.-208°.
820 *C 0511*	-Djurnasudde.	58° 09.0′ N 11° 51.0′ E	**Q.W.R.G.**	18 **5**	W. 5 R. 3 G. 2	White shed.	W. 023°-332°, R.-002°, G.-023°.
824 *C 0512*	-Strandanas.	58° 12.0′ N 11° 51.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 6 R. 4 G. 3	Red lantern.	G. 175°-178°, W.-185°30′, R.-242°, W. (unintensified)-310°, G.-352°, W.-356°, R.-008°.
826 *C 0419*	Aspholmen.	58° 15.0′ N 11° 49.9′ E	**Fl.(3)W.R.G.** period 9s	16 **5**	W. 6 R. 4 G. 3	White lantern on red concrete base.	G. 124°-149°, W.-154°, R.-171°, G.-186°30′, W.-316°, R.-332°, G.-350°.
828 *C 0418*	Bjorningarna, S. island.	58° 16.0′ N 11° 50.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 6 R. 4 G. 3	Red lantern.	G. 138°30′-157°30′, W.-161°, R.-178°, W.-292°, G.-331° 30′, W.-336°30′, R.-353°.

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			SWEDEN-WEST COAST				
832 *C 0417.5*	Kollholm.	58° 16.0′ N 11° 49.0′ E	**Iso.W.R.G.** period 4s	52 **16**	W. 6 R. 4 G. 3	White tower; 23.	G. 152°-160°, W.-165°30′, R.-169°30′, G.-173°30′, W.-176°, R.-198°, R. (unintensified)-254°, G. (unintensified)-308°30′, G.-328°, W.-332°30′, R.-339°30′, R. (unintensified)-347°, G.-152°.
836 *C 0417*	-Stora Deje.	58° 18.0′ N 11° 48.0′ E	**Q.W.**	20 **6**	4	Lantern on white pedestal.	
840 *C 0414*	Stangen, on point.	58° 19.0′ N 11° 49.0′ E	**Q.W.**	22 **7**	4	Lantern on white structure.	Visible 014°-257°.
852 *C 0416*	Uddevalla Range, front.	58° 20.9′ N 11° 55.2′ E	**Iso.R.** period 4s	49 **15**	10	White pole.	
856 *C 0416.1*	-Rear, 970 meters 060°18′ from front.	58° 21.2′ N 11° 56.2′ E	**Q.R.**	112 **34**	10	Pole.	
860 *C 0514*	Ramholmen Range, front.	57° 52.0′ N 11° 33.0′ E	**Iso.W.** period 4s	34 **10**	9	White pillar, rectangular daymark, white shed.	Visible on range line only.
864 *C 0514.1*	-Rear, 350 meters 312°30′ from front.	57° 51.6′ N 11° 33.0′ E	**Q.W.**	60 **18**	8	White pillar, black rectangular daymark, white shed.	Visible on range line only.
868 *C 0517*	Stora Sillesund.	57° 52.0′ N 11° 33.0′ E	**Q.W.R.G.**	26 **8**	W. 4 R. 3 G. 2	Black and white tower; 16.	G. shore-303°30′, W.-306°, R.-shore.
872 *C 0521*	Lonnbacken.	57° 51.0′ N 11° 33.0′ E	**Fl.W.R.G.** period 3s	38 **12**	W. 8 R. 6 G. 5	White round concrete tower, black band, gray conical base; 41.	R. 094°-119°, G.-147°, W.-150°30′, R.-213°, W.-259°, R.-308°30′.
876 *C 0520*	Lekskar.	57° 50.0′ N 11° 36.0′ E	**Fl.(2)W.R.G.** period 6s	24 **7**	W. 6 R. 4 G. 3	White lantern.	G. 312°30′-322°, W.-332°30′, R.-349°, obsc.-009°, W.-166°.
880 *C 0524*	Saloknapp.	57° 49.6′ N 11° 38.4′ E	**Fl.(4)W.R.G.** period 12s	23 **7**	W. 6 R. 4 G. 3	White tower, black base; 25.	G. 265°-012°, W.-019°, R.-085°, G.-188°30′, W.-191°, R.-265°.
884 *C 0525*	Salo.	57° 49.0′ N 11° 37.0′ E	**Q.W.R.G.**	26 **8**	W. 5 R. 3 G. 3	White tower.	G. 295°-333°30′, W.-339°30′, R.-025°, G.-150°30′, W.-153°, R.-163°.
886 *C 0525.5*	Stora Kalven.	57° 46.8′ N 11° 43.7′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 6 R. 4 G. 3	White pile.	G. 235°-257°, W.-260°, R.-275°, G.-299°30′, W.-303°, R.-350°, G.-012°, W.-014°30′, R.-44°, G.-103°, W.-107°, R.-145°. Shown Apr. 15-Oct. 30.
888 *C 0523*	Stora Polsan.	57° 46.0′ N 11° 32.0′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	59 **18**	W. 8 W. 7 R. 6 R. 5 G. 5 G. 4	White tower, black band; 32.	G. 344°-350°30′, W.-152°30′, R.-208°, G.-275°, R.-278°, G.-304°, W.-308°, R.-344°.
892 *C 0526*	Kakholmen Range, front.	57° 46.0′ N 11° 37.0′ E	**F.R.**	19 **6**	6	Post, white triangular daymark, point up.	Fishing light.
896 *C 0526.1*	-Rear, 60 meters 098° from front.	57° 46.1′ N 11° 37.0′ E	**F.R.**	37 **11**	6	Post, white triangular daymark, point down.	Fishing light.
900 *C 0527.4*	Roro Range, front.	57° 46.0′ N 11° 37.0′ E	**F.G.**	16 **5**	3	Tower, white triangular daymark.	Fishing light.
904 *C 0527.5*	-Rear, 195 meters 329°30′ from front.	57° 46.4′ N 11° 37.2′ E	**F.G.**	50 **15**	5	Tower, white triangular daymark, point down.	Fishing light.
916 *C 0528*	Stora Oset, E. side of islet.	57° 45.0′ N 11° 37.0′ E	**Fl.(3)W.R.G.** period 9s	41 **12**	W. 8 R. 5 G. 4	White lantern.	G. 345°-024°, W.-048°30′, R.-062°, G.-089°, W.-120°30′, R.-163°, W.-228°, G.-254°, W.-261°, R.-280°, W.-345°. Sectors intensified 345°-163°.
920 *C 0530*	Kallo Knipplan Range, front.	57° 45.0′ N 11° 39.0′ E	**F.G.**	20 **6**		Post, white triangular daymark.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
924 *C 0530.1*	-Rear, 120 meters 334° from front.	57° 45.1′ N 11° 39.3′ E	**F.G.**	41 **12**		Post, white triangular daymark.	Fishing light.
928 *C 0532*	Bjorko Range, front.	57° 44.0′ N 11° 40.0′ E	**Iso.W.R.G.** period 3s	26 **8**	W. 11 W. 7 R. 5 G. 4	Red lantern.	G. (unintensified) 031°-100°, G.-112°, W.-119°, R.-128°. W. (intensified) on range line.
932 *C 0532.1*	-Rear, 740 meters 162°30′ from front.	57° 44.1′ N 11° 40.2′ E	**Q.W.**	105 **32**	11	White lantern.	Visible on range line only.
936 *C 0536*	Hallso Range, front.	57° 44.0′ N 11° 40.0′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 13 W. 10 R. 7 G. 6	White tower; 23.	G. 168°-177°, W.-185°, R.-210°, G. (unintensified)-239°, W. (unintensified)-257°, R. (unintensified)-280°, W.-338°, G.-349°, W.-353°, R.-004°.
940 *C 0536.1*	-Rear, 750 meters 331°30′ from front.	57° 44.3′ N 11° 39.4′ E	**Q.W.**	56 **17**	13	White lantern.	
942 *C 0573.5*	Foto.	57° 40.4′ N 11° 40.3′ E	**Fl.(2)W.R.G.** period 6s	20 **6**	W. 9 R. 6 G. 5	Orange tower.	G. 236°-259°, W.-262°, R.-293°.
943 *C 0574*	Valskar.	57° 40.6′ N 11° 40.1′ E	**Q.W.R.**	13 **4**	W. 4 R. 3	Lantern on white pedestal.	W. 228°-064°, R.-101°.
944 *C 0557*	Dannekroken Range, front.	57° 41.0′ N 11° 40.0′ E	**Iso.R.** period 3s	22 **7**	8	Post, white triangular daymark, point up.	
948 *C 0557.1*	-Rear, 300 meters 172° from front.	57° 41.0′ N 11° 40.4′ E	**Iso.R.** period 3s	37 **11**	8	Post, white triangular daymark, point down.	
958	Juthuvudets grund.	57° 42.2′ N 11° 41.6′ E	**Fl.G.** period 3s	20 **6**	2	Lantern on black steel platform.	
959 *C 0556.3*	Bo.	57° 42.2′ N 11° 41.1′ E	**Q.W.**	16 **5**	5		
960 *C 0552*	Lilla Varholmen Range, front.	57° 42.0′ N 11° 42.0′ E	**Iso.W.** period 3s	66 **20**	11	White hut on white post, rectangular daymark.	Visible on range line only.
964 *C 0552.1*	-Rear, 180 meters 314° from front.	57° 42.3′ N 11° 42.2′ E	**Iso.W.R.G.** period 3s	95 **29**	W. 10 R. 5 G. 4	White lantern.	W. visible on range line only. R. 062°-079°, G.-106°, R.-116°. Synchronized with front.
968 *C 0556*	Stora Varholmen.	57° 42.0′ N 11° 42.0′ E	**L.Fl.(2)W.R.G.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	49 **15**	W. 13 R. 11 G. 9	Red lantern.	G. 320°30′-326°, W.-340°, R.-352°, G.-005°, W.-007°30′, R.-036°30′, W. (unintensified)-170°.
972 *C 0558*	Tangudden.	57° 42.0′ N 11° 40.0′ E	**Iso.W.R.G.** period 3s	15 **5**	W. 7 R. 5 G. 4	White lantern.	G. 191°-306°, W.-309°30′, R.-326°.
974 *C 0559*	Ockero Range, front.	57° 42.4′ N 11° 39.5′ E	**F.R.**	21 **6**	2	Post, white triangular daymark, point down.	Fishing light.
975 *C 0559.1*	-Rear, 285° 30' from front.	57° 42.4′ N 11° 39.4′ E	**F.R.**	38 **12**	2	Post, white triangular daymark, point up.	Fishing light.
980 *C 0578.8*	Mavholmsbadan.	57° 40.0′ N 11° 42.6′ E	**Q.W.**	26 **8**	10	White floodlit tower, green band.	Shown by day Nov. 1 to Mar. 31. **Radar reflector.**
	RACON		**M(– –)** period 48s		3		
	HONO ROD HARBOR:						
984 *C 0546*	-Hono Rod Range, front.	57° 42.0′ N 11° 39.0′ E	**F.R.**	21 **6**	7	Orange triangular daymark, point up, black border.	
988 *C 0546.1*	- -Rear, 250 meters 128° from front.	57° 41.9′ N 11° 38.9′ E	**F.R.**	39 **12**	7	Orange triangular daymark, point down, black border.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-WEST COAST				
992 *C 0560*	Hono Huvud.	57° 41.0′ N 11° 36.0′ E	**Fl.(2)W.R.G.** period 6s	62 **19**	W. 8 R. 6 G. 5	White lantern.	G. 039°-062°, W.-148°, R.-206°30′, W.-277°30′, G.-312°, W.-318°, R.-333°.
996 *C 0561*	Artholmen.	57° 42.0′ N 11° 37.0′ E	**Q.W.R.G.**	36 **11**	W. 6 R. 4 G. 3	Lantern on white pedestal.	G. 315°-104°30′, W.-117°30′, R.-133°.
1000 *C 0562.6*	Tynneskar.	57° 41.0′ N 11° 38.0′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 6 R. 4 G. 3	Lantern on white pedestal, black base.	R. 333°-036°, G.-121°30′, W.-124°, R.-153°, G.-333°.
1004 *C 0563*	Klava.	57° 41.0′ N 11° 39.0′ E	**Iso.W.R.G.** period 4s	14 **4**	W. 10 R. 8 G. 6	White lantern.	G. 277°30′-281°30′, W.-285°, R.-017°, G.-040°, W.-043°30′, R.-056°30′, G.-090°, R.-105°.
1008 *C 0574*	Valskar.	57° 41.0′ N 11° 40.0′ E	**Q.W.R.**	14 **4**	W. 3 R. 1	Lantern on white pedestal.	W. 228°-064°, R.-101°.
1012 *C 0562*	Benskar SE. side of island.	57° 40.0′ N 11° 37.0′ E	**Fl.(3)W.R.G.** period 9s	33 **10**	W. 6 R. 4 G. 3	Lantern on white pedestal.	W. 050°-094°, R.-179°, G.-050°.
1016	*Vinga Western Approach Buoy.*	57° 38.9′ N 11° 33.6′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
			SWEDEN-KATTEGAT				
	VINGA SAND:						
1020 *C 0565*	**-Vinga.**	57° 37.9′ N 11° 36.2′ E	**Fl.(2)W.** period 30s fl. 1s, ec. 7.5s fl. 1s, ec. 20.5s	151 **46**	**25**	Square granite tower; 95.	Unintensified on westerly bearings. Traffic signals. Signal station.
	GOTEBORG APPROACH:						
1024 *C 0569*	**-Trubaduren.**	57° 36.0′ N 11° 38.0′ E	**L.Fl.(3)W.R.G.** period 30s fl. 3s, ec. 3.5s fl. 3s, ec. 3.5s fl. 3s, ec. 14s	79 **24**	W. **20** R. **18** G. **17**	Black tower, orange top on gray base; 84. Floodlit. Helicopter platform.	W. 005°30-131°36', R.-163°30', G.-214°24', W.-237°12', R.-247°30′, G.-005°30'.
			F.R.	59 **18**	13		Visible 064°-131°.
	-RACON		**T(–)** period 30s		14		
1036 *C 0620*	-Svarta Baden.	57° 37.0′ N 11° 46.0′ E	**Fl.W.R.G.** period 6s	21 **6**	W. 5 R. 3 G. 3	White hut.	G. from shore-237°, W.-243°, R.-315°, G.-046°30′, W.-050°30′, R.-shore.
1040 *C 0567*	-Viten.	57° 38.0′ N 11° 37.0′ E	**Iso.W.R.G.** period 6s	36 **11**	W. 11 R. 8 G. 7	White floodlit hut on white conical base; 30.	G. 250°-292°30′, W.-296°30′, R.-307°, R. (unintensified)-015°, G. (unintensified)-094°, G.-103°, W.-117°30′, R.-126°30′, R. (unintensified)-132°.
1042 *C 0564.5*	-Kottstycket.	57° 38.4′ N 11° 36.8′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 **9**	4	White concrete tower, red stripe; 21.	**Radar reflector.**
1044 *C 0564*	-Vinga Ungar, 732 meters NW. of Vinga Light.	57° 38.0′ N 11° 36.0′ E	**Q.W.R.G.**	49 **15**	W. 6 R. 4 G. 3	Post.	G. 198°30′-266°30′, W.-269°, R.-000°, G.-099°, R.-198°30′. **Radar reflector.**
1048 *C 0566*	-E. Range, front.	57° 38.0′ N 11° 36.7′ E	**Oc.R.** period 4s	31 **9**	14	White tower; 33.	Visible 176°-276°. Intensified on range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-KATTEGAT				
1052 *C 0566.1*	- -Rear, 390 meters 254° from front.	57° 37.9′ N 11° 36.6′ E	**Oc.R.** period 4s	62 **19**	14	Red house, E. gable black with white band.	Visible 186°-286°. Intensified on range line. Synchronized with front.
1056 *C 0619*	-Stora Kanso.	57° 37.5′ N 11° 44.7′ E	**Iso.W.R.G.** period 3s	36 **11**	W. 5 R. 4 G. 3	White lantern on hut, red roof.	G. 275°-281°, R.-295°, W. (unintensified)-024°30′, G. (unintensified)-096°, G.-104°, W.-107°, R.-115°30′, R. (unintensified)-136°30′.
	GOTEBORG APPROACH:						
1058 *C 0618*	-Svensholmen E.	57° 37.8′ N 11° 46.2′ E	**Fl.W.** period 5s	10 **3**	2	Yellow post, white daymark.	
	GOTEBORG APPROACH:						
1060 *C 0640*	-Lilla Mosskullen.	57° 37.0′ N 11° 48.0′ E	**Q.W.R.G.**	23 **7**	W. 4 R. 2 G. 2	White hut.	G. 277°-287°, W.-296°, R.-020°, G.-103°, W.-106°, R.-112°. Fishing light.
1064 *C 0570*	-Buskars Knote.	57° 38.3′ N 11° 41.1′ E	**Fl.(3)W.R.G.** period 9s	39 **12**	W. 8 R. 5 G. 4	Orange tower; 38. Floodlit.	W. 013°-029°, R.-088°, G.-181°, W.-191°, R.-212°, G.-235°, W.-239°, R.-270°30′, G.-013°.
	-RACON		**K(– • –)** period 30s		5		
1066	-Trinda Brunskar, RACON.	57° 38.7′ N 11° 43.4′ E	**T(–)**		5		
1068 *C 0577*	-Tanneskar, E. point.	57° 40.0′ N 11° 40.0′ E	**Iso.W.R.G.** period 3s	29 **9**	W. 10 R. 7 G. 6	White lantern.	G. 227°-233°30′, W.-238°, R.-249°30′, G.-256°30′, W.-259°30′, R.-285°, G.-359°.
1072 *C 0571*	-Botto, E. side of entrance.	57° 39.0′ N 11° 43.0′ E	**Oc.W.R.** period 5s	41 **12**	W. 11 R. 8	White tower, green band; 33. Floodlit.	W. 000°-247°30′, R.-261°, W.-000°. Shown by day Nov. 1 to Mar. 31.
1080 *C 0571.6*	-Vasskarsgrund.	57° 39.2′ N 11° 43.5′ E	**I.V.Q.W.R.G.** period 8s	36 **11**	W. 13 R. 10 G. 9	Red tower, white top, red roof, on gray structure; 20. Floodlit.	R. 237°-239°, G.-254°30′, W.-260°, R.-277°30′, G.-316°, W.-090°, R.-097°.
	-RACON		**B(– • • •)** period 20s		4		
1084 *C 0572*	Brandnasbrotten.	57° 39.0′ N 11° 44.0′ E	**Fl.(2)W.R.G.** period 6s	22 **7**	W. 6 R. 4 G. 3	Small white tower, green masonry base. Floodlit.	G. 047°-077°, W.-092°30′, R.-101°, W.-144°, W. (unintensified)-236°, W.-249°, R.-325°.
1088 *C 0573*	-Gaveskar.	57° 39.7′ N 11° 46.2′ E	**Oc.W.R.G.** period 10s	33 **10**	W. 10 R. 8 G. 7	White tower; 32. Floodlit.	G. 202°-224°30′, W.-235°, R.-243°, G.-267°30′, W.-068°30′, R.-077°. Shown by day from Nov. 1 to Mar. 31.
1092 *C 0575*	-Skadden Rock.	57° 41.0′ N 11° 45.0′ E	**Q.W.**	16 **5**	3	Lantern on white pedestal.	
1100 *C 0580*	-Dynan.	57° 41.0′ N 11° 48.0′ E	**Q.W.**	23 **7**	5	White cairn, black band. Floodlit.	
1104 *C 0582*	-Knippelholmen.	57° 41.0′ N 11° 49.0′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 10 R. 10 G. 9	Tower, upper part white, lower black; 20.	G. 249°-263°, W.-296°30′, R.-334°, G.-046°30′, W.-064°, R.-070°, G.-075°, W.-083°, R.-shore. Shown by day from Nov. 1 to Mar. 31.
1124 *C 0581*	-Hunnebadan.	57° 41.0′ N 11° 50.0′ E	**Fl.(2)W.R.G.** period 6s	21 **6**	W. 10 R. 8 G. 6	White tower, black base; 25. Floodlit.	G. 047°30′-058°30′, W.-071°30′, R.-074°, G.-083°, W.-289°, R.-047°30′. Shown by day from Nov. 1 to Mar. 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-KATTEGAT				
1124.2 *C 0583*	-Alvsborgshamnen Range, front.	57° 41.4′ N 11° 49.7′ E	**F.R.**	39 **12**	2	Mast, red triangular daymark.	
1124.21 *C 0583.1*	- -Rear, 168 meters 275° from front.	57° 41.4′ N 11° 49.6′ E	**F.R.**	49 **15**	2	Mast, red triangular daymark.	
1124.5 *C 0583.5*	-Alvshorashamnen Ro Ro Range in line 029°, front.	57° 41.7′ N 11° 50.8′ E	**F.R.**				
1124.6 *C 0583.51*	- -Rear, 160 meters from front.	57° 41.7′ N 11° 50.8′ E	**F.R.**				
1125 *C 0583.6*	-Skandiahamnen Range, front.	57° 41.3′ N 11° 51.2′ E	**F.R.**		2	Blue daymark.	Marks approximate line between 11m and 12m depths off quay.
1125.1 *C 0583.61*	- -Rear, 400 meters, 054°12′ from front.	57° 41.5′ N 11° 51.5′ E	**F.R.**		2	Blue daymark.	
1132 *C 0656*	-Langedrag.	57° 40.0′ N 11° 51.0′ E	**Q.R.**	16 **5**	6	Metal tower.	Shown from May 1 to Oct. 31. Occasional.
1136 *C 0584*	-Carnegieska Bruket Range, front, on bridge.	57° 41.0′ N 11° 54.0′ E	**Iso.R.** period 3s	157 **48**	11	Metal framework tower.	Range leads through Alvsborgfjorden from Hunnebadan to Nya Varvet. Shown by day from Nov. 1 to Mar. 31.
1140 *C 0584.1*	- -Rear, 1.2 km., 080° from front.	57° 41.5′ N 11° 55.3′ E	**Q.R.**	253 **77**	11	Mast.	Shown by day from Nov. 1 to Mar. 31.
1144 *C 0589*	-Billingen.	57° 41.4′ N 11° 53.1′ E	**Fl.(2)W.** period 6s	17 **5**	7	Dolphin.	Shown from July 6 to June 6.
	GOTEBORG (GOTHEBURG):						
1148 *C 0594*	-Skeppsbron.	57° 42.0′ N 11° 57.0′ E	**Fl.(2)W.** period 6s	17 **5**	6	Dolphin.	Shown from July 6 to June 6.
1152 *C 0624*	-Donso, Svartskar, W. head.	57° 35.0′ N 11° 44.0′ E	**Fl.(2)W.R.G.** period 6s	36 **11**	W. 7 R. 5 G. 4	White hut.	G. 345°-043°, W.-143°30′, R.-201°30′, G.-261°30′, W.-266°, R.-345°.
1156 *C 0623*	-Karholmeskar.	57° 35.3′ N 11° 46.1′ E	**Fl.W.R.G.** period 3s	26 **8**	W. 4 R. 3 G. 2	White shed.	G. 253°-086°, W.-090°, R.-103°. Fishing light.
1160 *C 0625*	**Tistlarna.**	57° 30.6′ N 11° 43.7′ E	**L.Fl.(2)W.R.** period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	75 **23**	W. **18** R. **15**	Yellow castellated building with flat roof; 46.	R. 100°-351°, W.-100°.
1164 *C 0626*	Matskar.	57° 30.0′ N 11° 45.0′ E	**Q.W.R.G.**	33 **10**	W. 5 R. 3 G. 3	White hut.	G. 214°-227°, W.-237°, R.-302°, G.-003°, W.-016°, R.-045°. Fishing light.
1166 *C 0659*	Lerkils.	57° 27.6′ N 11° 55.1′ E	**Iso.W.R.G.** period 8s	16 **5**	W. 5 R. 3 G. 2	White quadrangular tower; 7.	G. 085°-093°, W.-098°, R.-118°.
1168 *C 0658*	Kungen.	57° 26.9′ N 11° 49.9′ E	**Fl.(3)W.R.G.** period 9s	41 **12**	W. 9 R. 6 G. 5	White concrete tower, black band; 25.	G. 008°-065°, W.-113°30′, R.-200°, G.-339°, W.-342°, R.-008°.
1172 *C 0660*	Hallands Svartskar.	57° 22.5′ N 11° 51.2′ E	**Fl.W.R.G.** period 3s	33 **10**	W. 9 R. 6 G. 5	White tower; 25.	G. 165°-174°, W.-179°, R.-197°, R. (unintensified)-260°, G. (unintensified)-264°, W. (unintensified)-266°, R. (unintensified)-287°, R.-295°30′, G.-324°, W.-328°, R.-340°, G.-353°, W.-000°, R.-017°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-KATTEGAT				
	GOTEBORG APPROACH:						
1176 *C 0628*	-Valo.	57° 33.0′ N 11° 48.1′ E	**L.Fl.W.R.G.** period 8s	49 **15**	W. 10 R. 7 G. 6	White concrete tower, green band; 34.	R. (unintensified) 170°-174°, R.-178°30′, G.-270°, W.-271°30′, R.-291°30′, G.-344°, W.-345°30′, R.-354°30′, G.-001°30′, W.-006°, R.-033°, G.-039°, obsc.-170°.
1180 *C 0630*	-Rattaren.	57° 35.0′ N 11° 48.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 3	White hut on green base.	G. 205°-211°30′, W.-215°30′, R.-327°, G.-350°, W.-357°30′, R.-034°.
1184 *C 0632*	-Donsohuvud.	57° 36.0′ N 11° 49.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 10 R. 7 G. 6	White lantern.	G. 185°30′-190°, W.-196°, R.-315°, G.-023°, W.-025°, R.-037°30′, obsc.-185°30′.
1188 *C 0636*	-Knarrholmen.	57° 37.0′ N 11° 50.0′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 10 R. 7 G. 6	Red lantern. Floodlit.	G. 000°-004°30′, W.-005°30′, R.-032°30′, W. (unintensified)-142°30′, G.-164°, W.-166°30′, R.-173°, obsc.-000°.
1192 *C 0642*	-Smaskaren.	57° 38.0′ N 11° 49.0′ E	**Iso.W.R.G.** period 3s	20 **6**	W. 4 R. 3 G. 2	White hut. Floodlit.	Fishing lights. G. 204°-016°, R.-090°, G.-171°30′, W.-188°30′, R. elsewhere.
1196 *C 0634*	-Lilla Sjoholmen.	57° 37.1′ N 11° 51.0′ E	**Fl.W.R.G.** period 6s	19 **6**	W. 4 R. 2 G. 2	White storage shed.	Fishing light. R. 340°-007°, G.-059°, W.-082°, R.-165°.
1200 *C 0644*	-Langholmen (Ganle bukten).	57° 38.0′ N 11° 53.0′ E	**Fl.R.** period 3s	6 **2**	1	Dolphin.	Fishing light. Shown by day from Oct. 1 to Mar. 31.
1208 *C 0652*	-Rivo, E. extremity.	57° 40.0′ N 11° 48.0′ E	**Fl.W.R.G.** period 3s	6 **2**	W. 6 R. 4 G. 3	White wooden hut.	G. 170°-174°, W.-183°30′, R.-199°, W. (unintensified)-326°30′, G.-340°, W.-345°30′, R.-352°.
1212 *C 0650*	-Skifteskar.	57° 39.0′ N 11° 49.0′ E	**Fl.(3)W.R.G.** period 9s	26 **8**	W. 6 R. 4 G. 3	Lantern on orange tower.	G. 312°30′-356°30′, W.-097°, R.-175°, G.-217°, W.-220°30′, R.-312°30′.
1216 *C 0654*	-Smorbadan.	57° 39.0′ N 11° 50.0′ E	**Q.W.R.G.**	16 **5**	W. 6 R. 4 G. 3	Lantern on white pedestal.	G. 001°-036°, W.-042°30′, R.-107°30′, G.-204°, W.-206°, R.-262°, G.-311°30′, W.-319°, R.- 001°. Fishing light.
1220 *C 0646*	-Fiskeback Range, front.	57° 39.0′ N 11° 50.9′ E	**F.G.**	36 **11**	4	Post.	Fishing light.
1220.1 *C 0646.1*	- -Rear, 80 meters 043° from front.	57° 39.0′ N 11° 50.8′ E	**F.G.**	56 **17**	4	Post.	Fishing light.
1228 *C 0670*	**Nidingen.**	57° 18.0′ N 11° 54.0′ E	**Fl.(2+1)W.R.** period 27s	83 **25**	W. **22** R. **18**	White tower, black band; 77.	R. 018°-039°, W.-018°. Light shown 24 hours from Nov. 1 to Mar. 31.
1232 *C 0666*	Lilleland Rev.	57° 18.4′ N 11° 55.9′ E	**Iso.W.R.G.** period 3s	62 **19**	W. 10 R. 7 G. 6	Black tower, white band, white lantern, gray base; 69. Floodlit.	G. 235°-333°, W.-003°, R.-125°, G.-159°30′, W.-161°, R.-235°. Light shown 24 hours from Nov. 1 to Mar. 31.
1236 *C 0673*	Malo.	57° 20.2′ N 11° 57.7′ E	**Fl.(3)W.R.G.** period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 5.7s	32 **10**	W. 8 R. 6 G. 5	White concrete tower; 29.	G. 316°-341°, W.-019°, R.-030°, G.-059°30', W.-091°, R.-106°.
1240 *C 0664*	-Hamn, E. side of Skallanas entrance.	57° 21.5′ N 11° 59.2′ E	**Fl.(2)W.R.G.** period 6s	16 **5**	W. 7 R. 5 G. 4	White lantern.	G. 342°-357°, W.-008°30′, R.-029°, G.-095°, W.-135°, R.-shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-KATTEGAT				
1244 *C 0674*	Fjordskar, at entrance to Kungsbackafjorden.	57° 21.0′ N 12° 01.0′ E	**Fl.W.R.G.** period 3s	33 **10**	W. 7 R. 5 G. 4	White lantern on gray stone base.	G. (3M) 157°-194°30′, W. (6M)-201°, R. (4M)- 318°, G.-002°30′, W.-029°, R.-038°30′.
1248 *C 0676*	Gottskar Range, front.	57° 23.0′ N 12° 01.0′ E	**F.R.**	26 **8**	3	Post, white triangular daymark, point up.	Fishing light.
1252 *C 0676.1*	-Rear, 66 meters 313° from front.	57° 23.4′ N 12° 01.2′ E	**F.R.**	39 **12**	3	Post, white triangular daymark, point down.	Fishing light.
1256 *C 0680*	-Kungsbacka.	57° 27.0′ N 12° 04.0′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 3 R. 1 G. 1	Dolphin.	G. 270°-357°30′, W.-001°, R.-090°, W.-270°. Shown May 1 through Nov. 30.
1260 *C 0683.4*	Sallebecke Range, front.	57° 17.0′ N 12° 08.0′ E	**F.R.**	20 **6**	3	Post, white triangular daymark.	Fishing light.
1264 *C 0683.5*	-Rear, 80 meters 145° from front.	57° 16.8′ N 12° 08.5′ E	**F.R.**	30 **9**	3	Post, white triangular daymark, point down.	Fishing light.
1268 *C 0682*	Krogstadsudde Batfjorden.	57° 15.0′ N 12° 06.0′ E	**Fl.(4)W.R.G.** period 12s	49 **15**	W. 5 R. 3 G. 3	White wooden tower; 23.	G. 039°-079°, W.-091°30′, R.-180°, W. (unintensified)-shore.
1272 *C 0682.6*	Ringhals Range, front.	57° 15.0′ N 12° 07.0′ E	**Iso.G.** period 3s	10 **3**	5	Stake, red triangular daymark, white border.	
1276 *C 0682.61*	-Rear, 175 meters 056°18′ from front.	57° 15.2′ N 12° 07.5′ E	**Iso.G.**	21 **6**	5	Stake, red triangular daymark, white border.	Synchronized. Range marks N. edge of channel.
1280 *C 0682.7*	-Grona Range, front.	57° 15.1′ N 12° 07.5′ E	**Iso.R.** period 3s	10 **3**	5	Stake, red triangular daymark, white border.	
1284 *C 0682.71*	- -Rear, 175 meters 056°18′ from front.	57° 15.2′ N 12° 07.5′ E	**Iso.R.** period 3s	21 **6**	5	Stake, red triangular daymark, white border.	Synchronized. Range marks S. edge of channel.
1285 *C 0682.5*	-Ringhals Range, front.	57° 16.1′ N 12° 07.5′ E	**Iso.W.** period 3s	16 **5**	10	Pile, red daymark, white border.	
1285.1 *C 0682.51*	- -Rear, 170 meters 056°24′ from front.	57° 15.2′ N 12° 07.9′ E	**Iso.W.** period 3s	26 **8**	10	Pile, red daymark, white border.	Range marks center of channel.
1288 *C 0683*	Buahamn Range, front.	57° 14.0′ N 12° 07.0′ E	**F.R.**	20 **6**	5	Post, triangular daymark, white with orange edge.	Fishing light.
1292 *C 0683.1*	-Rear, 100 meters 127° from front.	57° 14.3′ N 12° 07.1′ E	**F.R.**	33 **10**	5	Post, white triangular daymark, orange border.	Fishing light.
1294 *C 0683.2*	-Olai Rose Roda Range front.	57° 14.8′ N 12° 06.2′ E	**F.G.**	33 **10**	2	Post, white triangular daymark, orange border.	
1295 *C 0683.21*	- -Rear, 82 meters 307° from front.	57° 14.8′ N 12° 06.2′ E	**F.G.**	43 **13**	2	Post, white triangular daymark, orange border.	
1296 *C 0671*	Fladen.	57° 12.9′ N 11° 49.7′ E	**L.Fl..W.** period 8s	78 **24**	9	Black tower, red top, gray base; 84.	
			Fl.Y. period 3s				Security light.
	RACON		**N(– •)** period 30s		**15**		
1300 *C 0684*	Klaback.	57° 09.0′ N 12° 07.0′ E	**Fl.(2)W.R.G.** period 6s	46 **14**	W. 7 R. 5 G. 4	White lantern.	W. 333°30′-157°, R.-314°, G.-333°30′.
	VARBERG:						
1304 *C 0692*	-E. Range, No. “1", front.	57° 07.3′ N 12° 14.6′ E	**Iso.W.** period 2s	33 **10**	10	Post, triangular daymark.	
1308 *C 0692.1*	- -Rear, No. “3", 340 meters 019°24′ from front.	57° 07.5′ N 12° 14.8′ E	**Iso.W.** period 2s	46 **14**	10	Post, triangular daymark, point down.	Marks E. edge of outer channel. Synchronized.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-KATTEGAT				
1312 *C 0693*	-W. Range, No. "2", front.	57° 07.3′ N 12° 14.5′ E	**Iso.W.** period 2s	33 **10**	10	Post, triangular daymark.	
1316 *C 0693.1*	- -Rear, No. "4", 340 meters 019°18′ from front.	57° 07.6′ N 12° 14.7′ E	**Iso.W.** period 2s	46 **14**	10	Post, triangular daymark, point down.	Marks W. edge of outer channel. Synchronized.
1320 *C 0698.4*	-Red Range, front.	57° 06.9′ N 12° 14.8′ E	**Oc.R.** period 4s	49 **15**	6	Mast, white triangular daymark.	
1324 *C 0698.5*	- -Rear, 100 meters 070°18′ from front.	57° 06.9′ N 12° 14.9′ E	**Oc.R.** period 4s	66 **20**	6	Mast, white triangular daymark, point down.	Marks N. edge of inner channel. Synchronized.
1328 *C 0698*	-Green Range, front.	57° 06.8′ N 12° 14.8′ E	**Oc.G.** period 4s	49 **15**	6	Mast, white triangular daymark.	
1332 *C 0698.1*	- -Rear, 100 meters 065°42′ from front.	57° 06.9′ N 12° 06.9′ E	**Oc.G.** period 4s	66 **20**	6	Mast, white triangular daymark.	Marks S. edge of inner channel. Synchronized.
1340 *C 0704*	**-Subberget.**	57° 05.0′ N 12° 14.0′ E	**L.Fl.(2)W.R.G.** period 30s fl. 5s, ec. 5s fl. 5s, ec. 15s	85 **26**	W. **17** R. 14 G. 12	White cylindrical concrete tower; 45.	G. 342°-016°30′, W.-106°30′, R.-157°, W. (unintensified)-shore. Shown by day Nov. 1 to Mar. 31.
1344 *C 0706*	Traslov.	57° 03.0′ N 12° 16.0′ E	**Fl.(3)W.R.G.** period 9s	29 **9**	W. 9 R. 7 G. 6	Lantern on white pedestal. Floodlit.	G. 351°-058°, W.-091°30′, R.-119°.
1348 *C 0708*	Galtaback Range, front.	57° 01.6′ N 12° 18.7′ E	**F.R.**	16 **5**	7	Lantern on white pedestal.	Unintensified 155°-172°. Fishing light. **Horn:** (about 180 meters N.) 3 bl. ev. 30s.
1352 *C 0708.1*	-Rear, 250 meters 084°30′ from front.	57° 01.5′ N 12° 18.9′ E	**F.R.**	42 **13**	7	White post, triangular daymark.	
1356 *C 0714*	Glommen.	56° 55.6′ N 12° 21.0′ E	**Fl.W.R.G.** period 3s	31 **9**	W. 6 R. 4 G. 3	White structure on pierhead.	G. shore-021°, W.-028°, R.-036°, G.-056°30′, W.-075°, R.-shore.
1360 *C 0716*	**Morups Tange.**	56° 55.0′ N 12° 22.0′ E	**Oc.W.R.G.** period 8s	96 **29**	W. **18** R. **15** G. 13	White round stone tower, black band; 91.	G. shore-326°, W.-148°30′, R.-shore.
	RACON		**M(– –)** period 30s		**17**		
	FALKENBERGS HAMN:						
1368 *C 0722*	-W. breakwater, head.	56° 52.9′ N 12° 28.1′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	36 **11**	W. 11 R. 9 G. 8	White tower, red stripes; 26. Floodlit.	W. 200°-257°, R.-352°, G.-017°, W.-033°, R.-105°.
1372 *C 0724*	-Range, front, W. side.	56° 53.0′ N 12° 29.0′ E	**Iso.W.** period 3s	39 **12**	9	White post, triangular daymark, red border.	Marks western edge of channel.
1376 *C 0724.1*	- -Rear, 360 meters 032°30′ from front.	56° 53.5′ N 12° 28.8′ E	**Iso.W.** period 3s	59 **18**	9	White post, triangular daymark, red border.	Synchronized.
1380 *C 0726*	-Range, front, E. side.	56° 53.0′ N 12° 29.0′ E	**Iso.W.** period 3s	39 **12**	9	White post, triangular daymark, red border.	Marks eastern edge of channel.
1384 *C 0726.1*	- -Rear, 360 meters 032°30′ from front.	56° 53.5′ N 12° 28.9′ E	**Iso.W.** period 3s	59 **18**	9	White post, triangular daymark, red border.	Synchronized.
1396 *C 0728*	-Inner harbor Range, front, S. side.	56° 53.5′ N 12° 29.4′ E	**F.G.**	36 **11**	8	White triangular daymark, red border.	Marks southern edge of channel.
1400 *C 0728.1*	- -Rear, 120 meters 061° from front.	56° 53.6′ N 12° 29.5′ E	**F.G.**	49 **15**	8	White triangular daymark, red border.	Synchronized with front.
1401 *C 0734*	Skallkroken Roda Range, front.	56° 44.0′ N 12° 39.0′ E	**F.R.**	13 **4**	4	Post, white triangular daymark, red border.	
1401.1 *C 0734.1*	-Rear, 200 meters 044° from front.	56° 44.2′ N 12° 38.8′ E	**F.R.**	26 **8**	4	Post, white triangular daymark with red border, point down.	
1403 *C 0734.2*	Skallkrolken Grona Range, front.	56° 43.7′ N 12° 38.8′ E	**F.G.**	10 **3**	2	Post, white triangular daymark, red border.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-KATTEGAT				
1403.1 *C 0734.21*	-Rear, 40 meters 110° from front.	56° 43.7′ N 12° 38.8′ E	**F.G.**	16 **5**	2	Post, white triangular daymark, red border, point down.	
1404 *C 0735*	Tylogrund.	56° 38.2′ N 12° 42.2′ E	**L.Fl.(3)W.R.G.** period 30s fl. 3s, ec. 3s fl. 3s, ec. 3s fl. 3s, ec. 15s	73 **22**	W. 9 R. 7 G. 6	Red tower, white top; 75. Helicopter platform.	R. 141°-274°, G.-294°, W.-141°. Shown by day Nov. 1 to Mar. 31.
			Fl.W. period 3s	33 **10**	3		
1408 *C 0737*	Grotvik.	56° 38.0′ N 12° 47.0′ E	**Q.W.R.G.**	20 **6**	W. 8 R. 6 G. 5	Concrete hut.	G. shore-312°, W.-019°, G.-043°, W.-077°, R.-shore.
	HALMSTAD HAMN:						
1412	*-Entrance Buoy.*	56° 37.0′ N 12° 48.0′ E	**L.Fl.W.** period 10s	13 **4**	5	Red and white buoy.	**Radar reflector.**
1416 *C 0738*	-Halmstad, breakwater.	56° 39.0′ N 12° 50.0′ E	**Fl.(2)W.** period 6s	46 **14**	13	White framework tower, red bands; 33. Floodlit.	
1420 *C 0746*	-Oil Harbor Range, front.	56° 39.0′ N 12° 52.0′ E	**F.G.**	26 **8**	6	Post, orange triangular daymark. Floodlit.	
1424 *C 0746.1*	--Rear, about 400 meters 073° from from front.	56° 39.4′ N 12° 51.9′ E	**F.G.**	36 **11**	6	Post, orange triangular daymark, point down.	
1426	-Vastra Rannkaten.	56° 39.2′ N 12° 50.9′ E	**Fl.(3)R.** period 6s		3	Perch.	
1428 *C 0739*	-Western Range.	56° 40.0′ N 12° 51.0′ E	**Iso.W.** period 2s	26 **8**	13	Post, white triangular daymark.	
1432 *C 0739.1*	--Rear, 320 meters 037° from front.	56° 40.0′ N 12° 51.0′ E	**Iso.W.** period 2s	43 **13**	13	Post, white triangular daymark.	Synchronized.
1436 *C 0740*	-E. Range, front.	56° 40.0′ N 12° 51.0′ E	**Iso.W.** period 2s	6 **2**	13	Post, white triangular daymark.	
1440 *C 0740.1*	--Rear, 350 meters 037° from front.	56° 39.7′ N 12° 51.1′ E	**Iso.W.** period 2s	26 **8**	13	Post, white triangular daymark, point down.	
1444 *C 0752*	Bastad, front.	56° 26.0′ N 12° 51.0′ E	**F.R.**	26 **8**	9	Wooden post, white diamond daymark.	
1448 *C 0752.1*	-Rear, 60 meters 219° from front.	0° 00.0′ 0° 00.0′	**F.R.**	39 **12**	9	Wooden post, white diamond daymark.	
1452 *C 2242*	**Hallands Vadero.**	56° 27.0′ N 12° 33.0′ E	**Iso.W.** period 8s	68 **21**	**16**	White round metal tower; 42.	Obscured 285°-335°. Shown by day from Nov. 1 to Mar. 31.
1456 *C 2246*	Vingaskar.	56° 25.0′ N 12° 36.0′ E	**Fl.(3)W.R.G.** period 9s	34 **10**	W. 6 R. 4 G. 3	White lantern.	G. 164°-195°, W.-218°30′, R.-286°, G.-348°30′, W.-046°, R.-060°30′.
	TOREKOV:						
1460 *C 2252*	-Telephone cable range, front.	56° 25.5′ N 12° 37.3′ E	**F.G.**	49 **15**	4	Cable beacon.	
1464 *C 2252.1*	--Rear, 700 meters 088° from front.	56° 25.6′ N 12° 38.0′ E	**F.G.**	82 **25**	4	Cable beacon.	
1468 *C 2248*	-On rock in harbor, front.	56° 25.7′ N 12° 37.8′ E	**F.R.**	27 **8**	6	Post, white triangular daymark.	
1472 *C 2248.1*	--Rear, 40 meters 124°30′ from front.	56° 25.8′ N 12° 38.1′ E	**F.R.**	33 **10**	6	Post, white triangular daymark.	Storm signals.
1476 *C 2254*	Ramsjo Hamn Roda Range front.	56° 23.0′ N 12° 40.0′ E	**F.R.**	16 **5**	2	Post, white triangular daymark, point up.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-KATTEGAT				
1480 *C 2254.1*	-Rear, 160 meters 355° from front.	56° 23.2´ N 12° 40.0´ E	**F.R.**	33 **10**	2	Post, white triangular daymark, point down.	Fishing light.
1484 *C 2254.4*	-Grona Range, front.	56° 23.1´ N 12° 39.8´ E	**F.G.**	18 **5**	2	Post, white triangular daymark, point up.	Fishing light.
1488 *C 2254.5*	- -Rear, 110 meters 326° from front.	56° 23.1´ N 12° 39.7´ E	**F.G.**	36 **11**	2	Post, white triangular daymark, point down.	Fishing light.
1492 *C 2258.4*	Angelholm, N. jetty.	56° 16.4´ N 12° 49.9´ E	**Fl.R.** period 3s	10 **3**	5	Post.	
1496 *C 2258.6*	-S. jetty.	56° 16.3´ N 12° 49.9´ E	**Fl.(2)G.** period 6s	10 **3**	4	Post.	
1500 *C 2258*	Angelholm Range, front.	56° 16.3´ N 12° 50.5´ E	**F.G.**	26 **8**	7	Post.	Visible on range line only.
1504 *C 2258.1*	-Rear, 110 meters 099° from front.	56° 16.3´ N 12° 50.5´ E	**F.G.**	36 **11**	7	Post.	Visible on range line only.
1508 *C 2259*	Svanshall, on W. mole.	56° 15.0´ N 12° 40.0´ E	**F.W.R.G.**	20 **6**	W. 7 R. 5 G. 4	White framework tower.	Fishing light, shown from July 15 to May 15. R. 129°-154°, G.-225°, W.-270°, R.-300°.
1512 *C 2259.5*	Arildslage, pierhead, fishing harbor.	56° 17.0´ N 12° 35.0´ E	**Iso.W.R.G.** period 4s	21 **6**	W. 9 R. 6 G. 5	White post.	Fishing light. G. shore-232°, W.-250°, R.-shore.

Section 2

East Coast of Denmark and Flensburger Forde
Including Lillebaelt

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT				
1520 *C 0001*	**Skagen,** W.	57° 44.9′ N 10° 35.7′ E	**Fl.(3)W.R.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	102 **31**	W. **17** R. 12	White round tower; 82.	W. 053°-248°, R.-323°. **DGPS Station.**
1524 *C 0002*	**Skagen.**	57° 44.0′ N 10° 38.0′ E	**Fl.W.** period 4s fl. 0.2s, ec. 3.8s	144 **44**	**23**	Gray round tower; 151.	
	RACON		**G(– – •)**		**20**		
	SKAGEN HAVN:						
1528 *C 0005*	-Entrance Range, front.	57° 43.0′ N 10° 35.0′ E	**Iso.R.** period 4s	42 **13**	8	Pipe mast.	Synchronized.
1532 *C 0005.1*	- -Rear, 262 meters 334°30′ from front.	57° 43.2′ N 10° 35.4′ E	**Iso.R.** period 4s	72 **22**	8	Lattice mast.	F.R. and F.G. lights at head of W. and E. inner moles respectively.
1536	-W. breakwater, E. head.	57° 43.0′ N 10° 36.0′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	26 **8**	5	Red tower; 23.	
1540	-E. breakwater, SW. head.	57° 42.9′ N 10° 35.7′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	26 **8**	5	Green tower; 23.	**Horn:** 2 bl. ev. 30s.
1544 *C 0004*	- -NE. head.	57° 43.3′ N 10° 36.4′ E	**F.W.**	20 **6**	6	Gray mast; 7.	
1548 *C 0006*	-Forhavn, SW. mole, head.	57° 43.0′ N 10° 35.6′ E	**F.R.**	16 **5**	2	Gray mast; 7.	
1552	- -NE. mole, head.	57° 43.0′ N 10° 35.6′ E	**F.G.**	16 **5**	2	Gray mast; 7.	
1556 *C 0009*	-Inner W. mole, head.	57° 43.1′ N 10° 35.6′ E	**F.R.**	19 **6**		Post.	Visible only over the harbor.
1560 *C 0010*	-Inner E. mole, head.	57° 43.1′ N 10° 35.6′ E	**F.G.**	19 **6**		Post.	Visible over the harbor.
1564	-Osthavn, SE. mole.	57° 43.0′ N 10° 36.0′ E	**F.G.**	13 **4**	4	Gray pipe mast.	
1568	-Oshavn, NW. mole.	57° 43.0′ N 10° 35.8′ E	**F.R.**	13 **4**	4	Gray pipe mast.	
	AALBAEK HAVN:						
1572 *C 0017*	-S. mole, head.	57° 36.0′ N 10° 26.0′ E	**F.R.**	19 **6**	2	Mast; 13.	
1576 *C 0016*	-N. mole, head.	57° 35.5′ N 10° 25.7′ E	**F.G.**	19 **6**	2	Mast; 13.	
1584 *C 0020*	**Hirsholm.**	57° 29.0′ N 10° 38.0′ E	**Fl.(3)W.** period 30s fl. 1s, ec. 5s fl. 1s, ec. 5s fl. 1s, ec. 17s	98 **30**	**22**	Round granite tower; 89.	
			F.W.R.				W. 006°30′-012°, R.-017°30′, obscured elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT				
	HIRSHOLM:						
1588 *C 0024*	-Havn, S. mole, head.	57° 29.0′ N 10° 37.0′ E	**Iso.W.R.G.** period 2s	16 **5**	W. 5 R. 3 G. 3	White square structure, green band; 8.	W. 075°-093°, R.-180°, G.-075°.
1592 *C 0027*	Strandby Havn, inner S. mole.	57° 29.7′ N 10° 30.6′ E	**F.R.**	23 **7**	4	Red framework tower; 16.	
1593 *C 0027.3*	-Mole, head.	57° 29.7′ N 10° 30.4′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	5	Red framework tower; 26.	
1596 *C 0026*	-Inner N. mole.	57° 29.6′ N 10° 30.5′ E	**F.G.**	23 **7**	4	Green framework tower; 16.	
1597 *C 0026.3*	- -Mole, head.	57° 29.7′ N 10° 30.4′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	33 **10**	5	Green framework tower; 26.	**Siren:** 1 bl. ev. 60s (bl. 15s, si. 45s).
1598 *C 0025*	- -Strandby Harbor Range, front.	57° 29.7′ N 10° 30.2′ E	**Iso.W.** period 4s	26 **8**	7	Gray mast, red triangular daymark, point up.	Visible 185°12′-320°12′.
1598.1 *C 0025.1*	- - -Rear, 268 meters 252°42′ from front.	57° 29.6′ N 10° 30.0′ E	**Iso.W.** period 4s	39 **12**	7	Gray mast, red triangular daymark, point down; 52.	Visible 185°12′-320°12′.
	FREDERIKSHAVN:						
1600 *C 0030*	-Range, front.	57° 26.0′ N 10° 33.0′ E	**Iso.R.** period 2s	26 **8**	10	Red round tower; 23.	Unintensified 018°-108°.
1604 *C 0030.1*	- -Rear, 405 meters 303°30′ from front, on S. inner mole.	57° 26.1′ N 10° 32.6′ E	**Iso.R.** period 4s	98 **30**	11	Gray framework tower.	Visible 297°30′-306°30′.
1606	*-Approach Buoy.*	57° 25.1′ N 10° 35.7′ E	**Iso.W.** period 4s			SAFE WATER RW, pillar, topmark.	
	-RACON		**T(–)**				
1608 *C 0028*	-NE. breakwater, head.	57° 26.0′ N 10° 33.0′ E	**Iso.W.G.** period 2s	26 **8**	W. 13 G. 9	Green tower; 23.	G. 302°-271°, W.-278°. **Siren:** 2 bl. ev. 30s. **Reserve Reed.**
1612 *C 0031*	-S. inner mole, head.	57° 26.1′ N 10° 32.6′ E	**F.R.**	15 **5**	5	Red framework tower.	
1616 *C 0031.2*	-N. inner mole, head.	57° 26.2′ N 10° 32.7′ E	**F.G.**	15 **5**	5	Green framework mast.	
1628 *C 0032*	-Fladehavn, E. mole, head.	57° 26.0′ N 10° 33.0′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	14 **4**	4	Red tower; 7.	Visible 006°-280°.
1630 *C 0027.6*	-Ronnerhavn.	57° 28.0′ N 10° 32.6′ E	**Fl.G.** period 3s fl. 0.8s, ec. 2.2s	14 **4**	4	Gray mast. Floodlit.	
1632 *C 0033*	- -W. mole, head.	57° 26.1′ N 10° 32.6′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	14 **4**	4	Green tower; 7.	Visible 129°-069°.
	SAEBY HAVN:						
1636 *C 0034*	-N. outer mole, head.	57° 20.0′ N 10° 32.0′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	19 **6**		Gray post.	
1640 *C 0036*	-S. outer mole, head.	57° 19.9′ N 10° 32.0′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	20 **6**		Gray post.	**Siren:** 1 bl. ev. 60s. Occasional.
1644 *C 0038*	-N. inner mole, head.	57° 20.0′ N 10° 32.0′ E	**F.G.**	23 **7**		Gray post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT				
1646	*"Route T", buoy No. 3.*	57° 28.0′ N 11° 25.0′ E	**Iso.W.** period 4s			SAFE WATER RW, pillar, topmark.	
	RACON		**K(– • –)**		10		
	LAESO:						
1648 *C 0044*	-Nordre Ronner, on Spirholm.	57° 21.7′ N 10° 55.3′ E	**Fl.W.** period 15s fl. 0.2s, ec. 14.8s	53 **16**	14	Round granite tower; 59.	
1652 *C 0057*	-Syrodde.	57° 19.0′ N 11° 12.0′ E	**Fl.W.R.** period 3s fl. 0.7s, ec. 2.3s	39 **12**	W. 8 R. 5	Gray framework tower; 30.	R. 335°-011°, W. elsewhere.
1656 *C 0054*	-Osterby Havn, E. mole, head.	57° 19.0′ N 11° 08.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	33 **10**	W. 8 R. 5	White post on white hut; 16.	W. 127°-191°, R.-090°, G.-127°. **Siren:** 2 bl. ev. 60s. When vessels are expected.
1660 *C 0055*	- -Outer mole, E. head.	57° 19.3′ N 11° 07.5′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	19 **6**	4	Post; 10.	
1664 *C 0048*	-Vestero Havn, W. mole, head.	57° 18.0′ N 10° 55.0′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	23 **7**	3	Round green tower; 16.	**Horn:** 1 bl. ev. 30s.
1668 *C 0049*	- -Sandtrap.	57° 17.9′ N 10° 55.3′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	13 **4**	5	Gray column; 7.	
1672 *C 0050*	-Vestero Havn Range, front.	57° 18.0′ N 10° 56.0′ E	**Iso.R.** period 2s	23 **7**	3	Red lattice mast, red triangular daymark; 16.	
1676 *C 0050.1*	- -Rear, 347 meters 136° from front.	57° 17.8′ N 10° 55.7′ E	**Iso.R.** period 4s	46 **14**	3	Lattice mast, red triangular daymark; 23.	
1696 *C 0061*	**-Laeso Rende.**	57° 13.2′ N 10° 40.4′ E	**L.Fl.(2)W.R.G.** period 20s fl. 2s, ec. 2s fl. 2s, ec. 14s	82 **25**	W. **18** R. 14 G. 14	White tower, black base; 85. Helicopter platform.	G. 105°30′-179°, W.-203°, R.-252°, G.-329°30′, W.-337°, R.-105°30′.
	-RACON		**Q(– – • –)** period 60s		**20**		Azimuth coverage 154°-056°.
1716 *C 0062*	Asaa, N. mole, W. head.	57° 09.0′ N 10° 26.0′ E	**F.G.**	13 **4**	1	Post; 13.	Shown from Sept. 1 to April 30. **Siren:** 1 bl. ev. 60s. When vessels are expected.
1720 *C 0064*	-S. mole, head.	57° 08.7′ N 10° 25.8′ E	**F.R.**	13 **4**	1	Post; 13.	Shown from Sept. 1 to Apr. 30.
1724 *C 0066.8*	-Svitringen Rende S.	56° 51.1′ N 10° 36.4′ E	**Fl.W.** period 3s fl., ec. 2.3s	43 **13**	8	Metal mast; 49.	Pilot station.
	-RACON		**G(– – •)** period 120s		10		
	LIMFJORDEN ENTRANCE:						
1732 *C 0067*	-No. "8".	56° 53.0′ N 10° 33.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	5	Red metal tower with platform; 33.	Located 30 meters inside edge of channel. **Radar reflector.**
1736 *C 0067.2*	-No. "13".	56° 54.0′ N 10° 31.0′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	5	Green metal tower with platform; 33.	Located 30 meters inside edge of channel. **Radar reflector.**
1740 *C 0067.3*	-No. "12".	56° 57.0′ N 10° 28.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	5	Red metal tower with platform; 33.	Located 30 meters inside edge of channel. **Radar reflector.**
1742 *C 0065*	-Hou, N. mole.	57° 03.0′ N 10° 23.0′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	10 **3**	4	Green pillar.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT				
1743 *C 0065.2*	-Inner mole.	57° 03.4′ N 10° 22.9′ E	**F.G.**	20 **6**	4	Green pillar.	
1744 *C 0066*	**-Hals Barre.**	56° 57.3′ N 10° 26.0′ E	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	59 **18**	**26**	Red tower, white band; 50. Floodlit.	Pilot station.
			Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	49 **15**	W. 12 R. 8 G. 8		G. 305°-313°, W.-319°, R.-325°.
	-RACON		**B(– • •)** period 40s		**15**		
1748 *C 0069*	-Hals Barre N.	56° 58.0′ N 10° 21.9′ E	**Fl.(3)G.** period 10s	42 **13**	5	Green tower; 42.	**Radar reflector.**
1752 *C 0069.5*	-Hals Barre S.	56° 57.9′ N 10° 21.8′ E	**Fl.(3)R.** period 10s	42 **13**	5	Red tower; 42.	**Radar reflector.**
1756 *C 0073*	-Egensekloster, rear.	56° 59.0′ N 10° 18.0′ E	**Iso.W.** period 4s	66 **20**	12	Red framework mast, red triangular daymark, point down; 65.	Rear light midway between twin front lights. Intensified 291°30′-297°30′.
1760 *C 0072*	- -Korsholm, N. front light, about 2 kilometers 114°18′ from rear.	56° 58.0′ N 10° 20.0′ E	**Fl.R.G.** period 3s	17 **5**	9 4	Red octagonal tower; 20.	R. 139°30′-260°, G.-298°30′, obsc.-139°30′, intensified 2° each side of 294°30′.
1764 *C 0072.1*	- -S. front light, 9 meters 203° from N. front light, 2 km. 114°06′ from rear.	56° 58.4′ N 10° 20.0′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	17 **5**	9 4	Red octagonal tower; 20.	Visible 291°30′-334°30′, intensified 2° each side of 294°30′.
	-Egensekloster:						
1768 *C 0076*	- -E. Light, Range, front.	56° 59.0′ N 10° 18.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	13 **4**	W. 14 R. 10 G. 10	White house, red band; 13.	G. 311°30′-315°, W.-316°30′, R.-321°.
1772 *C 0076.1*	- - -Rear, 177 meters 315°24′ from front.	56° 59.5′ N 10° 18.3′ E	**Iso.W.** period 4s	30 **9**	13	Gray mast; 23.	
1776 *C 0078*	- -E. pier.	56° 59.0′ N 10° 19.0′ E	**F.G.**	13 **4**	5	White concrete pillar, green band.	
1780 *C 0084*	-Egensekloster Skov Range, front.	56° 59.0′ N 10° 15.0′ E	**Iso.R.** period 2s	42 **13**	5	Red framework mast; 33.	Visible 076°18′-156°18′.
1784 *C 0084.1*	- -Rear, 540 meters 116°18′ from front.	56° 58.6′ N 10° 15.1′ E	**Iso.R.** period 4s	62 **19**	5	Red framework mast; 52.	Visible 076°18′-156°18′.
1788 *C 0089*	-Frydenstrand, common front.	56° 59.0′ N 10° 12.0′ E	**Iso.W.** period 2s	43 **13**	8	Red framework mast; 33.	Visible 131°-143°.
			Iso.G. period 2s		5		Visible 231°-311°.
1792 *C 0089.1*	- -Rear, about 916 meters 137° from front.	56° 58.7′ N 10° 12.8′ E	**Iso.W.** period 4s	75 **23**	8	Red framework structure, red triangular daymark, point down, white stripe.	Visible 133°-141°.
1796 *C 0088.9*	- -Rear, 340 meters 271° from common front.	56° 59.0′ N 10° 11.8′ E	**Iso.G.** period 4s	59 **18**	5	Red framework mast; 49.	Visible 231°-311°.
1800 *C 0079.9*	-S. Range, front.	57° 00.0′ N 10° 17.0′ E	**Iso.R.** period 2s	42 **13**	8	Red framework structure, red triangular daymark, white stripe.	Visible 266°30′-306°30′.
1804 *C 0080*	- -Common rear, 240 meters 286° from range front, 270 meters 279°30′ from N. range, front.	56° 59.6′ N 10° 16.3′ E	**Iso.W.** period 4s	59 **18**	8	Framework structure, red triangular daymark, white stripe.	Visible 243°-323°.
1808 *C 0080.1*	-N. Range, front.	57° 00.0′ N 10° 17.0′ E	**Iso.G.** period 2s	42 **13**	8	Red framework structure, red triangular daymark, white stripe.	Visible 259°30′-299°30′.
1812 *C 0082*	Hals, W. front.	57° 00.0′ N 10° 18.0′ E	**Iso.W.** period 2s	62 **19**	14	Red framework structure, red triangular daymark, white stripe.	Visible 066°30′-086°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT				
1816 *C 0082.1*	--Rear, 360 meters 076° 30′ from front.	56° 59.5′ N 10° 18.7′ E	**Iso.W.** period 4s	62 **19**	14	Red framework structure, red triangular daymark, white stripe.	Visible 066°30′-086°30′.
	LIMFJORDEN:						
1828 *C 0098*	-Bredhage Range, front.	57° 04.0′ N 10° 02.0′ E	**Iso.W.** period 2s	42 **13**	8	Red framework structure, red triangular daymark, white stripe.	Visible 299°-307°.
1832 *C 0098.1*	--Rear, 536 meters 303° from front.	57° 03.9′ N 10° 01.6′ E	**Iso.W.** period 4s	75 **23**	8	Red framework structure, red triangular daymark, white stripe, point down.	Visible 299°-307°.
	-Engholm:						
1836 *C 0101*	--E. Range and ESE. Range, common front.	57° 05.2′ N 10° 01.1′ E	**Iso.W.** period 2s	36 **11**	12	Red framework mast, red triangular daymark, white stripe, point up.	Visible 307°-347°.
			Iso.W. period 2s	33 **10**	8		Visible 044°-124°.
1840 *C 0100.9*	---E. Range, rear, 1100 meters 327°12′ from common front.	57° 05.7′ N 10° 00.5′ E	**Iso.W.** period 4s	75 **23**	12	Red framework mast, red triangular daymark, white stripe, point down.	Visible 307°-347°.
1841 *C 0101.1*	---ESE. Range, rear, 620 meters 083°36′ from common front.	57° 05.2′ N 10° 01.7′ E	**Iso.W.** period 4s	59 **18**	8	Red framework mast, red triangular daymark, white stripe, point down.	Visible 044°-124°.
1844 *C 0102*	--S. Range, front.	57° 05.0′ N 10° 00.0′ E	**Iso.R.** period 2s	43 **13**	4	Red framework structure, red triangular daymark, white stripe.	Visible 290°-312°.
1848 *C 0102.1*	---Rear, 427 meters 301° from front.	57° 05.5′ N 9° 59.5′ E	**Iso.R.** period 4s	59 **18**	5	Red framework structure, triangular daymark, white stripe, point down.	Visible 290°-312°.
1860 *C 0106*	--SE. Range, front.	57° 05.0′ N 10° 00.0′ E	**Iso.R.** period 2s	43 **13**	5	Red framework structure, red triangular daymark, white stripe, point up; 33.	Visible 004°30′-084°30′.
1864 *C 0106.1*	---Rear, 305 meters 044°30′ from front.	57° 05.5′ N 10° 00.2′ E	**Iso.R.** period 4s	59 **18**	5	Red framework structure, red triangular daymark, white stripe, point down; 49.	Visible 004°30′-084°30′.
1868 *C 0110*	-Skongaard Range, front.	57° 05.0′ N 9° 59.0′ E	**Iso.W.** period 2s	42 **13**	12	Red framework structure, red triangular daymark, white stripe.	Visible 003°48′-043°48′.
1872 *C 0110.1*	--Rear, 414 meters 024° from front.	57° 05.4′ N 9° 59.3′ E	**Iso.W.** period 4s	59 **18**	12	Red framework structure, red triangular daymark, white stripe, point down.	Visible 003°48′-043°48′.
	-Aalborg Havn:						
1884 *C 0121.6*	--W. mole, head.	57° 03.4′ N 9° 52.5′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	16 **5**	3	Green pole; 11.	
1888 *C 0121.7*	--E. mole, head.	57° 03.4′ N 9° 52.5′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	16 **5**	3	Red pole; 11.	
1904 *C 0124*	Oster-Hurup, E. mole, head.	56° 48.3′ N 10° 17.0′ E	**F.G.**	23 **7**	4	White mast; 16.	**Siren:** 1 bl. ev. 60s.
1908 *C 0125*	-S. mole, head.	56° 48.3′ N 10° 17.0′ E	**F.R.**	23 **7**	4	White mast; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	MARIAGER FJORD:						
	-Als Odde:						
1912 *C 0126*	--Range, front.	56° 42.7′ N 10° 20.8′ E	**Iso.W.** period 2s	23 **7**	9	Gray lattice mast, red triangular daymark, point up; 23.	
1916 *C 0126.1*	---Rear, 1511 meters 261°54′ from front.	56° 42.5′ N 10° 19.3′ E	**Iso.W.** period 4s	79 **24**	10	Gray lattice mast, red triangular daymark, point down; 62.	
1920 *C 0127*	--Second Range, front.	56° 42.1′ N 10° 19.6′ E	**Iso.G.** period 2s	16 **5**	3	Latticework mast, red triangular topmark, point up; 23.	
1924 *C 0127.1*	---Rear, 232 meters 236°18′ from front.	56° 42.1′ N 10° 19.4′ E	**Iso.G.** period 4s	30 **9**	4	Latticework mast, red triangular daymark, point down; 33.	
1928 *C 0128*	--Range, front.	56° 42.0′ N 10° 19.0′ E	**Iso.R.** period 2s	19 **6**	3	Post, red triangular daymark, point up; 19.	
1932 *C 0128.1*	---Rear, 200 meters 244° from front.	56° 42.1′ N 10° 19.2′ E	**Iso.R.** period 4s	33 **10**	3	Post, red triangular daymark, point down; 33.	
	RANDERS FJORD:						
1936 *C 0176*	**-Udbyhoj.**	56° 35.0′ N 10° 19.0′ E	**Oc.W.R.G.** period 5s lt. 2.5s, ec. 2.5s	115 **35**	W. **15** R. 10 G. 10	Gable of white building; 20.	G. 194°-228°, W.-232°, R.-254°, G.-276°, W.-279°, R.-289°.
1940 *C 0178*	-Barren, Entrance Range, front.	56° 36.0′ N 10° 20.0′ E	**Iso.W.** period 2s	13 **4**	14	Red pile, on concrete base, red triangular daymark, point up; 20.	Visible 250°30′-255°30′.
1944 *C 0178.1*	--Rear, 794 meters 253°06′ from front.	56° 36.0′ N 10° 19.6′ E	**Iso.W.** period 4s	46 **14**	14	Red latticework mast, red triangular daymark, point down; 40.	Visible 250°30′-255°30′.
1948 *C 0182*	-Kirkegrund W. Range, front.	56° 36.0′ N 10° 19.0′ E	**Iso.R.** period 2s	14 **4**	5	Red post, red triangular daymark, point up; 13.	Visible 269°30′-292°30′.
1952 *C 0182.1*	--Rear, 875 meters 281° from front.	56° 36.5′ N 10° 17.7′ E	**Iso.R.** period 4s	29 **9**	7	Red post, red triangular daymark, point down; 26.	Visible 278°-284°.
1956 *C 0184*	-Kirkegrund E. Range, front.	56° 36.0′ N 10° 21.0′ E	**Iso.R.** period 2s	18 **5**	11	Latticework mast, red triangular daymark, point up; 13.	Visible 098°30′-103°30′.
1960 *C 0184.1*	--Rear, 350 meters 101° from front.	56° 36.0′ N 10° 22.0′ E	**Iso.R.** period 4s	26 **8**	11	Latticework mast, red triangular daymark, point down; 23.	Visible 098°30′-103°30′.
1964 *C 0186*	-Melbank.	56° 36.0′ N 10° 21.0′ E	**Fl.(2)R.** period 5s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 2.8s	19 **6**	5	Red post on concrete base; 10.	
1968 *C 0188*	-Mellempolde.	56° 36.0′ N 10° 19.0′ E	**Fl.(2)G.** period 5s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 2.8s	14 **4**	3	Green post on dolphin.	
1972 *C 0190*	-Udbyhoi Fishing Harbor.	56° 37.0′ N 10° 18.0′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	14 **4**	2	Green post on dolphin; 7.	G. 281°-296°, W.-297°, R.-337°, G.-040°, W.-042°, R.-057°.
1976 *C 0164*	Anholt, near E. point of island.	56° 44.2′ N 11° 39.0′ E	**Fl.W.** period 15s fl. 0.2s, ec. 14.8s	131 **40**	14	White round tower, red top; 138.	Obscured 053°-076°, except when bearing 057° and 063°.
1980 *C 0166*	-Outer N. mole, head.	56° 42.9′ N 11° 30.5′ E	**Iso.W.R.G.** period 4s	26 **8**	W. 14 R. 10 G. 10	Red round metal tower.	G. 038°-112°, W.-130°, R.-135°, G.-160°, W.-164°, R.-038°. Sounded 0800-1600. **Fog detector light.**
1984 *C 0168*	-Outer S. mole, head.	56° 42.9′ N 11° 30.6′ E	**F.G.**	26 **8**	4	Green post.	Visible 345°-260°.
1988 *C 0172*	-Inner S. mole, head.	56° 43.0′ N 11° 30.6′ E	**F.G.**	20 **6**		White post.	Visible 354°-302°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT AND BELTS				
1992 *C 0170*	-Inner N. mole, head.	56° 43.0′ N 11° 30.7′ E	**F.R.**	20 **6**		White post.	Visible 254°-099°.
1996	*Anholt Buoy "6".*	56° 45.4′ N 11° 53.0′ E	**Iso.W.** period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		**T(–)** period 60s		10		(3 & 10 cm)
	BONNERUP:						
2000 *C 0195*	-Outer E. mole, head.	56° 32.2′ N 10° 42.8′ E	**F.R.**	16 **5**	4	Pyramid; 11.	
2004 *C 0195.2*	-Outer W. mole, head.	56° 32.2′ N 10° 42.7′ E	**F.G.**	16 **5**	4	Pyramid; 11.	
2008 *C 0200*	Gerrild, Knudshoved.	56° 32.0′ N 10° 50.0′ E	**Fl.(4)W.G.** period 20s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 8s	88 **27**	W. 14 G. 11	White tower; 36.	G. 106°30′-128°, W.-295°30′.
2012 *C 0204*	**Fornaes.**	56° 26.5′ N 10° 57.5′ E	**Fl.W.** period 20s	105 **32**	**23**	Round granite tower; 89.	Obscured to the N. by Gjerrild Cliff, and the S. by Havknude.
	GRENAO HAVN:						
2020 *C 0209*	-N. mole, head.	56° 24.6′ N 10° 55.5′ E	**Dir.Iso.W.R.G.** period 4s	67 **20**		Gray mast; 61.	G. 212°30′-216°, W.-219°, R.-222°30′.
2024 *C 0210*	-Cross mole, head.	56° 24.8′ N 10° 55.6′ E	**Fl.G.** period 5s	16 **5**		Gray pipe mast.	Visible 270°-180°.
2028 *C 0212*	-Middle mole, head.	56° 24.6′ N 10° 55.7′ E	**F.G.**	17 **5**		Pole.	Visible 129°-069°.
2032 *C 0214*	-S. mole, head.	56° 24.6′ N 10° 55.6′ E	**F.R.**	16 **5**	3	Gray post; 10.	
2034 *C 0214.4*	-Lystbadehavn, N. breakwater, head.	56° 24.2′ N 10° 55.6′ E	**Fl.G.** period 3s	16 **5**	4	White pyramid, green top; 10. Floodlit.	Visible 028°-298°. Shown 24 hours.
2034.1 *C 0214.6*	--S. breakwater, head.	56° 24.2′ N 10° 55.6′ E	**Fl.R.** period 3s	16 **5**	4	White pyramid, red top; 10. Floodlit.	Shown 24 hours.
2035 *C 0216*	Glatved, pier, head.	56° 18.0′ N 10° 52.0′ E	**Fl.G.** period 3s	20 **6**	4	Post on dolphin.	
2036 *C 1478*	**Sjaellands Rev, N.**	56° 06.1′ N 11° 12.2′ E	**Iso.W.R.G.** period 2s	82 **25**	W. **22** R. **17** G. **17**	Round white tower, red band, black base; 85. Floodlit. Helicopter platform.	G. 025°-036°, W.-039°, R.-062°, G.-074°, W.-077°, R.-105°, G.-118°, R.-141°, G.-205°, W.-212°, R.-235°, G.-256°, W.-283°, R.-317°, G.-350°, R.-025°.
	RACON		**N(– •)** period 40s		**20**		Azimuth coverage 020°-280°.
2040 *C 0220*	Lysegrund.	56° 18.2′ N 11° 47.8′ E	**Q.(2)W.** period 5s	33 **10**	5	Beacon, black and red stripes on concrete base; 33.	
2044 *C 0222*	Hesselo.	56° 11.8′ N 11° 42.6′ E	**Fl.W.** period 15s fl. 0.2s, ec. 14.8s	131 **40**	14	White round tower; 79.	

See Index for:
Sjaellands Rev, other lights of Great Belt
Hjaelm, other lights of Little Belt,
Gilleleje Flak and other lights of the Sound

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	ISEFJORD:						
2048	*-Approach Whistle Buoy.*	56° 00.0′ N 11° 51.0′ E	**L.Fl.W.** period 10s			SAFE WATER RW, topmark.	
2052 *C 0226*	**-Spodsbjerg.**	55° 58.7′ N 11° 51.7′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	131 **40**	W. **18** R. 11 G. 11	White square tower; 29.	G. shore-095°, W.-098°, R.-116°, G.-148°, W.-shore. Signal station.
	-Hundested Havn:						
2056 *C 0228*	--Outer harbor, W. mole, head.	55° 58.0′ N 11° 51.0′ E	**F.R.**	19 **6**		Metal lantern; 6.	F.Y. shown in fog.
2060 *C 0230*	---E. mole, head.	55° 57.9′ N 11° 50.6′ E	**F.G.**	14 **4**		Gray pedestal; 6.	
2064 *C 0231*	--Range, front.	55° 58.0′ N 11° 50.7′ E	**Iso.R.** period 2s	16 **5**	4	Mast; 16.	Visible about 067° each side of range line.
2068 *C 0231.1*	---Rear, 017°18′ from front.	55° 58.0′ N 11° 50.7′ E	**Iso.R.** period 4s	10 **3**	4	Framework tower; 19.	Visible about 067° each side of range line.
2072 *C 0238*	-Lynaes Havn, W. mole, head.	55° 57.0′ N 11° 52.0′ E	**F.R.**	16 **5**	2	Red post; 6.	Not shown 0100-0500.
2076 *C 0237*	--W. mole, head.	55° 56.0′ N 11° 52.0′ E	**Oc.(2)W.R.G.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	16 **5**	W. 6 R. 4 G. 4	Red octagonal house; 13.	W. 000°-042°, R.-050°, G.-146°, R.-340°, G.-000°.
2080 *C 0233*	--Ferry Harbor, N. mole, head.	55° 57.0′ N 11° 52.0′ E	**Fl.R.** period 3s fl. 0.8s, ec. 2.2s	5 **2**	4	Pole.	F.Y. shown in fog.
2084 *C 0234*	---S. mole, head.	55° 57.0′ N 11° 52.0′ E	**Fl.G.** period 3s fl. 0.8s, ec. 2.2s	16 **5**	4	Gray lantern on pile; 13.	
2088	-Rorvig, Yacht Harbor, N. mole, head.	55° 56.7′ N 11° 46.2′ E	**F.G.**	15 **5**	3	Green mast; 8.	F.R. light shown on S. mole head.
	-Frederikssund:						
2096 *C 0239.42*	--Range, front.	55° 51.0′ N 12° 03.0′ E	**F.R.**	23 **7**	3	Lattice mast, red and white bands, triangular daymark.	
2100 *C 0239.43*	---Rear, 160°42′ from front.	55° 50.9′ N 12° 02.7′ E	**F.R.**	33 **10**	3	Lattice mast, red and white bands, triangular daymark.	
2104 *C 0239.44*	--North side of bridge leaf Range, front.	55° 51.0′ N 12° 03.0′ E	**Iso.G.** period 2s	13 **4**	3	Red and white banded triangular daymark, point up.	
2108 *C 0239.45*	---Rear, 172°30′ from front.	55° 50.0′ N 12° 02.7′ E	**Iso.G.** period 4s	39 **12**	3	Lattice mast, red and white triangular daymark, point down.	
2116 *C 0239.7*	-Roskilde Havn Range, front, W. mole, head.	55° 39.0′ N 12° 05.0′ E	**F.R.**	24 **7**	4	Lattice mast, triangular white daymark, point up; 36.	
2120 *C 0239.71*	--Rear, 312 meters 165° from front.	55° 39.0′ N 12° 04.8′ E	**F.R.**	36 **11**	4	Lattice mast, triangular white daymark, point down.	
2132 *C 0260.5*	-Nykobing Havn, N. entrance to pleasure craft harbor.	55° 54.8′ N 11° 40.6′ E	**F.G.**	10 **3**	4	Pole.	
2136 *C 0260.6*	--S. entrance to pleasure craft harbor.	55° 54.8′ N 11° 40.5′ E	**F.R.**	10 **3**	4	Pole.	
2138 *C 0260.7*	--S. mole, head.	55° 54.8′ N 11° 40.6′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	15 **5**	4	White structure, red top; 8.	
2140 *C 0242*	-Kyndbyvaerket Havn Range, front.	55° 49.0′ N 11° 53.0′ E	**Iso.R.** period 2s	16 **5**	7	Gray post; 10.	Visible 161°30′-168°30′. **Siren:** 1 bl. ev. 30s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK-KATTEGAT AND BELTS						
2144 *C 0242.1*	--Rear, 1.2 km., 165° from front.	55° 48.1′ N 11° 52.9′ E	**Iso.R.** period 4s	59 **18**	7	Framework mast; 20.	Visible 161°30′-168°30′.
2148 *C 0256*	-Oro Harbor, pier, outer head.	55° 45.0′ N 11° 48.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	11 **3**	4	Red pile, white band; 10.	W. 150°-290°, G.-065°, W.-092°, R.-150°.
2152 *C 0255*	--Range, front.	55° 45.1′ N 11° 48.7′ E	**Iso.R.** period 2s	46 **14**	5	Lattice mast, red and white triangular daymark, point up; 31.	Visible 051°30′-071°30′.
2156 *C 0255.1*	---Rear, 800 meters 061°30′ from front.	55° 45.4′ N 11° 49.4′ E	**Iso.R.** period 4s	85 **26**	5	Lattice mast, red and white triangular daymark, point down; 23.	Visible 051°30′-071°30′.
2164 *C 0257.5*	-Loserup.	55° 47.0′ N 11° 45.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	75 **23**	W. 6 R. 4 G. 4	Red round tower; 8.	G. 180°-207°, W.-216°, R.-234°. Shown Aug. 1 through May 15.
2168 *C 0257*	-Honsehalsen.	55° 46.0′ N 11° 46.0′ E	**Fl.W.R.G.** period 3s fl. 0.2s, ec. 3.8s	16 **5**	W. 6 R. 2 G. 2	Green round tower, white band; 15.	G. 252°-338°30′, W.-343°30′, R.-065°, G.-165°, W.-175°, R.-252°. Shown Aug. 1 thru May 15.
	-Holbaek Havn:						
2172 *C 0253*	--Holbaek Marina, W. mole.	55° 43.5′ N 11° 45.7′ E	**Iso.W.R.G.** period 2s	16 **5**	W. 6 R. 4 G. 4	Green post; 10. Floodlit.	W. 105°-135°, R.-145°, G.-105°. Fl.R. 3s 3M marks E. mole.
2176 *C 0254*	--Horby yacht harbor.	55° 44.0′ N 11° 42.0′ E	**Oc.W.R.G.** period 10s	13 **4**	W. 5 R. 4 G. 4	Pole, red and white striped; 8.	G. 309°30′-327°, W.-027°30′, R.-309°30′.
2180 *C 0248*	--Channel Range, front.	55° 43.4′ N 11° 42.9′ E	**Iso.R.** period 2s	30 **9**	5	Framework tower, red triangular daymark, point up; 29.	Visible 231°30′-251°30′.
2184 *C 0248.1*	---Rear, 520 meters 241°30′ from front.	55° 43.3′ N 11° 42.5′ E	**Iso.R.** period 2s	52 **16**	5	Framework tower, red triangular daymark, point down; 49.	Visible 231°30′-251°30′.
2188 *C 0252*	--Traffic Harbor Range, front.	55° 43.2′ N 11° 42.8′ E	**Iso.G.** period 2s	46 **14**	4	Framework tower on warehouse gable, white triangular daymark, red stripes, point up; 19.	Visible 214°-234°.
2192 *C 0252.1*	--Rear, 108 meters 224°12′ from front.	55° 43.2′ N 11° 42.9′ E	**Iso.G.** period 2s	62 **19**	4	Framework tower, white triangular daymark, red stripes, point down; 59.	Visible 214°-234°. Synchronized with front.
2196 *C 0244*	--Boat harbor, W. mole.	55° 43.3′ N 11° 42.7′ E	**F.W.G.**	13 **4**	3	Framework tower; 11.	W. 315°-045°, G.-315°.
2200 *C 0246*	--Ship harbor entrance.	55° 43.3′ N 11° 42.6′ E	**F.G.**	16 **5**	3	Green round tower, white band on gray base; 13.	
2204 *C 0243*	-Ejby Fishing Harbor.	55° 42.0′ N 11° 50.0′ E	**F.R.**	19 **6**	3	Black post.	
2208 *C 0262*	**Hjelm.**	56° 08.0′ N 10° 48.0′ E	**Iso.W.R.G.** period 8s	200 **61**	W. **18** R. **15** G. **15**	White round tower; 59.	G. 016°30′-043°, W.-051°, R.-068°, G.-088°, W.-091°, R.-110°, W.-016°30′.
	EBELTOFT VIG:						
2212 *C 0782*	-Ferry Harbor Range, front.	56° 09.2′ N 10° 40.1′ E	**Iso.W.** period 2s	33 **10**	9	On building.	Visible 043°12′-075°12′.
2216 *C 0782.1*	--Rear, 256 meters 059°12' from front.	56° 09.3′ N 10° 40.3′ E	**Iso.W.** period 4s	49 **15**	9	Gray lattice mast; 43.	Visible 043°12′-075°12′. Synchronized with front.
2218 *C 0781*	--N. breakwater, head.	56° 09.2′ N 10° 39.8′ E	**Fl.R.** period 3s	16 **5**	5	Gray pedestal; 7.	
2218.1 *C 0780.4*	---S. breakwater, head.	56° 09.2′ N 10° 39.9′ E	**Fl.G.** period 3s	16 **5**	5	Gray pedestal; 7.	

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			DENMARK-KATTEGAT AND BELTS				
2220 *C 0772*	-Bay, head.	56° 14.0′ N 10° 36.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	43 **13**	W. 13 R. 10 G. 10	White wooden structure, red bands; 20.	G. 355°-357°, W.-358°30′, R.-005°, G.-008°, W.-008°30′, R.-010°.
2232 *C 0773.4*	Lyngsbaek Bro, outer head.	56° 14.0′ N 10° 37.0′ E	**Fl.W.** period 3s	30 **9**	6	Pole mast; 26.	
2233 *C O776*	-New entrance Range, front.	56° 11.9′ N 10° 40.2′ E	**F.G.**	18 **5**	5	White mast; 8.	
2233.1 *C 0776.1*	--Rear, 261 meters 091°42′ from front.	56° 11.9′ N 10° 40.5′ E	**F.G.**	51 **16**	5	Steel mast; 39.	
2234 *C 0774*	-Ebeltoft Harbor Range, front.	56° 11.6′ N 10° 40.1′ E	**F.R.**	16 **5**	5	Concrete column, triangular daymark, red and white bands, point up; 7.	Visible 081°24′-126°24′.
2234.1 *C 0774.1*	--Rear, 401 meters 103°54′ from front.	56° 11.6′ N 10° 40.5′ E	**F.R.**	59 **18**	5	Framework mast; 33.	Visible 081°24′-126°24′.
2244 *C 0776.4*	-W. mole, head.	56° 11.8′ N 10° 40.1′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	22 **7**	2	White structure, green band; 13.	
2248 *C 0776.3*	-N. mole, head.	56° 11.8′ N 10° 40.1′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	2	White structure, red band; 13.	
2250 *C 0777*	-Skudehavn.	56° 11.5′ N 10° 40.0′ E	**Fl.R.** period 3s	11 **3**	2	White tower, red band; 7.	Shown Apr. 1 to Nov. 15.
2252 *C 0786*	**Sletterhage.**	56° 05.7′ N 10° 30.8′ E	**Oc.W.R.G.** period 10s lt. 7.5s, ec. 2.5s	56 **17**	W. **16** R. 12 G. 12	White round tower; 52.	R. 251°-275°, G.-297°, W.-302°, R.-320°30′, G.-006°, R.-060°, G.-088°, W.-117°, R.-125°.
2258 *C 0810*	Skodshoved Harbor, S. mole, head.	56° 10.9′ N 10° 22.3′ E	**F.G.**	16 **5**	4	Gray post; 10.	Shown Apr. 1 to Nov. 15.
	KALVO VIG:						
2260 *C 0819*	-Ronsten Grund SE.	56° 15.7′ N 10° 28.7′ E	**Fl.(3)R.** period 10s	7 **2**	2	Dolphin; 7.	Shown Apr. 1 to Nov. 15.
2262 *C 0818*	-Nappedam.	56° 16.6′ N 10° 29.7′ E	**F.R.**	13 **4**	4	White concrete and metal post; 7.	Shown Apr. 1 to Nov. 15.
2264 *C 0814*	-Studstrupvaerkets Havn Range, front.	56° 15.1′ N 10° 20.9′ E	**F.R.**	138 **42**	5	Framework mast, orange triangular daymark, point up; 125.	Visible 234°-014°.
2268 *C 0814.1*	--Rear, 114 meters 304° from front.	56° 15.1′ N 10° 20.7′ E	**F.R.**	161 **49**	5	House, orange triangular daymark, point down; 147.	
2269 *C 0813*	--S. mole, head.	56° 14.6′ N 10° 20.7′ E	**F.R.**	16 **5**	4	White round structure, red conical top; 10.	
2270 *C 0813.2*	--N. mole, head.	56° 14.6′ N 10° 20.6′ E	**F.G.**	16 **5**	4	White round structure, green conical top; 10.	Visible 007°-257°.
2271 *C 0812*	-Ega Marina, S. mole, head.	56° 12.6′ N 10° 17.7′ E	**F.R.**	15 **5**	4	Red pile; 8.	
2271.1 *C 0812.5*	--N. mole, head.	56° 12.6′ N 10° 17.5′ E	**F.G.**	15 **5**	4	Green pile; 8.	
	AARHUS:						
2272 *C 0790*	-Outer Range, front.	56° 09.9′ N 10° 13.7′ E	**Iso.W.** period 2s	85 **26**	14	Gray framework tower; 74.	Visible 291°06′-299°06′. Shown 24 hours.
2276 *C 0790.1*	--Rear, 421 meters 295°06′ from front.	56° 10.0′ N 10° 13.2′ E	**Iso.W.** period 2s	140 **43**	14	Gray framework mast; 161.	Visible 291°06′-299°06′. Shown 24 hours.

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			DENMARK-KATTEGAT AND BELTS				
2278 *C 0802*	-Pier No. "4" Range, front.	56° 09.9′ N 10° 13.8′ E	**F.W.**	62 **19**	6	Gray framework tower; 52.	Marks N. limit of dredged area. F.W. 1M also shown in reduced visibility.
2278.1 *C 0802.1*	--Rear, 98 meters 295°12′ from front.	56° 09.9′ N 10° 13.7′ E	**F.W.**	72 **22**	6	Gray framework tower; 102.	F.W. 1M also shown in reduced visibility.
2280 *C 0792*	-E. mole, head.	56° 09.7′ N 10° 13.9′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	52 **16**	9	Gray round tower, red band; 52.	3 sodium lights are lit when fog signal is operating. **Reserve Horn.** Shown 24 hours. **Siren:** 2 bl. ev. 30s.
2282 *C 0793*	-W. mole, head.	56° 09.7′ N 10° 13.8′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	26 **8**	7	Gray round tower, green band.	Shown 24 hours.
2284 *C 0794*	-E. mole, head.	56° 09.5′ N 10° 13.6′ E	**F.R.**	20 **6**	7	Gray round tower, red band.	Visible 026°-221°. Shown 24 hours.
2286 *C 0796*	-E. harbor Range, front.	56° 08.5′ N 10° 13.2′ E	**Iso.G.** period 2s	61 **19**	6	Framework tower.	Visible 210°-243°. Shown 24 hours. F.W. range lights mark NW. and SE. sides of channel to Basin No. 10.
2286.1 *C 0796.1*	--Rear, 221°30′ from front.	56° 08.4′ N 10° 12.9′ E	**Iso.G.** period 2s	85 **26**	6	Framework tower.	Visible 210°-243°. Shown 24 hours. Synchronized with front.
2288 *C 0794.3*	-Basin No. "10", W. breakwater, head.	56° 09.0′ N 10° 13.7′ E	**Fl.G.** period 5s	20 **6**	6	White tower, green band; 20.	Shown 24 hours.
2289 *C 0795*	--E. breakwater, head.	56° 08.9′ N 10° 13.9′ E	**Fl.R.** period 5s	26 **8**	6	White tower, red band; 26.	Shown 24 hours.
2292 *C 0808*	-Yacht basin, E. mole, head.	56° 10.1′ N 10° 13.4′ E	**F.R.**	23 **7**	5	Red tower; 15. Floodlit.	Shown 24 hours.
2294 *C 0789.5*	Marselisborg.	56° 08.3′ N 10° 13.0′ E	**F.G.**	16 **5**	4	Green mast; 16.	
2296 *C 0821*	Norsminde Marina.	56° 01.5′ N 10° 16.2′ E	**F.G.**	10 **3**	4	Metal pole; 6.	
	TUNO:						
2300 *C 0822*	-E. side of island.	55° 57.0′ N 10° 27.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	102 **31**	W. 12 R. 8 G. 8	White church tower; 59.	G. 133°-157°, W.-160°, R.-175°, G.-214°, W.-220°, R.-326°, G.-345°, W.-350°, R.-045°.
2304 *C 0824*	-S. mole, head.	55° 57.0′ N 10° 27.0′ E	**F.R.**	11 **3**		White lamppost; 7.	Shown when vessels are expected between Sept. 1 and Apr. 1.
2306 *C 0831*	Hov Harbor.	55° 54.7′ N 10° 15.7′ E	**Oc.(2)W.R.G.** period 12s	16 **5**	W. 6 R. 4 G. 4	Metal mast; 13.	W. 199°-206°, R.-217, G.-199°.
2308 *C 0830*	-Elbow of N. mole.	55° 54.6′ N 10° 15.4′ E	**Oc.W.R.G.** period 5s	16 **5**	W. 9 R. 6 G. 6	White tower, red band; 16.	G. 318°-328°, W.-335°, R.-345°.
2316 *C 0833*	-Outer dolphin.	55° 55.0′ N 10° 16.0′ E	**Fl.(3)G.** period 10s	7 **2**	2	Dolphin.	
2320 *C 0833.5*	-Inner dolphin.	55° 55.0′ N 10° 16.0′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	7 **2**	2	Dolphin.	
	SAMSO:						
2328 *C 0837*	-Saelvig Pier, head.	55° 51.9′ N 10° 33.0′ E	**F.G.**	16 **5**	4	Mast; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK-KATTEGAT AND BELTS						
	-Kolby Kaas Havn:						
2332 *C 0838*	--N. mole, head.	55° 48.0′ N 10° 32.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	4	Red metal post.	
2336 *C 0839*	--S. mole, head.	55° 47.8′ N 10° 31.7′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	3	Green metal post.	
2340 *C 0842*	**-Vesborg.**	55° 46.2′ N 10° 33.2′ E	**Oc.(2)W.** period 12s lt. 2s, ec. 2s lt. 6s, ec. 2s	118 **36**	**17**	White round tower; 62.	Visible 275°-149°, and in places to 169°.
2344 *C 0844*	-Lushage, SE. point of Samso.	55° 45.9′ N 10° 37.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	6	Gray framework tower; 20.	Visible 204°-095°.
	-Ballen Havn:						
2348 *C 0850*	--N. mole, head.	55° 49.0′ N 10° 39.0′ E	**F.G.**	20 **6**	2	Gray post.	Visible 211°-336°.
2352 *C 0848*	--S. mole, head.	55° 49.0′ N 10° 38.6′ E	**F.R.**	20 **6**	4	Gray post.	Visible 167°-289°.
	ENDELAVE HAVN:						
2364 *C 0854*	-E. mole, head.	55° 46.0′ N 10° 16.0′ E	**F.R.**	20 **6**	5	Post; 16	Visible 045°-270°.
2368 *C 0856*	-Range, front.	55° 45.6′ N 10° 15.8′ E	**F.R.**	23 **7**	4	Wooden mast.	Visible 095°-235°.
2372 *C 0856.1*	--Rear, 110 meters 165° from front.	55° 45.4′ N 10° 15.9′ E	**F.R.**	42 **13**	4	Metal framework mast.	Visible 095°-235°.
	HORSENS FJORD:						
2376 *C 0860*	-Hjarno Range, front.	55° 50.0′ N 10° 04.0′ E	**F.G.**	19 **6**	10	White wooden house; 13.	Visible 334°30′-342°30′.
2380 *C 0860.1*	--Rear, 703 meters 338°30′ from front.	55° 49.8′ N 10° 03.7′ E	**F.G.**	59 **18**	12	Gray lattice mast, orange bands; 59.	Visible 334°30′-342°30′.
2384 *C 0866*	-Haldrup Range, front.	55° 53.0′ N 9° 58.0′ E	**F.R.**	26 **8**	8	White house, orange band; 26.	Visible 316°-324°.
2388 *C 0866.1*	--Rear, 600 meters 320° from front.	55° 53.1′ N 9° 58.1′ E	**F.R.**	60 **18**	8	White house, red band; 33.	Visible 316°-324°.
2392 *C 0870*	Sejet Range, front.	55° 50.0′ N 9° 57.0′ E	**F.G.**	10 **3**	5	White house; 11.	Visible 228°-248°.
2396 *C 0870.1*	--Rear, 410 meters 238°12′ from front.	55° 49.9′ N 9° 56.8′ E	**F.G.**	33 **10**	5	White house; 16.	Visible 228°-248°.
	-Horsens:						
2400 *C 0876*	--S. side of harbor Range, front.	55° 52.0′ N 9° 52.0′ E	**F.R.**	41 **12**	10	White building.	Visible 191°-011°.
2404 *C 0876.1*	---Rear, 690 meters 281° from front.	55° 51.6′ N 9° 51.0′ E	**F.R.**	71 **22**	10	Brown framework mast orange triangular daymark; 85.	Visible 191°-011°.
2406 *C 0877*	--Yacht harbor.	55° 51.4′ N 9° 52.7′ E	**F.G.**	10 **3**	2	Green post; 5.	Shown April 1 through November 15.

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	HORSENS HAVN:						
2408 *C 0880*	-N. mole, head.	55° 51.0′ N 9° 52.0′ E	**Fl.G.** period 3s fl. 0.8s, ec. 2.2s	15 **5**	4	Green post on white hut; 11.	
2412 *C 0882*	-S. mole, head.	55° 51.0′ N 9° 52.0′ E	**Fl.R.** period 3s fl. 0.8s, ec. 2.2s	15 **5**	4	Red post on white hut; 11.	
2416 *C 0884*	Juelsminde Havn.	55° 43.0′ N 10° 01.0′ E	**Fl.R.** period 5s	18 **5**	4	Red metal mast.	
2420 *C 0885*	Sandbjerg Vig.	55° 43.2′ N 10° 00.5′ E	**Fl.R.** period 3s	13 **4**	2	Tripod.	
2432 *C 0892*	Aebelo.	55° 38.8′ N 10° 09.8′ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 14.7s	66 **20**	14	Round granite tower; 60.	Visible 016°-263°.
2436 *C 0888*	Korshavn.	55° 36.3′ N 10° 36.5′ E	**Oc.W.R.G.** period 5s	13 **4**	W. 7 R. 3 G. 3	White tower, red band; 10.	R. 259°-292°, G.-053°, W.-058°, R.-078°.
2440 *C 0890*	Enebaerodde, W. side of Odense Fjord, at Hals.	55° 31.0′ N 10° 34.0′ E	**L.Fl.W.R.G.** period 5s fl. 2s, ec. 3s	43 **13**	W. 11 R. 8 G. 8	White tower; 46.	G. 142°-164°, W.-173°30′, R.-028°, G.-082°.
2444 *C 0890.4*	Skoven.	55° 32.0′ N 10° 35.0′ E	**Oc.(2)W.R.G.** period 6s	66 **20**	W. 5 R. 3 G. 3	Framework tower; 23.	G. 134°-144°, W.-154°, R.-164°. Shown 24 hours.
	BOGENSE HAVN:						
2448 *C 0904*	-E. mole, head.	55° 34.0′ N 10° 05.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	19 **6**	W. 4 R. 2 G. 2	White tower; 10.	G. 160°30′-194°, W.-198°, R.-160°30′. **Siren:** 1 bl. ev. 30s.
2452 *C 0908*	-Entrance Range, front.	55° 34.0′ N 10° 05.1′ E	**F.R.**	7 **2**	2	Post, white triangular daymark, point up; 7.	
2456 *C 0908.1*	- -Rear, 130 meters 164°30′ from front.	55° 34.0′ N 10° 05.1′ E	**F.R.**	33 **10**	2	Warehouse, white triangular daymark, point down.	
	VEJLE FJORD:						
2460 *C 0894*	-Trelde Naes, S. side of entrance to fjord.	55° 38.0′ N 9° 52.0′ E	**Iso.W.R.G.** period 2s	85 **26**	W. 8 R. 5 G. 5	Metal framework tower; 69.	G. shore-124°, W.-129°, R.-139°, W.-235°, R.-258°, G.-277°, W.-010°.
2464 *C 0900*	-Vejle Havn Range, front.	55° 42.4′ N 9° 33.0′ E	**Iso.R.** period 2s	59 **18**	5	Gray framework mast, orange triangular daymark, point up; 62.	Visible 273°-303°.
2468 *C 0900.1*	- -Rear, 340 meters 288° from front.	55° 42.5′ N 9° 32.6′ E	**Iso.R.** period 4s	82 **25**	5	Gray framework mast, orange triangular daymark, point down; 92.	Visible 273°-303°.
2472 *C 0922*	**Strib.**	55° 33.0′ N 9° 46.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	69 **21**	W. **15** R. 12 G. 12	White square tower; 69.	G. 351°-007°30′, W.-013°30′, R.-135°, G.-232°, W.-238°, R.-shore.
	FREDERICIA HAVN:						
2480 *C 0912*	-Skanseodde E.	55° 33.3′ N 9° 46.5′ E	**Fl.(2)R.G.** period 5s fl. 0.8s, ec. 0.7s fl. 0.8s, ec. 2.7s	33 **10**	5	Green pipe; 39.	R. 073°-223°, G.-073°.
	-RACON		**T(–)** period 120s		10		
2484 *C 0911*	-Shell Oil Pier.	55° 33.0′ N 9° 46.0′ E	**F.G.**	16 **5**	4	Dolphin.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT AND BELTS				
2486	-Floating drydock, SE. corner.	55° 33.5′ N 9° 45.2′ E	**V.Q.(6)+L.Fl.W.** period 10s	41 **12**	4	Mast; 3.	
2488 *C 0917*	-Fiskerihavn.	55° 34.0′ N 9° 45.0′ E	**F.G.**	16 **5**	2	Gray lattice mast; 59.	
2492 *C 0918*	-E. mole, head.	55° 33.0′ N 9° 45.0′ E	**Fl.G.** period 3s	14 **4**	5	Green mast; 8.	
2496 *C 0919*	-W. mole, head.	55° 34.0′ N 9° 45.0′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	14 **4**	4	Red mast; 8.	
2500 *C 0920*	-Yacht Harbor.	55° 33.0′ N 9° 44.0′ E	**F.R.**	13 **4**	2	Red post; 8.	
2504 *C 0920.2*	-Erritso.	55° 33.3′ N 9° 43.9′ E	**F.G.**	16 **5**	2	Green post; 7.	Visible 323°-210°.
2508 *C 0924*	-Stavrby Skov.	55° 31.0′ N 9° 46.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	31 **9**	W. 12 R. 8 G. 8	White house, red band; 8.	G. 050°-068°, W.-079°, R.-090°.
2512 *C 0919.4*	-Range, front.	55° 34.0′ N 9° 44.0′ E	**F.R.**	16 **5**	5	Pillar; 20.	Visible 285°-325°.
2516 *C 0919.41*	- -Rear, 120 meters 305° from front.	55° 33.5′ N 9° 44.1′ E	**F.R.**	49 **15**	5	Gray mast; 43.	Visible 285°-325°.
2520 *C 0925*	E. Lillebaeltsbro.	55° 31.0′ N 9° 45.0′ E	**Iso.W.** period 4s			On columns.	Iso.W. shown from each side of bridge at middle of center span. **Nautophone:** (on N. and S. side of center span) 2 bl. ev. 40s.
			Fl.R. period 3s				Fl. light at each corner of three passages, arranged to
			Fl.G. period 3s				show R. to port and G. to starboard of approaching vessels; N. passage lighted for eastbound traffic, middle passage for traffic in either direction.
2524 *C 0923*	Lyngs Odde.	55° 32.0′ N 9° 45.0′ E	**Fl.G.** period 3s	16 **5**	4	Latticework structure; 6.	Shown on NE. and SE. extremities of pier.
	MIDDELFART:						
2528 *C 0928*	-W. inner mole.	55° 30.0′ N 9° 44.0′ E	**F.G.**	16 **5**	3	Green mast; 9.	
2536 *C 0932*	W. Lillebaeltsbro.	55° 31.0′ N 9° 43.0′ E	**F.W., F.R., F.G.**	16 **5**		On piers.	F.W. shown from each side of bridge at middle of center span. Fixed light at each corner of three passages, so arranged as to show R. to port and G. to starboard of approaching vessels. N. passage lighted for westbound traffic, S. passage for eastbound traffic and middle passage for traffic in either direction. **Horn:** (Pier III) 1 bl. ev. 60s. **Horn:** (Pier II) 2 bl. ev. 60s.
	BORUP:						
2540 *C 0936*	-Snoghoj.	55° 32.0′ N 9° 42.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	20 **6**	W. 14 R. 9 G. 9	White hut, red band; 26.	G. 056°-063°, W.-067°, R.-074°.
2544 *C 0934*	-N.	55° 32.0′ N 9° 41.0′ E	**Iso.W.R.G.** period 4s	31 **9**	W. 14 R. 9 G. 9	White structure, red band, white dwelling attached.	G. 012°-027°, W.-036°, R.-042°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT AND BELTS				
2548 *C 0938*	-W.	55° 31.7′ N 9° 40.4′ E	**Dir.Iso.W.R.G.** period 2s	16 **5**	W. 14 R. 9 G. 9	White house, red band; 23.	G. 290°-293°30′, W.-295°, R.-302°. Shows direction 294°42′ between piers III and IV of Little Belt bridge.
2552 *C 0944*	Damgaard.	55° 32.0′ N 9° 40.0′ E	**Dir.Oc.W.R.G.** period 5s lt. 4s, ec. 1s	23 **7**	W. 14 R. 9 G. 9	White house, red band; 23.	G. 290°-293°30′, W.-295°, R.-311°. Shows direction 294°12′ between piers II and III of Little Belt bridge.
2556 *C 0950*	Skjaerbaek Fiskerihavn.	55° 31.0′ N 9° 38.0′ E	**F.G.**	14 **4**		Post.	
2560 *C 0948*	Skjaerbaek.	55° 30.8′ N 9° 37.2′ E	**Oc.(2)W.R.G.** period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	39 **12**	W. 14 R. 10 G. 10	Lantern on roof of building.	G. (unintensified) 035°30′-042°30′, W. (unintensified)-044°, R. (unintensified)-049°, G. 309°30′-313°, W.-316°, R.-321°.
2564 *C 0949*	-Range, front.	55° 31.0′ N 9° 37.0′ E	**F.R.**	30 **9**	4	Mast, orange triangular daymark, point up, on corner of building.	Visible 249°18′-059°18′. Shown on request.
2568 *C 0949.1*	--Rear, 86 meters 329°18′ from front.	55° 30.7′ N 9° 37.1′ E	**F.R.**	43 **13**	4	White structure, orange triangular daymark, point down; 40.	Visible 249°18′-059°18′. Shown on request.
2572 *C 0956*	Drejensodde, S. side of point.	55° 30.0′ N 9° 35.0′ E	**Oc.W.R.G.** period 5s	14 **4**	W. 8 R. 4 G. 2	Green wooden house; 13.	G. 243°-252°30′, W.-255°, R.-260°30′, G.-276°.
	KOLDING HAVN:						
2576 *C 0958*	-Range, front.	55° 30.0′ N 9° 30.0′ E	**F.R.**	29 **9**	13	Gray framework mast.	Shown 24 hours.
2580 *C 0958.1*	--Rear, 514 meters 267° from front.	55° 29.6′ N 9° 29.1′ E	**F.R.**	49 **15**	13	Gray framework mast.	Shown 24 hours.
2584 *C 0960*	-N. mole, head.	55° 29.6′ N 9° 30.2′ E	**Fl.G.** period 3s	19 **6**	2	Green pyramidal cabinet; 13.	
2588 *C 0959*	-S. mole, head.	55° 29.5′ N 9° 30.1′ E	**Fl.R.** period 3s	16 **5**	2	Red pyramidal cabinet; 13.	
2592 *C 0964*	Middlefart Yacht Harbor, jetty, head.	55° 30.0′ N 9° 44.0′ E	**F.G.**	15 **5**	4	Metal post.	
2596 *C 0962*	Faeno.	55° 28.5′ N 9° 42.3′ E	**L.Fl.W.R.G.** period 5s fl. 1s, ec. 4s	36 **11**	W. 11 R. 8 G. 8	Gable of white house; 26.	G. 338°-342°, W.-346°, R.-350°.
2600 *C 0972*	Baago.	55° 17.8′ N 9° 48.0′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	39 **12**	W. 11 R. 7 G. 7	White square tower; 26.	W. 081°-086°30′, R.-145°, G.-158°, W.-166°, R.-179°, G.-265°, R.-288°, G.-313°30′, W.-320°30′, R.-357°30′, G.-081°. Obscured by Baago 195°-201°.
2604 *C 0967*	**Tvingsbjerg.**	55° 19.0′ N 9° 54.0′ E	**Oc.W.R.G.** period 5s lt. 3s, ec. 2s	39 **12**	W. **15** R. 11 G. 11	White house; 26.	G. 117°-121°, W.-125°, R.-129°.
2608 *C 0968*	-SW. Range, front.	55° 18.7′ N 9° 53.6′ E	**Iso.W.R.G** period 2s	39 **12**	W. 12 R. 8 G. 8	Same structure as Tvingsberg N.	G. 036°-041°, W.-043°, R.-048°.
2612 *C 0968.1*	-NE. rear, 2.2 km. 042° from front.	55° 20.0′ N 9° 55.0′ E	**Iso.W.** period 4s	92 **28**	14	White tower, red bands; 33.	Visible 036°-048°.
	ASSENS:						
2616 *C 0977*	-Breakwater.	55° 16.0′ N 9° 53.0′ E	**Oc.W.R.G.** period 10s lt. 8s, ec. 2s	16 **5**	W. 14 R. 11 G. 11	White tower, red band; 13.	G. 155°-163°, W.-173°, R.-180°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT AND BELTS				
2620 *C 0970*	Arosund, S. harbor mole.	55° 16.0′ N 9° 43.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	30 **9**	W. 10 R. 8 G. 8	White round metal tower; 33.	G. 126°-171°, R.-194°, G.-205°, W.-211°, R.-220°, G.-330°, W.-335°, R.-337°.
2624 *C 0970.4*	-E. ferry mole, N. head.	55° 15.7′ N 9° 42.9′ E	**F.R.**	13 **4**	3	Gray metal pole; 10.	
2628 *C 0969*	Aaro Island.	55° 16.0′ N 9° 44.0′ E	**Iso.W.R.G.** period 2s	39 **12**	W. 8 R. 5 G. 5	White round metal tower, red band; 42.	R. 306°-322°, G.-353°, W.-001°, R.-151°, G.-178°, obsc.-180°30′, G.-184°, W.-187°, R.-193°. Partially obscured 178°-193°.
2632 *C 0970.6*	Aaro Havn, S. mole, head.	55° 16.0′ N 9° 44.0′ E	**F.G.**	13 **4**	4	Gray post; 10.	
2636 *C 0988*	**Helnaes.**	55° 08.0′ N 9° 58.7′ E	**Fl.W.R.G.** period 5s fl. 1s, ec. 4s	98 **30**	W. **16** R. 12 G. 12	White square tower; 92.	R. 302°-321°, G.-330°, W.-343°, R.-030°, G.-075°, W.-125°, R.-141°, G.-179°.
2640 *C 0989.6*	Bojden Ferry Harbor, N. mole, head.	55° 06.0′ N 10° 05.0′ E	**Fl.R.** period 3s	23 **7**		Gray framework mast; 16.	
2644 *C 0989.4*	-S. mole, head.	55° 06.4′ N 10° 04.8′ E	**Fl.G.** period 3s	23 **7**		Gray framework mast; 16.	Sounded during poor visibility when ferry is expected. **Siren:** 1 bl. ev. 20s.
2648 *C 0988.4*	Faldsled Havn.	55° 09.0′ N 10° 09.0′ E	**F.G.**	14 **4**	4	Green pile; 13.	
2652 *C 1030*	**Nordborg.**	55° 04.7′ N 9° 42.7′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	88 **27**	W. **16** R. 11 G. 11	Yellow metal tower; 66.	G. 065°-070°, W.-073°, R.-171°, G.-184°30′, W.-236°, R.-259°.
	ABENERA HAVN:						
2656 *C 1048*	**-Sonderstrand.**	55° 02.0′ N 9° 25.0′ E	**Oc.W.R.G.** period 5s lt. 3s, ec. 2s	14 **4**	W. **15** R. 12 G. 12	Orange wooden structure.	G. 252°-255°, W.-257°, R.-260°.
2660 *C 1050*	-Sydhavn Range, front.	55° 02.0′ N 9° 26.0′ E	**Iso.G.** period 2s	49 **15**	5	Gray framework tower; 46.	
2664 *C 1050.1*	--Rear, 160 meters 320°12′ from front.	55° 02.4′ N 9° 25.7′ E	**Iso.G.** period 4s	69 **21**	5	Gray framework tower; 66.	
2668 *C 1052*	-N. of Nyhavn Range, front.	55° 03.0′ N 9° 26.0′ E	**Iso.R.** period 2s	36 **11**	5	Gray lattice mast; 26.	
2672 *C 1052.1*	--Rear, 235 meters 350°18′ from front.	55° 03.0′ N 9° 25.7′ E	**Iso.R.** period 4s	62 **19**	5	Gray lattice mast; 59.	
2676 *C 1055*	-Oil pier Range, front.	55° 03.0′ N 9° 26.0′ E	**F.W.**	13 **4**	6	Fluorescent tube, white pole, white cross daymark.	Marks east limit of dredged area.
2680 *C 1055.1*	--Rear, 50 meters 027° from front.	55° 02.6′ N 9° 26.0′ E	**F.W.**	23 **7**	6	Fluorescent tube, white pole, white cross daymark.	
2684 *C 1065*	--E. side of pier.	55° 02.0′ N 9° 27.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	19 **6**	3	Mast on mooring dolphin; 10.	
2688 *C 1067.4*	Als Fjord, cable Range, front.	55° 00.0′ N 9° 39.0′ E	**F.R.**	19 **6**	2	Framework mast, red disk daymark, white border; 16.	Visible 230°-240°.
2692 *C 1067.5*	--Rear, 235° from front.	55° 00.3′ N 9° 38.9′ E	**F.R.W.** (vert.)	36 **11** 30 **9**	2	Framework mast, red disk daymark, white border, over white diamond, red border; 29.	Visible 230°-240°.
2696 *C 1067*	Als Fjord Range, front.	55° 00.0′ N 9° 39.0′ E	**F.R.**			White beacon, red disk daymark, white border.	
2700 *C 1067.1*	-Rear, 27 meters 235° from front.	55° 00.3′ N 9° 39.2′ E	**F.R.W.** (vert.)			White beacon, red disk with white border over red diamond with white border.	Visible 230°-240°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT AND BELTS				
2704 *C 1066*	Ballebro.	55° 00.0′ N 9° 40.0′ E	**Iso.W.R.G.** period 2s	36 **11**	W. 10 R. 7 G. 7	White round tower, red band; 20.	G. 128°-140°, W.-152°, R.-253°, G.-262°30′, W.-274°, R.-283°.
2708 *C 1122*	Sottrupskov.	54° 58.0′ N 9° 45.0′ E	**Iso.W.R.G.** period 4s	30 **9**	W. 6 R. 3 G. 3	White hut, red band; 7.	G. 151°-192°30′, W.-201°, R.-238°.
2712 *C 1032*	Tranerodde.	55° 03.0′ N 9° 51.0′ E	**Iso.W.R.G.** period 2s	39 **12**	W. 13 R. 10 G. 10	White round metal tower, red band; 33.	R. 131°-191°, G.-280°, W.-290°, R.-301°.
2716 *C 1034*	**Taksensand.**	55° 00.0′ N 9° 58.0′ E	**Oc.(2)W.R.G.** period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	49 **15**	W. **15** R. 11 G. 11	White tower; 62.	G. 127°-135°, W.-139°, R.-174°, G.-186°, W.-323°.
2720 *C 1035.4*	Fynshavn Ferry Harbor, S. mole, head.	55° 00.0′ N 9° 59.0′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	5	Gray framework mast; 16.	Sounded during poor visibility when ferries are expected. **Siren:** 2 bl. ev. 30s.
2724 *C 1035.8*	-N. mole, head.	55° 00.0′ N 9° 59.0′ E	**Fl.G.** period 5s	23 **7**	5	Gray framework mast; 16.	
2728 *C 1037*	Fynshavn Cable Range, front.	55° 00.0′ N 9° 59.0′ E	**F.R.**	26 **8**	5	Tripod, white disk daymark; 13.	Visible 152°30′-272°30′.
2732 *C 1037.1*	-Rear, 212°30′ from front.	54° 59.5′ N 9° 58.5′ E	**F.R.W.** (vert.)	47 **14**	5	Mast, white disk over white diamond daymark; 33.	Visible 152°30′-272°30′.
2736 *C 0989.8*	Hornenaes Cable Range, front.	55° 05.0′ N 10° 05.0′ E	**F.R.**	49 **15**	5	Mast, white disk daymark; 19.	Visible 334°36′-094°36′.
2740 *C 0989.81*	-Rear, 034° from front.	55° 04.7′ N 10° 04.9′ E	**F.R.W.** (vert.)	72 **22**	5	Framework mast, white disk over diamond daymark; 31.	Visible 334°36′-094°36′.
2744 *C 0990*	Lyo, Rev.	55° 04.0′ N 10° 09.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	13 **4**	4	Black mast; 13.	
2748 *C 0991*	Bjorno.	55° 03.0′ N 10° 16.0′ E	**Iso.W.R.G.** period 4s	20 **6**	W. 10 R. 7 G. 7	White building, red band; 11.	G. 040°-052°, W.-060°, R.-071°.
	FAABORG FJORD:						
2752 *C 0992*	**-Sisserodde.**	55° 04.6′ N 10° 13.6′ E	**Dir.Iso.W.R.G.** period 2s	26 **8**	W. **16** R. 14 G. 14	White hut, red band; 16.	G. 350°42′-352°12′, W.-354°12′, R.-355°42′.
2760 *C 0994*	-Dyreborg Havn.	55° 04.0′ N 10° 13.0′ E	**F.G.**	19 **6**	2	Mast; 13.	
2764 *C 0998*	-Osterhede Range, front.	55° 05.0′ N 10° 16.0′ E	**F.G.**	42 **13**	4	White hut, red bands, red triangular daymark, point up; 36.	Visible 043°30′-049°30′. Shown 24 hours.
2768 *C 0998.1*	--Rear, 212 meters 047° from front.	55° 05.2′ N 10° 15.7′ E	**F.G.**	59 **18**	4	White hut, red bands, red triangular daymark, point down; 36.	Visible 043°30′-049°30′. Shown 24 hours.
	-Faaborg Havn:						
2776 *C 1004*	--E. mole Range, front.	55° 06.0′ N 10° 14.0′ E	**F.R.**	20 **6**	4	Gray post, red triangular daymark, point up; 13.	Visible 260°-002°. Fl.G. 3s 4M shown from head of pier 75 meters SSW.
2780 *C 1004.1*	---Munkholm, rear, 189 meters 336°30′ from front.	55° 05.7′ N 10° 14.2′ E	**F.R.**	36 **11**	4	Framework, red triangular daymark, point down; 43.	Visible 224°-089°.
	AVERNAKO:						
2784 *C 1020*	-Nakkeodde, E. head.	55° 01.0′ N 10° 19.9′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	30 **9**	W. 11 R. 8 G. 8	White hut, red band; 10.	G. 115°12′-123°, W.-130°, R.-143°.

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			DENMARK-KATTEGAT AND BELTS				
2788 *C 1016*	-Munke, E. side of Avernako.	55° 01.0′ N 10° 16.0′ E	**Iso.W.R.G.** period 4s	33 **10**	W. 14 R. 10 G. 10	White house, red band; 13.	G. 259°-264°, W.-268°, R.-273°.
	AERO:						
2792 *C 1070*	**-Skjoldnaes.**	54° 58.2′ N 10° 12.3′ E	**L.Fl.W.** period 30s fl. 4s, ec. 26s	106 **32**	**20**	Round granite tower; 72.	
2796 *C 1068*	Vitso Range, front.	54° 55.0′ N 10° 15.0′ E	**F.R.**	12 **4**		Mast, round white disk daymark, red center; 16.	Marks cable.
2800 *C 1068.1*	-Rear, 220 meters 077° from front.	54° 55.4′ N 10° 14.8′ E	**F.R.W.** (vert.)	25 **8**		White disk, red center above white diamond daymark, red border.	
2804 *C 1074*	-Soby Havn.	54° 57.0′ N 10° 16.0′ E	**Iso.W.R.** period 2s	20 **6**	W. 7 R. 5	White tower; 19.	W. 151°-255°, R.-151°. F.G. 4M marks W. mole. **Siren:** 2 bl. ev. 60s.
2808 *C 1078*	-Aeroskobing Havn, E. mole, head.	54° 53.6′ N 10° 24.9′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	13 **4**	3	Red post. Floodlit.	Shown 24 hours Apr. 1 thru Nov. 15. Fl.G. 3s shown on S. part of mole.
2812 *C 1076*	-W. mole, head.	54° 54.0′ N 10° 25.0′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	13 **4**	4	White and green mast, red triangular daymark, point up; 24.	
	-Range, front.		**F.G.**	38 **12**	5	Floodlit.	Visible 076°18′-316°18′.
2816 *C 1076.1*	- -Rear, about 145 meters 196° from front.	54° 53.4′ N 10° 24.8′ E	**F.G.**	49 **15**	5	White framework mast, red triangular daymark, point down; 44.	Visible 076°18′-316°18′.
2818 *C 1077*	-Dejro.	54° 54.0′ N 10° 25.2′ E	**Fl.(2)R.** period 5s	8 **2**	2	Red dolphin.	
	-Marstal Havn:						
2820 *C 1086*	- -N. Range, about 1.4 km., 331° from church, front.	54° 52.0′ N 10° 31.0′ E	**F.R.**	15 **5**	5	Pole, red triangular daymark, point up; 16.	Visible 184°48′-324°48′.
2824 *C 1086.1*	- - -Rear, 125 meters 254°48′ from front.	54° 52.0′ N 10° 30.4′ E	**F.R.**	36 **11**	5	Pole, red triangular daymark, point down; 20.	Visible 184°48′-324°48′.
2825 *C 1087*	- -S. channel Range, front.	54° 51.5′ N 10° 31.6′ E	**Iso.W.** period 2s	21 **6**	7	Gray framework mast on white base.	Visible 303°24′-335°24′.
2825.1 *C 1087.1*	- - -Rear, 279 meters 319°24′ from front.	54° 51.6′ N 10° 31.5′ E	**Iso.W.** period 4s	33 **10**	7	Gray framework mast on white base.	Visible 303°24′-335°24′.
2826 *C 1087.8*	- -	54° 51.5′ N 10° 31.4′ E	**Dir. Oc.W.R.G.** period 5s lt. 4s, ec. 1s	20 **6**	W. 7 R. 5 G. 5	Gray mast; 15.	G. 281°24′-286°24′, W.-290°24′, R.-294°24′, G.-301°24′.
2828 *C 1088*	- -S. Range, front.	54° 51.0′ N 10° 31.0′ E	**F.G.**	26 **8**	2	Gray framework structure, red triangular daymark, point up; 20.	
2832 *C 1088.1*	- - -Rear, 238 meters 178°42′ from front.	54° 51.3′ N 10° 31.4′ E	**F.G.**	42 **13**	2	Gray framework structure, red triangular daymark, point down; 36.	
2833 *C 1084*	Aeros Hale cable Range, front.	54° 50.7′ N 10° 31.0′ E	**F.R.**	16 **5**	5	Lattice mast, red and white daymark.	Visible 219°48′-359°48′. Shown 24 hours.
2833.1 *C 1084.1*	-Rear, 350 meters 288° from front.	54° 50.6′ N 10° 30.6′ E	**F.R.W.** (vert.)	43 **13** 30 **9**	W. 6 R. 5	Lattice mast, red and white diamond daymark; 33.	Visible 219°48′-359°48′. Shown 24 hours.
2834 *C 1084.3*	Ristinge south cable Range, front.	54° 49.8′ N 10° 36.4′ E	**F.R.**	59 **18**	5	Double mast, red and white daymark; 16.	Visible 032°12′-172°12′. Shown 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-KATTEGAT AND BELTS				
2834.1 *C 1084.31*	-Rear, 102°12′ from front.	54° 49.7′ N 10° 36.5′ E	**F.R.W.** (vert.)	89 **27** 75 **23**	W. 6 R. 5	Double mast, red and white diamond daymark; 30.	Visible 032°12′-172°12′. Shown 24 hours.
2836 *C 1082*	-Vejsnaes Nakke.	54° 49.0′ N 10° 26.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	79 **24**	W. 7 R. 4 G. 4	White mast, red band; 29.	G. 210°-252°, W.-337°, R.-352°, G.-007°, W.-210°.
2840 *C 1704*	Stryno Range, front.	54° 54.0′ N 10° 37.0′ E	**F.R.**	19 **6**	8	Mast, white disk daymark; 23.	Visible 274°-310°.
2844 *C 1704.1*	-Rear, 270 meters 292° from front.	54° 53.6′ N 10° 36.7′ E	**F.R.W.** (vert.)	33 **10** 26 **8**	8	Tower, white disk over diamond daymark..	Visible 274°-310°.
2848 *C 1703*	-Pier, head.	54° 54.0′ N 10° 38.0′ E	**F.W.R.G.**	16 **5**	W. 7 R. 4 G. 4	Roof of red warehouse.	G. 016°-246°, W.-355°, R.-016°.
	MOMMARK (MUMMARK):						
2852 *C 1042*	-E. mole, head.	54° 56.0′ N 10° 03.0′ E	**F.R.**	11 **3**	5	Gray post; 7. Floodlit.	
2856 *C 1046*	-Outer mole, head.	54° 56.1′ N 10° 02.9′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	15 **5**	5	Gray post; 10.	
2864 *C 1098*	Hummelvig Range, front.	54° 53.9′ N 10° 03.5′ E	**F.R.**	16 **5**		White beacon, red disc dayamrk, white border; 20.	
2868 *C 1098.1*	-Rear, 50 meters 256° from front.	54° 53.9′ N 10° 03.5′ E	**F.R.W.** (vert.)	30 **9**		White beacon, round over diamond, red and white daymarks; 33.	
2872 *C 1100*	Gammel-Pol.	54° 53.0′ N 10° 04.0′ E	**Oc.(3)W.R.G.** period 15s lt. 7s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s	65 **20**	W. 14 R. 10 G. 10	White tower, red band; 36.	W. 166°30′-320°, R.-008°, G.-036°30′, W.-049°, R.-166°30°.
	FLENSBORG FJORD:						
2876 *C 1104*	-Kegnaes (Kekenis), S. point of Alsen.	54° 51.0′ N 9° 59.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	105 **32**	W. 14 R. 10 G. 10	Yellow round tower; 60.	R. 217°-266°30′, G.-273°, W.-289°30′, R.-337°, G.-026°, W.-044°, R.-050°30′, G.-075°, W.-080°, R.-102°30′.
2880 *C 1115.5*	Sonderborg.	54° 54.0′ N 9° 48.0′ E	**F.G.**	15 **5**	4	Pole; 6.	
2888 *C 1116.4*	-Near Castle.	54° 54.5′ N 9° 47.0′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	16 **5**	5	Framework mast on green pile; 7.	Visible 284°-258°. **Radar reflector.**
2892 *C 1117*	-W. side of channel.	54° 54.5′ N 9° 46.9′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	16 **5**	5	Red pole; 6.	Visible 114°-342°. **Radar reflector.**
2893 *C 1115.4*	Horuphav Havn.	54° 54.4′ N 9° 53.4′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	7 **2**	4	White post.	
			DENMARK AND GERMANY-FLENSBORG FJORD				
2900 *C 1113*	**Kalkgrund** (G.).	54° 49.5′ N 9° 53.4′ E	**Iso.W.R.G.** period 8s	72 **22**	W. 14 R. 13 G. 12	Red round tower, two white bands, three galleries; 79. Floodlit.	W. 012°-062°, R.-084°, W.-100°, R.-120°, W.-131°30′, G.-157°, W.-164°, R.-190°, W.-252°36′, G.-258°, W.-265°, R.-292°, W.-308°, R.-012°. **Horn:** Mo.(FS) ev. 30s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK AND GERMANY-FLENSBORG FJORD						
	RACON		**T(–)** period 72s		8		
2912 *C 1115*	-Mole Range, front (G).	54° 45.2′ N 9° 51.8′ E	**Iso.W.** period 4s	43 **13**	7	Framework tower, white triangular daymark, red border, point up; 33.	Occasional.
2916 *C 1115.1*	--Rear, 40 meters 208° from front.	54° 45.2′ N 9° 51.8′ E	**Iso.W.** period 4s	52 **16**	7	Framework tower, white triangular daymark, red border, point down; 43.	Synchronized with front. Occasional.
2918 *C 1115.3*	--Yacht Harbor Range, front.	54° 45.3′ N 9° 51.9′ E	**Iso.G.** period 4s	13 **4**	6	White mast, white triangular daymark, red border, point up; 7.	Intensified on range line.
2918.1 *C 1115.31*	---Rear, 70 meters 178°42′ from front.	54° 45.3′ N 9° 51.9′ E	**Iso.G.** period 4s	20 **6**	6	White mast, white and red triangular daymark, point down; 15.	
2920 *C 1126*	Langballigau (G.) Range, front.	54° 49.0′ N 9° 39.0′ E	**Oc.(2)W.** period 9s lt. 2s, ec. 1s lt. 5s, ec. 1s	20 **6**	8	Gray mast; 14.	
2924 *C 1126.1*	-Rear, 50 meters 177° from front.	54° 49.3′ N 9° 39.3′ E	**Oc.(2)W.** period 9s lt. 2s, ec. 1s lt. 5s, ec. 1s	33 **10**	8	Gray mast; 33.	Synchronized.
2928 *C 1134*	Holnis (G.).	54° 51.7′ N 9° 34.5′ E	**Iso.W.R.G.** period 6s	105 **32**	W. 13 R. 10 G. 11	Red and white banded tower, gallery; 85.	R. 053°-060°, W.-066°30′, G.-091°30′, W.-189°, R.-196°, W.-203°, R.-208°, G. 283°-289°, W.-294°30′, R.-302°.
2932 *C 1136*	Skodsbol (Schottsbull) Range (D), front.	54° 54.0′ N 9° 38.0′ E	**Iso.W.** period 2s	36 **11**	7	White round metal tower, red band; 26.	Visible 008°-078°.
2936 *C 1136.1*	-Rear, 900 meters 028° from front.	54° 54.1′ N 9° 38.9′ E	**Iso.W.** period 4s	79 **24**	**16**	White metal framework tower, red diamond daymark; 23.	Visible 020°-038°.
2940 *C 1137*	Marina Minde, W. pier, head.	54° 53.9′ N 9° 37.1′ E	**F.G.**	13 **4**	4	On floating breakwater.	Jetty head floodlit.
2944 *C 1166*	Rinkenaes Range, front.	54° 53.0′ N 9° 35.0′ E	**Iso.W.G.** period 2s	33 **10**	W. 7 G. 3	White round metal tower, red band; 28.	W. 227°-312°, G.-004°.
2948 *C 1166.1*	-Rear, about 1 km. 289°30′ from front.	54° 53.6′ N 9° 33.8′ E	**Iso.W.** period 4s	98 **30**	**16**	White metal framework mast, red diamond daymark; 23.	Visible 281°-299°.
2952 *C 1140*	**Laagemade Range,** front.	54° 54.0′ N 9° 37.0′ E	**Iso.R.** period 2s	43 **13**	**17**	White round tower, red band; 26.	Visible 345°-052°. Intensified 044°-052°.
2956 *C 1140.1*	-Rear, 700 meters 048° from front.	54° 54.4′ N 9° 37.4′ E	**Iso.R.** period 4s	85 **26**	**17**	White metal framework mast, red top; 69.	Visible 041°-059°.
	EGERNSUND:						
2960 *C 1146*	-Range, front.	54° 54.0′ N 9° 36.0′ E	**F.R.**	13 **4**		White post; 7.	
2964 *C 1146.1*	--Rear, 30 meters 335°30′ from front.	54° 54.4′ N 9° 35.7′ E	**F.R.**	20 **6**		White post; 7.	
2966 *C 1175*	Farensodde.	54° 49.4′ N 9° 28.4′ E	**F.R.**	13 **4**			Occasional.
2966.1 *C 1175.5*	-Inner harbor.	54° 49.4′ N 9° 28.3′ E	**F.G.**	13 **4**			Occasional.
	FLENSBURG:						
2972 *C 1176*	-Kielseng.	54° 48.2′ N 9° 26.7′ E	**Dir.Oc.W.R.G.** period 4s lt. 3s, ec. 1s	115 **35**	W. 10 R. 3 G. 3	Steel mast; 16.	G. 193°-195°, W.-199°, R.-201°.
2980 *C 1180*	-Kraftwerk Range, front.	54° 48.0′ N 9° 26.0′ E	**Iso.G.** period 4s	49 **15**	12	White metal framework tower; 42.	Shown 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK AND GERMANY-FLENSBORG FJORD						
2984 *C 1180.1*	--Rear, 80 meters 229° from front.	54° 48.2′ N 9° 26.1′ E	**Iso.G.** period 4s	62 **19**	13	White mast; 59.	Shown 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-KIEL BAY				
	SCHLEI:						
	-Schleimunde:						
3000 *C 1186*	--Mole, head.	54° 40.3′ N 10° 02.2′ E	**L.Fl.(3)W.R.** period 20s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	46 **14**	W. 14 R. 10	White round tower, black band; 46. Floodlit.	R. (10M) 144°30′-201°, W. (14M)-275°, W. (12M)- 296°, R. (10M)-006°, W. (6M)-100°, obsc.-144°30′. Storm signals. **Nautophone:** Mo.(SN) ev. 30s. **Fog detector light.**
3004 *C 1188*	--Near steamship′s pier Range, front.	54° 40.4′ N 10° 02.0′ E	**Oc.W.** period 4s lt. 3.5s, ec. 0.5s	20 **6**	9	White metal pile mast; 16.	Visible 040°-175°.
3008 *C 1188.1*	---Rear, 90 meters 107°30′ from front.	54° 40.4′ N 10° 02.1′ E	**Oc.W.** period 4s lt. 3.5s, ec. 0.5s	27 **8**	9	White metal framework mast; 20.	Visible 040°-175°. Synchronized with front.
3012 *C 1197*	-Olpenitz, N. mole.	54° 39.7′ N 10° 02.6′ E	**F.G.**	29 **9**	3	Black mast, white triangular daymark; 20. Floodlit.	
3016 *C 1198*	--S. mole, head.	54° 39.6′ N 10° 02.6′ E	**F.R.**	29 **9**	3	Red mast; 20.	
3020 *C 1196*	--Outer entrance Range, front.	54° 39.3′ N 10° 01.9′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	46 **14**	13	Gray tubular mast, white triangular daymark, red border, point up; 33.	Intensified on range line.
3024 *C 1196.1*	---Rear, 200 meters 271°30′ from front.	54° 39.3′ N 10° 01.7′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	82 **25**	13	Gray tubular mast, white triangular daymark, red border, point down; 69.	Synchronized with front. Intensified on range line.
3028 *C 1200*	--Inner entrance Range, front.	54° 39.8′ N 10° 01.9′ E	**Iso.W.** period 4s	44 **13**	11	Gray tubular mast, white triangular daymark, red border, point up; 33.	Intensified on range line.
3032 *C 1200.1*	---Rear, 145 meters 299°30′ from front.	54° 39.8′ N 10° 01.9′ E	**Iso.W.** period 4s	66 **20**	11	Gray tubular mast, white triangular daymark, red border, point down; 53.	Synchronized with front. Intensified on range line.
3036 *C 1189*	-Lotseninsel Range, front.	54° 40.6′ N 10° 01.4′ E	**Iso.W.** period 4s	33 **10**	11	White mast, red triangular daymark, point up; 33.	Intensified on range line.
3040 *C 1189.1*	--Rear, 800 meters 093°42′ from front.	54° 40.6′ N 10° 02.1′ E	**Iso.W.** period 4s	72 **22**	13	White mast, red triangular daymark, point down; 62.	Synchronized with front. Intensified on range line.
3044 *C 1190*	-Grimsnis Range, front.	54° 40.6′ N 9° 56.6′ E	**Iso.W.** period 4s	23 **7**	11	White mast; 19.	Intensified on range line.
3048 *C 1190.1*	--Rear, 555 meters 266° from front.	54° 40.6′ N 9° 56.1′ E	**Iso.W.** period 4s	52 **16**	13	White mast; 19.	Intensified on range line.
3052 *C 1192*	-Kappeln Range, front.	54° 40.0′ N 9° 56.3′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	26 **8**	9	White mast; 19.	Intensified on range line.
3056 *C 1192.1*	--Rear, 140 meters 213° from front.	54° 40.0′ N 9° 56.3′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	36 **11**	9	White mast; 10.	Synchronized with front. Intensified on range line.
	DAMP:						
3060 *C 1202*	-Jachtfen, N. mole.	54° 34.9′ N 10° 01.8′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	3	Black and white mast on dolphin; 26.	Platforms marked by Mo(U) 5s and Fog signal 2.1 miles ENE. and 1.9 miles SE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-KIEL BAY				
3064 *C 1203*	--S. mole.	54° 34.8′ N 10° 01.8′ E	**Q.(2)R.** period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	26 **8**	3	Red and white mast on dolphin; 26.	
	ECKERNFORDE:						
3068 *C 1206*	**-Eckernforde.**	54° 27.6′ N 9° 50.6′ E	**Dir.Oc.W.R.G.** period 4s lt. 3s, ec. 1s	118 **36**	W. **21** R. **17** G. **17**	Gray tower, two red platforms; 89.	G. 237°-242°, W.-244°30′, R.-251°.
			Fl.(2)W. period 9s fl. 1s, ec. 2s fl. 1s, ec. 5s		**21**		Visible 251°-268°.
			F.W.R.		W. 12 R. 8		W. 180°-193°, R.-208°, W.-237°.
3072 *C 1210*	-Harbor entrance.	54° 28.7′ N 9° 50.6′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	37 **11**	W. 6 R. 4 G. 3	Red tower, white band; 33.	W. 195°-251°, G.-293°, W.-315°, R.-003°. **Fog detector light** at head of breakwater points ESE., activated by radio request to Ekenforde Harbor Administration 0700 to 2200 hours.
3074 *C 1214*	--Mole.	54° 28.2′ N 9° 51.8′ E	**Fl.G.** period 6s fl. 1.5s, ec. 4.5s	26 **8**	2	Gray mast; 13.	
3080 *C 1215*	**Kiel.**	54° 30.0′ N 10° 16.5′ E	**Iso.W.R.G.** period 6s	96 **29**	W. **17** R. 14 G. 13	Red tower, white band on concrete mole; 98. Floodlit.	W. 148°30′-220°, R.-246°30′, W.-295°, R.-358°, W.-025°30′, G.-056°, R. 071°-088°, W.-091°18′, G.-148°30′. **Fog detector light** Q.W. on upper gallery. **Horn:** Mo.(KI) ev. 30s. Signal station. Pilot station. **Radiobeacon.**
	RACON		**KI(– • – • •)** period 60s		8		Frequency coverage 9320-9480 MHz.
	KIELER FORDE:						
3084 *C 1216*	-Bulk.	54° 27.0′ N 10° 12.0′ E	**Fl.W.R.G.** period 3s fl. 0.7s, ec. 2.3s	95 **29**	W. 14 R. 11 G. 10	White tower, black band and platform; 82.	W. 127°-146°, R.-213°, G.-228°, W.-235°30′, R.-238°30′, W.-262°, G.-043°.
3096 *C 1220*	-Strander Bucht.	54° 26.1′ N 10° 10.5′ E	**Oc.W.R.G.** period 6s lt. 5s, ec. 1s	46 **14**	W. 8 R. 6 G. 5	White mast, black band; 36.	G. 170°30′-246°, W.-280°30′, R.-350°30′.
	-Laboe:						
3100 *C 1222*	--N. mole, head.	54° 24.3′ N 10° 13.0′ E	**Oc.(4)W.R.** period 15s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 5s, ec. 1s	39 **12**	W. 5 R. 3	White mast; 33.	R. 016°-070°, W.-162°, R.-200°.
3104 *C 1226*	-Jagersberg Range, front.	54° 23.6′ N 10° 12.4′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	49 **15**	12	White pipe mast, red lantern, white triangular daymark, point up, red border; 36.	Intensified on range line.
	-Cross light.		**Oc.W.R.** period 4s lt. 3s, ec. 1s	46 **14**	W. 9 R. 7		R. 024°-032°, W. (unintensified)-041°, W.-134°, R.-149°, W.-179°.
3108 *C 1226.1*	--Rear, 410 meters 037° from front.	54° 23.8′ N 10° 12.7′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	82 **25**	12	White pipe mast, red lantern, white triangular daymark, point down, red border; 75.	Synchronized with front. Intensified on range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-KIEL BAY				
	KIEL:						
3112 *C 1230*	**-Friedrichsort.**	54° 23.5′ N 10° 11.7′ E	**Iso.W.R.G.** period 4s	104 **32**	W. 7 R. 6 G. 5	White round tower, green and white bands on gallery and base; 108. Floodlit.	G. 171°30′-196°, W.-202°, R.-224°, W.-280°, G.-300°, W.-032°, G.-090°. **Fog detector light.**
			F.W.		6		Visible 202°-209°.
	-Nord-Ostsee-Kanal:						
3116 *C 1246*	- -N. side of entrance.	54° 22.2′ N 10° 09.4′ E	**Oc.(3)W.G.** period 12s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 5s, ec. 1s	72 **22**	W. 11 G. 8	Red round tower; 65.	G. 217°-224°, W.-270°, G.-012°, W.-039°, unintensified 354°-039°. F.R. on tower 865 meters SW. and on church 340 meters WNW. Lights mark Nord-Ostsee-Kanal.
3120 *C 1248*	- -S. side of entrance.	54° 21.8′ N 10° 09.2′ E	**Oc.(2)W.R.** period 9s lt. 2s, ec. 1s lt. 5s, ec. 1s	74 **23**	W. 9 R. 9	Red metal framework tower, white band, masonry base, gray lantern; 65.	R. (unintensified) 159°- 192°, W.-214°, R.-288°, W.-302°, W. (unintensified)- 003°.
3124 *C 1238*	-Tirpitzhafen.	54° 21.4′ N 10° 09.0′ E	**L.Fl.(2)R.** period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	36 **11**	3	Red metal mast; 30.	Visible 144°-004°.
3128 *C 1237*	-Scheermole, head.	54° 21.4′ N 10° 09.1′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	38 **12**	3	Mast; 26.	
3136 *C 1276*	**Neuland.**	54° 22.0′ N 10° 36.0′ E	**L.Fl.(4)W.R.** period 30s fl. 2s, ec. 3.5s fl. 2s, ec. 3.5s fl. 2s, ec. 3.5s fl. 2s, ec. 11.5s	131 **40**	W. **21** R. **18**	Red tower, white band, gray lantern; 131.	R. 119°-128°, W.-229°, R.-255°, W.-299°, W. (unintensified)-312°. Signal station F.R. shown from chimney 1.5 miles WNW.
	HEILIGENHAFEN:						
3140 *C 1336*	-Dredged channel Range, front.	54° 22.0′ N 11° 00.0′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	42 **13**	**17**	White mast, white triangular daymark, red border; 36.	Intensified on leading line.
3144 *C 1338*	- -Rear, 300 meters 268°30′ from front.	54° 22.4′ N 10° 59.5′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	62 **19**	**17**	Gray warehouse, white triangular daymark, red bands; 49.	Intensified on leading line. Synchronized with front.
3148 *C 1329*	**-Warder Range,** front.	54° 23.0′ N 10° 59.0′ E	**Iso.W.** period 3s	42 **13**	**17**	White mast, red triangular daymark, point up; 46.	
3152 *C 1329.1*	- -Rear, 195 meters 279°12′ from front.	54° 22.6′ N 10° 59.0′ E	**Iso.W.** period 3s	59 **18**	**17**	White mast, red triangular daymark, point down; 52.	
3156 *C 1328*	-Heilig Road, E. of town.	54° 22.0′ N 11° 01.3′ E	**Oc.(2)W.R.G.** period 9s lt. 2s, ec. 1s lt. 5s, ec. 1s	51 **16**	W. 13 R. 10 G. 9	Red round tower and platform, red and white attached houses, white lantern; 43.	G. 100°-206°, W.-212°12′, R.-250°.
3164 *C 1280*	**Westermarkelsdorf.**	54° 31.6′ N 11° 03.5′ E	**L.Fl.W.R.** period 10s fl. 2.5s, ec. 7.5s	52 **16**	W. **18** R. 14	Yellow tower and building, red lantern; 56.	R. 031°-054°, W.-200°, R.-231°, W.-254°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	GERMANY-MECKLENBURGER BUCHT						
	FEHMARN:						
3168 *C 1278*	*-KIEL-OSTSEE ROUTE LANBY "KO6/T63".*	54° 35.9′ N 11° 08.9′ E	**L.Fl.W.** period 5.5s			Red and white superbuoy.	
	-RACON		**T(–)** period 60s		8		
3170	*-Kiel-Ostsee Route Buoy "KO5/ T62".*	54° 35.5′ N 11° 01.0′ E	**Iso.W.** period 4s			SAFE WATER RW, pillar, topmark.	
	-RACON		**M(– –)** period 60s		8		
3172 *C 1281*	-Puttgarden entrance Range, front.	54° 30.0′ N 11° 14.0′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	59 **18**	W. 8 R. 6 G. 5	White mast, red bands, triangular daymark, point up.	G. 146°-183°, W.-227°, R.-264°.
3176 *C 1281.1*	- -Rear, 110 meters 205° from front.	54° 29.9′ N 11° 13.6′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	95 **29**	9	White mast, triangular daymark, point down.	Synchronized on range line with front.
3180 *C 1282*	-Puttgarden.	54° 30.0′ N 11° 14.0′ E	**F.G.**	23 **7**	4	Black mast; 13.	
3184 *C 1282.2*	- -E. mole, head.	54° 30.0′ N 11° 14.0′ E	**F.R.**	23 **7**	4	Red mast; 10.	Shown in fog.
3188 *C 1284*	**-Marienleuchte.**	54° 30.0′ N 11° 14.0′ E	**Fl.(4)W.R.** period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 5.8s	131 **40**	W. **22** R. **18**	Red round tower, two white bands and gallery; 108.	R. 118°-146°, W.-173°, R.-223°18′, W.-333°.
	-Burgstaaken Hafen:						
3192 *C 1286*	**- -Staberhuk.**	54° 24.0′ N 11° 19.0′ E	**Oc.(2)W.G.** period 16s lt. 3s, ec. 1s lt. 11s, ec. 1s	81 **25**	W. **18** G. 14	Yellow round tower, red lantern and dwelling; 72.	W. 175°-063°30′, G.-071°30′, W.-090°.
3196 *C 1326*	- -E. mole, head.	54° 24.4′ N 11° 11.9′ E	**Oc.(3)W.R.** period 12s lt. 5s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	30 **9**	W. 8 R. 5	White mast with black platform; 26.	R. 252°-282°, W.-021°, R.-042°, W.-186°.
3200 *C 1316*	- -Burger See.	54° 24.7′ N 11° 11.3′ E	**Iso.W.R.G.** period 4s	43 **13**	W. 14 R. 11 G. 10	White mast.	G. 312°-314°30′, W.-316°, R.-318°.
3208 *C 1322*	- -On pier Range, front.	54° 25.3′ N 11° 11.4′ E	**Iso.W.** period 8s	49 **15**	9	Mast, red triangular daymark, point up; 43.	
3212 *C 1324*	- - -Rear, 114 meters 356°30′ from front.	54° 25.3′ N 11° 11.5′ E	**Iso.W.** period 8s	75 **23**	9	Mast, red triangular daymark, point up; 69.	
3216 *C 1288*	-Strukkamphuk E. Approach Range, front.	54° 25.0′ N 11° 06.0′ E	**Iso.W.R.** period 3s	23 **7**	W. 8 R. 6	White round tower; 16.	W. (intensified) 292°30′-317°30′, W. (unintensified)-037°, W. W. (intensified)-157°, R.-177°.
3220 *C 1288.1*	**- -Flugge,** rear, about 6.1 km. 305° from front.	54° 26.6′ N 11° 01.2′ E	**F.W.**	122 **37**	**25**	Red octagonal tower, white bands, red and yellow dwellings; 123.	Intensified on range line.
			Oc.(4)W. period 20s lt. 2.5s, ec. 1.5s lt. 2.5s, ec. 1.5s lt. 2.5s, ec. 1.5s lt. 6.5s, ec. 1.5s	125 **38**	**17**		Visible 245°-180°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-MECKLENBURGER BUCHT				
3228 *C 1300*	-Fehmarnsund Bridge, Pier VI.	54° 24.0′ N 11° 07.0′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	75 **23**	W. 8 R. 6 G. 5	Bridge pillar.	G. 074°30′-086°, W.-094°, R.-108°. **Fog detector light** on N. apron of bridge. **Nautophone:** Mo.(F) ev. 20s.
	-RACON		**T(–)**		2		
3236 *C 1312*	-Orth.	54° 26.7′ N 11° 03.1′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	20 **6**	W. 6 R. 5 G. 4	Gray mast; 16.	G. 346°-348°, W.-350°, R.-352°.
3244 *C 1342*	**Dahmeshoved.**	54° 12.2′ N 11° 05.4′ E	**Fl.(3)W.** period 12s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 5.2s	110 **34**	**23**	Red octagonal tower, white bands, near yellow building; 92.	Visible 176°18′-068°18′.
3248 *C 1346*	Pezlerhaken.	54° 05.2′ N 10° 52.1′ E	**L.Fl.(2)W.R.G.** period 20s fl. 3s, ec. 4s fl. 3s, ec. 10s	69 **21**	W. 14 R. 11 G. 9	Red square tower with platform and white lantern; 64.	W. 221°-335°, R.-348°, W.-082°, G.-092°, W.-101°.
	NEUSTADT:						
3252 *C 1348*	-W. side of harbor Range, front.	54° 05.8′ N 10° 48.7′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	46 **14**	12	White mast, white triangular daymark, red border, point up; 33.	Intensified on range line.
3256 *C 1348.1*	- -Rear, 110 meters 347°48′ from front.	54° 05.9′ N 10° 48.7′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	62 **19**	12	White mast, white triangular daymark, red border, point down; 49.	Synchronized with front. Intensified on range line.
3260 *C 1348.4*	-Neustadt-Wiek Range, front.	54° 05.9′ N 10° 48.0′ E	**Oc.(3)W.** period 12s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 5s, ec. 1s	37 **11**	6	White mast, white triangular daymark, red border, point up; 33.	Intensified on range line.
3264 *C 1348.41*	- -Rear, 60 meters 304° from front.	54° 06.0′ N 10° 47.9′ E	**Oc.(3)W.** period 12s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 5s, ec. 1s	52 **16**	6	White mast, white triangular daymark, red border, point down; 46.	Synchronized with front. Intensified on range line.
3272 *C 1350*	-Seeburg Range, front.	54° 06.0′ N 10° 49.0′ E	**Iso.W.** period 3s	43 **13**	9	White metal mast, white triangular daymark, red border, point up, on dolphin; 33.	
3276 *C 1350.1*	- -Rear, 50 meters 020°30′ from front.	54° 06.0′ N 10° 49.0′ E	**Iso.W.** period 3s	52 **16**	9	White metal mast, white triangular daymark, red border, point down; 49.	Synchronized with front.
	TRAVEMUNDE:						
3296 *C 1370*	**-Priwall Harbor Range,** front.	53° 58.0′ N 10° 53.0′ E	**Oc.(2)W.** period 9s lt. 2s, ec. 1s lt. 5s, ec. 1s	42 **13**	**17**	White mast, white and red triangular daymark, point up; 42.	
3300 *C 1370.1*	- -Rear, 365 meters 215°54′ from front.	53° 57.2′ N 10° 52.9′ E	**Oc.(2)W.** period 9s lt. 2s, ec. 1s lt. 5s, ec. 1s	72 **22**	**17**	White lattice mast, white and red triangular daymark, point down; 69.	Synchronized with front. Intensified on range line.
3304 *C 1360*	**-Travemunde.**	53° 58.0′ N 10° 53.0′ E	**Fl.W.R.** period 4s fl. 0.1s, ec. 3.9s	374 **114**	W. **19** R. **15**	On highrise building; 380.	R. 165°-214°, W.-234°, R.-245°. **Calibration Radiobeacon.**
3308 *C 1362*	-N. mole, head.	53° 57.7′ N 10° 53.3′ E	**Oc.R.G.** period 4s lt. 3s, ec. 1s	33 **10**	R. 6 G. 5	Black floodlit beacon, white bands; 29.	R. 123°-201°, G.-066°, obscured elsewhere. **Horn:** Mo.(TD) ev. 30s. **Fog detector light.**
3312	*Buoy "Wismar".*	54° 07.0′ N 11° 26.0′ E	**Iso.W.** period 4s			Red and white striped buoy disc topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-MECKLENBURGER BUCHT				
3315 *C 1386.4*	Lieps.	53° 59.3′ N 11° 18.3′ E	**Dir.Oc.W.G.** period 12s W. lt. 4.5s, ec. 1.5s G. lt. 4.5s, ec. 1.5s	33 **10**	7	White metal mast; 3.	Oc.G. 302°06′-303°42′, Oc.W.-303°48′.
			Dir.F.W.			Same structure.	F.W. 303°48′-304°.
			Dir.Fl.W.R. period 12s W. fl. 1.5s, ec. 4.5s R. fl. 1.5s, ec. 4.5s			Same structure.	Fl.W. 304°-304°06′, Fl.R.-305°42′.
			Fl.W. period 6s fl. 1.5s, ec. 4.5s			Same structure.	Auxiliary light.
3316 *C 1382*	**Hohen Wieschendorf Range,** front.	53° 57.6′ N 11° 20.0′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	65 **20**	**15**	Framework tower; 46.	
3320 *C 1382.1*	-Rear, about 1.4 km. 180°18′ from front.	53° 56.7′ N 11° 19.8′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	128 **39**	**16**	Framework tower; 66.	Synchronized with front.
3328 *C 1386*	Timmendorf.	53° 59.5′ N 11° 22.6′ E	**Iso.W.R.G.** period 6s	69 **21**	W. **16** R. 12 G. 11	Round tower, lower part white, upper part brown, white lantern and red cupola; 69.	R. 049°-060°, W.-069°30′, G.-125°30′, W.-136°30′, R.-196°, G.-202°30′, W.-211°30′, R.-220°.
3330 *C 1398*	**Golwitz.**	54° 01.4′ N 11° 28.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	75 **23**	W. **18** R. 13 G. 13	Red framework tower on white building; 33.	R. 078°-084°, W.-087°, G.-116°.
3331 *C 1398.5*	-N. side.	54° 01.4′ N 11° 28.2′ E	**Iso.W.R.G.** period 4s	42 **13**	W. **19** R. **16** G. 14	White tower, red bands, on white building; 33.	G. 162°18′-164°30′, W.-166°, R.-168°18′.
3344 *C 1387.9*	-Insel Walfisch, rear, 914 meters 123°54′ from Poel common front.	53° 56.6′ N 11° 25.4′ E	**Oc.(2)W.R.G.** period 9s lt. 2s, ec. 1s lt. 5s, ec. 1s	56 **17**	W. 11 R. 8 G. 7	Gray metal framework beacon with 2 galleries and white lantern; 49.	G. 056°-120°, W.-129°, R.-185°, W.-056°.
3348 *C 1388*	-Poel Range, common front.	53° 56.8′ N 11° 24.7′ E	**Oc.(2)W.** period 9s lt. 2s, ec. 1s lt. 5s, ec. 1s	20 **6**	12	Mast; 13.	
			Iso.W. period 4s				
3352 *C 1388.1*	--Rear, 2 km. 339°30′ from Poel common front.	53° 57.9′ N 11° 24.0′ E	**Iso.W.** period 4s	63 **19**	**17**	Framework mast; 59.	
3356 *C 1388.6*	-Wendorf Seebad Range, front.	53° 55.3′ N 11° 25.6′ E	**Iso.R.** period 4s	19 **6**	12	Mast; 13.	
3360 *C 1388.7*	--Rear, about 1.7 km. 159°30′ from front.	53° 54.4′ N 11° 26.2′ E	**Iso.R.** period 4s	59 **18**	**17**	Framework mast; 56.	
3364 *C 1390*	-Fliemstorf Range, front.	53° 55.6′ N 11° 25.4′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	20 **6**	12	Mast; 13.	
3368 *C 1390.1*	--Rear, about 1.5 km., 329°54′ from front.	53° 56.3′ N 11° 24.7′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	59 **18**	**17**	Framework mast; 52.	
	WISMAR:						
3372 *C 1392*	-Range, front.	53° 54.0′ N 11° 27.0′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	92 **28**	12	Framework mast; 85.	
3376 *C 1392.1*	--Rear, about 700 meters 149°54′ from front.	53° 53.6′ N 11° 27.3′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	151 **46**	12	Framework mast; 141.	Synchronized with front. Channel marked by beacons.
3392 *C 1395.6*	-Werft Hafen.	53° 54.1′ N 11° 27.6′ E	**F.G.**	24 **7**	1	Blue mast; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	GERMANY-MECKLENBURGER BUCHT						
	KIRCHSEE FAIRWAY:						
3396 *C 1396.4*	-Second Range, front.	53° 59.9′ N 11° 26.7′ E	**Oc.(2)W.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	23 **7**	10	Red framework mast, white triangular daymark, point up; 21.	
3400 *C 1396.5*	- -Rear, 38 meters 006°24′ from front.	53° 59.9′ N 11° 26.7′ E	**Oc.(2)W.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	43 **13**	10	Red framework mast, white triangular daymark, point down; 43.	Synchronized with front.
3412 *C 1400*	**Buk.**	54° 08.0′ N 11° 42.0′ E	**L.Fl.(4)W.R.** period 45s fl. 2.1s, ec. 6.9s fl. 2.1s, ec. 6.9s fl. 2.1s, ec. 6.9s fl. 2.1s, ec. 15.9s	313 **95**	W. **24** R. **20**	Red and white round tower, red cupola; 68.	W. 030°-040°, R.-073°, W.-265°. Shown July 20 to May 12.
	WARNEMUNDE-HAFEN:						
3428 *C 1404*	**-Warnemunde.**	54° 11.0′ N 12° 05.0′ E	**Fl.(3+1)W.** period 24s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s fl. 0.3s, ec. 8.7s	112 **34**	**20**	White round tower, two galleries, dark bands on lower portion; 102.	Port signals. **Calibration Radiobeacon** at Pilot Station 930 meters SE.
3432 *C 1415*	-Petersdorf, approach Range, front.	54° 09.0′ N 12° 07.0′ E	**Iso.R.** period 8s	62 **19**	14	Black framework tower, triangular daymark, black and white stripes; 49.	
3436 *C 1415.1*	- -Rear, 1259 meters 161°30′ from front.	54° 08.1′ N 12° 07.2′ E	**Iso.R.** period 8s	121 **37**	**16**	Black framework tower, diamond daymark, black and white stripes; 85.	Synchronized with front.
3448	*-Buoy "Rostock".*	54° 18.0′ N 12° 00.0′ E	**Iso.W.** period 4s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
3452 *C 1405*	-W. mole, head.	54° 11.2′ N 12° 05.2′ E	**Iso.G.** period 4s	16 **5**	6	Green tower, white band and two galleries; 39. Floodlit.	**Horn:** Mo.(WN) ev. 30s.
3468 *C 1408.2*	- -E. ferry berth, head.	54° 11.0′ N 12° 06.0′ E	**Oc.W.G.** period 5s lt. 4s, ec. 1s	26 **8**	W. 5 G. 2	Black metal framework structure; 17.	G. 071°-251°, W.-071°.
3510	*Route T, Buoy "71".*	54° 27.6′ N 12° 12.2′ E	**Iso.W.** period 4s			SAFE WATER RW, pillar, topmark.	
	RACON		**X(– • • –)**		10		
3512 *C 1436*	**Ostseebad Wustrow.**	54° 20.2′ N 12° 22.7′ E	**Oc.(3)W.** period 12s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 5s, ec. 1s	39 **12**	**16**	Red square tower, with 2 galleries and white lantern on NW. corner of building; 33.	**Horn:** Mo.(D) ev. 30s. **DGPS Station.**
3516 *C 1440*	**Darsser Ort.**	54° 28.5′ N 12° 30.3′ E	**Fl.(2+4)W.** period 22s	108 **33**	**20**	Red round stone tower brown dome; 115.	
	DENMARK-STORE BAELT (GREAT BELT)						
3520 *C 1470*	Odden.	55° 58.3′ N 11° 22.3′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	33 **10**	W. 7 R. 4 G. 4	Green mast; 25.	W. 147°-270°, R.-280°, G.-147°. Sounded when vessels are expected. **Siren:** 1 bl. ev. 30s.
	For Sjaellands Rev N. and other lights of Kattegat, see Index.						
3524 *C 1476*	Sjaellands Rev.	56° 05.0′ N 11° 13.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	19 **6**	7	Red beacon marked "314m"; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-STORE BAELT (GREAT BELT)				
3528 *C 1480*	Yderflak.	56° 04.0′ N 11° 02.0′ E	**Fl.W.R.G.** period 3s fl. 0.8s, ec. 2.2s	33 **10**	W. 8 R. 5 G. 5	Red beacon, black band; 26.	G. 209°-231°,W.-259°, R.-281°30′, W.-209°.
3532 *C 1483*	Sjaellands Odde Ferry Harbor Range, front.	55° 58.5′ N 11° 18.0′ E	**Iso.W.** period 2s	26 **8**	7	Gray lattice mast; 19.	Visible 351°48′-023°48′.
3536 *C 1483.1*	-Rear, about 175 meters 007°48′ from front.	55° 58.6′ N 11° 18.1′ E	**Iso.W.** period 2s	49 **15**	7	Gray lattice mast; 42.	Visible 351°48′-023°48′. Synchronized with front.
3540 *C 1484*	-W. mole, head.	55° 58.0′ N 11° 18.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	14 **4**	3	Gray lantern; 6.	
3544 *C 1484.2*	-E. mole, head.	55° 58.3′ N 11° 18.1′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	14 **4**	3	Gray lantern; 6.	
3546	*Light Buoy No. "16".*	55° 55.2′ N 10° 57.2′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
	RACON		**M(– –)**		10		
3548 *C 1497*	Hatterrev, "DW 3".	55° 54.1′ N 10° 51.8′ E	**Fl.Y.** period 3s	29 **9**	5	Yellow pipe mast; 36.	
	RACON		**B(– • • •)** period 40s				
3552 *C 1497.4*	Hatter Barn, "DW6".	55° 53.0′ N 10° 50.0′ E	**Q.(4)Y.** period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 6.5s	30 **9**	6	Yellow pipe mast.	
3556 *C 1486*	**Sejero.**	55° 55.0′ N 11° 05.0′ E	**Fl.(2)W.** period 15s	102 **31**	**17**	Yellow round tower; 62.	Obscured by land when bearing 301° 307°-311° and 316°-321°.
3560 *C 1487*	-Main basin, W. mole, head.	55° 53.0′ N 11° 08.0′ E	**F.R.**	19 **6**	4	Red post; 11.	
3564 *C 1487.3*	--E. mole.	55° 52.8′ N 11° 08.2′ E	**F.G.**	20 **6**	4	Green post; 13.	
	NEKSELO:						
3572 *C 1489*	-Range, front.	55° 48.0′ N 11° 17.0′ E	**Iso.W.** period 2s	59 **18**	7	White hut, red band; 7.	
3576 *C 1489.1*	--Rear, 469 meters 175° from front.	55° 47.4′ N 11° 17.0′ E	**Iso.W.** period 4s	108 **33**	8	White hut, red band; 7.	Visible 171°-179°.
3580 *C 1491*	-Havsno, N. mole, E.	55° 45.3′ N 11° 19.6′ E	**Oc.W.R.G.** period 5s	19 **6**	W. 6 R. 4 G. 4	Green mast; 13.	W. 158°-185°, R.-195°, G.-158°.
3588 *C 1496*	**Rosnaes.**	55° 44.6′ N 10° 52.2′ E	**Fl.W.** period 5s fl. 0.1s, ec. 4.9s	79 **24**	**20**	White square tower; 49.	Obscured 260°-312° but seen between hills when bearing 261°, and 308°-311°.
3589 *C 1495*	-Fishing harbor.	55° 45.2′ N 10° 56.8′ E	**F.G.**	16 **5**	2	White post; 10.	**Siren:** 1 bl. ev. 20s.
3592 *C 1498*	-Rosnaes Puller.	55° 45.0′ N 10° 51.0′ E	**Fl.(2)W.R.G.** period 5s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 2.8s	43 **13**	W. 8 R. 5 G. 5	Red round tower, on granite base; 46.	G. 007°-019°, W.-030°, R.-054°, G.-087°, W.-093°, R.-117°, G.-167°, W.-174°, R.-286°, G.-352°, W.-358°, R.-007°.
3596 *C 1500*	Asnaes.	55° 40.0′ N 10° 56.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	4	White house, red band; 14.	
3600 *C 1504*	Gisselore, on point.	55° 40.2′ N 11° 04.6′ E	**Fl.W.** period 3s	13 **4**	7	White metal structure, concrete base; 15.	Shown 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK-STORE BAELT (GREAT BELT)						
	KALUNDBORG HAVN:						
3616 *C 1507*	-Asnaesvaerket.	55° 39.9′ N 11° 04.7′ E	**Dir.Oc.W.R.G.** period 10s lt. 7.5s, ec. 2.5s	42 **13**	12	Gray framework mast; 33.	G. 113°19′-115°19′, W.-116°19′, R.-118°19′. 2 Dir. Lts. 20 meters apart mark channel on bearing 116°19′ (sectors on second light offset by 1°). Shown 24 hours.
3618 *C 1508*	- -N. Pier.	55° 39.9′ N 11° 05.0′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	11 **3**	2	Bracket on pier.	Shown 24 hours.
3620 *C 1509*	-Indre Range, front.	55° 40.0′ N 11° 06.3′ E	**Iso.W.** period 2s	90 **27**	7	Gray framework mast; 95.	
3624 *C 1509.1*	- -Rear, 142 meters 090°42′ from front.	55° 40.0′ N 11° 06.4′ E	**Iso.W.** period 4s	107 **33**	7	Gray framework mast; 105.	
3626 *C 1509.4*	-Oil pier, head.	55° 40.0′ N 11° 05.4′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	3	Gray metal mast and platform; 26.	Shown 24 hours.
3628 *C 1510*	-Dredged channel entrance Range, front.	55° 40.6′ N 11° 05.6′ E	**Iso.G.** period 2s	33 **10**	5	Mast, red triangular daymark, point up; 33.	
3632 *C 1510.1*	- -Rear, 125 meters 020°12′ from front.	55° 40.7′ N 11° 05.6′ E	**Iso.G.** period 4s	56 **17**	5	Mast, red triangular daymark, point down; 49.	
3633 *C 1510.4*	-Dredged channel departure Range, front.	55° 39.9′ N 11° 05.1′ E	**Iso.G.** period 2s	49 **15**	5	Metal mast on wall, red triangular daymark, point up; 39.	Visible 130°12′-270°12′. Shown 24 hours. Dir.Y. light visible 20° each side of range line illuminates black stripes indicating range line.
3633.1 *C 1510.41*	- -Rear, 101 meters 200°12′ from front.	55° 39.9′ N 11° 05.1′ E	**Iso.G.** period 4s	62 **19**	5	On tank, red triangular daymark, point down.	Visible 130°12′-270°12′.
3636 *C 1513*	-Harbor, ferry berth, NW. head.	55° 40.4′ N 11° 05.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	3	Hut on dolphin; 6.	Shown 24 hours.
3640 *C 1511*	-W. harbor, E. mole, head.	55° 40.6′ N 11° 05.4′ E	**F.G.**	26 **8**	2	Framework mast; 16.	Shown 24 hours.
3642 *C 1512*	- -W. mole, head.	55° 40.6′ N 11° 05.3′ E	**F.R.**	23 **7**	2	Red pole.	Shown 24 hours.
3648 *C 1526*	Romso Tue.	55° 33.5′ N 10° 49.3′ E	**Fl.W.R.G.** period 3s fl. 0.7s, ec. 2.3s	33 **10**	W. 8 R. 6 G. 5	Green tower; 40.	G. 051°-132°, W.-135°, R.-150°, G.-158°, W.-169°, R.-300°, G.-325°, W.-332°, R.-051°.
	RACON		**T(–)** period 60s		10		
	KJERTEMINDE HAVN:						
3652 *C 1531.4*	-Marina.	55° 27.0′ N 10° 40.0′ E	**F.G.**	10 **3**	2	Pole.	
3656 *C 1530.5*	-Breakwater, off S. head.	55° 27.2′ N 10° 40.2′ E	**Fl.G.** period 3s	13 **4**	4	Dolphin.	
3660 *C 1530.6*	- -Off N. head.	55° 27.3′ N 10° 40.2′ E	**Fl.R.** period 3s	13 **4**	4	Dolphin.	
3664 *C 1531*	-Range, front.	55° 27.1′ N 10° 39.7′ E	**Iso.R.** period 2s	19 **6**	4	Gray mast, red triangular daymark, point up; 10.	Visible 163°24′-343°24′.
3668 *C 1531.1*	- -Rear, 82 meters 253°24′ from front.	55° 27.0′ N 10° 39.7′ E	**Iso.R.** period 4s	23 **7**	4	Gray mast, red triangular daymark, point down; 15.	Visible 163°24′-343°24′.
3676 *C 1524*	-Havn, head of S. mole.	55° 31.0′ N 11° 07.0′ E	**F.R.**	13 **4**		White post; 11.	Visible 202°-023°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK-STORE BAELT (GREAT BELT)						
3680 *C 1520*	Mullerup, S. mole, head.	55° 30.0′ N 11° 10.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	20 **6**	W. 7 R. 4 G. 4	White metal mast; 26.	G. 025°-036°30′, W.-047°30′, R.-070°30′, G.-088°30′, W.-104°, R.-025°.
3682 *C 1532.5*	Osterrenden N., "W26".	55° 21.8′ N 11° 01.4′ E	**Fl.(3)G.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 **10**	7	Green lantern on mast with platform. Floodlit.	
	RACON		**N(– •)** period 60s		10		
3684 *C 1533*	Sprogo NE., "W27".	55° 21.2′ N 11° 01.6′ E	**Fl.(2)G.** period 10s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 5.5s	33 **10**	5	Green tower, white lantern; 39. Floodlit.	
3688 *C 1532.2*	Sprogo Island.	55° 19.8′ N 10° 58.2′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	144 **44**	8	Red round masonry tower, yellow bands; 62.	
3692 *C 1534*	Osterrenden S, "E28".	55° 19.5′ N 11° 02.8′ E	**Fl.(3)R.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 **10**	7	Red mast with platform. Floodlit.	
	RACON		**O(– – –)** period 60s		10		
	HALSSKOV:						
3696 *C 1535*	-Halsskov.	55° 20.0′ N 11° 06.0′ E	**Oc.W.R.G.** period 5s	33 **10**	W. 14 R. 10 G. 10	Gray structure, black and white striped base; 12.	W. 037°-070°, R.-121°, G.-127°, W.-143°, R.-165°, W.-216°30′, G.-312°, R.-348°, G.-037°.
3700 *C 1536*	-Ferry Range, front.	55° 21.0′ N 11° 07.0′ E	**F.G.**	26 **8**	8	Red trellis structure, orange triangular daymark, point up; 13.	
3704 *C 1536.1*	- -Rear, about 300 meters 43° from front.	55° 20.9′ N 11° 06.7′ E	**F.G.**	82 **25**	10	Red trellis structure, orange triangular daymark, point down; 74.	
3708 *C 1537*	-E. mole, head.	55° 21.0′ N 11° 06.0′ E	**Fl.G.** period 3s	23 **7**	5	Gray trellis mast; 16.	Shown by day in poor visibility.
3712 *C 1538*	-W. mole, head.	55° 21.0′ N 11° 06.0′ E	**Fl.R.** period 3s	23 **7**	5	Gray trellis mast; 16.	
3716	-Ferry Pier, W. head.	55° 21.0′ N 11° 07.0′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	19 **6**		Gray metal mast; 3.	
	KORSOR HAVN:						
3720 *C 1542*	-On shoal in roads.	55° 20.0′ N 11° 07.0′ E	**Oc.(3)W.R.G.** period 15s	33 **10**	W. 14 R. 10 G. 10	Red metal framework structure, white concrete base; 40.	W. 158°-297°30′, R.-016°, W.-050°, G.-072°, W.-082°, R.-158°.
3724 *C 1544*	-Entrance Range, front.	55° 20.0′ N 11° 08.0′ E	**F.R.**	26 **8**	10	Gray structure, orange triangular daymark, point up; 36.	Visible 068°-080°. Shown 24 hours.
3728 *C 1544.1*	- -Rear, E. ferry berth mole, 190 meters 073°30′ from front.	55° 20.2′ N 11° 08.4′ E	**F.R.**	56 **17**	11	Gray structure, orange triangular daymark, point down; 56.	Visible 068°-080°. Shown 24 hours.
3732 *C 1545.4*	-Detached breakwater, N. head.	55° 20.0′ N 11° 07.0′ E	**Fl.G.** period 3s	16 **5**	4	Mast; 7.	
3736 *C 1545.5*	- -S. head.	55° 19.9′ N 11° 07.4′ E	**F.R.**	16 **5**	4	Mast on gray base; 7.	
3740 *C 1545*	-Lygtepulle, breakwater, N. head.	55° 20.1′ N 11° 07.4′ E	**Fl.R.** period 3s	16 **5**	4	Mast; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK-STORE BAELT (GREAT BELT)						
3744 *C 1552*	-Korsor Yachthaven.	55° 19.7′ N 11° 07.7′ E	**Iso.W.R.G.** period 4s	16 **5**	W. 6 R. 4 G. 4	Red post.	G. 039°-049°, W.-110°, R.-039°. Shown April 1 thru Nov. 15.
3748 *C 1553*	- -S. mole, N. head.	55° 19.7′ N 11° 07.8′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	13 **4**	2	Green post; 10.	Shown April 1 thru Nov. 15.
3750	Vestbro Bridge, RACON.	55° 18.6′ N 10° 53.8′ E	**T(–)** period 30s				Racons on each side of bridge mark center of channel.
3752 *C 1556*	**Knudshoved.**	55° 17.4′ N 10° 51.0′ E	**Oc.W.R.G.** period 10s lt. 6s, ec. 4s	52 **16**	W. **16** R. 11 G. 11	White square tower; 41.	G. 220°-269°, W.-276°, R.-305°30′, G.-359°, W.-003°30′, R.-095°.
	NYBORG FJORD:						
3772 *C 1562*	-Slipshavn, on point.	55° 17.0′ N 10° 50.0′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	33 **10**	7	White tripod, red band; 20.	Visible 259°-180°, also in places 226°-251°.
3776 *C 1564*	-Range, front.	55° 18.0′ N 10° 47.0′ E	**Iso.W.** period 2s	13 **4**	9	White beacon, disk daymark; 30.	Visible 216°-036°.
3780 *C 1564.1*	- -Jomfruhoj, rear, 55 meters 306° from front.	55° 18.1′ N 10° 46.9′ E	**Iso.W.** period 2s	43 **13**	9	White beacon, disk daymark; 16.	Visible 216°-036°.
	-Avernakke Pynt.						
3796 *C 1572*	- -Dynen.	55° 18.0′ N 10° 47.6′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	13 **4**	R. 7	Dolphin; 7.	Visible 152°30′-005°30′.
3800 *C 1574*	- -Hage S.	55° 18.1′ N 10° 47.5′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	12 **4**	5	Dolphin; 7.	Visible 152°30′-332°30′.
	-Nyborg Havn:						
3804 *C 1566*	- -Entrance Range, front.	55° 18.0′ N 10° 48.0′ E	**Oc.W.R.G.** period 5s	20 **6**	W. 9 R. 6 G. 6	Gray framework structure, orange triangular daymark point up; 10.	W. 327°54′-334°42′, R.-338°12′, G.-327°54′.
3808 *C 1566.1*	- - -Rear, 183 meters 331°12′ from front.	55° 18.4′ N 10° 47.4′ E	**Iso.W.** period 4s	36 **11**	10	Gray framework mast, orange triangular daymark, point down; 33.	Visible 326°12′-336°12′.
3812 *C 1566.3*	- -S. mole, head.	55° 18.3′ N 10° 47.4′ E	**F.R.**	16 **5**	4	Gray post; 7.	
3820 *C 1578*	- -W. side of entrance of Vester Havn, outer mole, E. head.	55° 18.4′ N 10° 47.5′ E	**F.R.**	17 **5**	4	Gray post; 11.	
3828 *C 1577*	- -Steamer pier, head.	55° 19.0′ N 10° 48.0′ E	**F.G.**	26 **8**	1	Gray post; 16.	Shown only southward.
3830	-Sprogo Harbor, S. mole.	55° 19.8′ N 10° 58.2′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	16 **5**	4	Gray mast; 26. Floodlit.	
3832 *C 1588*	Lundeborg Havn.	55° 08.0′ N 10° 47.0′ E	**F.G.**	17 **5**		White post.	Shown Aug. 1 thru Mar. 31, sunset to midnight.
	SVENDBORG SUND:						
3836 *C 1590*	-Elsehoved.	55° 06.0′ N 10° 47.0′ E	**Oc.W.R.G.** period 5s lt. 3s, ec. 2s	33 **10**	W. 12 R. 8 G. 8	Red round metal tower, white bands; 26.	G. 188°-215°, W.-014°, R.-029°.
3840 *C 1634*	-Taasinge Range, front.	55° 02.0′ N 10° 40.0′ E	**Iso.R.** period 2s	36 **11**	11	Framework mast, red triangular daymark, point up, red and white stripes.	Visible 279°-287°.
3844 *C 1634.1*	- -Rear, 223 meters 283° from front.	55° 01.7′ N 10° 39.2′ E	**Iso.R.** period 4s	49 **15**	11	Post, red and white stripes, red triangular daymark, point down.	Visible 279°-287°.

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	DENMARK-STORE BAELT (GREAT BELT)						
3848 *C 1612*	-Marodde.	55° 02.0′ N 10° 39.0′ E	**F.W.R.G.**	13 **4**	10	White tubular mast, red bands; 10.	G. 000°-059°, R.-140°, G.-151°, W.-154°, R.-164°.
3852 *C 1614*	-Troense.	55° 02.0′ N 10° 38.9′ E	**Iso.W.R.G.** period 2s	13 **4**	W. 10 R. 8 G. 8	White tubular mast, red bands; 10.	G. 118°-173°, W.-176°, R.-187°, G.-221°, R.-260°.
3856 *C 1628*	-Thuro Range, front.	55° 02.0′ N 10° 40.0′ E	**F.R.**	13 **4**		White post, orange triangular daymark, point up; 13.	Visible 335°-359°.
3860 *C 1628.1*	--Rear, 80 meters 347° from front.	55° 02.5′ N 10° 39.7′ E	**F.R.**	23 **7**		White post, orange triangular daymark, point down; 20.	Visible 335°-359°.
3864 *C 1624*	-Grasten Range, front.	55° 02.0′ N 10° 40.0′ E	**F.R.**	36 **11**		White post; 13.	
3868 *C 1624.1*	--Rear, 178 meters 105° from front.	55° 02.1′ N 10° 40.3′ E	**F.R.**	62 **19**		White post; 20.	
	-Kristiansminde:						
3876 *C 1606*	--N. and E., common front.	55° 04.0′ N 10° 38.0′ E	**F.W.R.G.**	13 **4**	W. 12 R. 8 G. 8	Red and white post.	G. 263-082°, W. 090°30′, R.-175°30′.
3878 *C 1606.1*	---N. Range, rear, 108 meters 346° from common front.	55° 03.6′ N 10° 38.3′ E	**F.G.**	23 **7**	10	Red and white post.	
3880 *C 1605.9*	---E. Range, rear, 185 meters 084° from common front.	55° 03.6′ N 10° 38.5′ E	**F.W.**	24 **7**	13	Red and white post.	
	-Svendborg Havn:						
3884 *C 1600*	--Frederikso, E. point.	55° 04.0′ N 10° 37.0′ E	**Fl.R.** period 3s	22 **7**	3	White post on corner of hut.	
3888 *C 1591*	-St. Jorgens.	55° 02.9′ N 10° 35.8′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	27 **8**	W. 10 R. 7 G. 7	White hut, red band.	G. 053°30′-058°30′, W.-060°30′, R.-066°.
3892 *C 1594.6*	-Vindebyore Range, N. front, close N. of Vindeby.	55° 03.0′ N 10° 38.0′ E	**Iso.W.** period 2s	13 **4**	13	White post, red band; 10.	
3896 *C 1594.7*	--Rear, 203 meters 061° from front.	55° 03.3′ N 10° 37.6′ E	**Iso.W.** period 4s	33 **10**	13	White post, red band; 30.	Synchronized.
3900 *C 1595*	-East Bratten Range, front.	55° 03.0′ N 10° 37.0′ E	**F.G.**	31 **9**	9	White post, red band, white triangular daymark, point up; 16.	
3904 *C 1595.1*	--Rear, 130 meters 205° from front.	55° 02.8′ N 10° 36.6′ E	**F.G.**	49 **15**	9	White post, red band, white triangular daymark, point down; 13.	
3908 *C 1594.2*	-West Bratten Range, front.	55° 03.0′ N 10° 36.0′ E	**Iso.G.** period 2s	13 **4**	9	White post, red band, white triangular daymark, point up; 13.	
3912 *C 1594.3*	--Rear, 152 meters 068°30′ from front.	55° 02.8′ N 10° 36.5′ E	**Iso.G.** period 4s	27 **8**	9	White post, red band, white triangular daymark, point down; 16.	Synchronized.
3916 *C 1594*	-Tankefuld Range, front.	55° 02.0′ N 10° 34.0′ E	**F.R.**	10 **3**	9	White post, red band; 10.	
3920 *C 1594.1*	--Rear, 56 meters 269° from front.	55° 02.4′ N 10° 33.9′ E	**F.R.**	18 **5**	9	White post, red band; 16.	
3924 *C 1022*	-Baekkehave, NW. side of Tassinge.	55° 01.0′ N 10° 33.0′ E	**Oc.W.R.G.** period 5s lt. 3s, ec. 2s	20 **6**	W. 12 R. 8 G. 8	Gable of white wooden house, red band; 19.	G. 095°-100°, W.-105°, R.-107°.
3924.5	-Vesterron, E. mole.	55° 02.0′ N 10° 32.0′ E	**F.G.**	13 **4**	3	Gray mast; 10. Floodlit.	
3924.7	-Ratzausminde.	55° 02.0′ N 10° 32.5′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	15 **5**	3	Green mast; 13.	

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			DENMARK-STORE BAELT (GREAT BELT)				
3925	-Rantzavsminde.	55° 02.1′ N 10° 32.7′ E	**F.R.**	16 **5**	4	Red pipe; 8.	
	FYN:						
3926	-Ballen.	55° 02.0′ N 10° 28.0′ E	**F.R.**	16 **5**	2	Red mast; 13.	
3927 *C 1021.4*	-Skaro cable Range, front.	55° 00.7′ N 10° 28.2′ E	**F.R.**	26 **8**	4	Beacon.	Visible 124°-304°. Shown by day.
3927.1 *C 1021.41*	- -Rear, 120 meters 214° from front.	55° 00.5′ N 10° 28.2′ E	**F.R.W.** (vert.)	39 **12** 33 **10**	4	Beacon.	Visible 124°-304°. Shown 24 hours.
	LANGELAND:						
3928 *C 1673.6*	-Langelandsbaelt S.	54° 48.2′ N 10° 50.3′ E	**Fl.R.G.** period 3s fl. 0.7s, ec. 2.3s	33 **10**	R. 5 G. 5	Red pole with platform; 33.	R. 024°30′-181°30′, G.-024°30′.
	-RACON		**O(– – –)** period 80s		10		
3932 *C 1673.3*	-Hojbjerg E.	54° 53.0′ N 10° 50.0′ E	**Fl.R.G.** period 5s fl. 1s, ec. 4s	33 **10**	R. 5 G. 5	Green pole with platform; 33.	R. 002°30′-201°, G.-002°30′.
	-RACON		**G(– – •)** period 80s		10		
3936 *C 1671*	-Spodsbjaerg Ferry Harbor.	54° 56.0′ N 10° 50.0′ E	**Fl.G.** period 3s	16 **5**	2	White steel post; 10.	
3940 *C 1671.7*	- -Range, front.	54° 56.1′ N 10° 50.0′ E	**F.R.**	23 **7**	4	Gray lattice mast, red triangular daymark, point up; 33.	
3944 *C 1671.71*	- - -Rear, 95 meters 286°30′ from front.	54° 56.2′ N 10° 50.0′ E	**F.R.**	30 **9**	4	Gray lattice mast, red triangular daymark, point down; 33.	
3948 *C 1671.65*	- -Fishing harbor, N. pier, head.	54° 56.0′ N 10° 50.2′ E	**F.G.**	18 **5**	4	Green mast; 16. Floodlit.	F.R. 4M marks S. pier head.
3952 *C 1673*	-Spodsbjerg SE.	54° 55.0′ N 10° 51.0′ E	**Fl.W.R.G.** period 3s fl. 0.7s, ec. 2.3s	33 **10**	W. 8 R. 5 G. 5	Yellow tubular mast, platform; 33.	R. 001°30′-217°, G.-231°, W.-235°, R.-240°, G.-001°30′.
3956 *C 1672.5*	-Bostrup E.	55° 02.8′ N 10° 59.3′ E	**Fl.R.G.** period 5s fl. 1s, ec. 4s	33 **10**	R. 5 G. 5	Green pole, platform; 33.	R. 009°30′-179°, G.-009°30′.
	-RACON		**K(– • –)** period 80s		10		
3960 *C 1672*	-Langelandsbaelt N.	55° 08.0′ N 11° 00.0′ E	**Fl.R.G.** period 3s fl. 0.7s, ec. 2.3s	33 **10**	R. 5 G. 5	Red pole, platform; 33.	R. 001°30′-180°, G.-001°30′.
3964 *C 1668*	**-Hov.**	55° 09.0′ N 10° 57.0′ E	**Iso.W.R.G.** period 4s	39 **12**	W. **16** R. 12 G. 12	White round tower, red band; 40.	R. 210°-226°30′, G.-232°30′, W.-237°, R.-308°30′, G.-341°, W.-346°, R.-010°.
3968 *C 1656*	-Frankeklint.	55° 10.0′ N 10° 56.0′ E	**Oc.R.G.** period 5s lt. 4s, ec. 1s	52 **16**	R. 7 G. 7	Gable of white building; 13.	G. 039°-047°, R.-151°, G.-178°, R.-219°.
	-Lohals Havn:						
3972 *C 1658*	- -Near root of S. mole.	55° 08.0′ N 10° 54.0′ E	**Iso.W.R.G.** period 2s	26 **8**	W. 12 R. 8 G. 8	White square tower; 30.	G. 031°-095°, W.-101°, R.-182°.
3976 *C 1660*	- -Outer breakwater, head.	55° 08.0′ N 10° 54.0′ E	**F.R.**			White post; 7.	

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	DENMARK-STORE BAELT (GREAT BELT)						
3980 *C 1661*	--90 meters 234° from root of S. mole.	55° 08.1′ N 10° 54.1′ E	**F.G.**	16 **5**	1	Black post; 7.	
3984 *C 1662*	-Dagelokke Havn Range, front.	55° 04.0′ N 10° 52.0′ E	**F.G.**	16 **5**	4	Gray post; 12.	Visible 052°06′-192°06′. Shown Apr. 1 to Nov. 15.
3988 *C 1662.1*	--Rear, 77 meters 122°06′ from front.	55° 03.8′ N 10° 51.8′ E	**F.G.**	25 **8**	4	Post on white hut.	Visible 052°06′-192°06′. Shown Apr. 1 to Nov. 15.
	RUDKOBING LOB:						
3992 *C 1674*	-NE. Sio, Range front.	54° 58.0′ N 10° 42.0′ E	**Iso.W.** period 2s	13 **4**	4	White post, red triangular daymark, white center stripe, point up; 16.	
3996 *C 1674.1*	--Rear, 454 meters 205°24′ from front.	54° 57.2′ N 10° 41.7′ E	**Iso.W.** period 4s	39 **12**	4	Latticework mast, red triangular daymark, white center stripe, point down; 33.	
4000 *C 1686*	-Range, front.	54° 57.0′ N 10° 43.0′ E	**Iso.G.** period 2s	36 **11**	4	Mast, white triangular daymark, orange border; 23.	
4004 *C 1686.1*	--Rear, 456 meters 167°36′ from front.	54° 56.5′ N 10° 43.1′ E	**Iso.G.** period 4s	56 **17**	4	Framework mast, white triangular daymark, point down, orange border; 43.	
4008 *C 1690*	-N. mole Range, front.	54° 56.0′ N 10° 42.0′ E	**F.R.**	20 **6**		Gray framework mast, red triangular daymark, point up.	
4012 *C 1690.1*	--Rear, 214 meters 188°42′ from front.	54° 56.3′ N 10° 42.4′ E	**F.R.**	46 **14**	4	Gray framework mast, red triangular daymark, point down.	
	-Rudkobing Havn:						
4016 *C 1702*	--S. Channel Range, front.	54° 56.3′ N 10° 42.2′ E	**F.R.**	16 **5**	4	Gray metal mast, red triangular daymark, point up; 10.	
4020 *C 1702.1*	---Rear, 122 meters 053°42′ from front.	54° 56.3′ N 10° 42.3′ E	**F.R.**	29 **9**	4	Square mast, red triangular daymark, point down.	
4024 *C 1680*	-Sio Range, front.	54° 57.0′ N 10° 42.0′ E	**Iso.W.** period 2s	49 **15**	5	Gray metal mast, red triangular daymark, point up, white center stripe; 10.	
4028 *C 1680.1*	--Rear, 322 meters 032°54′ from front.	54° 57.2′ N 10° 42.3′ E	**Iso.W.** period 4s	66 **20**	6	White post, red triangular daymark, point down, white center stripe; 59.	
4032 *C 1645*	**Lindeskov Range,** front.	55° 16.1′ N 11° 14.5′ E	**Iso.W.** period 2s	23 **7**	**20**	White metal structure, red band; 13.	Visible 107°-113°.
4036 *C 1645.1*	-Rear, 500 meters 110°06′ from front.	55° 16.0′ N 11° 14.9′ E	**Iso.W.** period 4s	69 **21**	**20**	White latticework mast, red band; 56.	Visible 107°-113°.
4040 *C 1649.7*	Agerso Sund, Gulf oil pier.	55° 12.0′ N 11° 16.0′ E	**Oc.W.R.G.** period 10s lt. 8s, ec. 2s	39 **12**	W. 4 R. 2 G. 2	Tubular pillar; 33.	G. 101°36′-108°18′, W.-115°, R.-121°36′. Occasional. Private light.
4044 *C 1644.42*	Stignaes oil pier, head.	55° 12.0′ N 11° 15.0′ E	**F.R.**	16 **5**	4		F.R. shown from each berthing dolphin.
4048 *C 1649.4*	-Stignaes Range, front.	55° 13.0′ N 11° 14.0′ E	**F.R.**	13 **4**	4	Mast, round disk daymark; 13.	Marks cable to Agerso.
4052 *C 1649.41*	--Rear, 165 meters 080° from front.	55° 13.2′ N 11° 14.7′ E	**F.W.R.** (vert.)	30 **9** 20 **6**	4	Mast, round disk over diamond daymarks; 26.	
4056 *C 1650*	Gedehave, Range, front.	55° 15.0′ N 11° 14.0′ E	**F.R.**	13 **4**	4	White mast, red and white striped triangular daymark.	
4060 *C 1650.1*	-Rear, 153 meters 156° from front.	55° 14.7′ N 11° 14.3′ E	**F.R.**	29 **9**	4	White mast, triangular daymark, red and white.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-STORE BAELT (GREAT BELT)				
4064 *C 1645.4*	-W. Range, front.	55° 15.0′ N 11° 14.0′ E	**Iso.G.** period 2s	20 **6**	9	White oval pedestal, red band; 7.	Visible 136°30′-142°30′.
4068 *C 1645.5*	- -Rear, 560 meters 139°30′ from front.	55° 14.4′ N 11° 14.5′ E	**Iso.G.** period 4s	52 **16**	9	White structure, red band; 33.	Visible 136°30′-142°30′.
4072 *C 1647*	Egholm Range, front.	55° 14.0′ N 11° 11.0′ E	**Iso.G.** period 2s	16 **5**	9	White structure, red band; 16.	Visible 318°-324°.
4076 *C 1647.1*	-Rear, 520 meters 321° from front.	55° 14.8′ N 11° 10.6′ E	**Iso.G.** period 4s	56 **17**	9	White latticework mast, red band; 47.	Visible 318°-324°.
4080 *C 1534.6*	Egholm Flak.	55° 15.5′ N 11° 05.9′ E	**Fl.R.G.** period 3s fl. 0.8s, ec. 2.2s	33 **10**	R. 6 G. 5	Red tubular mast, platform, ; 33.	G. 158°-345°, R.-158°.
4084 *C 1534.7*	Vengeancegrund.	55° 13.8′ N 11° 05.5′ E	**Fl.(2)W.R.G.** period 5s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 2.6s	33 **10**	W. 8 R. 6 G. 5	Green tubular mast, platform, 33.	G. 157°-305°30′, W.-309°, R.-314°, G.-355°, R.-157°.
4088 *C 1534.8*	Agerso Flak.	55° 12.5′ N 11° 06.7′ E	**Fl.(3)W.R.G.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 **10**	W. 8 R. 6 G. 5	Red tubular mast, platform; 33.	G. 164°-050°, W.-060°, R.-164°.
	RACON		**Z(– – • •)** period 60s		10		
	AGERSO:						
4092 *C 1648*	-Helleholm.	55° 11.0′ N 11° 13.0′ E	**Oc.(3)W.R.G.** period 15s	39 **12**	W. 12 R. 8 G. 8	White square tower, gray lantern; 39.	R. 170°-081°, G.-102°, W.-105°, R.-125°. Obscured by Omo 036°-064°, and by a mill when bearing 280°.
4096 *C 1646*	-Range, front.	55° 12.0′ N 11° 13.0′ E	**Iso.W.** period 2s	23 **7**	**18**	White structure, red band; 13.	Visible 170°30′-176°30′.
4100 *C 1646.1*	- -Rear, 640 meters 173°30′ from front.	55° 11.2′ N 11° 12.9′ E	**Iso.W.** period 4s	56 **17**	**18**	White latticework mast, red band; 47.	Visible 170°30′-176°30′.
4108 *C 1643*	-Vinkelfyr.	55° 11.9′ N 11° 10.6′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	36 **11**	W. 13 R. 9 G. 9	White lattice mast.	G. 318°-328°, W.-332°. R.-032°, G.-060°. Shown by day.
4116 *C 1642*	-N. mole.	55° 13.0′ N 11° 12.0′ E	**F.G.**	14 **4**	2	White metal column.	
	OMO:						
4120 *C 1640*	**-Langelands Ore.**	55° 10.0′ N 11° 08.0′ E	**Oc.(2)W.R.G.** period 12s lt. 2s, ec. 2s lt. 6s, ec. 2s	69 **21**	W. **18** R. 13 G. 13	Yellow round tower, white cupola; 72.	G. 266°-271°, W.-283°, R.-291°, G.-296°, W.-304°30′, R.-006°, G.-101°, W.-104°, R.-118°, G.-133°, W.-138°30′, R.-146°, G.-162°, W.-165°30′, R.-183°, G.-220°.
4124 *C 1638*	-Omo Havn.	55° 10.0′ N 11° 10.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	16 **5**	W. 6 R. 4 G. 4	Green metal structure; 10.	W. 146°-180°, R.-228°, G.-146°. Shown from Aug. 1 to Mar. 31.
4128 *C 1641*	-Omo Range, front.	55° 10.0′ N 11° 10.0′ E	**F.R.**	16 **5**	10	Pole, white disk daymark.	Visible 177°-237°.
4132 *C 1641.1*	- -Rear, 207° from front.	55° 10.3′ N 11° 10.3′ E	**F.W.R.** (vert.)	46 **14**	8	Pole, white disk over diamond daymark.	Visible 177°-237°.
	ONSEVIG HAVN:						
4136 *C 1730*	-W. mole, head.	54° 57.0′ N 11° 06.0′ E	**F.R.**	12 **4**	2	Post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK-STORE BAELT (GREAT BELT)						
4140 *C 1726*	-N. corner of harbor Range, front.	54° 57.0′ N 11° 07.0′ E	**F.G.**	13 **4**	4	Wooden mast.	
4144 *C 1726.1*	--Rear, S. mole, 112 meters 158° from front.	54° 56.8′ N 11° 06.5′ E	**F.G.**	26 **8**	4	Wooden mast.	
4148 *C 1720.4*	-Lango Range, front.	54° 49.0′ N 11° 00.0′ E	**F.R.**	26 **8**	6	Red post, orange triangular daymark, point up; 19.	Visible 161°30′-191°30′.
4152 *C 1720.41*	--Rear, 365 meters 176°30′ from front.	54° 49.0′ N 10° 59.8′ E	**F.R.**	33 **10**	6	Red post, orange triangular daymark, point down; 33.	Visible 161°30′-191°30′.
4160 *C 1716.1*	-Albuen.	54° 50.3′ N 10° 57.8′ E	**Iso.W.R.G.** period 8s	37 **11**	W. 13 R. 9 G. 9	White round tower; 43.	R. 332°30′-053°30′, G.-108°30′, W.-163°, R.-283°.
4164 *C 1718*	-Enehoje Islet Range, front.	54° 50.0′ N 11° 01.0′ E	**Iso.W.** period 2s	53 **16**	8	Orange tripod, triangular daymark, point up; 52.	
4168 *C 1718.1*	--Rear, 380 meters 119°24° from front.	54° 50.2′ N 11° 01.2′ E	**Iso.W.** period 4s	72 **22**	8	Orange framework mast, triangular daymark, point down; 72.	
4168.5 *C 1718.3*	-Enehoje S. Range, front.	54° 50.0′ N 11° 01.1′ E	**Iso.G.** period 2s	26 **8**	4	Pile, red triangular daymark, point up; 13.	
4168.51 *C 1718.31*	--Rear, 094°30′ from front.	54° 50.0′ N 11° 01.2′ E	**Iso.G.** period 4s	36 **11**	4	Framework mast, red triangular daymark, point down; 30.	
4170 *C 1712*	-Taars Ferry Range, front.	54° 53.0′ N 11° 02.0′ E	**F.R.**	33 **10**	8	Gray framework mast, orange triangular daymark; 23.	
4171 *C 1712.1*	--Rear, 085° from front.	54° 52.6′ N 11° 02.1′ E	**F.R.**	46 **14**	8	Gray framework mast, orange triangular daymark, point down; 49.	
4172 *C 1719*	-Ramso Range, common front.	54° 50.0′ N 11° 02.0′ E	**F.W.G.**	10 **3**	W. 8 G. 6	Orange triangular daymark, point up, on concrete base; 3.	W. 259°-274°, G.-259°.
4176 *C 1718.9*	--Bogo, rear, 997 meters 131°30′ from common front.	54° 49.1′ N 11° 02.2′ E	**F.G.**	33 **10**	6	Framework mast, orange triangular daymark, point down; 29.	
4180 *C 1719.1*	-Vesteroode, rear, 2.47 km. 264° from common front.	54° 49.0′ N 10° 59.0′ E	**F.W.**	33 **10**	9	Framework mast, orange triangular daymark, point down; 29.	Leads through dredged channel to Barneholm, F.R. light is shown from head of E. mole at Lango Havn.
4184 *C 1719.4*	-Rosnaes Range, front.	54° 50.0′ N 11° 07.0′ E	**F.G.**	26 **8**	5	Gray pole, orange triangular daymark, point up; 29.	Visible 048°30′-078°30′.
4188 *C 1719.41*	--Rear, 400 meters 063°30′ from front.	54° 50.1′ N 11° 06.9′ E	**F.G.**	39 **12**	5	Gray pole, orange triangular daymark, point down; 33.	Visible 048°30′-078°30′.
	LANGELAND:						
4192 *C 1706*	**-Keldsnor.**	54° 43.9′ N 10° 43.4′ E	**Fl.(2)W.** period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	128 **39**	**25**	White square tower; 111.	Visible 200°-116°. Obscured in places 098°-135°.
	-Auxiliary.		**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	72 **22**	W. 12 R. 9 G. 9	Same structure.	G. 218°-222°, W.-226°, R.-230°.
4196 *C 1708*	-Bagenkop Havn.	54° 45.2′ N 10° 40.2′ E	**Fl.G.** period 3s	20 **6**	4	Green lattice mast; 33.	**Siren:** 1 bl. ev. 30s.
4197 *C 1708.5*	--E. pier, head.	54° 45.2′ N 10° 40.4′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	21 **6**	4	Red lattice mast; 11.	
4208 *C 1710*	--Range, front.	54° 45.2′ N 10° 40.5′ E	**Iso.W.R.G.** period 4s	33 **10**	W. 8 R. 5 G. 5	Gray lattice mast, red triangular daymark, point up; 25.	G. 079°-099°, W.-106°, R.-126°.
4212 *C 1710.1*	---Rear, 102°18′ from front.	54° 45.2′ N 10° 40.6′ E	**Iso.W.** period 4s	43 **13**	6	Gray lattice mast, red triangular daymark, point down; 49.	Visible 077°18′-127°18′. Synchronized with front.

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	DENMARK-STORE BAELT (GREAT BELT)						
4216 *C 1732*	**Vejro.**	55° 02.0′ N 11° 22.0′ E	**Oc.W.R.G.** period 5s	62 **19**	W. **16** R. 12 G. 12	White hexagonal tower; 52.	G. 154°-198°, W.-215°, R.-240°30′, G.-270°, W.-278°, R.-287°, G.-304°, R.-320°, G.-079°30′, W.-089°30′, R.-106°, G.-143°, W.-146°, R.-154°. May be obscured from 330°-063°.
4220 *C 1723*	-Range, front.	54° 55.0′ N 11° 21.0′ E	**F.R.**	13 **4**	8	Tripod, round daymark; 13.	Visible 184°30′-244°30′. Marks cable to Fejo.
4224 *C 1723.1*	- -Rear, 94 meters 214°30′ from front.	54° 55.1′ N 11° 21.2′ E	**F.R.W.** (vert.)	26 **8** 20 **6**	8	Metal framework tower, round daymark over diamond daymark; 23.	Visible 184°30′-244°30′.
	FEMO HAVN:						
4228 *C 1742*	-ESE. of harbor Range, front.	54° 58.0′ N 11° 31.0′ E	**F.W.**	10 **3**		Tripod; 7.	
4232 *C 1744*	- -Rear, 70 meters 098° from front.	54° 58.3′ N 11° 31.1′ E	**F.W.**	20 **6**		Tripod; 7.	
4236 *C 1740*	-W. mole.	54° 58.3′ N 11° 30.8′ E	**F.R.**	14 **4**		Brown pole; 10.	Visible 338°-146°.
	DENMARK-SMAALANDS FARVANDET						
4240 *C 1734*	Skalo Harbor, W. mole, head.	54° 57.0′ N 11° 22.0′ E	**F.W.**	10 **3**	2	Tower, red and white stripes.	
4244 *C 1735*	Vesterby Havn, pier, head.	54° 56.0′ N 11° 22.0′ E	**F.R.**	16 **5**	2	Gray pole; 10.	Visible 315°-135°.
4248 *C 1752*	Bandholm Channel Range, front.	54° 53.0′ N 11° 27.0′ E	**Iso.W.** period 2s	20 **6**	5	White post, red triangular daymark, point up; 16.	Visible 298°-328°.
4252 *C 1752.1*	-Rear, 130 meters 313° from front.	54° 53.1′ N 11° 27.1′ E	**Iso.W.** period 4s	49 **15**	5	White post, red triangular daymark, point down; 23.	Visible 298°-328°.
	FEJO HAVN:						
4256 *C 1736*	-Range, front.	54° 57.0′ N 11° 26.0′ E	**F.R.**			Warehouse.	
4260 *C 1736.1*	- -N. of harbor, rear, 347° from front.	54° 56.8′ N 11° 26.1′ E	**F.R.**			Post.	
	ASKO HAVN:						
4264 *C 1748*	-E. mole, head.	54° 53.0′ N 11° 29.0′ E	**F.G.**	16 **5**	4	Square post.	Shown August 1 to May 1.
4268 *C 1749*	-W. mole, head.	54° 53.1′ N 11° 29.0′ E	**F.R.**	16 **5**	4	Square post.	Shown August 1 to May 1.
	BANDHOLM HAVN:						
4272 *C 1760*	-N. mole, head.	54° 50.4′ N 11° 29.6′ E	**Fl.G.** period 3s	13 **4**	3	Black post.	
4276 *C 1762*	-S. mole, head.	54° 50.3′ N 11° 29.6′ E	**Fl.R.** period 3s	13 **4**	3	Black post.	
4280 *C 1770*	-Eastern Range, front.	54° 49.9′ N 11° 29.5′ E	**Iso.R.** period 2s	26 **8**	3	White beacon, red triangular daymark, point up.	

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	DENMARK-SMAALANDS FARVANDET						
4284 *C 1770.1*	--Rear, 550 meters 201° from front.	54° 49.7′ N 11° 29.3′ E	**Iso.R.** period 4s	66 **20**	3	On castle roof.	
	SJAELLAND:						
4288 *C 1788*	-Karrebaeksminde.	55° 10.6′ N 11° 38.6′ E	**Oc.W.R.G.** period 10s lt. 8s, ec. 2s	30 **9**	W. 9 R. 7 G. 7	Gray framework mast; 23.	G. 326°-028°30′, W.-067°30′, R.-090°.
4290 *C 1789*	--N. mole, head.	55° 10.5′ N 11° 38.2′ E	**Fl.R.** period 3s	13 **4**	5	Red pipe; 7.	
4292 *C 1792*	--S. mole, head.	55° 10.5′ N 11° 38.3′ E	**Fl.G.** period 3s	13 **4**	5	Green pipe; 7.	
	STORSTROM:						
4296 *C 1798*	-Ore, W. of Vordingborg.	55° 00.0′ N 11° 52.0′ E	**Iso.W.R.G.** period 4s	43 **13**	W. 14 R. 10 G. 10	White rectangular tower, red band; 43.	G. 050°-091°, W.-094°, R.-108°.
4300 *C 1800*	-Orehoved Havn Range, front.	54° 58.0′ N 11° 51.0′ E	**Iso.R.** period 2s	23 **7**	2	Post, red triangular daymark point up.	
4304 *C 1800.1*	--Rear, head of pier, 108 meters 272°30′ from front.	54° 57.6′ N 11° 51.1′ E	**Iso.W.R.G.** period 4s	36 **11**	W. 12 R. 8 G. 8	White tower; 36.	G. 110°-158°, W.-171°, R.-290°.
4316 *C 1796*	-Masnedsund Range, front.	55° 00.0′ N 11° 54.0′ E	**F.G.**	23 **7**	8	Third pile of bridge.	
4320 *C 1796.1*	--Rear, 406 meters 113°30′ from front.	54° 59.8′ N 11° 53.8′ E	**F.G.**	72 **22**	8	On silo.	
4324 *C 1802*	--Bridge.	54° 58.0′ N 11° 53.0′ E	**F.W., F.R., F.G.**			Dolphins.	The piers of northern and middle arch spans are marked by F.G. and F.R. lights. **Siren:** (between spans) 1 bl. ev. 30s.
4328 *C 1804*	-Masnedo E. of railway bridge Range, front.	55° 00.0′ N 11° 54.0′ E	**F.G.**	26 **8**	4	Post; 3.	
4332 *C 1804.1*	--Rear, 60 meters 294°30′ from front.	54° 59.7′ N 11° 53.8′ E	**F.G.**	39 **12**	4	Post; 22.	Not shown when channel is blocked by ice.
	-Vordingborg:						
4336 *C 1814*	--On quay Range, front.	55° 00.0′ N 11° 55.0′ E	**F.R.**	13 **4**	2	Brown metal column; 10.	
4340 *C 1814.1*	---Rear, 103 meters 308° from front.	55° 00.3′ N 11° 54.9′ E	**F.R.**	26 **8**	2	Post; 23.	2 F.W. range lights are shown at Oringe when automobile ferry is operating.
4344 *C 1815*	-Water tower.	55° 01.0′ N 11° 55.0′ E	**F.R.**	171 **52**	7	Water tower; 164.	
	GRONSUND:						
	-Stubbekobing:						
4348 *C 1856*	--W. of village.	54° 54.0′ N 12° 02.0′ E	**Iso.W.R.G.** period 4s	16 **5**	W. 14 R. 10 G. 10	White house, red band.	G. 147°-150°, W.-152°, R.-179°.
4352 *C 1857*	--W. mole Range, front.	54° 53.6′ N 12° 02.8′ E	**F.G.**	10 **3**		Post; 5.	Visible 086°-266°. For dredged channel. Shown when harbor is clear of ice. **Siren:** 1 bl. ev. 20s.
4356 *C 1857.1*	---Rear, 130 meters 176° from front.	54° 53.5′ N 12° 02.8′ E	**F.G.**	23 **7**		Gray lattice mast; 23.	Visible 086°-266°.

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			DENMARK-SMAALANDS FARVANDET				
4360 *C 1854*	-Bogo Havn Range, front.	54° 55.0′ N 12° 03.0′ E	**F.G.**	33 **10**		Post, orange triangular topmark, point up.	
4364 *C 1854.1*	--Rear, 355° from front.	54° 54.8′ N 12° 03.1′ E	**F.G.**	39 **12**		Post, orange triangular daymark, point down.	
	KALVEHAVE HAVN:						
4368 *C 1844*	-E. mole, head.	55° 00.0′ N 12° 10.0′ E	**F.G.**	13 **4**	4	Wood post; 10.	
4372 *C 1845*	-SW. mole, head.	54° 59.7′ N 12° 10.1′ E	**F.R.**	13 **4**	4	Wood post; 7.	
4376 *C 1846*	-W. mole, head.	55° 00.0′ N 12° 10.0′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	13 **4**	4	Wood post; 7.	**Siren:** (on Ulvsand bridge 500 meters SW.) 1 bl. ev. 30s.
	STEGE HAVN:						
4380 *C 1826*	-N. Harbor.	54° 59.0′ N 12° 17.0′ E	**F.R.**	8 **2**		White post; 3.	
4384 *C 1828*	--S. mole, head.	54° 59.1′ N 12° 16.9′ E	**F.G.**	8 **2**		White post; 3.	
4388 *C 1832*	-W. side of harbor.	54° 59.0′ N 12° 16.9′ E	**Oc.W.R.G.** period 5s	20 **6**		Green square tower on warehouse; 23.	G. 130°-138°30′, W.-145°, R.-154°.
4392 *C 1838*	Nyord, W. mole.	55° 02.4′ N 12° 11.7′ E	**F.R.**	7 **2**	4	Black mast.	
4394	*Rodby Harbor Approach Buoy.*	54° 38.3′ N 11° 19.2′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
	RACON		**Long dash (—)** period 120s		10		
			DENMARK-BALTIC SEA				
	LOLLAND:						
	-Rodby Havn:						
4396 *C 2216*	--Entrance Range, front.	54° 39.2′ N 11° 21.0′ E	**Iso.R.** period 2s	56 **17**	6	Red lattice mast, red triangular daymark, point up.	
4400 *C 2216.1*	---Rear, 410 meters 045°12′ from front.	54° 39.3′ N 11° 21.3′ E	**Iso.R.** period 4s	85 **26**	6	Gray framework tower, white triangular daymark, point down.	Synchronized with front.
4404 *C 2218*	--W. mole, head.	54° 39.1′ N 11° 20.8′ E	**F.R.**	26 **8**	5	Red framework tower; 16. Floodlit.	
4408 *C 2218.2*	--E. mole, head.	54° 39.0′ N 11° 20.8′ E	**F.G.**	26 **8**	5	Green framework tower on hut; 18. Floodlit.	**Horn:** 1 bl. ev. 20s.
4420 *C 2210*	-Nysted, Skansehage, S. of harbor.	54° 39.0′ N 11° 44.0′ E	**F.W.**	33 **10**	6	Tripod; 20.	Intensified 000°-005°.
	-Rodsand Rende:						
4424 *C 2188*	--S. head.	54° 32.8′ N 11° 56.2′ E	**Fl.(3)R.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 **13**	10	Red pillar and lantern; 46. Floodlit.	Reserve light range 5M. **Horn:** 3 bl. ev. 30s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 20s). **Fog detector light.**
	--RACON		**T(–)** period 120s		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-BALTIC SEA				
4428 *C 2192*	---N. head.	54° 33.9′ N 11° 55.8′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	8	Gray post.	**Radar reflector.**
4436 *C 2186*	**Gedser (Gjedser) Odde.**	54° 33.9′ N 11° 57.9′ E	**Fl.(3)W.** period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	85 **26**	**24**	White hexagonal tower; 65.	
	RACON		**G(– – •)** period 40s		**20**		
	GEDSER HAVN:						
4440 *C 2196*	--Range, front, E. mole.	54° 34.0′ N 11° 56.0′ E	**Iso.W.** period 2s	56 **17**	9	Gray framework mast; 49.	Visible 280°30′-060°30′. Shows toward Rodsand channel.
4444 *C 2196.1*	-N. of harbor, rear, 376 meters 350°30′ from front.	54° 34.5′ N 11° 55.6′ E	**Iso.W.** period 2s	85 **26**	9	Gray framework mast; 98.	Visible 280°30′-060°30′. Synchronized with front.
4448 *C 2202*	-W. mole, head.	54° 34.3′ N 11° 55.6′ E	**F.R.**	23 **7**		Gray post; 16.	F.Y. shown in fog.
4452 *C 2203*	-E. mole, head.	54° 34.0′ N 11° 56.0′ E	**F.G.**	23 **7**		Small house.	F.Y. shown in fog. **Bell:** occasional
4460 *C 2180*	Hesnaes Havn Range, front.	54° 49.0′ N 12° 08.0′ E	**F.R.**	16 **5**		White post; 20.	
4464 *C 2180.1*	-Inner part of NE. mole, 100 meters 018°30′ from front.	54° 49.4′ N 12° 08.4′ E	**F.R.**	20 **6**		White post; 23.	
	GRONSUND:						
4468 *C 2152*	-Hestehoved, S. point of entrance.	54° 50.1′ N 12° 09.9′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	45 **14**	W. 13 R. 9 G. 9	White stone building; 14.	R. 216°30′-264°, G.-290°, W.-342°, R.-007°, G.-024°.
4472 *C 2166*	-Range, S. side of entrance, front, near pilots′ tower.	54° 53.0′ N 12° 07.0′ E	**Iso.W.** period 2s	39 **12**	9	White tower, red triangular daymark; 43.	Intensified 319°-329°.
4476 *C 2166.1*	--Rear, 520 meters 324° from front.	54° 53.2′ N 12° 06.9′ E	**Iso.W.** period 4s	66 **20**	13	Gray metal framework tower, triangular daymark, red and white bands, point down; 62.	Intensified 319°-329°.
4480 *C 2178*	-Borgsted, SW. point of Mon.	54° 54.0′ N 12° 06.0′ E	**Oc.W.R.G.** period 5s lt. 3s, ec. 2s	11 **3**	W. 11 R. 8 G. 8	White house, red band; 12.	G. 317°-320°, W.-323°, R.-332°30′.
4484 *C 2155.4*	-Harbolle.	54° 53.5′ N 12° 08.2′ E	**Oc.W.R.G.** period 10s lt. 8s, ec. 2s	20 **6**	10	Framework tower, red and white triangular daymark, point up; 23.	G. 064°-101°30′, W.-106°30′, R.-117°.
4487 *C 2154.9*	-S. Range, front.	54° 53.0′ N 12° 09.0′ E	**Iso.G.** period 2s	33 **10**	7	Gray framework tower, red and white triangular daymark, point up; 23.	Intensified 347°30′-359°30′.
4488 *C 2155*	--Rear, 480 meters 353°30′ from front.	54° 53.3′ N 12° 08.8′ E	**Iso.G.** period 4s	69 **21**	G. 8	Framework tower, red and white triangular daymark, point down; 33.	Intensified 348°30′-358°30′.
4500 *C 2146*	Klintholm Havn.	54° 57.0′ N 12° 28.0′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	13 **4**	4	Post; 10.	
4504 *C 2148*	-S. mole, head.	54° 57.1′ N 12° 27.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	4	White pedestal; 10.	**Siren:** 1 bl. ev. 30s. Occas.
4508 *C 2142*	**Mon.**	54° 57.0′ N 12° 32.0′ E	**Fl.(4)W.** period 30s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	82 **25**	**22**	Square yellow tower; 43.	Visible 214°-071° and in Hjelm Bay.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-BALTIC SEA				
4512 *C 2144*	Hellehavn Nakke, NE. point of Mon.	55° 00.0′ N 12° 31.0′ E	**Fl.W.R.G.** period 5s fl. 1s, ec. 4s	131 **40**	W. 12 R. 8 G. 8	White and red banded tower; 20.	G. 140°-164°, W.-280°, R.-320°.
4514	*Buoy DW-79.*	54° 46.1′ N 12° 44.1′ E	**Fl.(3)G.** period 10s			STARBOARD (A) G, conical.	
	RACON		**Z(– – • •)** period 60s		10		
	FAKSE (FAXE) HAVN:						
4524 *C 2102*	-E. pier, head.	55° 12.7′ N 12° 10.1′ E	**Fl.G.** period 3s	26 **8**	3	Green pole; 16.	
4528 *C 2104*	-Range, front.	55° 12.8′ N 12° 09.7′ E	**F.R.**	26 **8**	3	Red pole, red triangular daymark, point up; 33.	Visible 233°-098°. Shown 24 hours.
4532 *C 2104.1*	- -Rear, 111 meters 345°30′ from front.	55° 12.8′ N 12° 09.7′ E	**F.R.**	33 **10**	3	Red pole, red triangular daymark, point down; 46.	Visible 233°-098°. Shown 24 hours.
4536 *C 2112*	Feddet Range, front.	55° 10.3′ N 12° 06.2′ E	**Iso.W.** period 2s	23 **7**	11	White trellis mast; 20.	Intensified 246°-256°. Shown Apr. 15 to Nov. 15.
4540 *C 2112.1*	-Rear, 260 meters 251° from front.	55° 10.3′ N 12° 06.1′ E	**Iso.W.** period 4s	42 **13**	11	White framework mast; 33.	Intensified 246°-256°. Shown Apr. 15 to Nov. 15.
4544 *C 2122*	Roneklint Range, front.	55° 07.9′ N 12° 07.5′ E	**Iso.W.** period 2s	16 **5**	7	White house, red band; 14.	Visible 174°-190°. Shown Apr. 15 to Nov. 15.
4548 *C 2122.1*	-Rear, 649 meters 182° from front.	55° 07.5′ N 12° 07.5′ E	**Iso.W.** period 4s	39 **12**	9	White framework mast, orange rectangular daymark; 33.	Visible 172°-192°. Shown Apr. 15 to Nov. 15.
4552 *C 2098*	Rodvig Havn, E. pier, head.	55° 15.2′ N 12° 22.6′ E	**Fl.G.** period 3s fl. 0.8s, ec. 2.2s	16 **5**	3	Red pedestal, white band.	
4556 *C 2099*	-W. mole, head.	55° 15.2′ N 12° 22.5′ E	**Fl.R.** period 3s fl. 0.8s, ec. 2.2s	16 **5**	3	Gray conical hut; 7.	**Siren:** 1 bl. ev. 30s. Occas.
4560 *C 2100*	-Middle mole, SE. head.	55° 15.2′ N 12° 22.6′ E	**F.R.**	11 **3**	2	Gray post; 7.	Shown Aug. 15 thru May 15.
4564 *C 2100.2*	- -SW., head.	55° 15.2′ N 12° 22.6′ E	**F.G.**	11 **3**	2	Gray post; 7.	Shown Aug. 15 thru May 15.
4568 *C 2100.4*	-W. side of E. mole.	55° 15.0′ N 12° 23.0′ E	**F.G.**	11 **3**	2	Gray post; 7.	

Section 4

The Sound and Bornholm

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-THE SOUND				
	GILLELEJE HAVN:						
4572 *C 1866*	-Outer harbor, W. mole, head.	56° 07.8′ N 12° 18.6′ E	**Fl.G.** (neon) period 3s fl. 1s, ec. 2s	16 **5**	4	Gray round tower.	
4576 *C 1868*	-N. basin, head of mole.	56° 07.7′ N 12° 18.7′ E	**F.G.**	23 **7**	3	Gray framework tower; 16.	
4580 *C 1869*	-Head of N. mole, inner harbor.	56° 08.0′ N 12° 19.0′ E	**F.G.**	26 **8**		Gray beacon; 20.	
4584 *C 1867*	-Head of E. mole, outer harbor.	56° 07.8′ N 12° 18.7′ E	**Fl.R.** (neon) period 3s fl. 1s, ec. 2s	16 **5**	4	Gray square tower; 13.	
4588 *C 1867.4*	-Head of spur mole.	56° 07.7′ N 12° 18.7′ E	**F.R.**	13 **4**	4	Post; 7.	
4592 *C 1872*	**Nakkehoved,** summit.	56° 07.2′ N 12° 20.7′ E	**Fl.(3)W.** period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	177 **54**	**25**	White square tower; 69.	
4596 *C 1876*	Hornbaek Havn, head of W. breakwater.	56° 05.9′ N 12° 27.7′ E	**Fl.G.** period 3s fl. 0.8s, ec. 2.2s	23 **7**	4	Green post; 11.	
4598 *C 1877*	-E. breakwater, head.	56° 05.7′ N 12° 27.6′ E	**Fl.R.** period 3s fl. 0.8s, ec. 2.2s	23 **7**	4	Red mast; 13. Floodlit.	
4600 *C 1878*	-N. mole, E. head.	56° 05.7′ N 12° 27.6′ E	**F.G.**	20 **6**	2	Post; 8.	
4602 *C 1881.5*	Ellekilde Hage N. Cable Range, front.	56° 05.6′ N 12° 29.3′ E	**F.R.**	46 **14**	5	Lattice mast with white disk daymark, red center; 31.	Visible 216°18′-246°18′.
4603 *C 1881.51*	-Rear, 218 meters 231°18′ from front.	56° 05.5′ N 12° 28.8′ E	**F.W., F.R.** (vert.)	95 **29** 75 **23**	R. 5 W. 6	Framework with white disc daymark, red center, over white diamond daymark, red center; 44.	Visible 216°18′-246°18′. Marks northern boundary of cable area to Sweden.
4604 *C 1881*	Ellekilde Hage S. Cable Range, front.	56° 05.6′ N 12° 30.1′ E	**F.R.**	56 **17**	6	Framework with white disc daymark, red center; 36.	Visible 216°18′-246°18′.
4608 *C 1881.1*	-Rear, 144 meters 231°18′ from front.	56° 05.4′ N 12° 29.7′ E	**F.W., F.R.** (vert.)	98 **30** 79 **24**	R. 6 W. 7	Framework with white disc daymark, red center, over white diamond daymark, red center; 23.	Visible 216°18′-246°18′. Range marks southern boundary of cable area to Sweden.
4612 *C 1884*	**Julebaek.**	56° 04.0′ N 12° 34.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	26 **8**	W. **15** R. 12 G. 12	Hut with red and white bands; 13.	R. 258°-278°, G.-288°, W.-290°30′, R.-303°.
4616 *C 1900*	Lappestensbatteri Cable Range, front.	56° 03.0′ N 12° 36.0′ E	**F.R.**	75 **23**	5	Framework, red disc daymark; 69.	
4620 *C 1900.1*	-Rear, 110 meters 226°30′ from front.	56° 03.0′ N 12° 35.4′ E	**F.R., F.W.** (vert.)	105 **32**	5	Framework with red disc over white diamond daymark; 75.	Range marks northern boundary of cable area to Sweden.
4624 *C 1898*	Lappestensbatteri Cable Range, front.	56° 03.0′ N 12° 36.0′ E	**F.R.**	59 **18**		Framework, red round disc daymark; 49.	
4628 *C 1898.1*	-Rear, 167 meters 229° from front.	56° 03.0′ N 12° 35.5′ E	**F.R., F.W.** (vert.)	111 **34**		Framework with red disc over white diamond daymark; 81.	Range indicates direction of cable to Sofiero in Sweden.
4632 *C 1890*	Marienlyst N. Cable Range, front.	56° 02.8′ N 12° 35.7′ E	**F.R.**	79 **24**		Green framework with red disc daymark; 59.	Visible 186°30′-296°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-THE SOUND				
4636 *C 1890.1*	-Rear, 100 meters 241°30′ from front.	56° 02.8′ N 12° 35.7′ E	**F.R., F.W.** (vert.)	125 **38**	W. 7 R. 5	Television tower with red disc over white diamond daymark; 279.	Visible 186°30′-296°30′. Range indicates direction of cable to Sweden.
4640 *C 1891*	Marienlyst Middle Cable Range, front.	56° 03.0′ N 12° 36.0′ E	**F.R.**	75 **23**		Green framework with red disc daymark; 69.	
4644 *C 1891.1*	-Rear, 215 meters 241°30′ from front.	56° 02.7′ N 12° 35.8′ E	**F.R., F.W.** (vert.)	111 **34**		Green framework mast, red disc over white diamond daymark; 29.	Range indicates direction of cable to Sweden.
4648 *C 1894*	Gronnehave Cable Range, front.	56° 03.0′ N 12° 37.0′ E	**F.R.**	33 **10**		Mast, red disc daymark; 26.	Visible 186°-296°.
4652 *C 1894.1*	-Rear, 240 meters 241° from front.	56° 02.4′ N 12° 36.8′ E	**F.R., F.W.** (vert.)	56 **17** 46 **14**		Mast, red disc over white diamond daymark; 52.	Visible 186°-296°. Range marks southern boundary of cable area to Sweden.
	HELSINGOR NORDHAVN:						
4656 *C 1903*	-N. outer breakwater head.	56° 03.0′ N 12° 37.0′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	13 **4**	3	White tower; 6.	
4660 *C 1904*	-N. outer breakwater, 128 meters from head.	56° 02.7′ N 12° 37.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	15 **5**	2	Gray pole; 6.	
4664 *C 1902*	-S. outer breakwater head.	56° 02.6′ N 12° 37.1′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	13 **4**	3	White tower; 6.	
4668 *C 1904.5*	- -S. inner breakwater head.	56° 02.7′ N 12° 37.1′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	7 **2**	2	Gray pillar.	
4670	*-Midchannel buoy "M4".*	56° 03.3′ N 12° 39.2′ E	**Iso.W.** period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		**T(–)** period 30s				
4672 *C 1908*	**Kronborg,** NE. tower of castle.	56° 02.4′ N 12° 37.4′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	108 **33**	W. **15** R. 12 G. 11	Castle tower; 103.	G. 129°-137°, W.-145°, R.-161°, G.-214°, W.-311°, R.-349°, G.-352°, W.-356°, R.-017°, G.-027°. Shown 24 hours.
	HELSINGOR HAVN:						
4676 *C 1912*	-S. pier, head.	56° 02.0′ N 12° 37.0′ E	**F.R.**	23 **7**	6	Red round tower; 21.	Obscured when bearing less than 219°. **Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
4684 *C 1914*	-N. mole, head.	56° 02.0′ N 12° 37.0′ E	**F.G.**	23 **7**	6	Green round tower; 21.	
4688 *C 1915*	-Ferry harbor.	56° 02.0′ N 12° 37.0′ E	**F.R.**	37 **11**	3	Pipe mast; 30.	
4692 *C 1916*	Snekkersten Havn, head of S. mole.	56° 00.0′ N 12° 36.0′ E	**F.R.**	13 **4**	3	Post.	
4696 *C 1918*	Espergaerde Havn, head of S. mole.	56° 00.0′ N 12° 34.0′ E	**F.R.**	11 **3**		White octagonal tower.	Visible 172°-340°.
4700 *C 1920*	Humlebaek Havn, head of S. mole.	55° 58.3′ N 12° 32.8′ E	**F.R.**	23 **7**	2	White post.	
4704 *C 1924*	Sletten Havn, head of S. mole.	55° 57.2′ N 12° 32.2′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	10 **3**	4	White post.	Fl.W. 5s 5M marks mole close S.
4706 *C 1925*	Niva, head of S. mole.	55° 56.4′ N 12° 31.8′ E	**F.R.**	13 **4**	4	Red pole; 8.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-THE SOUND				
4708 *C 1926*	Rungsted Havn, head of new S. mole.	55° 53.0′ N 12° 33.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	20 **6**	W. 8 R. 6 G. 6	Red mast; 16.	R. 050°-203°, G.-215°, W. 246°, R.-028°.
4712 *C 1940*	Vedback Havn, head of E. mole.	55° 51.0′ N 12° 34.0′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	16 **5**	6	Red pole; 7.	
4713	-Head of W. mole.	55° 51.0′ N 12° 34.3′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	16 **5**	6	Green pole; 7.	
4716 *C 1942*	Taarbaek Havn, head of S. mole.	55° 47.0′ N 12° 36.0′ E	**F.R.**	16 **5**		Gray post; 13.	
	SKOVSHOVED HAVN:						
4720 *C 1945.4*	-N. head of breakwater.	55° 46.0′ N 12° 36.0′ E	**Fl.R.** period 3s	16 **5**	4	Gray post; 11.	Shown 24 hours.
4724 *C 1945.6*	-S. head of breakwater.	55° 46.0′ N 12° 36.0′ E	**Fl.G.** period 3s	16 **5**	4	Gray post; 11.	Shown 24 hours.
4728 *C 1946*	-Head of N. mole.	55° 46.0′ N 12° 36.0′ E	**F.G.**	20 **6**	5	Gray post; 12.	Shown 24 hours.
4732 *C 1948*	-Head of S. mole.	55° 46.0′ N 12° 36.0′ E	**F.R.**	20 **6**	5	Gray post; 12.	Shown 24 hours.
4736 *C 1950*	Hellerup, E. mole, head.	55° 44.0′ N 12° 35.0′ E	**F.G.**	16 **5**	5	Green lighthouse with copper roof; 15.	Visible 180°-090°. Shown from Apr. 1 to Nov. 15.
4752 *C 1958*	-Head of N. mole.	55° 43.6′ N 12° 35.5′ E	**Fl.G.** period 3s	10 **3**	3	Green pedestal.	Shown 24 hours.
4756 *C 1960*	-Head of S. mole.	55° 43.6′ N 12° 35.3′ E	**Fl.R.** period 3s	10 **3**	3	Red tower.	Shown 24 hours.
	KOBENHAVN (COPENHAGEN):						
4760 *C 1964*	**-Middlegrunds Fort,** W. light.	55° 43.0′ N 12° 39.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	36 **11**	W. **15** R. 12 G. 12	Orange structure.	R. 005°-069°, G.-128°, R.-173°, G.-184°, W.-193°, R.-225°. Shown 24 hours.
4764 *C 1965*	--E.	55° 43.2′ N 12° 40.0′ E	**Oc.(2)W.R.G.** period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	36 **11**	W. **15** R. 12 G. 12	Orange lighthouse.	W. 204°30′-245°, R.-290°, G.-346°, W.-350°, R.-056°. Shown 24 hours.
4768 *C 1966*	-Head of E. mole.	55° 43.2′ N 12° 40.0′ E	**F.G.**	8 **2**	2	Post.	
4772 *C 1967*	-Head of W. mole.	55° 43.1′ N 12° 39.9′ E	**F.R.**	8 **2**	2	Post.	
4776 *C 1968*	-Entrance range, front, on quay wall.	55° 43.0′ N 12° 40.0′ E	**F.W.**	16 **5**	3	Beacon, white triangle, point up.	Occasional.
4780 *C 1968.1*	--Rear, 12 meters 000° from front.	55° 43.2′ N 12° 40.0′ E	**F.W.**	19 **6**	3	Beacon, white triangle, point down.	Occasional.
4784 *C 1976*	-Svanemollehavn, head of N. breakwater.	55° 43.1′ N 12° 35.3′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	16 **5**	4	Green tower; 10.	
	-Kalkbraenederi Havn:						
4796 *C 1970*	--E. mole, SE. Range, front.	55° 43.2′ N 12° 35.7′ E	**Iso.R.** period 2s	16 **5**	11	Red and white tower.	Visible 205°30′-210°30′.
4800 *C 1970.1*	--Rear, 975 meters 208° from front.	55° 42.8′ N 12° 35.3′ E	**Iso.R.** period 4s	39 **12**	11	Red and white tower, triangular daymark, point down.	Visible 205°30′-210°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-THE SOUND				
4804 *C 1978*	-**Trekroner.**	55° 42.2′ N 12° 37.0′ E	**Iso.W.R.G.** period 2s	66 **20**	W. **20** R. **16** G. **16**	White round tower; 39.	R. 175°-195°, G.-207°, W.-210°, R.-214°, G.-219°48′, W.-222°54′, R.-255°, G.-316°30′, W.-320°, R.-336°.
4808 *C 1982*	--S. side of entrance to Frihavn, breakwater, N. head.	55° 42.5′ N 12° 36.8′ E	**Fl.R.** period 3s	23 **7**	7	Red round tower, white band; 23.	
	--RACON		**T(–)** period 120s		10		(3 cm)
4812 *C 1983*	-Stubben, breakwater, E. head.	55° 42.6′ N 12° 36.8′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	23 **7**	7	Green tower; 23.	Also shown by day in poor visibility.
	-Frihavn:						
4816 *C 1980*	--Kronlob Range, front.	55° 42.2′ N 12° 36.1′ E	**Iso.R.** period 2s	46 **14**	11	Framework tower; 39.	Visible 221°-241°. By day Iso.R. 2M, visible 226°30′-235°30′.
4820 *C 1980.1*	---Rear, 324 meters 231° from front.	55° 42.1′ N 12° 35.8′ E	**Iso.R.** period 4s	75 **23**	11	Framework tower; 56.	Visible 221°-241°. By day Iso.R. 2M, visible 226°30′-235°30′. Synchronized with front.
4824 *C 1994*	--Kronlobsbassin, N. side of entrance, mole, head.	55° 42.5′ N 12° 36.4′ E	**F.G.**	20 **6**	6	Green hut.	
	-Yderhavn:						
4832 *C 1986*	--Lynettelobet, N. breakwater, S. head.	55° 42.0′ N 12° 37.0′ E	**Iso.W.R.G.** period 4s	21 **6**	W. 4 R. 2 G. 2	Green light house; 19.	W. 081°-089°, R.-094°, G.-263°, W.-269°30′, R.-278°, G.-081°. Obscured 287°-291°, 308°-318°.
4836 *C 2002*	--Lystbadehavn, (Yacht Harbor), N. side of entrance.	55° 42.0′ N 12° 36.0′ E	**F.G.**	11 **3**		Green post; 7.	Shown April 1 thru Nov. 15.
4840 *C 2003*	--Bomlobet, E. side, front.	55° 41.0′ N 12° 36.0′ E	**Iso.R.** period 2s	19 **6**	2	Pole.	Visible 178°-208°. R. and G. lights mark channel when bridge is open.
4844 *C 2003.1*	---S. end, rear, about 90 meters 194°48′ from front.	55° 41.0′ N 12° 36.0′ E	**Iso.R.** period 4s	29 **9**	2	Pole; 23.	Visible 178°-208°.
4848 *C 2006*	--Bomlobet, E. side.	55° 41.3′ N 12° 36.1′ E	**Fl.R.** period 3s	17 **5**		Pole; 23.	Visible southward.
4860 *C 2008*	-Enghave Brygge, W. side of Sondre Havn.	55° 40.0′ N 12° 34.0′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	17 **5**		Post on dolphin.	R. and G. lights mark channel when bridge is open.
4866 *C 2012*	-Teglvaerkslobet.	55° 39.3′ N 12° 33.9′ E	**F.W.R.G.**	26 **8**	W. 7 R. 5 G. 5	White pile.	G.-034°18′-036°12′, W.-037°24′ R.-039°18′.
4870 *C 2014*	--S. Range, front.	55° 43.2′ N 12° 39.9′ E	**F.G.**	26 **8**	4	Light on house.	Visible 213°18′-220°18′.
4870.1 *C 2014.1*	--Rear, 48 meters 216°48′ from front.	55° 38.8′ N 12° 33.1′ E	**F.G.**	36 **11**	4	Mast on house; 6.	Visible 213°18′-220°18′.
4880 *C 2010*	--Sluselobet Range.	55° 38.6′ N 12° 33.2′ E	**Iso.R.** period 2s	16 **5**	4	Post.	Visible 200°18′-206°18′.
4884 *C 2010.1*	---Rear, 184 meters 203°30′ from front.	55° 38.5′ N 12° 33.1′ E	**Iso.R.** period 4s	36 **11**	4	Mast.	Visible 113°18′-293°18′. F.R. light shown on same structure.
4888 *C 2016*	-Sluse Havn, on Kalleboer Dam.	55° 39.0′ N 12° 34.0′ E	**F.G.**	10 **3**	2	Post.	Occasional.
4892 *C 2075*	--Head of W. mole.	55° 38.0′ N 12° 33.0′ E	**F.G.**	20 **6**		Green post.	
4896 *C 2077*	--Head of E. mole.	55° 38.0′ N 12° 33.0′ E	**F.R.**	19 **6**	4	Red mast.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-THE SOUND				
4900 *C 2072*	-Fishing Harbor Range front, S. pier, head.	55° 39.0′ N 12° 33.0′ E	**F.R.**	13 **4**	1	Red and white oval tankhouse, triangular daymark, point up; 7.	Visible 216°-056°.
4904 *C 2072.1*	--Rear, 226 meters 316° from front.	55° 38.6′ N 12° 32.5′ E	**F.R.**	26 **8**	1	White mast, red and white striped triangular daymark, point down; 27.	Visible 216°-056°.
4912 *C 2024*	-Provesten.	55° 41.0′ N 12° 38.3′ E	**Oc.(3)W.R.G.** period 15s lt. 5s, ec. 2s lt. 2s, ec. 2s lt. 2s, ec. 2s	33 **10**	W. 13 R. 10 G. 10	White framework tower, red band; 26.	G. 160°-168°, W.-171°, R.-175°, G.-178°12′, W.-180°24, R.-182°12′, G.-203°. F.R. and F.G. lights on posts 0.6 mile NW.
4916 *C 2030*	-Provestenshavn Range, front.	55° 40.6′ N 12° 38.1′ E	**Iso.R.** period 2s	46 **14**	5	Red lattice mast, triangular daymark, point up; 43.	Visible 218°-258°.
4920 *C 2030.1*	--Rear, 143 meters 234° 54′ from front.	55° 40.6′ N 12° 38.0′ E	**Iso.R.** period 2s	62 **19**	5	Red lattice mast, triangular daymark, point down; 56.	Visible 218°-258°.
4924 *C 2026*	-N. detached breakwater, E. head.	55° 41.0′ N 12° 38.0′ E	**Fl.G.** period 3s	20 **6**	5	Green tower; 10.	
4928 *C 2028*	-S. detached breakwater, N. head.	55° 41.0′ N 12° 38.0′ E	**Fl.R.** period 3s	20 **6**	5	Red tower; 10.	
4932 *C 1962*	--Flakfort, NW. side of Saltholm Flak, E. side of channel.	55° 42.0′ N 12° 44.0′ E	**Fl.(2)W.** period 10s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 5.5s	69 **21**	10	Triangular tower; 10.	Shown 24 hours.
	HOLLAENDERDYBET:						
4936 *C 2042*	**-Nordre Rose,** N. entrance to channel.	55° 38.2′ N 12° 41.2′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	45 **14**	W. **18** R. 13 G. 13	Round granite tower; 56.	G. 140°-176°30′, W.-181°, R.-186°, G.-030°30′. Shown 24 hours.
	-RACON		**M(– –)** period 40s				
4940 *C 2060*	**Drogden,** S. entrance to channel.	55° 32.2′ N 12° 42.8′ E	**Oc.(3)W.R.G.** period 15s lt. 2s, ec. 2s lt. 2s, ec. 2s lt. 5s, ec. 2s	58 **18**	W. **18** R. 13 G. 13	White square tower, two red bands, elliptical base with granite facing; 65.	W. 173°30′-175°, R.-203°, G.-235°30′, R.-256°30′, G.-357°30′, W.-009°, R.-021°, G.-028°30′, W.-071°, R.-085°, G.-173°30′. Shown 24 hours. **Horn:** Mo.(U) ev. 30s. Pilot station.
	RACON		**X(– • • –)** period 40s		**15**		
	AMAGER:						
4944 *C 2040*	-Sundby, Yacht. Club Harbor, front.	55° 40.0′ N 12° 38.0′ E	**F.R.**	16 **5**		White beacon with red triangular daymark, point up; 16.	
4948 *C 2040.1*	--Rear, 155 meters 252° from front.	55° 39.9′ N 12° 37.9′ E	**F.R.**	33 **10**		White beacon with red triangular daymark, point down; 16.	
4964 *C 2044*	-Kastrup Strandpark, head of S. mole.	55° 39.0′ N 12° 39.0′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	15 **5**	4	Red pillar; 7.	Floodlights show mole heads.
4968 *C 2044.2*	--Head of N. mole.	55° 38.6′ N 12° 39.1′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	15 **5**	4	Green pillar; 7.	
4980 *C 2046*	--Head of N. pier.	55° 38.0′ N 12° 40.0′ E	**F.G.**	11 **3**	2	Gray post; 6.	
4988 *C 2050*	-Kobenhavn Airport, NE. pier, head.	55° 38.0′ N 12° 41.0′ E	**Fl.G.** period 3s	16 **5**	2	Red pedestal, white bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-THE SOUND				
	-Dragor Havn:						
4992 *C 2053*	--Dragor Fort, SE. corner.	55° 35.3′ N 12° 40.8′ E	**Oc.(2)W.R.G.** period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	19 **6**	W. 14 R. 10 G. 10	Gray beacon; 10.	G. shore-280°, W.-309°, R.-336°, G.-shore.
4996 *C 2054*	--Head of S. pier.	55° 35.7′ N 12° 40.9′ E	**F.R.**	23 **7**	4	Aluminum framework structure; 7.	
5000 *C 2055*	--Range, front.	55° 36.0′ N 12° 41.0′ E	**Iso.R.** period 2s	13 **4**	3	White pole, red triangular daymark, point up; 7.	
5004 *C 2055.1*	---Rear, 154 meters 253°30′ from front.	55° 35.7′ N 12° 40.6′ E	**Iso.R.** period 2s	23 **7**	3	White pole, red triangular daymark, point down; 16.	
	-Dragor Faergehavn:						
5008 *C 2056*	--Range, front.	55° 35.6′ N 12° 40.8′ E	**Iso.W.** period 4s	52 **16**	12	Gray tower with red triangular daymark, point up; 43.	Visible 208°30′-248°30′.
5012 *C 2056.01*	---Rear, 187 meters 228°30′ from front.	55° 35.5′ N 12° 40.7′ E	**Iso.W.** period 4s	82 **25**	12	Gray tower with red triangular daymark, point down; 75.	Visible 208°30′-248°30′. Synchronized with front.
5016 *C 2056.4*	-Head of N. pier.	55° 35.7′ N 12° 40.9′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	27 **8**	4	Gray pedestal; 7.	
5020 *C 2056.6*	-Head of E. pier.	55° 35.6′ N 12° 41.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	27 **8**	4	Gray pedestal; 7.	
5024 *C 2057*	-Head of NE. mole.	55° 35.0′ N 12° 41.0′ E	**F.R.**	10 **3**	3	Gray post, concrete base; 7.	Shown Apr. 1 thru Nov. 15.
5028 *C 2057.2*	-Ferry Harbor, E. mole.	55° 35.0′ N 12° 41.0′ E	**F.G.**	10 **3**	3	Gray post, concrete base; 7.	Shown Apr. 1 thru Nov. 15.
5030 *C 2065*	-Avedore Harbor, W. mole.	55° 35.9′ N 12° 29.1′ E	**F.R.**	30 **9**	4	Gray steel mast; 26.	Shown 24 hours.
5030.3 *C 2065.4*	-E. Sector Light.	55° 36.2′ N 12° 29.2′ E	**Oc.W.R.G.** period 10s lt. 7.5s, ec. 2.5s	123 **37**	W. 6 R. 5 G. 5	Gray steel framework mast; 115.	G. 351°15′-355°, W.- 357°30′, R.-001°15′. Shown 24 hours.
5030.6 *C 2065.6*	-W. Sector Light.	55° 36.2′ N 12° 28.9′ E	**Oc.W.R.G.** period 10s lt. 7.5s, ec. 2.5s	123 **37**	W. 6 R. 5 G. 5	Gray steel framework mast; 115.	G. 348°45′-352°30′, W.- 355°, R.-358°45′. Shown 24 hours.
5031 *C 2069*	-AVIATION LIGHT.	55° 36.1′ N 12° 28.7′ E	**2 Fl.W.** (vert.) period 2s	489 **149** 240 **73**	12	Gray chimney.	Shown 24 hours.
	KALVEBOD:						
5032 *C 2068*	-S. Range, front.	55° 36.8′ N 12° 30.6′ E	**Iso.W.** period 2s	13 **4**	7	Pedestal on beacon, red and white triangle daymark, point up; 13.	Visible 282°24′-102°24′.
5036 *C 2068.1*	--Rear, 012°24′ from front.	55° 36.8′ N 12° 30.6′ E	**Iso.W.** period 4s	26 **8**	7	Mast, red and white triangular daymark, point down; 20.	Visible 282°24′-102°24′.
5040 *C 2082*	Mosede Havn, head of N. mole.	55° 34.0′ N 12° 17.0′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	13 **4**	1	White column; 6.	
5044 *C 2083*	-Head of S. mole.	55° 33.9′ N 12° 17.2′ E	**Oc.W.R.G.** period 10s	13 **4**	W. 7 R. 4 G. 4	White column; 7.	G. 290°-306°, W.-316°, R.-290°.
	KOGE HAVN:						
5048 *C 2086*	-Head of N. pier.	55° 27.3′ N 12° 12.0′ E	**Oc.W.R.G.** period 5s	16 **5**	W. 13 R. 9 G. 9	Green tower with platform. Floodlit.	G. 234°30′-251°30′, W.-258°, R.-270°18′, obsc.-234°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	DENMARK-THE SOUND						
5056 *C 2089*	-Head of S. mole.	55° 27.0′ N 12° 12.0′ E	**Fl.R.** period 3s	13 **4**	3	Red lantern; 10.	**Siren:** 2 bl. ev. 30s.
5060 *C 2088*	-Range, front.	55° 27.0′ N 12° 12.0′ E	**F.G.**	26 **8**	5	Skeleton structure, red triangular daymark, point up; 20.	
5064 *C 2088.1*	- -Rear, 90 meters 249° from front.	55° 27.2′ N 12° 11.6′ E	**F.G.**	36 **11**	5	Skeleton structure, red triangular daymark, point down; 33.	
5068 *C 2089.5*	-Head of N. mole.	55° 27.3′ N 12° 12.2′ E	**Fl.G.** period 3s	15 **5**	3	Lantern on green hut; 6.	Shown 24 hours.
5080 *C 2094*	**Stevns Klint,** near extremity.	55° 17.5′ N 12° 27.3′ E	**L.Fl.W.** period 25s fl. 2s, ec. 23s	210 **64**	**26**	White round tower; 85.	Obscured by chimney on bearing 043°.
	SWEDEN-THE SOUND						
5084 *C 2260*	**Kullen,** on Kullaberg.	56° 18.1′ N 12° 27.2′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	258 **79**	**27**	Gray stone tower, yellow machine shop; 49.	Visible 332°30′-249°30′. Light vessel signals. Also shown by day Nov. 1 thru Mar. 31.
5088 *C 2262*	Kullen Vastra, foot of Kullaberg.	56° 18.2′ N 12° 26.8′ E	**Oc.(3)W.G.** period 20s	39 **12**	W. 14 G. 10	White round metal tower.	G. 335°-344°, W.-251°30′.
5092 *C 2264*	Molle, head of outer mole.	56° 17.0′ N 12° 30.0′ E	**Fl.(2)W.R.G.** period 6s	21 **6**	W. 8 R. 5 G. 4	White hut, red band.	G. 356°-107°, W.-116°, R.-180°, W.-335°, R.-356°.
5096 *C 2265*	Molle Hamn Range, front.	56° 17.0′ N 12° 30.0′ E	**F.R.**	29 **9**	3	Post, orange triangular daymark, point up.	
5100 *C 2265.1*	-Rear, 23 meters 113° from front.	56° 17.0′ N 12° 29.8′ E	**F.R.**	34 **10**	3	Post, orange triangular daymark, point down.	
5104 *C 2266*	Nyhamnslage, NNW. of Hoganas.	56° 15.0′ N 12° 32.0′ E	**Fl.(3)W.R.G.** period 9s	20 **6**	W. 8 R. 6 G. 5	Post.	R. shore-011°, G.-045°30′, W.-056°, R.-105°, G.-125°, W.-137°, R.-shore. Fishing lights.
	HOGANAS:						
5108 *C 2268*	-Pier, head.	56° 11.8′ N 12° 32.8′ E	**Oc.(2)W.R.G.** period 8s	41 **12**	W. 9 R. 6 G. 5	White tower, red band, 33. Floodlit.	G. 359°-090°06′, W.-097°30′, R.-147°30′.
5112 *C 2269*	-Range, E. side, front.	56° 12.0′ N 12° 33.0′ E	**Iso.W.** period 3s	52 **16**	10	Concrete pole, red triangular daymark with white borders, point up.	
5116 *C 2269.1*	- -Rear, 750 meters 092°54′ from front.	56° 11.8′ N 12° 33.5′ E	**Iso.W.** period 3s	68 **21**	10	Concrete pole, red triangle with white borders, point down.	Synchronized.
5120 *C 2270*	Lerberget, head of N. pier.	56° 11.0′ N 12° 33.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 6 R. 4 G. 4	Post.	G. shore-356°, R.-010°, G.-042°, W.-048°, R.-065°, G.-108°, W.-113°, R.-143°, G.-shore. Fishing light shown from Sept. 1 to Nov. 1 and at other times when required. **Horn:** 4 bl. ev. 60s.
5124 *C 2274*	**-Svinbadan.**	56° 09.0′ N 12° 32.6′ E	**Iso.W.R.G.** period 8s	78 **24**	W. **17** R. **17** G. **16**	White tower, orange bands; 82. Floodlit. Helicopter platform.	G. (unintensified) 315°-329°, G.-334°, W.-080°, R.-095°, G.-104°, W.-150°, R.-157°, G.-162°, G. (unintensified)-188°, W. (unintensified)-315°.
	-RACON		**B(– • • •)** period 30s		**15**		
5128 *C 2276*	-Viken, pier, head.	56° 08.0′ N 12° 35.0′ E	**Q.W.R.G.**	27 **8**	W. 9 R. 7 G. 6	White tower on pier, head.	G. shore-000°, W.-069°, R.-106°, G.-121°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-THE SOUND				
5130 *C 2276.8*	-Kristenlunds Cable N. Range, front.	56° 08.3′ N 12° 35.5′ E	**Iso.R.** period 6s	62 **19**	7	Framework mast, white triangle daymark, red border.	
5130.1 *C 2276.81*	-Rear, 275 meters 052° from front.	56° 08.4′ N 12° 35.5′ E	**Iso.R.** period 6s	83 **25**	7	Framework mast, white triangle daymark, red border.	Range indicates northern most cable to Denmark.
5132 *C 2277*	-S. Cable Range, front.	56° 07.9′ N 12° 35.7′ E	**Oc.R.** period 5s lt. 4s, ec. 1s	64 **20**	7	Framework mast, white triangle daymark, red border.	
5136 *C 2277.1*	-Rear, 270 meters 052° from front.	56° 08.0′ N 12° 35.7′ E	**Oc.R.** period 5s lt. 4s, ec. 1s	95 **29**	7	Framework mast, white triangle daymark, red border.	Marks southern boundary of cable area.
5140 *C 2277.6*	-Domstens, breakwater, N. head.	56° 07.1′ N 12° 36.2′ E	**Fl.(3)W.R.G.** period 8s	10 **3**	W. 6 R. 4 G. 3	Pole.	G. 335°-020°, W.-030°, R.-060°, G.-090°, W.-120°, R.-145°.
5144 *C 2278*	-Sofiero, front.	56° 05.1′ N 12° 39.4′ E	**Iso.R.** period 4s	72 **22**	7	Beacon with white diamond daymark.	Visible on range line only.
5148 *C 2278.1*	-Rear, 125 meters 046° from front.	56° 05.1′ N 12° 39.4′ E	**Iso.R.** period 4s	102 **31**	7	Beacon with white diamond daymark.	Visible on range line only. Synchronized. Marks northern boundary of cable area.
5152 *C 2281*	-Sofiero S. Range, front.	56° 04.9′ N 12° 39.5′ E	**Iso.G.** period 4s	49 **15**	6	White beacon, triangular daymark, red border.	Visible on range line only.
5156 *C 2281.1*	-Rear, 69 meters 050° from front.	56° 04.9′ N 12° 39.6′ E	**Iso.G.** period 4s	96 **29**	6	White beacon, triangular daymark, red border.	Visible on range line only. Synchronized with front. Marks southern boundary of cable area.
5160 *C 2283*	-Palsjo S. Kraftkabel Range, front.	56° 04.1′ N 12° 40.4′ E	**Iso.R.** period 4s	85 **26**	7	Mast, white triangular daymark, red border.	Visible on range line only. Marks cable.
5164 *C 2283.1*	-Rear, about 35 meters 061°30′ from front.	56° 04.2′ N 12° 40.7′ E	**Iso.R.** period 4s	188 **57**	7	Mast, white triangular-shaped daymark, red border.	Visible on range line only. Synchronized.
5168 *C 2282*	-Palsjo N. Kraftkahel Range, front.	56° 04.1′ N 12° 40.4′ E	**Iso.G.** period 4s	135 **41**	6	White beacon, diamond-shaped daymark.	Visible on range line only. Indicates direction of cable.
5172 *C 2282.1*	- -Rear, 250 meters 061°30′ from front.	56° 04.3′ N 12° 40.7′ E	**Iso.G.** period 4s	161 **49**	6	White beacon diamond-shaped daymark.	Visible on range line only. Synchronized.
5176 *C 2284*	-S. cable mark, N. of town Range, front.	56° 03.7′ N 12° 40.8′ E	**Iso.R.** period 8s	27 **8**	6	Framework beacon, diamond daymark.	Visible 018°-108°. Range marks southern boundary of cable area.
5180 *C 2284.1*	- -Rear, 115 meters 062° from front.	56° 03.7′ N 12° 40.9′ E	**Iso.R.** period 8s	75 **23**	6	Framework beacon, diamond daymark.	Synchronized. Visible 018°-108°.
5184 *C 2288*	**-Helsingborg,** near S. end of N. mole.	56° 03.0′ N 12° 41.0′ E	**Oc.W.R.G.** period 15s	56 **17**	W. **18** R. **15** G. 13	Red tower and red pilot house; 61.	G. shore-000°, W.-011°, R.-059°, G.-122°, W.-136°30′, R.-148°30′. Shown by day Nov. 1 to Mar. 31. Signal station.
5186 *C 2288.1*	-Norra Hamnen.	56° 02.9′ N 12° 41.0′ E	**Oc.(2)W.R.G.** period 10s	13 **4**	W. 6 R. 4 G. 4	Pole.	G. shore-058°30′, W.-127°30′, R.-shore.
5192 *C 2289*	-Vastra Range, front.	56° 03.6′ N 12° 41.3′ E	**Q.W.**	36 **11**	9	White post, red triangular daymark, point up.	Visible on range line only. Shown by day from Nov. 1 to Mar. 31.
5196 *C 2289.1*	- -Rear, 150 meters 000°48′ from front.	56° 02.7′ N 12° 41.3′ E	**Q.W.**	52 **16**	9	White framework tower, red triangular daymark, point down.	Visible on range line only. Shown by day from Nov. 1 to Mar 31.
5197 *C 2305.3*	-Vasthamnen Range, front.	56° 02.0′ N 12° 42.0′ E	**Oc.R.** period 4s	86 **26**	12	Lattice mast, red triangular daymark, white stripe.	
5197.1 *C 2305.31*	- -Rear, 236 meters 003° from front.	56° 01.9′ N 12° 41.6′ E	**Oc.R.** period 4s	138 **42**	12	Lattice mast, red triangular daymark, white stripe.	Synchronized.
5198 *C 2305.5*	-Vasthamnen, W. breakwater, head.	56° 01.5′ N 12° 41.5′ E	**Fl.(3)R.** period 10s	47 **14**	12	Red lattice mast.	Synchronized with E. breakwater light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-THE SOUND				
5199 *C 2305.4*	--E. breakwater, head.	56° 01.6′ N 12° 41.6′ E	**Fl.(3)G.** period 10s	47 **14**	10	Green lattice mast.	Synchronized with W. breakwater light.
5200 *C 2291*	-S. molehead, N. side of N. entrance, No. 4.	56° 02.6′ N 12° 41.2′ E	**Q.R.**	27 **8**	8	Red hut. Floodlit.	**Radar reflector.**
5204 *C 2292*	-Detached breakwater No. "3", N. head.	56° 02.4′ N 12° 41.2′ E	**Q.G.**	27 **8**	7	Green hut.	
5208 *C 2294*	-Detached breakwater No. "2", SW. head.	56° 02.0′ N 12° 42.0′ E	**Iso.R.** period 3s	27 **8**	8	Red hut.	
5212 *C 2296*	-Pier No. "1", N. head.	56° 02.4′ N 12° 41.3′ E	**Iso.G.** period 3s	27 **8**	4	Green hut.	**Radar reflector.**
5214 *C 2305*	-Outfall range, front.	56° 02.1′ N 12° 41.5′ E	**F.R.**	30 **9**	4	Lantern, white triangle with black bands, point up.	
5214.1 *C 2305.1*	--Rear, 240 meters 067° from front.	56° 02.1′ N 12° 41.7′ E	**F.R.**	43 **13**	4	Lantern, white diamond with black bands.	
5216 *C 2306*	-Sydhamn Range, front.	56° 01.5′ N 12° 41.9′ E	**Iso.W.** period 3s	72 **22**	12	White framework tower, orange triangular daymark, red border, point up.	Visible on range line only. Shown 24 hours.
5220 *C 2306.1*	--Rear, 254 meters 001°36′ from front.	56° 01.7′ N 12° 41.9′ E	**Iso.W.** period 3s	92 **28**	12	White framework tower, orange triangular daymark, red border, point down.	Visible on range line only. Synchronized with front light.
5224 *C 2307*	-Head of mole W. side of entrance.	56° 01.3′ N 12° 41.9′ E	**Q.R.**	39 **12**	8	Red framework tower. Floodlit.	Shown by day November 1 thru March 31. **Radar reflector.**
5228 *C 2308*	-Head of mole E. side of entrance.	56° 01.1′ N 12° 41.9′ E	**Q.G.**	39 **12**	6	Green framework tower Floodlit.	Shown by day November 1 thru March 31.
5230 *C 2314*	-Outfall range, front.	56° 00.7′ N 12° 42.3′ E	**F.R.**	20 **6**	5	White triangle daymark with red border, point up.	
5230.1 *C 2314.1*	--Rear, 90 meters 068° from front.	56° 00.7′ N 12° 42.4′ E	**F.R.**	39 **12**	5	White triangle daymark with red border, point down.	
	-Bulkhamnen:						
5232 *C 2311*	--Entrance range, front.	56° 00.5′ N 12° 42.5′ E	**Oc.W.** period 4s	87 **27**	**15**	Conveyor belt, orange triangular daymark, white border.	Visible on range line only. Shown by day Nov. 1 thru Mar. 31. Buoyed channel leads into harbor.
5236 *C 2311.1*	---Rear, 500 meters 349°30′ from front.	56° 00.7′ N 12° 42.5′ E	**Oc.W.** period 4s	171 **52**	**15**	Chimney, orange triangular daymark, white border.	Visible on range line only. Shown by day Nov. 1 thru Mar. 31.
5240 *C 2312*	--Entrance channel, E. side range, front.	56° 00.5′ N 12° 42.6′ E	**F.G.**	75 **23**	9	Green triangular daymark on structure.	Shown from Nov. 1 to Mar. 31.
5244	---Rear, 120 meters 349°30′ from front.	56° 00.6′ N 12° 42.5′ E	**F.G.**	92 **28**	9	Green triangular daymark on cistern.	
	-Bulkhamnen:						
	--Entrance channel:						
5248 *C 2313*	---W. side range, front.	56° 00.4′ N 12° 42.5′ E	**F.R.**	49 **15**	11	Conveyor belt, red triangular daymark.	Shown by day Nov. 1 thru Mar. 31.
5252 *C 2313.1*	----Rear, 275 meters 349°30′ from front.	56° 00.5′ N 12° 42.5′ E	**Iso.R.** period 2s	89 **27**	11	Conveyor belt, red triangular daymark.	Shown by day Nov. 1 thru Mar. 31.
5256 *C 2310*	--E. mole, head.	56° 00.2′ N 12° 42.7′ E	**Fl.G.** period 3s	23 **7**	5	Green column with green square daymark on white foundation; 16.	Shown by day from Nov. 1 to Mar. 31.
5260 *C 2309*	--W. mole, head.	56° 00.3′ N 12° 42.5′ E	**Fl.R.** period 3s	16 **5**	6	Metal framework tower. Floodlit.	Shown by day from Nov. 1 to Mar. 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-THE SOUND				
5264 *C 2316*	Raa, head of pier.	56° 00.0′ N 12° 45.0′ E	**Q.W.R.G.**	22 **7**	W. 9 R. 6 G. 5	White framework structure.	G. shore-002°, W.-075°, R.-100°, G.-shore.
5265 *C 2316.4*	-Raa small craft harbor.	55° 59.0′ N 12° 45.0′ E	**F.R.**	15 **5**	6	Lantern on post.	
5268 *C 2318*	Alabodarna, head of pier.	55° 56.0′ N 12° 47.0′ E	**Fl.W.R.G.** period 1.5s	17 **5**	W. 4 R. 2 G. 2	White metal framework tower.	R. 129°-168°, W.-313°, G.-342°, W.-129°.
	VEN (HVEN):						
5272 *C 1936*	**-Haken cable Range,** front.	55° 54.5′ N 12° 43.5′ E	**Iso.W.R.G.** period 8s	49 **15**	W. **16** R. 13 G. 12	White tower on roof of red dwelling; 41.	R. 136°-149°, G.-162°, W.-170°30′, R.-202°, R. (unintensified)-297°, R.-311°, G.-343°, W.-350°30′, R.-005°.
5272.1 *C 1936.1*	- -Rear, 90 meters 245° from front.	55° 54.6′ N 12° 43.7′ E	**F.R.**	72 **22**	12	Lantern, red and white diamond daymark.	Visible on range line only. Range indicates cable and pipeline crossing.
5276 *C 1934*	-Backviken, S. breakwater, N. head.	55° 54.0′ N 12° 43.0′ E	**F.R.G.**	14 **4**	R. 4 G. 3	White framework tower.	R. 213°-356°, G. elsewhere.
5280 *C 1932*	**-Vens Sodra Udde.**	55° 54.0′ N 12° 43.0′ E	**Oc.(3)W.R.G.** period 30s	115 **35**	W. **16** R. 13 G. 12	White tower, red stripe; 28.	G. 255°-268°, W.-287°, R.-332°, G.-347°30′, W.-002°, R.-070°. Shown 24 hours Nov. 1 thru Mar. 31.
5284 *C 1928*	**-Ven,** NW. point of island.	55° 55.0′ N 12° 40.0′ E	**L.Fl.W.R.G.** period 10s fl. 2s, ec. 8s	78 **24**	W. **16** R. 13 G. 12	White tower, red stripe; 28.	G. 000°-084°, W.-167°, R.-179°, G.-182°, W.-250°, R.-252°12'.
5288 *C 1930*	-Kyrkbacken, head of mole, SW. side of island.	55° 54.5′ N 12° 40.3′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 13 R. 10 G. 9	White lantern on white base.	G. 321°-333°, W.-043°, R.-073°30′, G.-093°, W.-103°, R.-132°, G.-157°, W.-321°, partially obscured 158°-321°.
5290 *C 2320*	Rustningshamn cable Range, front.	56° 55.6′ N 12° 47.6′ E	**F.R.**	33 **10**	8	Lantern, red and white diamond daymark.	Visible on range line only. Indicates cable and pipeline crossing to Ven.
5290.1 *C 2320.1*	-Rear, 90 meters 065° from front.	55° 55.7′ N 12° 47.7′ E	**F.R.**	82 **25**	8	Lantern, red and white diamond daymark.	Visible on range line only.
5292 *C 2324*	Borstahusen, head of N. pier.	55° 53.7′ N 12° 48.1′ E	**L.Fl.W.R.G.** period 7.5s fl. 2.5s, ec. 5s	22 **7**	W. 10 R. 8 G. 6	Concrete hut.	R. 356°-025°30′, G.-046°, W.-153°, R.-158°, obsc.- 200°, R.-320°.
	LANDSKRONA:						
5296 *C 2326*	-Grasrannan.	55° 51.8′ N 12° 47.8′ E	**Oc.(2)W.R.G.** period 7s	14 **4**	W. 12 R. 9 G. 8	White tower on stone base.	G. 105°-165°, W.-168°, R.-185°, G.-231°, G. shore-338°, W.-342°, R.-001°30′.
	-RACON		**G(– – •)** period 30s		8		
5304 *C 2328*	-Entrance channel, S. side range, front.	55° 52.0′ N 12° 49.0′ E	**Oc.G.** period 4s	20 **6**	8	White and green hut on dolphin.	Shown by day from Nov. 1 to Mar. 31.
5308 *C 2328.1*	- -Rear, 500 meters 094° from front.	55° 52.0′ N 12° 49.5′ E	**Oc.G.** period 4s	46 **14**	10	White skeleton structure, green diamond daymark.	Visible 084°-104°. Synchronized with front light. Shown by day from Nov. 1 to Mar. 31.
5311	*-Knolen Light Buoy.*	55° 51.2′ N 12° 44.4′ E	**Q.(3)W.** period 10s	13 **4**		E. CARDINAL BYB, pillar, topmark.	
	-RACON		**K(– • –)** period 30s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-THE SOUND				
5312 *C 2332*	-Entrance channel, N. side range, common front.	55° 52.0′ N 12° 49.0′ E	**Oc.W.R.G.** period 4s	21 **6**	W. 11 R. 9 G. 7	White and red hut on dolphin, white triangular daymark, orange border, point up.	G. 098°-121°, W.-128°30′, R.-098°. Shown by day from Nov. 1 to Mar. 31.
5316 *C 2332.1*	- -Rear, 450 meters 094° from common front.	55° 52.0′ N 12° 49.4′ E	**Oc.R.** period 4s	46 **14**	10	Red diamond daymark on building.	Synchronized with common front light. Visible 084°-104°. Shown by day from Nov. 1 to Mar. 31.
5317 *C 2331.9*	- -Graen, rear, 380 meters 125° from common front.	55° 51.9′ N 12° 49.3′ E	**Oc.W.** period 4s	33 **10**	13	Tower on gray support, white triangle daymark, red border, point down; 13.	Synchronized with common front. Visible 120°-130°. Shown by day from Nov. 1 to Mar. 31.
5318	*-Lous Flak Light Buoy.*	55° 48.8′ N 12° 42.7′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar.	
	-RACON		**G(– – •)** period 60s				(3 & 10 cm)
5320 *C 2336*	Pinhattan.	55° 45.2′ N 12° 51.9′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	41 **12**	W. 14 R. 11 G. 10	Orange tower, black top, white lantern; 43. Floodlit.	G. 314°-335°30′, W.-338°, R.-000°, G.-078°, W.-083°, R.-096°30′, G.-131°, W.-140°30′, R.-176°, G.-245°, R.-314°. Shown by day from Nov. 1 to Mar. 31.
	RACON		**T(–)** period 30s		13		
	BARSEBACKSHAMN:						
5324 *C 2338*	-Head of N. mole, front.	55° 45.0′ N 12° 54.0′ E	**Iso.R.G.** period 4s	17 **5**	R. 6 G. 5	White hut with black stripe.	G. 031°30′-070°, R.-031°30′.
5328 *C 2338.1*	- -Rear, 250 meters 088° from front.	55° 45.4′ N 12° 54.4′ E	**F.R.**	33 **10**	4	Post, white triangular daymark, point down.	
5332 *C 2340*	-Barsebackverket, entrance range, front.	55° 45.0′ N 12° 56.0′ E	**F.R.**	20 **6**	9	Tower with orange triangle daymark.	Occasional.
5336 *C 2340.1*	- -Rear, 340 meters 334° from front.	55° 44.8′ N 12° 55.4′ E	**F.R.**	39 **12**	9	Tower with orange triangle daymark.	Occasional.
5340 *C 2346*	-Vikhog, harbor mole, head.	55° 43.6′ N 12° 57.5′ E	**F.W.R.G.**	14 **4**	W. 7 R. 5 G. 4	White hexagonal tower.	G. shore-003°, W.-057°, R.-shore.
5344 *C 2348*	-Lomma, N. pier, head.	55° 41.0′ N 13° 04.0′ E	**Fl.W.R.G.** period 3s	24 **7**	W. 6 R. 4 G. 3	White lantern on red mast; 16.	G. shore-050°, W.-095°, R.-119°, G.-shore.
5348 *C 2388*	-Malmo Oljehamn range, front.	55° 38.1′ N 13° 01.8′ E	**Oc.W.** period 6s	72 **22**	13	Gray framework tower, orange triangular daymark, point up.	Range lights Oc.G. 6s, Q.G. mark starboard side of channel. Shown by day Nov. 1 thru Mar. 31.
5352 *C 2388.1*	- -Rear, 610 meters 132° from front.	55° 37.9′ N 13° 01.8′ E	**Q.W.**	115 **35**	13	Gray framework tower, orange triangular daymark, point down.	Range lights Oc.R. 6s, Q.R. mark port side of channel. Shown by day Nov. 1 thru Mar. 31.
	MALMO HAMN:						
	Navigation lights may be marked by shore lights in this area.						
5360 *C 2360*	**-W. Hulkajen,** front.	55° 37.1′ N 12° 59.8′ E	**Oc.W.** period 5s	43 **13**	**18**	White tower, orange triangular daymark; 33.	Synchronized with rear light.
5364 *C 2360.1*	- - -Rear, 430 meters 142°30′ from front.	55° 36.8′ N 12° 59.9′ E	**Q.W.**	66 **20**	**18**	Lattice tower, orange triangular daymark; 51.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-THE SOUND				
5368 *C 2361*	--E. side, Malmo Range, front.	55° 37.1′ N 12° 59.7′ E	**Oc.R.** period 5s	30 **9**	14	Lattice tower, white diamond daymark, orange border; 31.	Synchronized with rear light.
5372 *C 2361.1*	---Rear, 130 meters 142°30′ from front.	55° 37.0′ N 12° 59.8′ E	**Q.R.**	39 **12**	14	Lattice tower, white diamond daymark, orange border; 40.	
5376 *C 2358*	-Malmo Vagbrytarbank, NE. corner.	55° 37.5′ N 12° 58.6′ E	**Iso.W.R.G.** period 10s	36 **11**	W. 13 R. 10 G. 9	White tower; 39.	W. 054°30′-056°30′, R.-067°, G.-077°30′, W.-090°, R.-129°, G.-136°30′, W.-151°, R.-206°, G.-278°, W.-287°, R.-330°, G.-054°30′. Unintensified 223°-041°30′. Shown by day Nov. 1 thru Mar. 31.
5380 *C 2364*	-Malmo No. 3, pier head 50 meters W. of ship channel.	55° 37.0′ N 12° 59.0′ E	**Oc.W.R.G.** period 3s	24 **7**	W. 7 R. 5 G. 4	White framework tower.	G. 147°-174°, W.-226°30′, R.-245°, G.-294°, W.-300°, R.-010°.
5384 *C 2365*	-Malmo 12 range, front, east dock corner.	55° 37.2′ N 12° 59.4′ E	**Oc.G.** period 5s	26 **8**	14	Mast, green daymark.	Synchronized with rear light.
5384.1 *C 2365.1*	--Rear, 106 meters 143°30′ from front.	55° 37.1′ N 12° 59.4′ E	**Q.G.**	52 **16**	14	Mast, green daymark.	
	-Free Harbor:						
5396 *C 2374*	--Range, front.	55° 37.0′ N 13° 00.0′ E	**Iso.W.** period 4s	80 **24**	14	Roof of warehouse, orange triangular daymark.	Visible 107°-123°.
5400 *C 2374.1*	---Rear, 350 meters 117° from front.	55° 36.8′ N 13° 00.7′ E	**Q.W.**	105 **32**	14	White tower, orange diamond daymark.	Visible 107°-123°.
5404 *C 2372*	--No. 6, N. side of entrance.	55° 37.0′ N 13° 00.0′ E	**Q.R.**	15 **5**	5	Beacon.	Visible 275°30′-115°30′.
5408 *C 2370*	--No. "5" pier, head.	55° 37.0′ N 13° 00.0′ E	**Q.G.**	22 **7**	4	White square iron hut; 9.	Visible 116°-300°.
	-Commercial Harbor:						
5412 *C 2378*	--Entrance range, front.	55° 37.6′ N 13° 01.3′ E	**Oc.W.** period 3s lt. 2.5s, ec. 0.5s	40 **12**	12	White lattice tower, orange diamond daymark.	
5416 *C 2378.1*	---Rear, 200 meters 082°30′ from front.	55° 37.6′ N 13° 01.4′ E	**Oc.W.** period 3s lt. 2.5s, ec. 0.5s	65 **20**	12	White lattice tower, orange diamond daymark.	Synchronized with front.
5420 *C 2384*	--Industrihamnen.	55° 37.0′ N 13° 02.0′ E	**Oc.W.R.G.** period 3s	79 **24**	W. 9 R. 6 G. 5	Red and white latticework mast; 164.	G. 084°-103°, W.-108°, R.-140°.
5424 *C 2380*	--No. "11" mole, head.	55° 38.0′ N 13° 01.0′ E	**Q.R.**	20 **6**	4	White metal hut.	
5428 *C 2382*	--No. "10" mole, head.	55° 37.0′ N 13° 01.0′ E	**Q.G.**	20 **6**	3	White metal hut.	
5432 *C 2357*	-Turbinhamnen Norra.	55° 36.6′ N 12° 58.3′ E	**Oc.W.R.G.** period 4s		5		G. 003°-113°, W.-122°, R.-175°.
5433 *C 2357.2*	--Sodra.	55° 36.6′ N 12° 58.3′ E	**F.G.**				
5440 *C 2394*	-Norra.	55° 35.8′ N 12° 55.8′ E	**Oc.W.R.G.** period 6s lt. 4.5s, ec. 1.5s	28 **9**	W. 9 R. 6 G. 5	White structure, red band, pierhead. Floodlit.	R. 142°-175°, G.-192°, W.-211°30′, R.-222°, G.-232°, G. (unintensified)-013°. Shown by day Nov. 1 to Mar. 31.
5452 *C 2397*	-Central harbor range, E. front.	55° 35.8′ N 12° 55.9′ E	**Iso.R.** period 3s	33 **10**	9	Gray tower, black and white triangular daymark, point up.	Synchronized with west range.
5456 *C 2397.1*	--Rear, 775 meters 200°30′ from front.	55° 35.3′ N 12° 55.5′ E	**Q.R.**	66 **20**	9	Gray tower, black and white triangular daymark, point down.	
5460 *C 2398*	-Sodra Range, front.	55° 35.3′ N 12° 55.3′ E	**Iso.R.** period 3s	26 **8**	10	White framework tower, red and black triangular daymark, point up.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-THE SOUND				
5464 *C 2398.1*	- -Rear, 150 meters 097° from front.	55° 35.1′ N 12° 55.4′ E	**Q.R.**	37 **11**	10	Gray framework tower, red and black triangular daymark, point down.	Visible on range line only.
5480 *C 2352.5*	**Flintrannan,** NE. entrance to channel.	55° 36.8′ N 12° 53.4′ E	**Oc.(2)W.R.G.** period 8s	43 **13**	W. **16** R. 13 G. 12	White tower, red band. Floodlit.	G. 146°06′-217°18′, W.-274°12′, R.-146°06′. Channel marked by lighted beacons.
	RACON		**C(– • – •)** period 30s				(3 & 10 cm)
5482 *C 2349.31*	-Oresund Bridge NW. Range, front.	55° 34.5′ N 12° 49.6′ E	**Iso.W.** period 4s	226 **69**	9		Shown 24 hours.
	-RACON		**T(–)** period 30s				(3 & 10 cm)
5482.1 *C 2349.32*	- -Rear, 28 meters 221° from front.	55° 34.5′ N 12° 49.5′ E	**Iso.W.** period 4s	253 **77**	9		Shown 24 hours.
5483 *C 2349.33*	- -NE. Range, front.	55° 34.5′ N 12° 49.7′ E	**Iso.R.** period 4s	230 **70**	9		Shown 24 hours.
5483.1 *C 2349.34*	- - -Rear, 28 meters 221° from front.	55° 34.5′ N 12° 49.7′ E	**Iso.R.** period 4s	256 **78**	9		Shown 24 hours.
5490 *C 2349.03*	Trindelspannet, center.	55° 34.2′ N 12° 50.9′ E	**Fl.W.** period 3s	141 **43**	9		On N. and S. sides.
5490.1 *C 2349.02*	-E. Pier.	55° 34.2′ N 12° 51.0′ E	**Fl.(2)R.** period 4s	39 **12**	7		On N. and S. sides.
5490.2 *C 2349.04*	-W. Pier.	55° 34.2′ N 12° 50.9′ E	**Fl.G.** period 2s	39 **12**	7		On N. and S. sides.
5492 *C 2349.4*	Flinten, SW.	55° 35.2′ N 12° 49.9′ E	**Iso.G.** period 3s	39 **12**	12	White lantern on white tower, green band, gray foundation; 43. Floodlit.	
5494 *C 2349.5*	**Flintrannan,** SW. entrance to channel.	55° 31.1′ N 12° 44.7′ E	**Oc.(2)W.R.G.** period 8s	38 **12**	W. **16** R. 13 G. 11	White tower, red band. Floodlit.	W. 014°12′-129°24′, R.-336°54′, G.-014°12′.
	-RACON		**C(– • – •)** period 30s				
5496 *C 2408*	Hollviken, channel W. side.	55° 30.7′ N 12° 50.9′ E	**Fl.(2)W.R.G.** period 6s	30 **9**	W. 9 R. 7 G. 6	Tower, top half white, bottom green, white lantern; 34. Floodlit.	G. 012°30′-017°, W.-019°, R.-057°, G.-064°, W.-069°, R.-081°, G.-112°30′, R.-132°, G.-145°, W.-149°, R.-163°, G.-174°, W.-178°, R.-193°, G.-325°, W.-334°30′, R.-012°30′. **Radar reflector.**
	RACON		**N(– •)** period 30s		12		
5504 *C 2403*	-Range, front.	55° 31.4′ N 12° 53.9′ E	**Q.R.**	30 **9**	2	Orange triangular daymark, point up, on framework tower.	
5508	- -Rear, 120 meters 076° from front.	55° 31.4′ N 12° 53.9′ E	**Iso.R.** period 4s	52 **16**	2	Orange triangular daymark, point down, on framework tower.	
5512 *C 2405*	Klagshamnverket Range, front.	55° 32.0′ N 12° 54.0′ E	**F.G.**	26 **8**	8	Post, triangular white daymark, red border.	Range marks sewer outfall.
5516 *C 2405.1*	-Rear, 300 meters 110° from front.	55° 31.5′ N 12° 54.5′ E	**F.G.**	46 **14**	8	Building, triangular white daymark, red border.	
5517 *C 2406*	Sydgas Range, front.	55° 31.2′ N 12° 53.7′ E	**Iso.Y.** period 4s	46 **14**	10	Yellow diamond on gray lattice mast.	
5517.1 *C 2406.1*	-Rear, 471 meters 093° from front.	55° 31.2′ N 12° 54.1′ E	**Q.Y.**	68 **21**	10	Yellow diamond on gray lattice mast.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-THE SOUND				
	FALSTERBOKANALEN:						
5520 *C 2410*	-Hollrevet, W. side of channel.	55° 26.9′ N 12° 54.2′ E	**Q.W.**	19 **6**	7	White hut with green band on gray concrete base; 20.	In line 155° with lights No. 6 and No. 4, marks W. limit of channel.
5524 *C 2412.2*	-No. 6, head of W. pier.	55° 24.9′ N 12° 55.8′ E	**Oc.W.** period 3s	19 **6**	14	White pedestal, yellow rectangular daymark with black diamond. Floodlit.	Visible on range 155° only.
5526 *C 2412*	-No. 5, head of E. pier.	55° 24.9′ N 12° 55.9′ E	**Oc.W.** period 3s	19 **6**	14	White pedestal, yellow rectangular daymark with black diamond. Floodlit.	Visible on range line only. In line 155° with No. 3, marks E. limit of channel.
5528 *C 2412.6*	-No. 4.	55° 24.0′ N 12° 56.5′ E	**Oc.W.** period 3s	79 **24**	13	Black framework tower; 69.	Visible on range 155° and 330° only. Synchronized with No. 6.
5530 *C 2412.4*	-No. 3.	55° 24.1′ N 12° 56.6′ E	**Oc.W.** period 3s	79 **24**	14	Black framework tower; 69.	Visible on range 155° only. Synchronized with No. 5.
5532 *C 2413*	-No. 2, head of W. pier.	55° 23.6′ N 12° 56.8′ E	**Fl.G.** period 3s	19 **6**	2	White hut.	
5536 *C 2412.8*	-No. "1", E. pier, head.	55° 23.6′ N 12° 57.0′ E	**Oc.W.R.G.** period 10s lt. 8s, ec. 2s	22 **7**	W. 13 R. 10 G. 8	White hut.	R. approx. 265°-303°, G.-328°, W.-333°, R.-005°, W. (unintensified)-065°, R. (unintensified)-approx. 175°. In line 330° with No. 4.
5540 *C 2414*	Skanor, head of mole.	55° 25.0′ N 12° 50.0′ E	**L.Fl.(2)R.G.** period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	23 **7**	R. 10 G. 9	White tower; 20.	G. 030°-063°, R.-130°, G.-171°, R.-shore.
5544 *C 2414.3*	-Range, front, on N. jetty.	55° 25.2′ N 12° 49.7′ E	**F.R.**	16 **5**		Post, red triangle daymark, point upward.	
5548 *C 2414.31*	- -Rear, 35 meters 120° from front, NE. corner of harbor basin.	55° 25.2′ N 12° 49.7′ E	**F.R.**	20 **6**		Post, red triangle daymark, point downward.	
5552 *C 2414.4*	-Inlopp, head of pier.	55° 25.2′ N 12° 49.7′ E	**F.G.**	13 **4**		Framework tower.	
5556 *C 2416*	Falsterbo, near extremity of point.	55° 23.1′ N 12° 49.1′ E	**Oc.W.** period 5s	78 **24**	10	Yellowish-gray circular tower, black band; 82.	V.Q.R. light shown on radar mast 1.6 miles ENE. during firing practice.
5560 *C 2417*	**Falsterborev.**	55° 18.5′ N 12° 39.5′ E	**Iso.W.R.G.** period 8s	95 **29**	W. **22** R. **19** G. **18**	Orange and black banded tower, gray base in water; 100.	G. 220°-287°, W.-192°, R.-220°.
	RACON		**M(– –)** period 30s		**16**		
5564	*Blenheim Buoy.*	55° 16.7′ N 12° 52.8′ E	**Q.(6)+L.Fl.W.** period 15s			S. CARDINAL YB, pillar, topmark.	
	RACON		**B(– • • •)** period 30s		14		
5568 *C 2420*	Skarelage, head of outer W. mole.	55° 22.0′ N 13° 03.0′ E	**Q.W.R.G.**	24 **7**	W. 6 R. 4 G. 4	Red square daymark on white framework tower.	G. shore-343°, W.-002°, R.-shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SWEDEN-THE SOUND						
	TRELLEBORG (TRALLEBORG):						
5572 *C 2424*	-W. side of entrance channel.	55° 21.0′ N 13° 09.0′ E	**Iso.W.R.G.** period 8s	39 **12**	W. **16** R. 13 G. 12	Black tower with white band and white lantern gray base; 48.	G. 279°-311°30′, W.-060°, R.-082°, G.-099°, G. (unintensified)-110°, W. (unintensified)-279°. **Radar reflector.**
	-RACON		**T(–)** period 30s		13		
5576 *C 2430*	-E. breakwater, head.	55° 22.0′ N 13° 09.0′ E	**Fl.(2)G.** period 6s	26 **8**	8	Gray base; 12.	
5580 *C 2431*	-W. breakwater, head.	55° 22.0′ N 13° 09.0′ E	**Fl.R.** period 3s	26 **8**	9	Gray base; 12.	
5584 *C 2428*	-E. range, front.	55° 22.0′ N 13° 09.0′ E	**Oc.Y.** period 4s	39 **12**	**15**	Gray framework structure with triangular-shaped daymark, black band. Floodlit.	
5588 *C 2428.1*	- -Rear, 540 meters 014° from front.	55° 22.3′ N 13° 09.5′ E	**Oc.Y.** period 4s	71 **22**	**15**	Red and white framework mast with triangular-shaped daymark point down. Floodlit.	
5599 *C 2436*	-Head of E. pier, front.	55° 21.0′ N 13° 14.0′ E	**F.R.**	13 **4**	7	Red border on framework tower with white triangular-shaped daymark point up. Floodlit.	
5599.1 *C 2436.1*	- -Rear, 201 meters 022°30′ from front.	55° 21.4′ N 13° 14.0′ E	**F.R.**	36 **11**	7	Red border on framework tower with white triangular point down.	
5604 *C 2445*	**Kullagrund.**	55° 18.0′ N 13° 19.5′ E	**Iso.W.R.G.** period 4s	60 **18**	W. **16** R. 13 G. 12	Red tower, black band, white lantern on gray base; 67. Floodlit. Helicopter platform.	R. 181°-244°, G.-271°, W.-105°, R.-120°, G.-181°. Shown by day from Nov. 1 to Mar. 31.
	RACON		**K(– • –)** period 30s		14		
5606 *C 2439*	Smygehuk.	55° 20.3′ N 13° 21.1′ E	**Fl.(1+2)W.** period 20s fl. 0.7s, ec. 8.2s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 8.2s	62 **19**	8	Tower; 56.	Visible 262°-095°.
5608 *C 2440*	Smygehamn Ostra Torp Range, front.	55° 20.0′ N 13° 22.0′ E	**F.R.**	23 **7**	5	Lantern on platform, red triangular daymark.	Shown from Aug. 1 to June 1.
5612 *C 2440.1*	-Rear, 100 meters 003° from front.	55° 20.4′ N 13° 21.6′ E	**F.R.**	32 **10**	5	Lantern on platform, red triangular daymark.	Shown from Aug. 1 to June 1.
5616 *C 2448*	Abbekas, head of N. pier, front.	55° 23.0′ N 13° 36.0′ E	**F.R.**	26 **8**	2	Post, red triangular daymark.	
5620 *C 2448.1*	-Rear, 85 meters 297° from front.	55° 23.7′ N 13° 36.4′ E	**F.R.**	33 **10**	2	Post, red triangular daymark.	
	YSTAD:						
5624 *C 2450*	-Range, front.	55° 25.5′ N 13° 49.7′ E	**Iso.W.** period 4s	102 **31**	**15**	Framework structure, orange triangular daymark, point up.	
5628 *C 2450.1*	- -Rear, 250 meters 036° from front.	55° 25.6′ N 13° 49.8′ E	**Iso.W.** period 4s	121 **37**	**15**	Framework structure, orange triangular daymark, point down.	
5632 *C 2450.5*	-Outer E. breakwater, head.	55° 25.0′ N 13° 49.0′ E	**Fl.(2)G.** period 6s	26 **8**	5	White structure. Floodlit.	
5636 *C 2450.4*	-Outer W. detached breakwater, S. head.	55° 25.1′ N 13° 49.1′ E	**Fl.R.** period 3s	26 **8**	9	White concrete structure. Floodlit.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-THE SOUND				
5640	Obstruction light.	55° 26.5′ N 13° 58.1′ E	**V.Q.W.**	131 **40**	**21**	Mast.	Occasional.
5644 *C 2458*	Kaseberga Hamn, N. breakwater, head.	55° 23.0′ N 14° 04.0′ E	**Q.W.R.G.**	25 **8**	W. 5 R. 3 G. 2	Red metal framework tower.	R. 276°-288°, G.-302°, W.-035°, R.-065°. **Horn:** Mo.(R) ev. 60s. Occas.
5648 *C 2460*	**Sandhammaren,** SE. point of Sweden.	55° 23.3′ N 14° 11.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	101 **31**	**22**	Red iron tower; 96.	
			DENMARK-BORNHOLM				
5656 *C 2504*	Hammershavnen, E. of harbor.	55° 17.0′ N 14° 46.0′ E	**Iso.W.R.G.** period 2s	39 **12**		White wooden hut; 10.	G. 064°-073°, W.-077°, R.-086°.
5660 *C 2505*	-N. mole.	55° 17.0′ N 14° 45.0′ E	**F.R.**	22 **7**		Lattice mast.	
5664 *C 2503*	-Head of N. mole, front.	55° 14.9′ N 14° 44.2′ E	**F.R.**	13 **4**	5	White post; 7.	Visible 040°-270°.
5668 *C 2503.1*	-Rear, 56 meters 155° from front.	55° 14.9′ N 14° 44.2′ E	**F.R.**	27 **8**	5	Mast; 16.	Visible 040°-270°.
5672 *C 2502*	Vang Havn pier.	55° 14.8′ N 14° 43.8′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	3	Gray post; 3.	
5680 *C 2494*	Hasle Havn Range, front.	55° 11.4′ N 14° 42.2′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 7 R. 4 G. 4	Gridwork mast, red and white band, triangular daymark, point up; 16.	G. 085°-093°, W.-101°, R.-109°.
5684 *C 2494.1*	-Rear, 120 meters 097° from front.	55° 11.4′ N 14° 42.3′ E	**Iso.W.** period 4s	36 **11**	7	Mast, red and white bands, triangular daymark, point down; 20.	Visible 007°-187°.
5692 *C 2495*	-W. mole, head.	55° 11.4′ N 14° 42.0′ E	**Fl.G.** period 3s fl. 0.8s, ec. 2.2s	20 **6**	3	Gray lattice mast, green base; 20.	
5693 *C 2496*	-N. mole, head.	55° 11.4′ N 14° 42.1′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	20 **6**	3	Gray lattice mast; 16. Floodlit.	
	RONNE HAVN:						
5700 *C 2486*	-S. breakwater, W. head.	55° 05.7′ N 14° 41.3′ E	**F.G.**	30 **9**	6	Green, square tower; 30. Floodlit.	
5704 *C 2488*	-Trindelen Breakwater, S. head.	55° 05.8′ N 14° 41.2′ E	**F.R.**	26 **8**	4	Red, concrete post; 10. Floodlit.	Visible 185°-095°.
5705 *C 2489*	- -Inner mole, head.	55° 05.9′ N 14° 41.6′ E	**F.R.**	36 **11**	5	Gray round granite tower; 30.	
5706 *C 2484*	-Shelter mole, head.	55° 05.6′ N 14° 40.9′ E	**Fl.G.** period 3s fl. 0.7s, ec. 2.3s	36 **11**	8	Green tower; 16. Floodlit.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
5707 *C 2484.2*	-N. Shelter mole, head.	55° 05.7′ N 14° 40.9′ E	**Fl.R.** period 3s fl. 0.7s, ec. 2.3s	36 **11**	8	Red framework tower. Floodlit.	
5708	-Entrance Range, front.	55° 06.0′ N 14° 42.0′ E	**Iso.W.** period 2s	30 **9**	14	Gray round granite tower; 30.	Visible 270°-087°.
5712	- -Middle, 277 meters 235°30′ from rear.	0° 00.0′ 0° 00.0′	**Iso.W.** period 3s	49 **15**	11	Gray framework mast; 39.	Visible 000°-112°.
5716	- -Rear, 367 meters 055°30′ from front.	0° 00.0′ 0° 00.0′	**Iso.W.** period 4s	79 **24**	14	Black and yellow octagonal tower; 59.	Visible 323°-143°, except for small sectors outside range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-BORNHOLM				
5716.5 *C 2483*	-Range, front.	55° 05.9′ N 14° 41.8′ E	**Iso.W.** period 2s	52 **16**	9	Framework tower; 46.	Visible 048°-081°. Iso.W. 2s 2M by day.
5716.51 *C 2483.1*	- -Rear, 229 meters 064°30′ from front.	55° 06.0′ N 14° 42.0′ E	**Iso.W.** period 4s	79 **24**	9	Red mast; 39.	Visible 048°-081°. Iso.W. 4s 2M by day.
5717	-Sector light.	55° 06.5′ N 14° 42.1′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	16 **5**	W. 6 R. 4 G. 4	White tower, two red bands; 10.	G. 045°-090°, W.-105°, R.-180°.
5720 *C 2555*	Arnager Badehavn, SW. side of Bornholm, head of N. mole.	55° 03.0′ N 14° 47.0′ E	**F.W.**	15 **5**		White post.	Visible 276°-315°. Occasional.
5724 *C 2555.5*	Ronne AVIATION LIGHT.	55° 04.0′ N 14° 45.0′ E	**Fl.W.** period 3s	128 **39**		Yellow control tower; 79.	Occasional.
5732 *C 2550*	**Dueodde.**	55° 00.0′ N 15° 05.0′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.3s fl. 0.5s, ec. 1.3s fl. 0.4s, ec. 6s	157 **48**	**20**	White hexagonal tower; 154.	
5736 *C 2548*	Snogebaek Havn, S. head of W. mole, front.	55° 01.6′ N 15° 07.4′ E	**F.R.**	13 **4**	1	Gray post; 20.	Visible 258°12′-018°12′. Occasional.
5740	-Rear, 49 meters 318°12′ from front.	55° 01.6′ N 15° 07.3′ E	**F.R.**	20 **6**	1	Gray post; 13.	Visible 258°12′-018°12′. Occasional.
	NEKSO HAVN:						
5744 *C 2542*	-S. breakwater, head.	55° 04.0′ N 15° 08.0′ E	**F.R.**	33 **10**		Red tripod; 20.	
5748 *C 2541*	-Detached breakwater, head.	55° 03.9′ N 15° 08.5′ E	**Fl.R.** period 3s	39 **12**		Red framework tower; 30.	**Siren:** 1 bl. ev. 30s.
5752 *C 2546*	-Near entrance to S. boat harbor, front.	55° 04.0′ N 15° 08.0′ E	**F.G.**	30 **9**		White framework tower; 26.	Visible 130°-350°.
5756 *C 2546.1*	- -Rear, 100 meters 232° from front.	55° 03.7′ N 15° 08.1′ E	**F.G.**	39 **12**		Gable of building.	Visible 130°-350°.
5760 *C 2540*	Aarsdale Havn, front.	55° 02.0′ N 15° 07.0′ E	**F.R.**	26 **8**		Post, white triangular daymark.	Occasional.
5764 *C 2540.1*	-Rear, 40 meters 248°30′ from front.	55° 06.5′ N 15° 08.6′ E	**F.R.**	51 **16**		Post, white triangular daymark; 16.	Occasional.
	SVANEKE:						
5768 *C 2530*	**-Sandkaas Odde.**	55° 07.8′ N 15° 09.4′ E	**Fl.(2)W.** period 20s fl. 1s, ec. 3s fl. 1s, ec. 15s	65 **20**	**21**	Gray square stone tower; 59.	Visible 135°-000°.
5772 *C 2534*	-Head of breakwater.	55° 08.2′ N 15° 09.9′ E	**Fl.G.** period 3s	23 **7**		Green post; 16.	
5776 *C 2532*	-Breakwater, head.	55° 08.1′ N 15° 08.8′ E	**Iso.W.R.G.** period 4s	20 **6**	5	Red square wooden building; 13.	G. 203°30′-208°30′, W.-222°, R.-227°.
5780 *C 2538*	-Range, front.	55° 08.2′ N 15° 08.7′ E	**Iso.R.** period 2s	16 **5**		Gray post.	Shown Aug. 15 to May 1.
5784 *C 2538.1*	- -Rear, 18 meters 297° from front.	55° 08.2′ N 15° 08.7′ E	**Iso.R.** period 2s	20 **6**		Gray post; 10.	
5792 *C 2527*	-Range, front.	55° 08.8′ N 15° 06.6′ E	**F.R.**	30 **9**	4	Framework mast, red triangular daymark, point up; 26.	Visible 131°36′-271°36′. Shown when vessel is expected.
5796 *C 2527.1*	- -Rear, 25 meters 201°36′ from front.	55° 08.8′ N 15° 06.7′ E	**F.R.**	38 **12**	4	Framework mast, red triangular daymark, point down; 31.	Visible 131°36′-271°36′. Shown when vessel is expected.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DENMARK-BORNHOLM				
	GUDHJEM:						
5808 *C 2522*	-Near harbor entrance, front.	55° 13.0′ N 14° 58.0′ E	**F.R.**	39 **12**	2	Mast, orange triangular daymark, point up.	Occasional.
5812 *C 2522.1*	- -Rear, 50 meters 202° from front.	55° 12.8′ N 14° 58.3′ E	**F.R.**	65 **20**	2	Mast, orange triangular daymark, point down.	Occasional.
5816 *C 2518*	-Norresand, SE. of harbor, front.	55° 12.9′ N 14° 58.1′ E	**F.R.**	20 **6**		Post; 10.	Occasional.
5820 *C 2518.1*	- -Rear, 58 meters 120° from front.	55° 12.9′ N 14° 58.1′ E	**F.R.**	27 **8**		Post; 30.	Shown from Aug. 1 to Apr. 1. Occasional.
	TEJN HAVN:						
5824 *C 2516*	-NW. of rear range.	55° 15.0′ N 14° 50.0′ E	**Fl.R.** period 3s	26 **8**	3	Red framework mast; 16.	
5826 *C 2516.5*	-Head of W. mole.	55° 15.0′ N 14° 50.2′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	30 **9**	W. 7 R. 4 G. 4	Mast on building; 23.	W. 160°-204°, R.-238°, G.-160°.
5828 *C 2517*	-Range, front.	55° 15.0′ N 14° 50.0′ E	**Iso.G.** period 2s	23 **7**	2	Trellis-like mast, red rectangular daymark, point up.	Visible 134°24′-154°24′.
5832 *C 2517.1*	- -Rear, 144°24′ from front.	55° 14.9′ N 14° 50.3′ E	**Iso.G.** period 4s	33 **10**	2	Trellis-like mast, red rectangular daymark, point down.	Visible 134°24′-154°24′.
	ALLINGE HAVN:						
5836 *C 2512*	-Head of S. mole, front.	55° 17.0′ N 14° 48.0′ E	**F.G.**	16 **5**	4	Gray mast; 11.	Only shown when harbor is accessible. Visible 174°-354°.
5840 *C 2512.1*	- -Rear, 47 meters 250° from front.	55° 16.7′ N 14° 48.1′ E	**F.G.**	26 **8**	4	Gray framework tower; 13.	Only shown when harbor accessible. Visible 174°-354°.
5844 *C 2508*	**Hammerodde,** N. end of Hammeren.	55° 17.9′ N 14° 46.5′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	69 **21**	**18**	White rectangular tower; 39.	Intensified 051°-300°, faint light visible elsewhere. **DGPS Station.**
5848 *C 2556*	**Christianso,** largest tower of fort.	55° 19.2′ N 15° 11.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	95 **29**	**18**	White round tower; 53.	Obscured over small sector, about 324°. Experimental lamp showing yellowish-white.
	CHRISTIANSO:						
5852	-Caution light, 110 meters 181° from Christianso.	55° 19.0′ N 15° 11.0′ E	**3 F.R.** (vert.)	16 **5** 23 **7**	2	Hut.	Occasional.
5856 *C 2558*	-Frederikshlom, W. side of harbor.	55° 19.0′ N 15° 11.0′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 7 R. 4 G. 4	White wooden house, red band; 11.	G. 172°-186°, W.-194°, R.-204°, obsc.-341°, G.-347°, W.-350°, R.-358°, obsc.-172°.
5860 *C 2562*	-Tat.	55° 19.8′ N 15° 10.8′ E	**Fl.(2)W.** period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	23 **7**	7	White tower, red band; 6.	

Section 5

Germany, Poland, Russia and South Coast of Sweden

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-BALTIC SEA				
	HIDDENSEE:						
5864 *C 2588*	**-Der Dornbusch.**	54° 36.2′ N 13° 07.4′ E	**L.Fl.W.R.** period 10s fl. 2.4s, ec. 7.6s	312 **95**	W. **21** R. **15**	Gray tower; 92.	R. 023°-053°, W. 023°.
5868 *C 2586*	**-Gellen.**	54° 31.0′ N 13° 05.0′ E	**Oc.(2)W.R.G.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	32 **10**	W. **15** R. 11 G. 10	White round tower on stone base, red gallery and lantern, red conical roof; 40.	R. 013°-074°, W.-106°, R.-169°, W.-184°, R.-219°, G.-238°, W.-013°. F.R. range lights (occasional), mark entrance to Neuendorf Plogshagen.
	STRALSUND APPROACH:						
5872 *C 2575.9*	-Bock Range, front.	54° 26.6′ N 13° 01.9′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	39 **12**	13	White framework tower, gallery, red lantern, white conical roof on gray base; 43.	Visible 302°-342°.
5876 *C 2576*	-Zarrenzin.	54° 26.9′ N 13° 01.5′ E	**Oc.W.R.G.** period 6s lt. 5s, ec. 1s	74 **23**	W. 13 R. 10 G. 9	White framework tower, gallery, red lantern, white conical roof on gray base; 75.	W. 089°-180°, R.-191°, W.-290°, G.-308°, W.-069°, obsc.-089°. In line 322°06′, synchronized, with Bock, front.
5880 *C 2576.1*	--Rear, 2.1 km. 195°06′ from Zarrenzin.	54° 25.6′ N 13° 00.9′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	171 **52**	**18**	Framework tower, red and white bands, red lantern, white conical roof; 79.	Visible on range line only. Synchronized with Zarrenzin.
5884 *C 2583*	-Bootshaten Range, front.	54° 26.0′ N 13° 02.0′ E	**Oc.R.** period 6s lt. 5s, ec. 1s	23 **7**	1	Mast, white triangular daymark, point up; 20.	
5888 *C 2583.1*	--Rear, 228°30′ from front.	54° 25.8′ N 13° 01.6′ E	**Oc.R.** period 6s lt. 5s, ec. 1s	33 **10**	1	Mast, white triangular daymark, point down; 23.	
5892 *C 2585*	-Range, near Bessiner Haken, front.	54° 22.0′ N 13° 08.0′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	39 **12**	12	Framework tower, red and white bands, white triangular daymark, red border; 36.	
5896 *C 2585.1*	--Rear, 2.4 km. 142°06′ from front.	54° 21.3′ N 13° 09.3′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	98 **30**	14	Framework tower, red and white bands, white diamond daymark, red border; 59.	Synchronized with front.
5900 *C 2592*	**Arkona.**	54° 40.8′ N 13° 26.1′ E	**Fl.(3)W.** period 17.1s fl. 0.2s, ec. 4.1s fl. 0.2s, ec. 4.1s fl. 0.2s, ec. 8.3s	246 **75**	**22**	Yellow round tower on substructure, two galleries, red lantern; 115.	
5902 *C 2593*	Lohme.	54° 35.1′ N 13° 36.4′ E	**Oc.W.R.G.** period 6s lt. 4.5s, ec. 1.5s	16 **5**	W. 6 R. 4 G. 4		G. 178°-180°, W.-182°, R.-184°.
5912 *C 2596*	Kollicker Ort.	54° 33.7′ N 13° 40.7′ E	**L.Fl.W.R.** period 6s fl. 1.5s, ec. 4.5s	98 **30**	W. 10 R. 7	White round tower, gallery, pointed roof; 23.	W. 166°-340°, R.-356°.
	SASSNITZ:						
5916 *C 2602*	-E. mole, head.	54° 30.5′ N 13° 38.4′ E	**Oc.W.R.G.** period 6s lt. 5s, ec. 1s	49 **15**	W. 12 R. 8 G. 8	Green octagonal tower, white band, with gallery; 40.	W. 357°48′-224°48′, R.-245°, W.-283°24′, G.-357°48′.
5920 *C 2604*	-W. mole, head.	54° 30.6′ N 13° 38.3′ E	**F.R.**	33 **10**	3	Red twelve-sided beacon.	3 F.R. lights on radio mast on the Leuzberg 0.7 mile NNW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-BALTIC SEA				
5924 *C 2604*	-Entrance Range, front.	54° 30.0′ N 13° 38.0′ E	**Oc.(2)W.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	36 **11**	9	On W. molehead light structure.	Leads into port until abeam E. Mole light.
5928 *C 2604.1*	- -Rear, on quay 300 meters 007°30′ from front.	54° 30.8′ N 13° 38.3′ E	**Oc.(2)W.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	49 **15**	9	Gray lattice beacon, white triangle daymark, red border, point down.	
5938.5 *C 2615.7*	Mukran.	54° 29.0′ N 13° 35.0′ E	**Dir. Iso.W.R.** period 4s	39 **12**	W. 9 R. 6	White mast with platform; 30.	W. 197°-287°, R.-017°.
5938.7 *C 2614*	-N. mole.	54° 28.6′ N 13° 35.8′ E	**Iso.G.** period 4s	52 **16**	10	Green tower, white bands; 56.	
	STRALSUND APPROACH:						
5940 *C 2662*	**-Griefswalder Oie.**	54° 15.0′ N 13° 55.6′ E	**Fl.W.** period 3.8s fl. 0.3s, ec. 3.5s	161 **49**	**26**	Red octagonal tower, brown cupola, black lantern, two galleries; 128.	Storm signals.
5944 *C 2656.6*	-Ruden, N.	54° 12.4′ N 13° 46.3′ E	**Dir.Oc.W.R.G.** period 6s lt. 5s, ec. 1s	82 **25**	W. 7 R. 4 G. 4	White lattice mast, red lantern; 76.	G. 085°-089°30′, W.-090°30′, R.-095°.
5948 *C 2657*	- -E. mole.	54° 12.3′ N 13° 46.4′ E	**F.G.**	19 **6**	2	Green mast; 13.	Visible 260°-359°.
5956 *C 2658*	-Ruden Range, front.	54° 11.9′ N 13° 46.5′ E	**Oc.W.R.G.** period 6s lt. 5s, ec. 1s	26 **8**	W. 9 R. 6 G. 5	Gray round tower.	R. 189°-207°, W.-250°, G.-349°18′.
5960 *C 2658.1*	- -Rear, 600 meters 239°30′ from front.	54° 11.7′ N 13° 45.9′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	52 **16**	11	Gray iron framework tower.	Synchronized with front.
5964 *C 2658.5*	-Ruden.	54° 11.4′ N 13° 46.2′ E	**F.W.R.**	16 **5**	W. 5 R. 3	White metal framework tower, red lantern; 10.	W. 280°-290°, R.-005°, W.-015°.
5968 *C 2659*	-Peenemunde (Guide light).	54° 11.2′ N 13° 46.6′ E	**Oc.W.R.G.** period 6s lt. 5s, ec. 1s	39 **12**	W. 9 R. 6 G. 5	White round tower, red band and lantern; 36.	G. 190°-193°, W.-202°, R.-208°, obsc.-094°, G.-096°, W.-098°, R.-101°, obsc.-190°.
5976	-Vilm.	54° 20.0′ N 13° 33.0′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	75 **23**	W. 7 R. 4 G. 4	White masonry structure, red lantern; 10.	G. 308°-312°, W.-316°, R.-320°, obscured elsewhere.
5980 *C 2653.4*	-Gobbin Range, front.	54° 21.0′ N 13° 36.0′ E	**Oc.(3)W.** period 15s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 8s, ec. 1s	47 **14**	12	White latticework beacon, red and white daymark; 40.	
5984 *C 2653.41*	- -Rear, 1,097 meters 076°06′ from front.	54° 20.9′ N 13° 37.3′ E	**Oc.(3)W.** period 15s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 8s, ec. 1s	104 **32**	12	White latticework beacon, red daymark; 75.	
5988	-Lauterbach.	54° 20.0′ N 13° 30.0′ E	**Oc.W.R.G.** period 6s lt. 5s, ec. 1s	19 **6**	W. 6 R. 4 G. 3	White latticework beacon.	R. 276°-331°, G.-024°, W.-029°, R.-031°30′.
5992	- -Range, front.	54° 21.0′ N 13° 30.0′ E	**Oc.(2)R.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	33 **10**		White latticework beacon, white triangular daymark, red border, point up; 23.	
5996	- - -Rear, 37 meters 313°24′ from front.	54° 20.6′ N 13° 30.0′ E	**Oc.(2)R.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	42 **13**		White latticework beacon, white triangular topmark, red border, point down; 33.	
6000 *C 2655*	-Eldena Range, front.	54° 05.0′ N 13° 28.0′ E	**Oc.(2)W.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	42 **13**	5	Gray trellis beacon, red and white daymark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-BALTIC SEA				
6004	--Rear, 380 meters 182°48′ from front.	54° 05.2′ N 13° 27.6′ E	**Oc.(2)W.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	72 **22**	5	Gray trellis beacon, white diamond topmark, red border; 62.	Synchronized with front.
6008 *C 2654*	-Wieck, N. mole, head.	54° 06.0′ N 13° 28.0′ E	**F.G.**	13 **4**	2	Green post; 7.	
6012 *C 2652.8*	-Falkenhagen Range, front.	54° 12.0′ N 13° 18.0′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	46 **14**	8	Gray lattice beacon, white cylindrical daymark, red border; 39.	
6016 *C 2652.81*	--Rear, 2 km. 269°48′ from front.	54° 12.3′ N 13° 16.3′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	131 **40**	8	Gray lattice beacon, white, red-bordered diamond daymark; 95.	
6020 *C 2626*	-Maltzien Range, front.	54° 14.0′ N 13° 21.0′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	39 **12**	11	White round metal tower, black stripes; 39.	
6024 *C 2626.1*	--Rear, 675 meters 314°12′ from front.	54° 14.4′ N 13° 20.9′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	95 **29**	7	Iron framework tower, white diamond topmark, red border; 59.	
6028 *C 2628*	-Grabow Range, front.	54° 14.0′ N 13° 23.0′ E	**Oc.(2)R.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	39 **12**	7	Red and white framework structure, white triangular daymark, black border; 36.	
6032 *C 2628.1*	--Rear, 450 meters 099°12′ from front.	54° 13.7′ N 13° 23.8′ E	**Oc.(2)R.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	63 **19**	7	Red and white framework structure, white rectangular daymark, black border; 56.	
6040 *C 2625*	--Range, front.	54° 14.0′ N 13° 17.0′ E	**Oc.G.** period 6s lt. 5s, ec. 1s	58 **18**	6	White framework tower, red triangular daymark; 33.	Occasional.
6044 *C 2625.1*	---Rear, 100 meters 245°12′ from front.	54° 14.0′ N 13° 17.1′ E	**Oc.G.** period 6s lt. 5s, ec. 1s	72 **22**	6	White framework tower, red triangular daymark; 42.	Occasional.
6048 *C 2625.4*	-Glewitzer Fahre Range, front.	54° 15.0′ N 13° 19.0′ E	**Oc.G.** period 6s lt. 5s, ec. 1s	42 **13**	6	White framework tower, red triangular daymark; 29.	Occasional.
6052 *C 2625.41*	--Rear, 110 meters 065°12′ from front.	54° 14.6′ N 13° 19.4′ E	**Oc.G.** period 6s lt. 5s, ec. 1s	52 **16**	6	White framework tower, red triangular daymark; 36.	Occasional.
6056 *C 2634*	**-Devin.**	54° 16.2′ N 13° 10.6′ E	**Dir.Oc.(2)W.R.G.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	59 **18**	W. **20** R. 14 G. 14	White metal framework tower, red bands; 30.	G. 290°12′-293°06′, W.-293°18′, R.-296°12′.
6064 *C 2638*	-Drigge Range, front.	54° 17.0′ N 13° 10.0′ E	**Oc.(2)G.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	49 **15**	7	White metal framework structure, red bands, white diamond topmark; 46.	
6068 *C 2638.1*	--Rear, 535 meters 316°36′ from front.	54° 17.7′ N 13° 09.6′ E	**Oc.(2)G.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	79 **24**	7	White iron framework structure, red bands, white triangular topmark; 74.	Synchronized with front.
6072 *C 2641*	-Gustow.	54° 18.0′ N 13° 12.0′ E	**Oc.W.R.G.** period 6s lt. 5s, ec. 1s	16 **5**	W. 3 R. 2 G. 1	Mast; 12.	G. 342°36′-346°54′, W.-351°06′, R.-355°24′.
6076 *C 2640*	-Gustow Range, front.	54° 18.0′ N 13° 12.0′ E	**Oc.W.** period 6s	32 **10**	10	White tower, white triangular daymark, red border.	Occasional.
6080 *C 2640.1*	--Rear, 013°54′ from front.	54° 18.0′ N 13° 11.8′ E	**Oc.W.** period 6s	56 **17**	10	White tower, white triangular daymark, red border.	Occasional.
6084 *C 2644*	-Andershof.	54° 16.3′ N 13° 07.4′ E	**Oc.W.R.G.** period 6s lt. 5s, ec. 1s	72 **22**	W. 8 R. - G. 5	White framework structure, red bands; 66.	R. 192°-194°48′, W.-195°12′, G.-198°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GERMANY-BALTIC SEA				
6096 *C 2643.1*	- -Rear, 440 meters 195° from common front.	0° 00.0′ 0° 00.0′	**Oc.G.** period 6s lt. 5s, ec. 1s	128 **39**	7	White iron framework structure, red bands, white triangular topmark, red border; 49.	Synchronized with Andershof common front (Oc.G.).
6100 *C 2645*	-Danholm Range, front.	54° 18.0′ N 13° 07.0′ E	**Oc.R.** period 6s lt. 5s, ec. 1s	39 **12**	7	Gray metal framework tower on black dolphin; 43.	
6104 *C 2645.1*	- -Rear, 275 meters 333°36′ from front.	54° 18.5′ N 13° 07.0′ E	**Oc.R.** period 6s lt. 5s, ec. 1s	59 **18**	7	Gray framework tower; 52.	
6113 *C 2651.2*	-Stralsund N. mole.	54° 19.2′ N 13° 06.0′ E	**F.W.R.G.**	46 **14**	W. 9 R. 5 G. 5	Black mast, white band; 39.	G. 318°18′-322°18′, W.-326°18′, R.-330°18′.
			POLAND-BALTIC SEA				
	SWINOUJSCIE:						
6116 *C 2668*	**-Pilot Tower.**	53° 55.0′ N 14° 17.0′ E	**Oc.W.R.** period 5s lt. 4s, ec. 1s	223 **68**	W. **25** R. 9	Yellow round brick tower, red bands, 2 story dwelling; 212.	R. 029°-057°, W.-280°. **Radiobeacon.** **Calibration Radiobeacon.**
6120 *C 2672*	-E. mole, head.	53° 56.0′ N 14° 17.0′ E	**Oc.R.** period 4s	42 **13**	10	Red octagonal tower; 36.	Reserve light Fl.R. 3s 6M 6 F.Y. shown along mole. **Nautophone:** Mo.(O) ev. 60s.
6124 *C 2670*	**-Mlyny** first Range, front.	53° 56.0′ N 14° 17.0′ E	**Oc.W.** period 10s lt. 7.5s, ec. 2.5s	36 **11**	**17**	White beacon; 37.	
6128 *C 2670.1*	**- -Galeriowa Beacon,** rear, 170°12′ 520 meters from front.	53° 55.3′ N 14° 16.7′ E	**Oc.W.** period 10s lt. 7.5s, ec. 2.5s	75 **23**	**17**	White round tower, three galleries, white triangular daymark, point down; 79.	Synchronized with front.
6134 *C 2674*	-Stocznioweg Basin.	53° 54.9′ N 14° 16.6′ E	**Fl.(2)G.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	13 **4**	2	Green metal post on pyramidal base.	
6135 *C 2680.5*	-CPN-2 quay.	53° 54.6′ N 14° 16.5′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	20 **6**	2	Red pillar.	
6136 *C 2678*	-Kosa, N. end of quay.	53° 54.0′ N 14° 16.0′ E	**Oc.G.** period 4s	27 **8**	2	White iron framework structure; 26.	
6140 *C 2678.2*	- -S. point of quay.	53° 53.8′ N 14° 15.1′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	22 **7**	2	Green iron framework structure; 21.	
6146 *C 2678.77*	-Oil Terminal, S. end.	53° 53.6′ N 14° 15.1′ E	**Oc.(2)G.** period 8s lt. 1s, ec. 1s lt. 5s, ec. 1s	20 **6**	4	Green column.	
6147 *C 2678.78*	-Mooring dolphin.	53° 53.7′ N 14° 15.1′ E	**Iso.G.** period 2s		4	Dolphin.	
6149 *C 2678.3*	-Eastern Ferry Station.	53° 54.4′ N 14° 15.5′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	23 **7**	2	Green column.	
6149.1 *C 2678.32*	-Middle Ferry Station.	53° 54.4′ N 14° 15.4′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	23 **7**	2	Green column.	
6149.2	-Western Ferry Station.	53° 54.4′ N 14° 15.4′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	23 **7**	2	Green column.	
6152 *C 2679.8*	-Zatoka Pomorska basins Nos. "1" and "2".	53° 53.7′ N 14° 15.8′ E	**Oc.W.R.G.** period 6s	31 **9**	W. 6 R. 4 G. 4	Building.	G. 068°42′-090°30′, W.-103°42′, R.-125°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			POLAND-BALTIC SEA				
	MIELINSKI KANAL:						
6156 *C 2680*	-Mielin.	53° 53.6′ N 14° 15.3′ E	**Fl.(2+1)R.** period 12s fl. 1s, ec. 1s fl. 1s, ec. 2s fl. 1s, ec. 6s	36 **11**	3	Red iron tower, gallery, cross daymark.	Visible 267°-200°.
			Fl.G. period 2s	20 **6**	3		Visible 132°-300°.
6160 *C 2684*	--W. side.	53° 53.0′ N 14° 16.4′ E	**Iso.R.** period 4s	30 **9**	3	White metal framework towers; 26.	Three lights mark W. side of Wypsa Miehn.
6164 *C 2682*	-N. and S. Ranges, common front.	53° 52.7′ N 14° 16.4′ E	**Oc.W.** period 4s	49 **15**	3	White pylon; 47.	Visible 133°-147°.
			Oc.G. period 4s	49 **15**	5		Visible 341°-355°.
6168 *C 2682.1*	--North rear, 210 meters 348°21′ from front.	53° 52.9′ N 14° 16.3′ E	**Oc.G.** period 4s	65 **20**	5	White framework tower, orange bands; 65.	Visible 341°-355°. Reserve light Oc.W. 6s 5M.
6172 *C 2681.9*	--South rear, 226 meters 140° from front.	53° 52.7′ N 14° 16.5′ E	**Oc.W.** period 4s	65 **20**	6	White framework tower, orange bands; 65.	Visible 133°-147°. Reserve light Oc.W. 6s 5M.
6176 *C 2685*	-Mielin.	53° 52.0′ N 14° 16.9′ E	**Iso.R.** period 4s	21 **6**	4	Red metal beacon, 2 cross daymarks; 26.	Visible 310°-240°30′. Reserve light Oc.W.
6180 *C 2687*	-Papronto Range, front.	53° 50.8′ N 14° 17.0′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	43 **13**	5	White square lattice mast; 45.	Visible 161°-175°.
6184 *C 2687.1*	--Rear, 220 meters 168°18′ from front.	53° 50.7′ N 14° 17.1′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	65 **20**	5	Red square framework tower, white bands; 59.	Visible 161°-175°. Synchronized with front.
	PIASTOWSKI KANAL:						
6188 *C 2689*	-Mielinek, N. end Wyspa Karsibor.	53° 51.6′ N 14° 16.9′ E	**Oc.(2)R.G.** period 8s lt. 1s, ec. 1s lt. 1s, ec. 5s	24 **7**	R. 3 G. 3	Beacons with red gallery and cross daymark; 28.	R. 353°-169°, G.-283°.
6192 *C 2690*	-Karsibor Range, front.	53° 51.0′ N 14° 17.0′ E	**Oc.Y.** period 5s lt. 3.5s, ec. 1.5s	49 **15**	5	Round iron tower, white with black top; 50.	Visible 320°12′-323°12′. Reserve light visible 7M.
6196 *C 2690.1*	--Rear, 1.3 km. 321°20′ from front.	53° 52.0′ N 14° 16.0′ E	**F.Y.**	129 **39**	8	Red iron framework tower, white bands; 125.	Reserve light Oc.Y.
6200 *C 2693*	-Entrance, E.	53° 49.0′ N 14° 21.0′ E	**F.W.**	82 **25**	7	Red framework tower, two galleries; 85.	Visible 138°12′-145°12′ and 318°12′-325°12′.
6204 *C 2694*	--W.	53° 48.0′ N 14° 20.0′ E	**F.W.**	82 **25**	7	Green metal tower, two galleries; 88. Same tower.	Visible 138°12′-145°12′, 318°12′-325°12′. **Diaphone:** Mo.(K) ev. 60s.
			F.W.R.	74 **23**	3		W. 026°30′-036°30′, R.-086°.
6212 *C 2695*	-Bramowe, E. Haff mole, head.	53° 49.0′ N 14° 21.0′ E	**F.R.**	46 **14**	4	Gray framework tower, gallery; 40.	Reserve light Oc.R.
	WIELKI ZALEW:						
6216 *C 2700*	-North Haff entrance, E. side of channel. (Brama Tower No. 2).	53° 46.0′ N 14° 24.0′ E	**Fl.(2)W.** period 8s	82 **25**	13	Red framework structure, two galleries, concrete base; 70.	Visible 136°30′-146°, 316°30′-326°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			POLAND-BALTIC SEA				
6220 *C 2701*	--W. No. "2".	53° 45.6′ N 14° 24.2′ E	**Fl.(2)W.** period 8s	82 **25**	13	Green framework structure, two galleries, concrete base; 70.	Visible 136°30′-146°, 316°30′-326°.
	--Fog.		**Fl.W.R.G.** period 4s fl. 0.4s, ec. 3.6s	75 **23**	6		G. 104°-107°, W.-110°, R.-113°.
6224 *C 2702*	-South Haff entrance E. side of channel. (Brama Tower No. 3).	53° 42.8′ N 14° 28.2′ E	**Fl.(3)W.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	82 **25**	13	Red round framework tower, two galleries; 70.	Visible 136°30′-146°, 316°30′-326°.
	-Fog.		**Fl.W.R.G.** period 4s fl. 0.4s, ec. 3.6s	72 **22**	W. 6 R. 4 G. 4	Same structure.	G. 181°54′-186°12′, W.-189°30′, R.-194°30′, W.-227°18′.
6228 *C 2703*	--West No. "3".	53° 42.7′ N 14° 28.0′ E	**Fl.(3)W.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	82 **25**	13	Green round tower, two galleries, concrete base; 70.	Visible 136°30′-146°, 316°30′-326°.
6232 *C 2716*	-Polwysep Row.	53° 48.0′ N 14° 35.3′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	36 **11**	6	Red iron framework tower, red ball daymark; 50.	
6236 *C 2714*	-Skoszewo Range, front.	53° 47.0′ N 14° 36.9′ E	**Iso.W.** period 4s	69 **21**	6	White lattice tower, red square daymark; 70.	
6240 *C 2714.1*	--Rear, 900 meters 081°36′ from front.	53° 47.1′ N 14° 37.7′ E	**Iso.W.** period 4s	111 **34**	6	Red lattice tower; 32.	Synchronized with front.
	-Zatoka Skoszewska:						
6244 *C 2715*	--Sager Range, front.	53° 48.0′ N 14° 37.0′ E	**F.R.**	53 **16**	5	White framework tower, white square daymark; 52.	
6248 *C 2715.1*	---Rear, 512 meters 049° from front.	53° 48.5′ N 14° 37.2′ E	**F.R.**	83 **25**	5	Red framework tower; 46.	
6252 *C 2717*	--Galgenborg Range, front.	53° 50.0′ N 14° 36.0′ E	**F.W.**	49 **15**	5	White slatted tower; 39.	
6256 *C 2717.1*	---Rear, 104 meters 001°54′ from front.	53° 49.8′ N 14° 36.2′ E	**F.W.**	79 **24**	5	Red framework tower.	
6260 *C 2706*	-Lubin Range, front.	53° 51.8′ N 14° 26.5′ E	**Oc.(2)W.** period 8s lt. 1s, ec. 1s lt. 5s, ec. 1s	111 **34**	5	White square iron framework structure; 26.	
6264 *C 2706.1*	--Rear, 230 meters 299°48′ from front.	53° 51.9′ N 14° 26.3′ E	**Oc.(2)W.** period 8s lt. 1s, ec. 1s lt. 5s, ec. 1s	173 **53**	5	White metal framework tower, white square daymark, red border; 52.	Synchronized with front.
	SZCZECIN APPROACH:						
6268 *C 2708*	-Lubin, S. mole of factory basin, head.	53° 53.0′ N 14° 26.0′ E	**F.G.**	23 **7**	1	Post.	
	-Chelminek (Leitholm):						
6276 *C 2719*	--N. end.	53° 40.6′ N 14° 31.5′ E	**F.R.**	42 **13**	3	White framework tower, black top; 42.	
6280 *C 2720*	--S. end.	53° 40.3′ N 14° 32.1′ E	**F.R.**	26 **8**	3	Red metal tower; 26.	
6284 *C 2722*	-E. end.	53° 40.0′ N 14° 32.1′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	82 **25**	7	Red framework tower, concrete base; 79.	Visible 137°18′-144°48′ and 320°18′-327°48′.
6288 *C 2721*	--W. light.	53° 39.8′ N 14° 31.8′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	82 **25**	7	Green round metal tower, concrete base; 79.	Visible 138°-145°48′ and 315°18′-322°48′. Reserve light Oc.W. 5s.

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			POLAND-BALTIC SEA				
6292 *C 2728*	-Mankow Range, front.	53° 37.1′ N 14° 35.6′ E	**Oc.(2)W.** period 8s	49 **15**	7	White round metal tower, orange top; 56.	Visible 137°30′-146°.
	-RACON		**D(– • •)**				
6296 *C 2728.1*	--Rear, about 1.4 km. 141°20′ from front.	53° 36.5′ N 14° 36.5′ E	**Oc.(2)W.** period 8s	105 **32**	7	White triangular metal tower, orange top; 111.	Visible 140°-143°.
	-Trzebiez:						
6300 *C 2724*	--N. beacon Range, front	53° 39.6′ N 14° 31.1′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	36 **11**	7	White lattice tower, red rectangular daymark.	
6304 *C 2724.1*	---Rear, 430 meters 150°12′ from front.	53° 39.4′ N 14° 31.3′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	71 **22**	7	Metal lattice tower, red rectangular daymark.	
6308 *C 2724.4*	--Trzebiez, entrance, N. side.	53° 39.8′ N 14° 31.0′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	19 **6**	2	Red framework tower.	
6312 *C 2724.6*	--NW. breakwater, head.	53° 39.7′ N 14° 31.0′ E	**F.G.**	23 **7**	2	Column; 16.	
6316 *C 2724.8*	---SE. side.	53° 39.6′ N 14° 31.4′ E	**Iso.G.** period 4s	20 **6**	2	Black metal framework tower.	
6320 *C 2725*	--S. breakwater, head.	53° 39.6′ N 14° 31.5′ E	**F.R.**	19 **6**	2	Red and white tower.	
6324 *C 2725.4*	-Trzebiez Range, front.	53° 39.8′ N 14° 30.9′ E	**Oc.Y.** period 4s lt. 3s, ec. 1s	36 **11**	4	Black framework tower, white rectangular daymark; 39.	
6328 *C 2725.5*	--Rear, 370 meters 301°12′ from front.	53° 39.9′ N 14° 30.6′ E	**Oc.Y.** period 4s lt. 3s, ec. 1s	59 **18**	4	Black framework tower, white triangular daymark, point down; 49.	
6332 *C 2730*	-Stepnica Range, front.	53° 38.1′ N 14° 34.7′ E	**Oc.W.** period 8s	49 **15**	5	Orange round metal tower, lower part white; 45.	Visible 345°54′-350°24′.
6336 *C 2730.1*	--Rear, 740 meters 348° from front.	53° 38.5′ N 14° 34.6′ E	**Oc.W.** period 8s	83 **25**	5	Orange square iron structure, lower part white; 79.	Visible 345°54′-350°24′.
6348 *C 2726*	-Great Stepenitz railway harbor Range, front.	53° 38.9′ N 14° 37.2′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	36 **11**	7	Tower, white triangular daymark, point up; 32.	
6352 *C 2726.1*	--Rear, 33 meters 066°36′ from front.	53° 38.9′ N 14° 37.4′ E	**Oc.R.** period 4s	62 **19**	4	Iron framework mast, red and white triangular daymark, point down; 46.	
6360 *C 2726.6*	--S. Mole.	53° 38.9′ N 14° 37.2′ E	**F.G.**	19 **6**	2	Green mast; 13.	
6364 *C 2736*	-Krepa Range, front.	53° 35.9′ N 14° 35.7′ E	**Oc.W.** period 4s	48 **15**	5	Orange round metal tower, lower part white; 46.	Visible 353°54′-358°24′.
6368 *C 2736.1*	--Rear, 650 meters 356° from front.	53° 36.2′ N 14° 35.6′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	85 **26**	5	Orange square iron tower, lower part white; 82.	Visible 353°54′-358°24′.
6372 *C 2732*	-Zulawy.	53° 37.8′ N 14° 35.4′ E	**Oc.W.R.** period 4s lt. 3s, ec. 1s	39 **12**	W. 2 R. 1	White square tower, red top; 50.	W. 024°24′-046°, R.-098°, W.-112°24′.
6373 *C 2732.4*	-Pier, N. end.	53° 36.6′ N 14° 35.4′ E	**Oc.R.** period 4s			Pillar.	
6373.1 *C 2732.5*	--S. end.	53° 36.5′ N 14° 35.5′ E	**Oc.R.** period 4s			Pillar.	
6374 *C 2733*	-Roztoka Odrzanska.	53° 36.6′ N 14° 35.3′ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	21 **6**	5	Dolphin.	Marks gas pipeline.
6376 *C 2734*	-Radun Range, front.	53° 34.8′ N 14° 36.0′ E	**Oc.(2)W.** period 8s	49 **15**	5	White metal tower, conical orange top, two galleries; 49.	Visible 165°54′-170°24′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			POLAND-BALTIC SEA				
6380 *C 2734.1*	--Rear, 800 meters 168°06′ from front.	53° 34.4′ N 14° 36.2′ E	**Oc.(2)W.** period 8s	84 **26**	5	White square tower, orange top, two galleries, conical roof; 92.	Visible 165°54′-170°24′.
6382 *C 2735*	-Wielki Karu, N. end.	53° 35.7′ N 14° 35.2′ E	**Q.W.**	40 **12**	4	N. CARDINAL BY, tower, topmark.	
6384 *C 2741*	-Domance.	53° 33.4′ N 14° 35.7′ E	**Oc.(2)W.R.** period 8s lt. 1s, ec. 1s lt. 5s, ec. 1s	39 **12**	W. 2 R. 2	White square metal tower with gallery, red top; 46.	W. 191°48′-202°18′, R.-277°30′, W.-292°30′.
6388 *C 2738*	-Dlugi Ostrow, S. end.	53° 34.0′ N 14° 36.0′ E	**Q.(6)+L.Fl.W.** period 15s	26 **8**	6	S. CARDINAL YB, tower, topmark; 29.	
6389 *C 2738.5*	-Police Range, front.	53° 33.7′ N 14° 35.5′ E	**Oc.R.** period 10s	121 **37**	14	Orange and white metal tower.	
6389.1 *C 2738.51*	--Rear, 486 meters 312°36′ from front.	53° 33.9′ N 14° 35.1′ E	**Oc.R.** period 10s lt. 7.5s, ec. 2.5s	197 **60**	14	Orange and white metal tower.	Synchronized with front.
6390 *C 2739*	-Radun Island.	53° 33.5′ N 14° 36.1′ E	**Fl.R.** period 4s fl. 1s, ec. 3s		6	Red beacon, two galleries.	
6392 *C 2743*	-Politzer Wiesen Range, front.	53° 33.1′ N 14° 36.0′ E	**Oc.Y.** period 4s lt. 3s, ec. 1s	49 **15**	5	White tower, orange top, two galleries, conical roof.	
6396 *C 2743.1*	--Rear, 660 meters 176° from front.	53° 32.8′ N 14° 36.0′ E	**Oc.Y.** period 4s lt. 3s, ec. 1s	84 **26**	5	White square metal tower, orange top, two galleries, conical roof.	Synchronized with front.
6398 *C 2740*	-Channel light "36", E. bank.	53° 33.2′ N 14° 36.6′ E	**Fl.R.** period 4s fl. 0.3s, ec. 3.7s	26 **8**	4	Red round tower, white band, gallery.	**Radar reflector.**
	-Domiaza:						
6400 *C 2751*	--Mnisi Ostrow, N.	53° 32.7′ N 14° 37.1′ E	**V.Q.W.**	40 **12**	4	N. CARDINAL BY, tower, topmark.	
6404 *C 2752*	--Kopina, S. end.	53° 33.0′ N 14° 38.0′ E	**Iso.R.** period 4s	24 **7**	2	Red tower; 16.	**Radar reflector.**
6416 *C 2752.6*	--Channel "40", E. bank.	53° 32.8′ N 14° 37.6′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	3	Red dolphin.	**Radar reflector.**
6418 *C 2754.5*	--Channel "41", W. bank.	53° 32.4′ N 14° 37.6′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	3	Green dolphin.	
6420 *C 2754*	---Inskie.	53° 32.5′ N 14° 38.1′ E	**Oc.(2)W.R.** period 8s	39 **12**	W. 2 R. 1	Red square iron structure, lower half white, conical roof; 46.	W. 011°18′-025°30′, R.-107°, W.-118°06′.
6422 *C 2755*	--Channel "43", W. bank.	53° 32.1′ N 14° 37.7′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	3	Green dolphin.	Synchronized with light "44". **Radar reflector.**
6424 *C 2754.7*	--Channel "44", E. bank.	53° 32.1′ N 14° 38.0′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	3	Red dolphin.	Synchronized with light "43".
6428 *C 2746.9*	--Ina N. Range, front.	53° 32.2′ N 14° 38.2′ E	**Oc.W.** period 8s	51 **16**	5	White and black tower; 58.	
6432 *C 2747*	---Common rear, 624 meters 132°36′ from Ina N., front; about 846 meters 018° from Ina S., front.	53° 32.0′ N 14° 38.6′ E	**Oc.W.** period 8s lt. 5s, ec. 3s	85 **26**	5	Black and white tower.	Common rear light for Ina N. and Ina S. range.
6436 *C 2747.1*	--Ina S. Range, front.	53° 31.5′ N 14° 38.4′ E	**Oc.W.** period 8s	49 **15**	5	Black and white tower; 56.	
6438 *C 2749*	--Wyspy Rybi Island.	53° 31.9′ N 14° 38.0′ E	**V.Q.(6)+L.Fl.W.** period 10s	40 **12**	4	S. CARDINAL YB, tower, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	POLAND-BALTIC SEA						
	-Oder (Odra) River:						
6440 *C 2758*	--Wyspa Zurawia, N. end.	53° 31.3′ N 14° 37.8′ E	**V.Q.W.**	39 **12**	5	N. CARDINAL BY, tower.	
6444 *C 2750*	--Babina, W. side of Mewia Wyspa.	53° 31.0′ N 14° 38.3′ E	**Oc.W.R.** period 4s	39 **12**	W. 2 R. 1	Red square iron structure, gallery, lower half white; 46.	W. 037°48′-058°24′, R.-133°42′, W.-154°12′, obscured elsewhere.
6448 *C 2762*	--Bykowo Range, front.	53° 30.5′ N 14° 38.1′ E	**Oc.W.** period 4s lt. 3.5s, ec. 0.5s	49 **15**	5	White tower, orange top; 52.	
6452 *C 2762.1*	---Rear, 600 meters 174° from front.	53° 30.2′ N 14° 38.2′ E	**Oc.W.** period 4s lt. 3.5s, ec. 0.5s	79 **24**	5	Orange square tower, lower part white; 82.	
6455 *C 2767.6*	--Goclaw, N. end.	53° 28.7′ N 14° 36.7′ E	**F.G.**	13 **4**	2	Yellow post. Floodlit base.	
6455.1 *C 2770*	---Basen, BTP. N. side.	53° 28.1′ N 14° 36.1′ E	**Iso.G.** period 2s	30 **9**	3	Black mast.	
6455.12	---Basen, BTP. S. side.	53° 28.1′ N 14° 36.1′ E	**Iso.R.** period 2s	20 **6**	3	Red mast.	
6455.2 *C 2772*	---Lighting Authority Basin, N. side.	53° 28.0′ N 14° 36.1′ E	**Iso.G.** period 2s	25 **7**	3	Black mast.	
6455.3 *C 2772.2*	----S. side.	53° 28.0′ N 14° 36.0′ E	**Iso.G.** period 2s	20 **6**	3	Black mast.	
6456 *C 2764*	--Swieta Range, front.	53° 28.1′ N 14° 36.5′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	49 **15**	5	White tower, black top; 52.	
6460 *C 2764.1*	---Rear, 830 meters 198° from front.	53° 27.6′ N 14° 36.2′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	85 **26**	5	White square metal tower, black top; 89.	
	-Szczecin:						
6462 *C 2813*	--Ostrow Grabowski.	53° 26.5′ N 14° 35.6′ E	**Q.W.R.G.**	36 **11**	W. 8 R. 6 G. 6	White column, two galleries.	W. 189°-191°, R.-195°30′, W.-184°30′, G.-189°.
6472 *C 2876*	-Nowe Warpno, N. landing.	53° 43.6′ N 14° 17.0′ E	**Oc.(2)W.R.G.** period 8s	20 **6**	1	Iron framework mast; 20.	G. 152°-155°, W.-157°, R.-160°. **Whistle.**
6476 *C 2876.2*	--Elbow of Mole.	53° 43.5′ N 14° 17.0′ E	**F.G.**	23 **7**	4	Mast; 19.	
	POLAND-GERMANY-BALTIC SEA						
	NOWE WARPNO:						
6480 *C 2874*	--Altwarp Oder-haff Dolphin "7".	53° 44.0′ N 14° 17.0′ E	**Fl.Y.** period 4s	16 **5**	4	White lantern, black band, on black dolphin.	Visible 153°-010°. Indicates German-Polish border.
6484 *C 2878*	-Uckermunde, W. mole, root.	53° 45.0′ N 14° 04.0′ E	**Oc.W.** period 6s lt. 5s, ec. 1s	36 **11**	13	White square iron structure, gallery; 37.	W. 113°-293°. Shown during open navigation.
6488 *C 2886*	-Kamp Kavnin Range.	53° 50.0′ N 13° 52.0′ E	**Oc.(3)W.** period 15s lt. 8s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	29 **9**	11	White structure, red square daymark; 29.	The opening in the bridge at Zecherin is marked by F.R. and F.G. lights. Reserve light F.W.
6492 *C 2886.1*	--Rear, about 768 meters 283° from front.	0° 00.0′ 0° 00.0′	**Oc.(3)W.** period 15s lt. 8s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	83 **25**	13	Gray framework structure, gallery; 77.	

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			POLAND-BALTIC SEA				
6496 *C 2892*	**Kikut.**	53° 59.0′ N 14° 35.0′ E	**Iso.W.** period 10s	300 **91**	**16**	Gray round tower, white gallery, cupola, white roof; 59.	Visible 063°-241°.
6498	*Swinoujsie Lighted Buoy "N-2", RACON.*	54° 14.7′ N 14° 11.3′ E	**D(– • •)** period 70s		6		
6499	*Swinoujsie Lighted Buoy "N-4",* RACON.	54° 07.4′ N 14° 13.2′ E	**M(– –)** period 70s		6		
6500	*Approach Bell Buoy "DZI".*	54° 04.0′ N 14° 41.0′ E	**L.Fl.W.** period 10s fl. 3s, ec. 7s			Buoy, pillar, red and white stripes.	
6504 *C 2898*	-E. mole, head.	54° 01.5′ N 14° 43.7′ E	**Oc.(2)R.** period 8s lt. 1s, ec. 1s lt. 5s, ec. 1s	33 **10**	7	Concrete post; 30.	**Nautophone:** (near harbor fairway) Mo.(A) ev. 60s. **DGPS Station.**
6508 *C 2897*	-W. mole, head.	54° 01.5′ N 14° 43.6′ E	**Oc.(2)G.** period 8s lt. 1s, ec. 1s lt. 5s, ec. 1s	33 **10**	7	Concrete post; 30.	Reserve light: Fl.G. 5s 4M.
6512 *C 2896*	-Entrance Range, front.	54° 01.3′ N 14° 43.9′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	25 **8**	3	White metal framework tower, white diamond daymark, red border.	Lights are shown on each side of entrance to Basen Rybacki.
6516 *C 2896.1*	- -Rear, about 128 meters 142°30′ from front.	54° 01.2′ N 14° 44.0′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	42 **13**	3	White metal framework tower, red bands, white square daymark.	
6520 *C 2904*	**Niechorze.**	54° 06.0′ N 15° 04.0′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	206 **63**	**20**	Gray octagonal tower, red corners, red dwelling; 148.	
6524 *C 2905*	Mrzezyno, on E. bank of Rega River entrance.	54° 09.0′ N 15° 18.0′ E	**Oc.(2)R.G.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	23 **7**	5	Gray framework steel tower; 20.	G. 106°-146°, R.-196°. **Nautophone:** (30 meters N.) Mo.(P) ev. 60s.
6536 *C 2905.25*	-E. Breakwater, head.	54° 09.0′ N 15° 17.0′ E	**F.R.**	23 **7**	3	White metal column with gallery, red band.	
6540 *C 2905.27*	-W. Breakwater, head.	54° 08.9′ N 15° 17.2′ E	**F.G.**	23 **7**	3	White metal column with gallery, green band.	
	KOLOBRZEG:						
6544	*-Approach buoy "Kol".*	54° 14.0′ N 15° 31.0′ E	**L.Fl.W.** period 10s fl. 3s, ec. 7s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
6548 *C 2908*	-E. mole, head.	54° 12.0′ N 15° 33.0′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	43 **13**	7	White column, red band, white round daymark.	**Nautophone:** Mo.(K) ev. 30s.
6552 *C 2906*	**-Kolobrzeg.**	54° 11.2′ N 15° 33.2′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	108 **33**	**16**	Red tower, black cupola.	Traffic signals.
6556 *C 2910*	-W. mole, head.	54° 11.4′ N 15° 33.2′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	36 **11**	7	Green metal structure, two galleries.	Reserve light Oc.G. 5s.
6560 *C 2914*	**Gaski.**	54° 15.0′ N 15° 52.0′ E	**Oc.(3)W.** period 15s lt. 2.5s, ec. 1.2s lt. 2.5s, ec. 1.2s lt. 6.4s, ec. 1.2s	164 **50**	**23**	Red round tower with reddish-brown dwelling; 165.	
	DARLOWO:						
6564 *C 2918*	-E. mole, root.	54° 27.0′ N 16° 23.0′ E	**L.Fl.(2)W.** period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	64 **20**	**15**	Red square tower, white cupola and gallery; 73.	Visible 040°-220°. **Calibration Radiobeacon.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			POLAND-BALTIC SEA				
6568 *C 2920*	-E. mole, head.	54° 26.6′ N 16° 22.7′ E	**Iso.R.** period 4s	33 **10**	6	Red square metal framework tower; 26.	
6572 *C 2922*	-W. mole, head.	54° 26.5′ N 16° 22.6′ E	**Iso.G.** period 4s	33 **10**	6	Green square metal framework tower; 26.	
6576 *C 2923*	-River entrance, W. mole.	54° 26.0′ N 16° 23.0′ E	**Fl.W.** period 4s	26 **8**	3	Wooden mast.	
6580 *C 2926*	**Jaroslawiec.**	54° 32.5′ N 16° 32.7′ E	**Fl.(2)W.** period 9s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	164 **50**	**23**	Black round tower, near gray dwelling; 103.	Obscured 065°30′-077°30′.
	USTKA:						
6584 *C 2930*	**-Ustka.**	54° 36.0′ N 16° 51.0′ E	**Oc.W.** period 6s lt. 4s, ec. 2s	73 **22**	**18**	Red octagonal masonry tower, white cupola; 70.	
6588 *C 2932*	-E. breakwater, head.	54° 36.0′ N 16° 51.0′ E	**Iso.R.** period 6s	36 **11**	7	Red iron column, white band; 33.	
6596 *C 2933*	-W. breakwater, head.	54° 35.5′ N 16° 51.1′ E	**Iso.G.** period 6s	33 **10**	7	Green iron column, white band; 31.	
6600 *C 2934*	-River entrance, W. side.	54° 35.3′ N 16° 51.2′ E	**Q.G.**	20 **6**	1	Green column.	
6601 *C 2935*	-Basin, W. side.	54° 35.3′ N 16° 51.2′ E	**Q.G.**	20 **6**	1	Green column.	
6608 *C 2939*	Rowy, approach Range, front.	54° 40.0′ N 17° 03.1′ E	**Iso.Y.** period 2s	21 **6**	2	Concrete post, white triangular daymark, red border, point up; 28.	
6612 *C 2939.1*	-Rear, 144° from front.	54° 40.1′ N 17° 03.2′ E	**Iso.Y.** period 2s	25 **8**	2	Concrete post, white triangular daymark, red border, point down; 31.	
6616 *C 2940*	**Czotpino.**	54° 43.0′ N 17° 15.0′ E	**Mo.(N)W.** period 8s	246 **75**	**22**	Round brick tower, black dome; 83.	
	LEBA:						
6620	*-Approach Buoy "LEBA".*	54° 47.1′ N 17° 33.8′ E	**L.Fl.W.** period 10s fl. 2.5s, ec. 7.5s			SAFE WATER RW, pillar, topmark.	
6624 *C 2944*	-E. mole, head.	54° 46.1′ N 17° 33.0′ E	**Iso.R.** period 4s	33 **10**	5	Red column, gallery; 23.	
6627 *C 2944.5*	-W. breakwater.	54° 46.1′ N 17° 33.0′ E	**Dir.W.R.G.**	23 **7**	W. 14 R. 11 G. 11		Fl.G. 197°-198°, F.G.-201°, Al. W.G.-202°, F.W.-204°, Al. R.W.-205°, F.R.-208°, Fl.R.-209°.
6629 *C 2945*	--Head.	54° 46.2′ N 17° 33.0′ E	**Q.(9)W.** period 15s	33 **10**	5		Visible 335°-180°.
			Iso.G. period 4s	33 **10**	5		Visible 180°-335°.
6632 *C 2954*	**Stilo.**	54° 47.0′ N 17° 44.0′ E	**Fl.(3)W.** period 12s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 6.7s	246 **75**	**23**	Red, white, and black pyramidal iron tower; 110.	Visible 050°30′-290°30′.
6634 *C 2957.6*	Platform "PG-1".	55° 27.4′ N 18° 09.4′ E	**Mo.(U)W.** period 15s				**Horn:** Mo.(U).
	RACON		**U(• • –)**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			POLAND-BALTIC SEA				
6634.5 *C 2957.5*	-Platform "Baltic Beta".	55° 28.9′ N 18° 11.0′ E	**Mo.(U)W.** period 15s				**Horn:** Mo.(U) ev. 30s.
	-RACON		**T(–)**				
6634.6	Platform "Petrobaltic".	55° 30.5′ N 18° 12.9′ E	**Mo.(U)W.** period 15s				**Horn:** Mo.(U).
	RACON		**G(– – •)**				
6636 *C 2960*	**Rozewie.**	54° 49.8′ N 18° 20.2′ E	**Fl.W.** period 3s fl. 0.1s, ec. 2.9s	272 **83**	**26**	Red round tower; 106.	**DGPS Station.**
	POLWYSEP HEL:						
6640 *C 2961*	-Wladyslawowo, N. breakwater, head.	54° 47.9′ N 18° 25.5′ E	**L.Fl.G.** period 5s fl. 2s, ec. 3s	43 **13**	5	Green tower and lantern.	
6644	*--Approach Buoy "WLA".*	54° 48.0′ N 18° 27.0′ E	**Iso.W.** period 10s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
6646 *C 2961.4*	-Entrance Range, front.	54° 47.8′ N 18° 25.4′ E	**Iso.R.** period 4s	36 **11**	2	Yellow framework tower, diamond daymark.	
6646.1 *C 2961.41*	--Rear, 260° from front.	54° 47.8′ N 18° 25.1′ E	**Oc.R.** period 6s lt. 4s, ec. 2s	89 **27**	2	Yellow framework tower, diamond daymark.	
6648 *C 2964*	-Inner mole, head, extending from N. breakwater.	54° 48.0′ N 18° 25.0′ E	**F.G.**	21 **6**	2	Post.	
6648.5 *C 2963*	-S. breakwater.	54° 47.8′ N 18° 25.3′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	39 **12**	3	Red mast and gallery.	
6649 *C 2964.6*	-Fishery building	54° 47.7′ N 18° 24.6′ E	**F.R.**	256 **78**	**23**	Tower.	
6650 *C 3002*	-Kuznica Range, front.	54° 44.0′ N 18° 34.9′ E	**F.R.**	46 **14**	3	Framework tower, white triangular daymark, red border.	
6650.1 *C 3002.1*	--Rear, 339° from front.	54° 44.1′ N 18° 34.9′ E	**F.R.**	57 **17**	3	Framework tower, triangular daymark.	
6652 *C 2983*	-Jastarnia Bor Range, front.	54° 41.8′ N 18° 40.5′ E	**Iso.Y.** period 2s	34 **10**	2	Gray metal framework tower, yellow diamond daymark, black border; 32.	Iso.R. 6s and Iso.G. 6s mark breakwaters about 400 meters S.
6656 *C 2983.1*	--Rear, 251 meters 000°24′ from front.	54° 41.9′ N 18° 40.5′ E	**Oc.Y.** period 4s	62 **19**	2	Gray iron framework tower, yellow triangular daymark, black border, point down; 62.	
6660 *C 2986*	--On island, entrance to Jastarnia Bor.	54° 41.1′ N 18° 40.4′ E	**Fl.(3)W.R.** period 10s	30 **9**	8	White column, red bands.	W. 333°-083°, R.-333°.
6664 *C 2965*	**-Jastarnia Wies.**	54° 42.0′ N 18° 41.0′ E	**Mo.(A)W.** period 20s fl. 2s, ec. 2s fl. 9s, ec. 7s	72 **22**	**15**	White round tower, red bands; 44.	
6672 *C 2968*	**-Hel.**	54° 36.0′ N 18° 49.0′ E	**Iso.W.** period 10s	133 **41**	**17**	Red octagonal masonry tower; 126.	Visible 130°-080°.
	-Port Hel:						
6676 *C 2972*	--Outer harbor, W. mole, head.	54° 36.0′ N 18° 48.0′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	29 **9**	4	White metal framework tower, red bands; 23.	
6680 *C 2974*	---S. mole, head.	54° 36.0′ N 18° 48.1′ E	**Fl.W.G.** period 4s fl. 0.5s, ec. 3.5s	29 **9**	4	STARBOARD (A) G, post.	G. 000°-290°, W.-000°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	POLAND-BALTIC SEA						
	GULF OF DANZIG:						
6684 *C 2996*	-Puck, on quay Range, front.	54° 43.4′ N 18° 24.8′ E	**F.R.**	39 **12**	2	White iron post, yellow base, diamond daymark; 42.	
6688 *C 2996.1*	--Rear, 75 meters 184° from front.	54° 43.4′ N 18° 24.8′ E	**F.R.**	59 **18**	2	Yellow and white metal post, diamond daymark.	
6700 *C 2999*	--Mole, head.	54° 44.0′ N 18° 25.0′ E	**F.R.**	19 **6**	4	Post; 10.	
6708 *C 3010*	-Rewa.	54° 38.0′ N 18° 30.7′ E	**Oc.W.R.** period 4s lt. 3s, ec. 1s	33 **10**	W. 6 R. 4	Iron framework tower, triangular and diamond daymark; 28.	R. 132°-167°, W.-177°, R.-222°.
	PORT OF GDYNIA:						
6716 *C 3018*	-Kanal Portowy, entrance Range, front.	54° 32.2′ N 18° 32.9′ E	**Oc.Y.** period 5s lt. 3s, ec. 2s	50 **15**	8	White framework tower; 49.	
6720 *C 3018.1*	--Yugoslav Quay, rear, on corner of quay, about 1100 meters 271°30′ from front.	54° 32.2′ N 18° 31.9′ E	**Oc.Y.** period 5s	87 **27**	8	White iron framework structure, black stripe; 79.	Leads from roadstead through middle entrance between breakwater to Awanport.
6724 *C 3014*	-Awanport, N. breakwater, head.	54° 32.0′ N 18° 34.0′ E	**Fl.G.** period 3s	25 **8**	3	Black framework tower; 20.	
6728 *C 3015*	--S. side of N. entrance.	54° 32.3′ N 18° 33.7′ E	**Fl.R.** period 3s	34 **10**	3	Red framework tower, white band; 25.	
6729 *C 3015.2*	--S. side of detached breakwater.	54° 32.2′ N 18° 33.8′ E	**Iso.G.** period 4s	49 **15**	8	Concrete tower.	
6732 *C 3016*	--S. side of main entrance, N. end.	54° 32.0′ N 18° 34.0′ E	**Iso.R.** period 4s	50 **15**	10	Conical concrete tower; 42.	
6736 *C 3016.2*	-Main breakwater, S. head.	54° 31.0′ N 18° 34.0′ E	**Oc.G.** period 10s lt. 7.5s, ec. 2.5s	39 **12**	9	Concrete tower with aluminum top and dome.	
6740 *C 3020.6*	-Fuel berth.	54° 32.0′ N 18° 34.0′ E	**F.R.**	23 **7**	3	Concrete tower; 13.	
6744 *C 3020.62*	-Fuel berth.	54° 32.0′ N 18° 33.7′ E	**F.R.**	23 **7**	3	Concrete tower; 13.	
6756 *C 3024*	-Basin No. "1".	54° 31.3′ N 18° 33.6′ E	**F.G.**	19 **6**	2	Post; 10.	
6760 *C 3023.4*	-Fisherman′s Pier, (English Quay) NE. head.	54° 31.4′ N 18° 33.6′ E	**F.R.**	14 **4**	3	Red wooden pole, white band; 13.	
6768 *C 3022*	-Swedish Quay, NE. head.	54° 32.0′ N 18° 34.0′ E	**F.R.**	21 **6**	2	Wooden column, red bands.	
6788 *C 3021*	--French Quay, NE. corner.	54° 32.0′ N 18° 34.0′ E	**F.R.**	21 **6**	2	Column, white and red bands; 12.	
6792 *C 3026.2*	-Kanal Portowy Entrance, S. side.	54° 32.0′ N 18° 33.0′ E	**Oc.R.** period 5s lt. 4s, ec. 1s	23 **7**	2	Column, orange trapezoid daymark; 16.	
6796 *C 3026*	- -Portowy, entrance, N. mole, head.	54° 32.0′ N 18° 33.0′ E	**Iso.G.** period 2s	19 **6**	2	Column, orange trapezoid daymark; 16.	
6800 *C 3028*	-Basin No. "4".	54° 32.0′ N 18° 32.3′ E	**Oc.G.** period 5s lt. 3s, ec. 2s	24 **7**	1	Gray iron mast; 16.	
6804 *C 3029*	--No. "5".	54° 32.1′ N 18° 32.1′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	23 **7**	1	Gray iron mast; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			POLAND-BALTIC SEA				
6806 *C 3030.1*	--Basin No. "5", Ro Ro.	54° 32.0′ N 18° 31.6′ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	23 **7**	1	Round steel post.	
6808 *C 3029.2*	--Yugoslav Quay, E. corner.	54° 32.0′ N 18° 32.3′ E	**Oc.G.** period 5s lt. 3s, ec. 2s	23 **7**	1	Gray iron mast; 16.	
6810 *C 3031*	-Jugoslavian Wharf, NW. corner.	54° 32.2′ N 18° 31.8′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**		Round steel post.	
6818 *C 3018.5*	-Jetty, head.	54° 32.4′ N 18° 33.1′ E	**Iso.W.** period 2s	20 **6**	2	Framework tower.	
6820 *C 3020*	-Basin No. "10", E. side of entrance.	54° 32.0′ N 18° 34.0′ E	**Q.G.**	20 **6**		Lattice tower.	
6824 *C 3020.2*	--W. side of entrance.	54° 32.4′ N 18° 33.2′ E	**Q.R.**	20 **6**		Lattice tower.	
6826 *C 3020.3*	--Inner mole.	54° 32.5′ N 18° 33.4′ E	**Iso.W.** period 2s	13 **4**	2	Column.	
6828 *C 3019*	-Basin No. "11".	54° 32.4′ N 18° 33.5′ E	**Oc.G.** period 3s	20 **6**		Lattice tower.	
6832 *C 3019.2*	--W. side of entrance.	54° 32.4′ N 18° 33.4′ E	**Oc.R.** period 3s	20 **6**		Lattice tower.	
	GULF OF DANZIG:						
6840 *C 3048*	-Sopot, pier, head.	54° 27.0′ N 18° 35.0′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	20 **6**	4	Mast; 13.	
6844 *C 3046*	**-Sopot.**	54° 27.0′ N 18° 34.0′ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	82 **25**	**17**	Water tower.	Visible 192°30′-307°30′.
	-Nowy Port (Neufahrwasser):						
6860 *C 3062*	--Brzezno Gdanskie (Outer) Range, front.	54° 25.0′ N 18° 39.0′ E	**Iso.Y.** period 5s	75 **23**	13	White skeleton structure, white triangular daymark, red border, point up; 79.	Synchronized.
6864 *C 3062.1*	---Rear, 350 meters 196° from front.	54° 24.3′ N 18° 38.3′ E	**Iso.Y.** period 5s	103 **31**	13	Framework tower, black triangular daymark, point down; 118.	Synchronized.
6868 *C 3064*	--Inner Range, front.	54° 24.6′ N 18° 39.8′ E	**Oc.G.** period 5s lt. 3s, ec. 2s	75 **23**	8	White iron framework mast, two triangular daymarks, point up; 67.	
6872 *C 3064.1*	---Rear, 370 meters 147°42′ from front.	54° 24.5′ N 18° 40.0′ E	**Oc.G.** period 5s	116 **35**	8	Gray metal framework mast, triangular daymark, point down; 106.	
6876 *C 3068*	--E. breakwater, head.	54° 25.0′ N 18° 39.5′ E	**L.Fl.R.** period 6s	44 **13**	7	White octagonal tower, red bands; 44.	
6880 *C 3066*	--W. breakwater, head.	54° 24.6′ N 18° 39.6′ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	36 **11**	7	White framework tower, green bands; 27.	
6900 *C 3072.5*	--Across channel from Harbor Office.	54° 24.0′ N 18° 41.0′ E	**F.Y.**	31 **9**	1	White iron mast.	Visible 325°-135°.
6908 *C 3074*	--N. side of entrance to coal harbor.	54° 24.0′ N 18° 40.0′ E	**F.R.**	26 **8**	2	Mast; 23.	
6912 *C 3074.1*	--S. side of entrance to coal harbor.	54° 23.3′ N 18° 40.2′ E	**F.G.**	26 **8**	2	Mast; 23.	
6928 *C 3076.3*	--Entrance to Holmbecken I, NW. point.	54° 22.7′ N 18° 39.5′ E	**F.R.**	26 **8**	2	Column; 21.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			POLAND-BALTIC SEA				
6949	Beacon “P-1".	54° 25.1′ N 18° 49.4′ E	**L.Fl.G.** period 10s fl. 3s, ec. 7s	10 **3**	4	STARBOARD (A) G, column, topmark.	
	RACON		**T(–)**				
6950 *C 3081.01*	-Beacon “P2".	54° 25.0′ N 18° 49.4′ E	**Iso.R.** period 6s	10 **3**	5	Red round tower.	Channel marked by lights.
6952 *C 3081.02*	-Entrance Range, front.	54° 23.8′ N 18° 42.2′ E	**Oc.Y.** period 5s	66 **20**	7	Orange framework tower.	
6952.1 *C 3081.03*	- -Rear, 890 meters 253°36′ from front.	54° 23.7′ N 18° 41.4′ E	**Oc.Y.** period 5s	148 **45**	7	Orange framework tower.	
6954 *C 3081.21*	-Head of N. breakwater.	54° 24.3′ N 18° 44.0′ E	**Iso.G.** period 5s	39 **12**	6	Gray square concrete tower.	
6955 *C 3081.24*	- -Middle.	54° 24.4′ N 18° 43.7′ E	**Oc.Y.** period 4s lt. 3s, ec. 1s	23 **7**	3	Metal column.	
6956 *C 3081.26*	- - -N. corner.	54° 24.6′ N 18° 43.3′ E	**Oc.Y.** period 4s lt. 3s, ec. 1s	23 **7**	3	Metal column.	
6958 *C 3081.22*	-N. breakwater, spar, head.	54° 24.4′ N 18° 43.7′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	30 **9**	4	Green metal column.	Visible 300°-120°.
6960 *C 3081.2*	-Liquid fuel jetty, S. head.	54° 24.3′ N 18° 43.5′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	30 **9**	4	Red mast.	
6961 *C 3081.28*	-Dock No. "2".	54° 24.2′ N 18° 43.3′ E	**Iso.G.** period 6s	30 **9**	4	Green tower.	Iso.R. 6s marks opposite entrance.
6961.5 *C 3081.31*	-S. entrance pier, head.	54° 24.1′ N 18° 43.1′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 **5**	3		
6962 *C 3081.5*	-Detached breakwater, N. head.	54° 24.0′ N 18° 43.6′ E	**Iso.R.** period 5s	39 **12**	6	Gray concrete tower.	
6964 *C 3081.4*	-Pomost Rudowy.	54° 23.7′ N 18° 43.1′ E	**Fl.Y.** period 5s fl. 1s, ec. 4s		2		
6966 *C 3081.3*	-Coal pier, head.	54° 24.0′ N 18° 42.7′ E	**Oc.Y.** period 3s	30 **9**	4	Dolphin.	
6968 *C 3080.8*	**-Harbor Master Office.**	54° 24.1′ N 18° 41.9′ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	184 **56**	**25**	Gray square tower with gallery, on building.	
6970 *C 3081.9*	W. breakwater, head.	54° 22.4′ N 18° 46.6′ E	**Fl.(2)G.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	30 **9**	6	Green round tower with gallery.	
6972 *C 3082*	-E. breakwater, head.	54° 22.5′ N 18° 46.7′ E	**Fl.(2)R.** period 5s	34 **10**	6	Concrete tower, white gallery; 30.	
6996 *C 3090*	**Krynica Morska.**	54° 23.0′ N 19° 27.0′ E	**L.Fl.(2)W.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	174 **53**	**18**	Red round concrete tower; 89.	
7036 *C 3251*	- -Piaski Range, front.	54° 25.9′ N 19° 36.1′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	20 **6**	2	Red lattice tower, white band; 16.	
7040 *C 3251.1*	- - -Rear, 145 meters 304° from front.	54° 25.8′ N 19° 36.0′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	46 **14**	2	White mast, white triangular daymark, point down; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			POLAND-BALTIC SEA				
7048 *C 3095*	-Boundary Line Range, front.	54° 27.4′ N 19° 38.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	85 **26**	13	White quadrangular slatted framework tower, black stripe; 62.	Marks boundary between Poland and Soviet Union.
7052 *C 3095.1*	- -Rear, 580 meters 136°30′ from front.	54° 27.2′ N 19° 38.7′ E	**Fl.W.** period 5s fl., ec. 4.5s	144 **44**	**15**	White quadrangular slatted framework tower, black stripe; 69.	Synchronized with front.
			RUSSIA-BALTIC SEA				
	GULF OF DANZIG:						
	-Baltiysk, Vislinskiy Zaliv:						
7056 *C 3096*	- -Gross Brukh.	54° 32.0′ N 19° 44.0′ E	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s	163 **50**	10	Square pyramid, upper part black and white; 95.	
7060 *C 3100*	- -Entrance Range, front.	54° 39.0′ N 19° 53.0′ E	**Oc.W.** period 12s lt. 9s, ec. 3s	39 **12**	12	Red framework tower, white square and trapezoid daymarks, black stripe; 69.	Visible 116°-128°. Shown when channel is open. Pilot signal. Storm signals. Traffic signals. Reserve light Oc.W. 4s 10M. Signal station.
7064 *C 3100.1*	- - -Rear, 770 meters 122°06′ from front.	54° 38.3′ N 19° 53.6′ E	**Oc.W.** period 12s lt. 9s, ec. 3s	97 **30**	**16**	Red round tower, lower part white, conical roof; 105.	Visible 265°-190° **Radiobeacon.**
7108 *C 3142*	- -Entrance to Kaliningradskiy Morskoy Kanal, N. side.	54° 38.0′ N 19° 54.0′ E	**Fl.W.** period 3s	25 **8**	1	Red skeleton tower; 28.	
7112 *C 3143*	- - -S. side.	0° 00.0′ 0° 00.0′	**Fl.W.** period 3s	49 **15**	3	Black skeleton tower; 50.	
7114 *C 3255*	**Obzornyy.**	54° 49.8′ N 19° 57.3′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	177 **54**	**20**	Orange round tower, two white bands, framework pyramid on top; 72.	Reserve light L.Fl. 5s 9M.
7116 *C 3256*	**Mys Taran.**	54° 58.0′ N 19° 59.0′ E	**Oc.(3)W.** period 15s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 6s, ec. 3s	177 **54**	**21**	Red octagonal tower, black cupola, red dwelling; 95.	Storm signals. Reserve light Iso.W. 4s 13M. **Nautophone:** Mo.(A) ev. 15s. Signal station. **Radiobeacon.**
	PIONERSKIY:						
7120	-Inner Mole Spur.	54° 57.0′ N 20° 13.0′ E	**Fl.G.** period 3s	14 **4**	1	Green quadrangular iron column; 8.	
7123 *C 3258*	-N. mole, head.	54° 57.6′ N 20° 13.0′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	29 **9**	4	Red square metal framework tower; 16.	
7124	-S. mole, head.	54° 57.5′ N 20° 13.0′ E	**Fl.R.** period 3s	14 **4**	1	Triangle; 19.	
7128 *C 3262*	**Mys Gvardeyskiy.**	54° 57.6′ N 20° 16.2′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	164 **50**	**18**	Square framework tower, white cylinder, upper part black; 131.	
7130 *C 3270*	**Lesnoy.**	55° 01.3′ N 20° 36.5′ E	**Fl.(2)W.** period 9s fl. 1s, ec. 2s fl. 1s, ec. 5s	144 **44**	**17**	Rectangular framework tower, red round daymark, white band; 131.	Reserve light Fl.(2)W. 8s 9M.
	KURSHSKIY ZALIV:						
7132 *C 3277*	**-Rybackiy.**	55° 10.0′ N 20° 51.0′ E	**Mo.(A)W.** period 6s	180 **55**	**18**	Quadrangular framework truncated pyramid, red and white; 78.	Reserve light range 9M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-SOUTHEAST COAST				
7136 *C 7592*	Skillinge Range, front.	55° 28.0′ N 14° 17.0′ E	**Fl.(2)W.R.G.** period 6s	18 **5**	W. 9 R. 6 G. 5	Red triangular daymark.	G. 247°-288°, W.-293°, R.-347°. **Nautophone:** Mo.(N) ev. 60s. Occas.
7140 *C 7592.1*	-Rear, 90 meters 290° from front.	55° 28.4′ N 14° 17.4′ E	**Fl.(2)W.** period 6s	29 **9**	9	Red triangular daymark.	Visible on range line only. Synchronized with front.
7144 *C 7588*	Brantevik Range, front.	55° 31.0′ N 14° 21.0′ E	**F.R.**	22 **7**		Post.	**Horn:** 4 bl. ev. 60s.
7148 *C 7588.1*	-Rear, 85 meters 253° from front.	55° 30.7′ N 14° 21.0′ E	**F.R.**	35 **11**		Post.	
7152 *C 7582*	-Simrishamn.	55° 34.0′ N 14° 22.0′ E	**Iso.W.R.G.** period 6s	52 **16**	W. 13 R. 10 G. 9	White concrete tower; 51.	G. shore-160°, W.-223°, G.-238°, W.-279°, R.-285°, W.-355°, R.-shore. **Horn:** 1 bl. ev. 60s. Occas.
7156 *C 7586*	-Simrislund Range, front.	55° 32.0′ N 14° 22.0′ E	**F.R.**	16 **5**		White daymark, red borders.	
7160 *C 7586.1*	--Rear, 35 meters 293° from front.	55° 32.0′ N 14° 21.5′ E	**F.R.**	24 **7**		White daymark, red borders.	
7164 *C 7584*	-Range, front, on W. pier.	55° 34.0′ N 14° 21.0′ E	**Q.R.**	34 **10**	9	Iron framework structure, triangular daymark.	Synchronized with rear.
7168 *C 7584.1*	--Rear, 105 meters 249°30′ from front.	55° 33.5′ N 14° 21.1′ E	**Q.R.**	41 **12**	9	Iron framework structure, triangular daymark.	
7172 *C 7576*	Stenshuvud.	55° 40.0′ N 14° 17.0′ E	**Fl.(2)W.R.G.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 **13**	W. 11 R. 8 G. 7	White concrete and iron tower; 31.	G. 155°-180°, W.-311°30′, R.-322°30′, G.-327°30′, W.-332°30′, R.-shore.
7176 *C 7578*	Baskemolla Range, front.	55° 36.0′ N 14° 19.0′ E	**F.R.**	19 **6**		Post.	
7180 *C 7578.1*	-Rear, 56 meters 195° from front.	55° 35.7′ N 14° 19.1′ E	**F.R.**	36 **11**		Post.	
7184 *C 7574*	Kivik Range, front.	55° 41.0′ N 14° 14.0′ E	**F.R.**	19 **6**		Post, white triangular daymark.	Occasional.
7188 *C 7574.1*	-Rear, 50 meters 214° from front.	55° 41.3′ N 14° 13.8′ E	**F.R.**	29 **9**		Post, white triangular daymark.	Occasional.
7192 *C 7573*	Vitemolla Range, front.	55° 42.0′ N 14° 13.0′ E	**F.G.**	21 **6**		Wooden post.	Range lights lead close to E. mole of harbor. Fishing light.
7196 *C 7573.1*	-Rear, 80 meters 210° from front.	55° 41.9′ N 14° 12.8′ E	**F.G.**	33 **10**		Wooden post.	Fishing light.
7198 *C 7572.6*	Gropahalet, N. breakwater.	55° 51.5′ N 14° 14.4′ E	**Fl.G** period 3s	10 **3**	2	Post.	
7199 *C 7572.62*	-S. breakwater.	55° 51.5′ N 14° 14.3′ E	**Fl.R.** period 3s	10 **3**	2	Post.	
7200 *C 7572.7*	Yngsjo Range, front.	55° 52.0′ N 14° 15.0′ E	**F.R.**	23 **7**	5	Post.	
7204 *C 7572.8*	-Rear, 75 meters 286° from front.	55° 51.6′ N 14° 14.6′ E	**F.R.**	36 **11**	5	Post.	
	AHUS:						
7208 *C 7568*	-Baloren Range, front.	55° 57.0′ N 14° 20.0′ E	**Q.W.**	20 **6**	11	Orange framework structure, red triangular daymark.	
7212 *C 7568.1*	--Rear, 830 meters 289°30′ from front.	55° 56.7′ N 14° 19.5′ E	**Oc.W.R.G.** period 5s	51 **16**	W. 14 R. 12 G. 10	White framework structure, red triangular daymark.	R. 277°-280°, G.-288°30′, W.-290°30′, R.-310°, G.-317°, R.-000°.
7216 *C 7570*	-Revhaken Range, front.	55° 55.0′ N 14° 20.0′ E	**Iso.W.** period 3s	23 **7**	6	Framework structure, red triangular daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-SOUTHEAST COAST				
7220 *C 7570.1*	- -Rear, 550 meters 254°24′ from front.	55° 55.0′ N 14° 19.7′ E	**Q.W.**	46 **14**	7	Framework structure, red triangular daymark.	
7222	-Ahus Range, front.	55° 55.7′ N 14° 19.3′ E	**Q.R.**	115 **35**	12	Framework structure, red triangular daymark.	
7222.1	- -Rear, 265 meters 275°18′ from front.	55° 55.7′ N 14° 19.0′ E	**Q.R.**	164 **50**	12	Silo, red triangular daymark.	
7224 *C 7572*	-Norra Range, front.	55° 56.0′ N 14° 20.0′ E	**Iso.G.** period 3s	23 **7**	6	White column, red triangular daymark.	
7228 *C 7572.1*	- -Rear, 240 meters 275° from front.	55° 55.7′ N 14° 19.9′ E	**Q.G.**	39 **12**	6	White column, red triangular daymark.	
7232 *C 7572.4*	-Sodra, S. side of channel Range, front.	55° 56.0′ N 14° 20.0′ E	**Iso.R.** period 3s	23 **7**	8	White column, red triangular daymark.	
7236 *C 7572.5*	- -Rear, 240 meters 275° from front.	55° 55.6′ N 14° 19.9′ E	**Q.R.**	39 **12**	8	Orange framework tower, red triangular daymark.	
7240 *C 7564*	Lagerholmen.	55° 57.9′ N 14° 28.3′ E	**Fl.W.R.G.** period 5s fl. 1s, ec. 4s	56 **17**	W. 9 R. 6 G. 5	White concrete tower; 56.	R. 000°-035°, G.-056°, W.-085°, R.-114°, G.-144°, W.-148°, R.-192°, G.-196°, W. -198°, R.-270°, G.-289°, W.-000°.
7244 *C 7560*	Sigersvik Range, front.	56° 03.0′ N 14° 33.0′ E	**F.R.**	16 **5**	5	Post, red triangular daymark.	
7248 *C 7560.1*	-Rear, 100 meters 053° from front.	56° 02.8′ N 14° 33.3′ E	**F.R.**	26 **8**	5	Post, red triangular daymark.	
7252 *C 7559.6*	Herrmans Heja Range, front.	56° 02.0′ N 14° 33.0′ E	**F.G.**	16 **5**	2	Post, red triangular daymark.	
7256 *C 7559.61*	- -Rear, 95 meters 108° from front.	56° 02.2′ N 14° 33.4′ E	**F.G.**	26 **8**	2	Post, red triangular daymark.	
7260	*Taggen Buoy.*	55° 53.7′ N 14° 35.0′ E	**Q.(3)W.** period 10s			E. CARDINAL BYB, pillar, topmark.	
	SOLVESBORG:						
7264 *C 7552*	-Tunoren.	56° 00.0′ N 14° 32.0′ E	**Iso.W.R.G.** period 4s	30 **9**	W. 7 R. 5 G. 4	Gray framework mast, lantern.	G. 202°-309°, W.-319°, R.-359°, G.-120°, W.-132°, R.-202°. A fishing range of F.R. lights shown from posts in range 349°, about 100 yards apart, is shown on Tostebergaudde.
7268 *C 7553*	-Range, front.	56° 02.0′ N 14° 35.0′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	23 **7**	10	White structure, red diamond daymark.	Visible on range line only.
7272 *C 7553.1*	- -Rear, about 1.2 km. 026° from front.	56° 02.4′ N 14° 36.4′ E	**Q.W.**	56 **17**	14	White structure, red diamond daymark.	Visible on range line only.
7276 *C 7556*	-Radmansholm Range, front.	56° 03.0′ N 14° 36.0′ E	**Iso.G.** period 4s	13 **4**	6	Post, red triangular daymark.	
7280 *C 7556.1*	- -Rear, 175 meters 019° from front.	56° 02.8′ N 14° 35.6′ E	**Q.G.**	23 **7**	5	Post, red triangular daymark.	
7284 *C 7551*	Torso Range, front.	56° 00.0′ N 14° 39.0′ E	**F.R.**	14 **4**	3	Wooden post.	Shown from Sept. 1 to Apr. 30, only when local fishing boats are at sea.
7288 *C 7551.1*	-Rear, 25 meters 346°30′ from front.	56° 00.0′ N 14° 39.1′ E	**F.R.**	26 **8**	3	Wooden post.	Fishing light.
7292 *C 7551.6*	Sillnasudde.	56° 00.0′ N 14° 37.0′ E	**Fl.(2)W.R.G.** period 6s	39 **12**	W. 12 R. 9 G. 8	Tower, upper part white, lower part red; 36.	R. shore-304°, G.-315°, W.-006°, R.-017°, G.-056°30′, R.-079°, G.-shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-SOUTHEAST COAST				
7296 *C 7548*	Hallevik.	56° 01.0′ N 14° 42.0′ E	**Dir.Iso.W.R.G.** period 8s	26 **8**	W. 6 R. 4 G. 3	White concrete tower, copper-clad lantern; 23.	G. 338°-016°30′, W.-025°, R.-shore.
7300 *C 7550*	Hallevik.	56° 01.0′ N 14° 42.0′ E	**Fl.(3)W.R.G.** period 6s	29 **9**	W. 9 R. 6 G. 5	White iron framework structure; 21.	G. 344°-013°30′, W.-024°, R.-043°, obsc.-152°, W.-223°.
	NOGERSUND:						
7304 *C 7544*	-E. breakwater, head.	56° 00.0′ N 14° 44.0′ E	**F.G.**	17 **5**	2	White post.	
7308 *C 7546*	-Range, on W. breakwater, front.	56° 00.2′ N 14° 44.2′ E	**F.R.**	23 **7**	8	Post, red triangular daymark.	Visible on range line only. Fishing lights. **Horn:** 2 bl. ev. 60s.
7312 *C 7546.1*	- -Rear, 87 meters 008° from front.	56° 00.3′ N 14° 44.2′ E	**F.R.**	39 **12**	10	Post, red triangular daymark.	Fishing light.
7316 *C 7538*	**Hano.**	56° 00.8′ N 14° 50.9′ E	**Fl.(3)W.** period 13.5s	231 **70**	**23**	White concrete tower; 52.	Shown by day during poor visibility Nov. 1 to Mar. 31.
7320 *C 7540.4*	-S. breakwater, head.	56° 00.6′ N 14° 50.1′ E	**F.G.**	13 **4**	2		
7324 *C 7536*	Bonsacken.	56° 01.0′ N 14° 50.0′ E	**Fl.(2)W.R.G.** period 6s	36 **11**	W. 10 R. 7 G. 6	Gray structure.	G. 000°-020°, W.-054°, R.-134°, G.-150°, W.-239°, R.-255°, G.-268°.
7328 *C 7540*	Hano Hamn Range, front.	56° 01.0′ N 14° 50.0′ E	**F.R.**	21 **6**	3	Post, red triangular daymark.	Fishing lights.
7332 *C 7540.1*	-Rear, 140 meters 129° from front.	56° 00.6′ N 14° 50.3′ E	**F.R.**	31 **9**	3	Post, red triangular daymark.	
7336 *C 7541*	Hano Range, front.	56° 01.0′ N 14° 50.0′ E	**F.G.**	37 **11**	7	Post, red circular daymark, white border.	Lights mark power cable.
7340 *C 7541.1*	-Rear, 390 meters 122°30′ from front.	56° 00.8′ N 14° 50.5′ E	**F.G.**	85 **26**	7	Post, red circle over diamond daymark, white border.	
7344 *C 7535*	Listershuvud Range, front.	56° 02.0′ N 14° 47.0′ E	**F.G.**	62 **19**	7	Post, white triangular daymark, red border.	Lights mark power cable.
7348 *C 7535.1*	-Rear, 185 meters 302°30′ from front.	56° 02.0′ N 14° 46.7′ E	**F.G.**	95 **29**	7	Post, white triangular daymark, red border.	
7352 *C 7534*	Listershuvud, E. point.	56° 02.0′ N 14° 47.0′ E	**Iso.W.R.G.** period 3s	38 **12**	W. 10 R. 7 G. 6	White octagonal hut on concrete base.	G. 152°-194°30′, W.-207°30′, R.-229°, G.-247°, W.-274°30′, R.-286°, G.-319°, W.-349°30′, R.-004°, G.-017°. Shown 24 hours during poor visibility Nov. 1 to Mar. 31.
7356 *C 7530*	Krokas Range, front.	56° 03.0′ N 14° 46.0′ E	**F.R.**	31 **9**		Post.	Fishing light.
7360 *C 7530.1*	-Rear, 90 meters 256° from front.	56° 03.0′ N 14° 45.5′ E	**F.R.**	46 **14**		Post.	Fishing light.
7364 *C 7532*	Horvik.	56° 03.0′ N 14° 46.0′ E	**Fl.W.R.G.** period 2s	21 **6**	W. 5 R. 3 G. 2	White iron skeleton structure.	W. 304°-101°, R.-167°, G.-194°, W.-203°30′, R.-281°. **Siren:** 1 bl. ev. 60s. Occasional.
7372 *C 7528*	Lorby Kladd.	56° 06.0′ N 14° 43.0′ E	**Fl.W.R.G.** period 4s	21 **6**	W. 6 R. 4 G. 3	Gray column.	W. shore-243°, R.-249°, G.-287°. Shown from April 1 to Sept. 30. Fishing light.
7376 *C 7527.7*	Norje Range, front.	56° 07.0′ N 14° 42.0′ E	**F.R.**	22 **7**	8	White triangular daymark, black border.	
7380 *C 7527.71*	-Rear, 375 meters 272° from front.	56° 07.1′ N 14° 41.7′ E	**F.R.**	46 **14**	8	White triangular daymark, black border.	

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			SWEDEN-SOUTHEAST COAST				
7382 *C 7527.8*	Ljungholmen Range, front.	56° 09.3′ N 14° 44.0′ E	**F.G.**	20 **6**	6	Post, white and orange triangular daymark.	
7382.1 *C 7527.81*	-Rear, 100 meters 009° from front.	56° 09.3′ N 14° 43.9′ E	**F.G.**	36 **11**	6	Post, white and orange triangular daymark.	
7384 *C 7527.6*	Skapehale.	56° 09.0′ N 14° 44.0′ E	**F.R.**	20 **6**	3	Post, orange marker.	Fishing light. Shown from April 1 to October 15.
7388 *C 7527.4*	Baknahall.	56° 09.0′ N 14° 45.0′ E	**F.R.**	20 **6**	3	Post, orange marker.	Fishing light. Shown from April 1 to October 15.
	KARLSHALL:						
7392 *C 7527.1*	-Gunnon.	56° 09.0′ N 14° 47.0′ E	**Iso.W.R.G.** period 4s	37 **11**	W. 14 R. 11 G. 10	White tubular mast, two red bands, triangular daymark, red border.	G. 274°-294°30′, R.-306°, G.-323°, W.-327°, R.-340°, G.-033°, R.-054°. Marks approach range on bearing 324°36′.
7396 *C 7527.3*	-Stileryd Range, front.	56° 10.0′ N 14° 49.0′ E	**F.G.**	26 **8**	7	Column, orange marker.	
7400 *C 7527.31*	- -Rear, 132 meters 346°12′ from front.	56° 09.7′ N 14° 48.8′ E	**F.G.**	49 **15**	7	Column, orange marker.	
7404 *C 7527.2*	-Kolo Range, front.	56° 09.0′ N 14° 50.0′ E	**Oc.W.R.G.** period 6s lt. 4s, ec. 2s	28 **9**	W. 13 R. 10 G. 9	Column, orange marker.	R. 353°-003°, G.-009°, W.-013°, R.-016°, G.-052°, R.-103°.
7408 *C 7527.21*	- -Rear, 347 meters 009°54′ from front.	56° 09.5′ N 14° 49.5′ E	**Q.W.**	56 **17**	13	Column, orange marker.	Shown 24 hours from Nov. 1 to Mar. 31.
7412 *C 7514*	Tarno.	56° 06.7′ N 14° 58.5′ E	**Oc.W.R.G.** period 10s lt. 8s, ec. 2s	102 **31**	W. 13 R. 10 G. 9	White octagonal tower; 19.	G. 240°-277°, W.-354°, R.-026°30′, G.-041°30′, W.-044°, R.-098°, G.-135°. Shown by day during poor visibility Nov. 1 to Mar. 31.
7416 *C 7516*	-Tarno Ostra.	56° 07.0′ N 14° 59.0′ E	**F.W.R.G.**	16 **5**	W. 7 R. 5 G. 4	White structure.	R. (unintensified) 085°-099°, G. (unintensified)-129°, R. (unintensified)-142°, G. (unintensified)-175°, R. (unintensified)-179°, G. (unintensified)- 262°, G.-291°, W.-333°, R.- 352°. Fishing light.
7418 *C 7516.4*	Baggahegna.	56° 09.2′ N 14° 58.2′ E	**Fl.W.** period 3s	28 **8**	3	Lantern on post, orange rectangular daymark.	Occasional.
7420 *C 7512*	Vitaskar.	56° 08.0′ N 15° 06.0′ E	**Q.W.R.G.**	24 **7**	W. 6 R. 4 G. 3	White hut.	G. 122°-335°, W.-352°, R.-122°. Fishing light.
	KARLSHAMN:						
7424 *C 7519*	-Ortholmen.	56° 09.0′ N 14° 53.0′ E	**Fl.W.R.G.** period 3s	19 **6**	W. 11 R. 8 G. 7	White round tower.	G. 323°-336°30′, W.-359°, R.-013°, G.-143°, W.-149°, R.-163°.
7426 *C 7518*	-Vagga.	56° 09.3′ N 14° 53.2′ E	**Fl.(2)W.R.G.** period 4s	11 **3**	W. 8 R. 6 G. 5	White framework tower.	G. 338°-344°, W.-354°, R.-000°, W. (unintensified)- shore. Fishing light. Shown from July 5 to May 5.
7428 *C 7517*	-Vagga Sodra.	56° 09.0′ N 14° 53.0′ E	**Fl.(3)W.R.G.** period 9s	18 **5**	W. 6 R. 4 G. 3	White post.	R. 009°-120°, W.-224°, R.-309°, G.-348°, W.-009°. Occasional.
7432 *C 7520*	-On quay Range, front.	56° 10.0′ N 14° 52.0′ E	**Iso.R.** period 2s	33 **10**	10	Red triangular daymark, white border.	Visible on range line only.
7436 *C 7520.1*	- -Rear, about 270 meters 339° from front.	56° 10.0′ N 14° 52.0′ E	**Iso.R.** period 4s	49 **15**	10	Red triangular daymark, white border.	Visible on range line only.

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			SWEDEN-SOUTHEAST COAST				
7440 *C 7524*	-Sutudden Range, front.	56° 10.0′ N 14° 52.0′ E	**Iso.G.** period 3s	59 **18**	8	Post, orange triangular daymark.	Visible on range line only.
7444 *C 7524.1*	--Rear, 410 meters 318° from front.	56° 09.7′ N 14° 51.4′ E	**Q.G.**	121 **37**	8	Post, orange triangular daymark.	
7448 *C 7525*	-Sutudden pier, head.	56° 10.0′ N 14° 52.0′ E	**F.R.**	20 **6**	3	Post.	
7452 *C 7526*	-Vindhamn Range, front.	56° 09.0′ N 14° 51.0′ E	**F.R.**	46 **14**	8	Orange triangular daymark.	Visible on range line only.
7456 *C 7526.1*	--Rear, 60 meters 206°30′ from front.	56° 08.7′ N 14° 15.1′ E	**F.R.**	56 **17**	8	Orange triangular daymark.	
7460 *C 7527*	-Kastellet pier, head.	56° 10.0′ N 14° 52.0′ E	**F.G.**	19 **6**	3	Post.	
7464 *C 7510*	Saltarna.	56° 09.0′ N 15° 11.0′ E	**Fl.(3)W.R.G.** period 9s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 5.1s	23 **7**	W. 6 R. 4 G. 3	White octagonal tower on concrete base; 7.	G. 348°-002°, W.-017°, R.-029°.
	RONNEBY APPROACH:						
7468 *C 7490*	-Gasfeten, W. entrance to Ronneby.	56° 07.5′ N 15° 14.4′ E	**L.Fl.(2)W.R.G.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	39 **12**	W. 11 R. 8 G. 7	White tower, red roof; 33.	R. 267°-297°, G.-001°, W.-048°, R.-198°. **Radar reflector.**
	RACON		**G(– – •)** period 30s		13		
7469 *C 7487*	**Tving** AVIATION LIGHT.	56° 17.0′ N 15° 30.0′ E	**Q.W.**	791 **241**	**21**		
7472 *C 7492*	-Saxemara Range.	56° 09.0′ N 15° 14.0′ E	**Iso.W.** period 4s	12 **4**	9	Brown wooden house, white on range.	
7476 *C 7492.1*	--Rear, 1.2 kilometers 018°30′ from front.	56° 09.8′ N 15° 14.5′ E	**Q.W.**	34 **10**	8	Brown wooden tower, white on range, two red bands.	
7480 *C 7494*	-Svanvik Range, front.	56° 09.4′ N 15° 14.8′ E	**Iso.R.** period 4s	15 **5**	5	Orange pedestal, red and orange triangular daymark, point up.	
7484 *C 7494.1*	--Rear, 550 meters 029°30′ from front.	56° 09.7′ N 15° 15.3′ E	**Q.R.**	33 **10**	4	Orange pedestal, red and orange triangular daymark, point down.	
7488 *C 7495*	-Svaniksudde, SE. point of Funko.	56° 09.0′ N 15° 15.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 6 R. 4 G. 4	Gray tower.	G. 260°-266°, W.-269°, R.-275°.
7492 *C 7498*	-Steko, S. part.	56° 10.0′ N 15° 16.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	14 **4**	W. 7 R. 4 G. 4	Lantern on orange pedestal, white diamond daymark.	G. 051°-064°30′, W.-067°, R.-081°.
7495 *C 7489*	-Gokalv Range, front.	56° 08.3′ N 15° 16.9′ E	**Fl.(2)R.** period 4s	20 **6**	2	Framework tower, red triangular daymark, point up.	
7495.1 *C 7489.1*	--Rear, 358°30′ from front.	56° 08.4′ N 15° 16.9′ E	**Fl.R.** period 2s	33 **10**	2	Framework tower, red triangular daymark, point up.	
7504 *C 7504*	-Sandviken.	56° 10.0′ N 15° 19.0′ E	**Fl.(4)W.R.G.** period 12s	17 **5**	W. 7 R. 5 G. 5	Lantern on orange pedestal, white diamond daymark.	G. 015°-030°, W.-033°, R.-037°.
7508 *C 7506*	-Ronneby Range, front.	56° 10.6′ N 15° 18.1′ E	**F.R.**	46 **14**		Post, red and orange triangular daymark, point up.	
7512 *C 7506.1*	--Rear, 150 meters 358° from front.	56° 10.7′ N 15° 18.2′ E	**F.R.**	59 **18**		Post, red and orange triangular daymark, point down.	

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			SWEDEN-SOUTHEAST COAST				
7516 *C 7488*	Millegarne.	56° 08.0′ N 15° 20.0′ E	**Fl.W.R.G.** period 3s	26 **8**	W. 6 R. 4 G. 3	Framework mast, white rectangular daymark.	R. shore-316°, G.-011°, W.-026°, R.-060°, R. (unintensified)-110°, W. (unintensified)-shore. Fishing light.
7520 *C 7453.3*	Ronneskar.	56° 08.0′ N 15° 23.0′ E	**I.V.Q.W.R.G.** period 6s	30 **9**	W. 6 R. 4 G. 3	White tower; 27.	R. (unintensified) 197°-206°, G. (unintensified)-212°, R. (unintensified)-240°, G. (unintensified)-252°, R. (unintensified)-290°, R.-297°, G.-352°, W.-014°, R.-043°.
	KARLSKRONA APPROACH:						
7524 *C 7453.6*	-Kasaskar Range, front.	56° 07.0′ N 15° 26.0′ E	**Iso.W.** period 4s	16 **5**	7	White hut.	Occasional.
7528 *C 7453.7*	- -Rear, 500 meters 355°30′ from front.	56° 06.9′ N 15° 25.8′ E	**Q.W.**	33 **10**	6	Post.	Occasional.
7532 *C 7455*	-Hasslo.	56° 07.0′ N 15° 26.0′ E	**F.W.R.G.**		W. 5 R. 3 G. 3	White hut.	G. 000°-040°, W.-045°, R.-060°. Fishing light.
7536 *C 7453.4*	-Asla.	56° 06.0′ N 15° 26.0′ E	**Fl.(3)W.R.G.** period 9s	19 **6**	W. 6 R. 4 G. 3	White structure.	R. 282°-299°, G.-328°, W.-025°, R.-097°, G.-116°, obsc.-180°, R.-197°. Seasonal. Fishing light.
7540 *C 7452.6*	-Bollo.	56° 05.0′ N 15° 29.0′ E	**L.Fl.W.R.G.** period 10s fl. 2s, ec. 8s	29 **9**	W. 7 R. 5 G. 4	Framework mast, white rectangular daymark.	G. 313°-349°, W.-009°, R.-075°, G.-090°, G. (unintensified)-155°, W. (unintensified)-268°, R.-313°. Fishing light.
7544 *C 7454*	-Ronnfjardsleden Range, front.	56° 06.0′ N 15° 29.0′ E	**Oc.R.** period 3s	27 **8**	6	Post, triangular daymark.	
7548 *C 7454.1*	- -Rear, 250 meters 343° from front.	56° 06.2′ N 15° 28.6′ E	**Oc.R.** period 3s	40 **12**	6	Post, triangular daymark.	Synchronized.
7552 *C 7454.3*	-Garpaviken.	56° 06.0′ N 15° 29.0′ E	**Q.W.**	16 **5**	6	Post.	
7556 *C 7460*	**-Stumholmen (Karlskrona) Range,** front.	56° 10.0′ N 15° 36.0′ E	**Iso.W.** period 8s	71 **22**	**15**	White tower; 79.	Visible on range line only.
7560 *C 7460.1*	- -Rear, 1.3 km. 012°30′ from front.	56° 10.2′ N 15° 36.3′ E	**Iso.W.R.G.** period 3s	123 **37**	W. 7 R. 5 G. 4	White tower; 50.	W.-range line, G. 299°-311°, W.-316°, R.-322°.
7564 *C 7446*	-Vastra Forsankningen.	56° 06.5′ N 15° 34.5′ E	**Fl.(4)W.R.G.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 **6**	W. 8 R. 6 G. 5	Red and white dolphin. Floodlit.	W. 003°-015°30′, R.-031°, G.-204°, W.-216°30′, R.-350°, G.-003°.
	-RACON		**K(– • –)** period 30s		4		
7566 *C 7447*	-Ostra Forsankningen.	56° 06.5′ N 15° 34.9′ E	**Q.G.**	16 **5**	4		Visible 359°-215°.
7568 *C 7448*	-Kungsholmen.	56° 06.5′ N 15° 35.4′ E	**F.R.G.**	18 **5**	R. 6 G. 5	Framework structure. Floodlit.	R. 151°30′-204°, G.-151°30′.
7572 *C 7449*	-Godnatt, in Karlsdrona Road.	56° 08.0′ N 15° 36.0′ E	**Fl.W.R.G.** period 3s	65 **20**	W. 11 R. 8 G. 7	Gray tower on fort.	G. 003°-013°30′, W.-017°30′, R.-028°30′, G.-056°, R.-073°30′, G.-079°30′, W.-082°30′, R.-125°30′, G.-137°, W.-139°30′, R.-144°, G.-189°, R.-197°, G.-234°, W.-242°, R.-302°, G.-330°, R.-003°. Lighted 24 hours Nov. 1 thru Mar. 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-SOUTHEAST COAST				
7576 *C 7450*	Bergaholmen.	56° 09.0′ N 15° 33.0′ E	**Fl.(3)W.R.G.** period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	20 **6**	W. 5 R. 3 G. 3	White hut.	G. 006°-047°, W.-050°, R.-071°, G.-112°, R.-181°, G.-251°, R.-303°, G.-328°, W.-331°, R.-006°.
7580 *C 7452*	-Saltohammar.	56° 10.0′ N 15° 34.0′ E	**Q.W.R.G.**	11 **3**	W. 7 R. 5 G. 4	White structure.	G. 310°-320°30′, R.-329°, G.-012°30′, W.-015°, R.-029°, G.-053°, R.-141°, G.-221°.
7584 *C 7450.5*	-Aspeskar.	56° 08.0′ N 15° 38.0′ E	**F.W.R.G.**	19 **6**	W. 6 R. 4 G. 3	Post.	G. 304°-326°, W.-333°, R.-050°30′, G.-072°, W.-126°, R.-140°. Occasional.
7588 *C 7462*	-Laboratorieholm, at Karlskrona.	56° 10.0′ N 15° 36.0′ E	**Iso.W.R.G.** period 4s	35 **11**	W. 10 R. 7 G. 6	White concrete and iron tower; 36.	G. 125°-147°, R.-160°, G.-240°, W.-247°30′, R.-260°, G.-281°, W.-283°, R.-313°, G.-326°, W.-338°, R.-350°. Lighted daytime during poor visibility Nov. 1 to Mar. 31.
7592 *C 7464*	-Kofferdihamnen Range, front.	56° 10.0′ N 15° 36.0′ E	**Q.R.**	33 **10**	7	Post.	
7596	--Rear, 95 meters 300° from front.	56° 09.9′ N 15° 38.5′ E	**Q.R.**	42 **13**	7	Post.	Synchronized.
7600 *C 7468*	-Vamoviken Range, front, Vammoviken.	56° 10.0′ N 15° 36.0′ E	**F.R.**	13 **4**	7	White dolphin, red triangular daymark, point up.	
7604	--Rear, 172 meters 321° from front.	56° 10.3′ N 15° 36.4′ E	**F.R.**	23 **7**	7	Post, red triangular daymark, point down.	
7608 *C 7472*	-Oljehamn Range, front.	56° 10.0′ N 15° 36.0′ E	**Iso.R.** period 4s	10 **3**	7	Post, white triangular daymark, point up.	
7612 *C 7472.1*	--Rear, 92 meters 279°30′ from front.	56° 10.1′ N 15° 35.9′ E	**Iso.R.** period 4s	20 **6**	7	Post, white triangular daymark, point down.	
7616 *C 7476*	Verko, W. side.	56° 10.0′ N 15° 38.0′ E	**Fl.(2)W.R.G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	27 **8**	W. 7 R. 5 G. 4	White masonry tower, white rectangular daymark.	G. 017°-023°, W.-029°, R.-035°30′. Lighted daytime during poor visibility Nov. 1 to Mar. 31.
7620 *C 7480*	-Nattraby.	56° 11.0′ N 15° 33.0′ E	**Fl.R.** period 3s	6 **2**	8	Lantern on red frame mounted on dolphin.	
7624 *C 7448.2*	Drottningskar.	56° 07.0′ N 15° 34.0′ E	**F.G.**	9 **3**	3	White column on pedestal.	Visible 233°-263°. Occasional.
7628 *C 7451.7*	Djupasund.	56° 06.0′ N 15° 38.0′ E	**Oc.W.R.G.** period 4s lt. 0.8s, ec. 3.2s	23 **7**	W. 12 R. 9 G. 8	White hut.	G. shore-011°30′, W.-013°30′, R.-shore.
7632 *C 7451.4*	Tjurko Range, front.	56° 06.0′ N 15° 38.0′ E	**F.W.R.G.**	23 **7**	W. 11 R. 8 G. 7	Wooden post, white triangular daymark, point up.	R. shore-342°, G.-008°, W.-011°, R.-shore. Fishing light. Occasional.
7636 *C 7451.5*	-Rear, 120 meters 009° from front.	56° 06.3′ N 15° 38.0′ E	**F.W.**	49 **15**	11	Wooden post, white triangular daymark, point down.	Visible on range line only. Fishing light.
7640 *C 7451*	Ekenabbens Fiskehamn Range, front.	56° 06.0′ N 15° 38.0′ E	**F.R.**	19 **6**	2	Lamppost, white triangular daymark.	Fishing light.
7644 *C 7451.1*	-Rear, 60 meters 143° from front.	56° 06.1′ N 15° 38.5′ E	**F.R.**	25 **8**	2	Lamppost, white triangular daymark.	Fishing light.
7648 *C 7438.8*	Flotjen.	56° 02.0′ N 15° 46.0′ E	**Fl.W.R.G.** period 3s	34 **10**	W. 6 R. 4 G. 3	White tower; 33.	R. 337°-009°30′, G.-035°, W.-052°30′, R.-111°, R. 180°-203°, G.-273°, R.-292°. Sectors from 337°-180° intensified. Fishing light.
7652 *C 7438.4*	Flundrebaden.	56° 03.0′ N 15° 47.0′ E	**Q.W.R.G.**	21 **6**	W. 4 R. 3 G. 2	White hut.	R. 334°-355°, G.-062°, W.-069°, R.-105°, G.-174°, W.-178°, R.-261°. Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-SOUTHEAST COAST				
7656 *C 7439*	Stenshamn Range, front.	56° 02.0′ N 15° 47.0′ E	**F.R.**	19 **6**	6	Post.	Fishing light.
7660 *C 7439.1*	-Rear, 200 meters 178° from front.	56° 01.7′ N 15° 46.8′ E	**F.R.**	33 **10**	6	Post.	Fishing light.
7664 *C 7434*	Langoren Range, front.	56° 04.0′ N 15° 49.0′ E	**Iso.W.** period 4s	15 **5**	7	Framework mast, rectangular daymark, black triangular daymark, point up.	
7668 *C 7434.1*	-Rear, 300 meters 307° from front.	56° 04.0′ N 15° 49.3′ E	**Q.W.**	25 **8**	6	Framework mast, rectangular daymark, black triangular daymark, point down.	
7672 *C 7436*	Hommenabben Range, front.	56° 04.0′ N 15° 50.0′ E	**Iso.R.** period 4s	15 **5**	5	Framework mast, red triangular daymark.	
7676 *C 7436.1*	-Rear, 375 meters 160° from front.	56° 03.6′ N 15° 49.8′ E	**Fl.(3)W.R.G.** period 9s	25 **8**	W. 6 R. 4 G. 3	Framework mast, red triangular daymark.	G. 250°-286°, W.-320°, R.-002°.
7680 *C 7432*	Torhamn.	56° 06.0′ N 15° 50.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	19 **6**	W. 4 R. 3 G. 2	Framework mast, white rectangular daymark.	G. 001°-009°, W.-016°30′, R.-044°.
7684 *C 7438*	Ungskar Range, front.	56° 02.0′ N 15° 48.0′ E	**F.W.**	20 **6**		Post.	Fishing light.
7688 *C 7438.1*	-Rear, 50 meters 300° from front.	56° 02.4′ N 15° 48.4′ E	**F.W.**	26 **8**		Post.	Fishing light.

Section 6

Baltic Sea - East Coast of Sweden and Gotland
Including Oland

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
7692	Mocklosundbron Swingbridge.	56° 08.0′ N 15° 45.0′ E	**Q.R.G.**			Bridge signal lights shown from roof of operators′ hut.	When bridge is open a Q.G. light is shown; R. flashes mean "Stop." Ships call bridge operator by sounding 2 long and 1 short blast when desiring passage. Should 2 vessels meet at the bridge the one going westward has the right-of-way.
7696 *C 7442*	**Utklippan.**	55° 57.0′ N 15° 42.0′ E	**Fl.W.** period 15s	101 **31**	**23**	Red tower on fort; 98.	Shown by day Nov. 1 to Mar. 31.
	Auxiliary light.		**Iso.W.R.G.** period 4s	98 **30**	W. 11 R. 9 G. 7		G. 134°-140°, R.-189°, G.-233°, W.-240°, R.-299°, W.-134°.
	UTKLIPPAN FISHING HARBOR:						
7700 *C 7444*	-E. entrance to harbor, S. pier, head.	55° 57.0′ N 15° 42.0′ E	**Fl.W.R.G.** period 3s	26 **8**	W. 4 R. 2 G. 2	White post on white hut.	G. 239°-264°, W.-269°, R.-300°. Fishing light.
7704 *C 7445*	-W. entrance to harbor, N. pier, head.	55° 57.3′ N 15° 42.3′ E	**Fl.(3)W.R.G.** period 9s	26 **8**	W. 4 R. 2 G. 2	White post on white hut.	G. 059°-089°, W.-134°, R.-162°. Fishing light.
7708 *C 7440*	**Utlangan.**	56° 01.0′ N 15° 47.0′ E	**Oc.(2)W.R.G.** period 12s lt. 8s, ec. 1s lt. 2s, ec. 1s	42 **13**	W. **15** R. 12 G. 10	White octagonal lantern on round concrete tower, upper part black, lower white; 42.	G. 224°30′-232°, W.-011°, R.-022°30′, G.-053°, W.-107°30′, R.-115°, G.-135°.
7712 *C 7431*	Sandhamn Range, front.	56° 06.0′ N 15° 52.0′ E	**F.R.**	18 **5**	8	Post, white triangular daymark.	Fishing light.
7716 *C 7431.1*	-Rear, 500 meters 342° from front.	56° 05.8′ N 15° 51.5′ E	**F.R.**	41 **12**	8	Post, white triangular daymark.	
7717 *C 7428.2*	Windmotor No. "1".	56° 09.6′ N 16° 01.3′ E	**Fl.Y.** period 5s	33 **10**	5		
			F.R.				On top of structure. Windmotors no. 2-4 marked by F.R. lights.
7717.1 *C 7428.1*	-No. "5".	56° 10.5′ N 16° 01.3′ E	**Fl.Y.** period 5s	33 **10**	5		
			F.R.				On top of structure.
	OLAND:						
7720 *C 7280*	**-Olands Sodra Udde.**	56° 12.0′ N 16° 24.0′ E	**Fl.(2)W.** period 30s	135 **41**	**26**	White round stone tower, black band; 136.	Shown by day in low visibility Nov. 1 to Mar. 31.
			F.W.R.G.	62 **19**	W. **19** R. **15** G. 14		G. 153°30′-159°, W.-167°30′, R.-shore.
7724 *C 7284*	-Olands Sodra Grund.	56° 04.2′ N 16° 41.2′ E	**L.Fl.W.** period 8s	108 **33**	9	Black tower, red bands, gray base; 115. Helicopter platform.	Marked by four Q.W. lights.
	-RACON		**O(– – –)** period 30s		**17**		
7728 *C 7276*	-Grasgard Range, front.	56° 19.0′ N 16° 32.0′ E	**F.R.**	19 **6**		White skeleton structure, white triangular daymark.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
7732 *C 7276.1*	- -Rear, 95 meters 322° 30′ from front.	56° 19.0′ N 16° 31.9′ E	**F.R.**	33 **10**		Black skeleton structure, black triangular daymark.	Fishing light.
7736 *C 7274*	**-Segerstad.**	56° 22.0′ N 16° 34.0′ E	**L.Fl.(3)W.R.G.** period 20s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	69 **21**	W. 12 R. 10 G. 8	White round stone tower; 72.	G. shore-206°, W.-006°, R.-shore. Shown 24 hours Nov. 1 to Mar. 31.
7737 *C 7272*	-Blasinge Range, front.	56° 37.0′ N 16° 42.0′ E	**F.R.**	10 **3**	3	Lantern on post, white triangular daymark, black border.	
7738 *C 7272.1*	- -Rear, 95 meters 310° from front.	56° 37.4′ N 16° 41.9′ E	**F.R.**	20 **6**	3	Lantern on post, white triangular daymark, black border.	
7740 *C 7270*	-Kapelludden.	56° 49.0′ N 16° 51.0′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	97 **30**	12	Red iron tower; 104.	
7744 *C 7268*	-Karehamn Range, front.	56° 57.0′ N 16° 53.0′ E	**Q.R.**	20 **6**	10	Pole, white triangular daymark, red border.	Fishing lights. Synchronized. Shown Sept. 1 to May 31.
7748 *C 7268.1*	- -Rear, 180 meters 289° from front.	56° 57.5′ N 16° 52.8′ E	**Oc.R.** period 5s	36 **11**	10	Pole, white triangular daymark, red border.	Fishing light. Shown Sept. 1 to May 31.
7752 *C 7266*	-Hogby.	57° 09.0′ N 17° 03.0′ E	**L.Fl.(2)W.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	71 **22**	12	White framework tower; 75.	
7756 *C 7260*	-Olands Norra Udde.	57° 22.0′ N 17° 06.0′ E	**Fl.(4)W.** period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	103 **31**	14	White round stone tower; 105.	Visible 048°-318°.
7760 *C 7262*	-Grankullaviken Range, front.	57° 20.6′ N 17° 05.4′ E	**F.G.**	33 **10**	9	Mast, triangular daymark, black border.	
7764 *C 7262.1*	- -Rear, 400 meters 219°12′ from front.	57° 20.4′ N 17° 05.3′ E	**F.G.**	52 **16**	9	Mast, triangular daymark, black border.	
	KALMARSUND:						
7768 *C 7422*	-Kristianopel Fishing Range, front.	56° 16.0′ N 16° 03.0′ E	**F.R.**	29 **9**	4	Post, white triangular daymark.	Fishing lights.
7772 *C 7422.1*	- -Rear, 225 meters 312° from front.	56° 15.6′ N 16° 02.7′ E	**F.R.**	46 **14**	4	Post, white triangular daymark.	
7774 *C 7421.2*	-Windmotor, S.	56° 21.2′ N 16° 16.4′ E	**Fl.Y.** period 3s	33 **10**	5		
			F.R.				On top of structure.
7776 *C 7416*	**-Garpen.**	56° 23.4′ N 16° 07.9′ E	**Oc.W.R.G.** period 8s	87 **27**	W. **16** R. 13 G. 12	Gray concrete tower; 88.	R. 201°-210°, G.-253°30′, W.-270°, R.-307°, W.-004°, R.-027°, obsc.-088°, W. (unintensified)-128°30′.
	-Utgrunden:						
7780 *C 7420*	- -Utgrunden, 8.3 kilometers 102°30′ from Garpen.	56° 22.4′ N 16° 15.4′ E	**L.Fl.W.R.G.** period 8s	85 **26**	W. 11 R. 8 G. 7	Black tower, white band, gray base, white lantern; 92.	G. 316°30′-349°, W.-019°, R.-096°, G.-153°, R.-166°, G.-185°, W.-192°, R.-265°, G.-292°, R.-316°30′.
	- -RACON		**N(– •)** period 30s				
7782 *C 7421.2*	- - -Windmotor "T1".	56° 20.1′ N 16° 17.1′ E	**Fl.Y.** period 3s	33 **10**	5		4 windmotors marked on top by F.R. lights between Windmotor T1 and Windmotor T7.
			F.R.				On top of structure.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
7782.2 *C 7421.11*	---Windmotor T4.	56° 20.7′ N 16° 17.0′ E	**Fl.Y.** period 3s	33 **10**	5		
			F.R.				On top of structure.
7783 *C 7421*	--Windmotor "T7".	56° 21.2′ N 16° 16.4′ E	**Fl.Y.** period 3s	33 **10**	5		
			F.R.				On top of structure.
7784 *C 7425*	-Gronhogen Range, front.	56° 16.0′ N 16° 24.0′ E	**Iso.R.** period 3s	26 **8**	9	Post, yellow triangular daymark, red border, point up.	
7788 *C 7425.1*	---Rear, 80 meters 054° from front.	56° 15.9′ N 16° 24.2′ E	**Iso.R.** period 3s	43 **13**	9	Post, yellow triangular daymark, red border, point down.	
	-Degerhamn:						
7792 *C 7402*	--S. Range, front.	56° 21.0′ N 16° 25.0′ E	**Iso.W.** period 4s	54 **16**	8	Post, white triangular daymark, point up, black border.	
7796 *C 7402.1*	---Rear, 215 meters 052° from front.	56° 20.8′ N 16° 24.8′ E	**Q.W.**	77 **23**	8	Post, white triangular daymark, point down, black border.	
7800 *C 7400*	--Inner Range, front.	56° 21.0′ N 16° 25.0′ E	**F.R.**	26 **8**	7	Post, yellow triangular daymark, point up, black border.	2 F.R. lights in line 018° and 2 F.G. lights in line 018° mark sides of fairway.
7804 *C 7400.1*	---Rear, 65 meters 018° from front.	56° 21.3′ N 16° 24.5′ E	**F.R.**	39 **12**	7	Post, yellow triangular daymark, point down, black border.	
	-Bergkvara:						
7808 *C 7408*	--Dalskar Range, front.	56° 23.5′ N 16° 05.4′ E	**Q.W.R.G.**	26 **8**	W. 7 R. 5 G. 4	Gray structure, red triangular daymark.	G. 295°-300°,48' R.-327°, G.-334°, W.-344°06', R.-347°30′.
7812 *C 7408.1*	---Rear, 300 meters 302° from front.	56° 23.6′ N 16° 05.4′ E	**Iso.R.** period 4s	47 **14**	7	Gray structure, red triangular daymark.	Visible on range line only.
7816 *C 7410*	--Outer Range, front.	56° 23.0′ N 16° 06.0′ E	**F.R.**	29 **9**	4	White beacon, white square daymark.	
7820 *C 7410.1*	---Rear, 200 meters 263°30′ from front.	56° 22.7′ N 16° 05.5′ E	**F.R.**	49 **15**	4	Gray skeleton structure, black and white square daymark on a triangular platform.	
7824 *C 7412*	--Inner Range, front.	56° 23.1′ N 16° 05.7′ E	**F.G.**	11 **3**	3	Storehouse.	
7828 *C 7412.1*	---Rear, 35 meters 331° from front.	56° 23.1′ N 16° 05.7′ E	**F.G.**	18 **5**	3	Storehouse.	
7832 *C 7394*	--E. quay of harbor Range, front.	56° 32.0′ N 16° 23.0′ E	**F.R.**	29 **9**	8	Skeleton structure, orange triangular daymark, black border.	
7836 *C 7394.1*	---Rear, 200 meters 127°30′ from front light.	56° 31.7′ N 16° 22.8′ E	**F.R.**	55 **17**	8	Iron skeleton structure, orange triangular daymark, black border, point down.	
7844 *C 7390*	**-Skansgrundet.**	56° 39.0′ N 16° 23.0′ E	**Oc.(2)W.R.G.** period 20s lt. 13s, ec. 2s lt. 3s, ec. 2s	59 **18**	W. **15** R. 12 G. 11	Black tower, green band, gray conical base; 64.	W. 197°-202°30′, R.-215°, G.-217°, R.-249°, G.-256°, R.-008°, G.-019°, W.-024°30′, R.-032°, G.-058°, R.-150°, G.-197°. Lighted daytime during poor visibility Nov. 1 to Mar. 31.
7848 *C 7378*	--N. breakwater, head.	56° 39.0′ N 16° 28.0′ E	**F.R.**	13 **4**		White post.	
7852 *C 7380*	--S. breakwater, head.	56° 39.0′ N 16° 28.0′ E	**F.G.**	13 **4**		White post.	
	-Kalmar:						
7864 *C 7360*	--Harbor entrance Range, front.	56° 39.7′ N 16° 22.2′ E	**Q.R.**	26 **8**	8	Framework tower, red and white daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
7868 *C 7360.1*	---Rear, 50 meters 277° from front.	56° 39.7′ N 16° 22.1′ E	**Iso.R.** period 4s	36 **11**	8	Framework tower, red and white daymark.	
7872 *C 7358.4*	-Huvudet.	56° 40.0′ N 16° 23.1′ E	**Fl.(3)W.R.G.** period 4s	19 **6**	W. 9 R. 7 G. 6	Red tower, black band; 23. Floodlit.	W. 203°-206°, R.-227°, W. (unintensified)-317°30′, G.-007°, W.-023°, R.-056°, G.-100°, R.-194°, G.-203°.
7876 *C 7358*	-Osvallsgrundet.	56° 40.3′ N 16° 23.4′ E	**Fl.W.R.G.** period 3s	19 **6**	W. 10 R. 7 G. 6	Red tower, black band; 23. Floodlit.	W. 203°-209°, R.-215°, W. (unintensified)-301°30′ R.-338°, G.-015°30′, W.-024°, R.-127°, G.-203°.
7880 *C 7352*	**-Krongrundet.**	56° 41.4′ N 16° 24.3′ E	**Oc.(2)W.R.G.** period 8s	34 **10**	W. **15** W. 10 R. 12 G. 10	White tower, green and back band, gray conical base; 38. Floodlit.	W. 023°-031°, R.-058°, G.-104°, W.-184°, R.-214°, G.-222°30′, W.-226°30′, R.-284°, G.-023°. Shown 24 hours Nov. 1 to Mar. 31.
7884 *C 7354*	-Olands Bridge, center.	56° 40.7′ N 16° 23.4′ E	**F.W.**	128 **39**	3		On N. and S. sides.
	-RACON		**(• • • • • • •)**		6		
7888 *C 7354.2*	--N. side.	56° 40.7′ N 16° 23.7′ E	**F.R.**	118 **36**	13		
7892 *C 7354.4*	---E. light.	56° 40.7′ N 16° 23.8′ E	**F.G.**	118 **36**	12		
7896 *C 7354.6*	--S. side, W.	56° 40.7′ N 16° 23.7′ E	**F.R.**	118 **36**	13		
7900 *C 7354.8*	---E.	56° 40.7′ N 16° 23.8′ E	**F.G.**	118 **36**	12		
7902 *C 7356*	-Svensknabban Range, front.	56° 41.2′ N 16° 22.4′ E	**F.R.**	15 **5**	9	Post, white triangular daymark, point up.	
7902.1 *C 7356.1*	--Rear, 560 meters 251° from front.	56° 41.1′ N 16° 21.7′ E	**F.R.**	34 **10**	9	Post, white triangular daymark, point down.	
7904 *C 7350*	-Masknaggen.	56° 43.7′ N 16° 28.2′ E	**Q.W.R.G.**	33 **10**	W. 14 R. 11 G. 10	Black tower, orange top, gray base; 36. Floodlit.	W. 042°-047°, R.-072°, G.-124°, R.-190°, G.-224°, W.-231°, R.-238°, G.-042°.
7908 *C 7349*	-Ispeudde.	56° 44.7′ N 16° 31.1′ E	**L.Fl.(2)W.R.G.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	24 **7**	W. 13 R. 10 G. 9	White concrete and iron tower; 22.	G. 044°-053°, W.-057°, R.-070°, R. (unintensified)-088°, G. (unintensified)-150°, G.-166°, W.-191°, R.-198°30′.
	-Farjestaden:						
7912 *C 7370*	--Range, front.	56° 39.0′ N 16° 28.0′ E	**Iso.R.** period 1.5s	12 **4**	2	Post, white triangular daymark.	Synchronized.
7916 *C 7370.1*	---Rear, 140 meters 103° from front.	56° 39.0′ N 16° 28.0′ E	**Iso.R.** period 1.5s	29 **9**	2	Post, white triangular daymark, point down.	F.R. and F.G. lights mark breakwater heads.
7920 *C 7348*	-Olandskablarnas South Limit Range, front.	56° 45.0′ N 16° 32.0′ E	**F.R.**	26 **8**	9	Yellow structure, yellow triangular daymark.	
7924 *C 7348.1*	--Rear, 60 meters 122° from front.	56° 45.0′ N 16° 31.6′ E	**F.R.**	42 **13**	9	Yellow structure, yellow triangular daymark, point down.	
7928 *C 7346*	-Stora Ror Range, front.	56° 45.0′ N 16° 32.0′ E	**F.G.**	24 **7**	7	Post, orange triangular daymark, red border.	
7932 *C 7346.1*	--Rear, 35 meters 085° from front.	56° 45.4′ N 16° 31.8′ E	**F.G.**	33 **10**	7	Post, orange triangular daymark, red border, point down.	
7944 *C 7342*	-Olandskablarnas North Limit Range, front.	56° 47.0′ N 16° 30.0′ E	**F.R.**	26 **8**	9	Yellow structure, yellow triangular daymark.	
7948 *C 7342.1*	--Rear, 75 meters 298° from front.	56° 46.8′ N 16° 28.7′ E	**F.R.**	42 **13**	9	Yellow structure, yellow triangular daymark, point down.	Intensified on range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
7952 *C 7340*	**-Sillasen.**	56° 46.0′ N 16° 30.0′ E	**Iso.W.R.G.** period 6s	65 **20**	W. **16** R. 13 G. 12	White masonry tower, lower part black, gray conical base; 70.	G. 190°30′-196°30′, W.-200°, R.-264°30′, G.-356°, W.-008°30′, R.-033°, G.-046°, R.-190°30′. Shown by day during poor visibility Nov. 1 to Mar. 31.
	-Borgholmen:						
7960 *C 7336*	--Outer harbor Range, front.	56° 53.0′ N 16° 39.0′ E	**F.R.**	23 **7**	2	Metal framework structure, white triangular daymark, red border.	
7964 *C 7336.1*	---Rear, 200 meters 111° from front.	56° 52.7′ N 16° 39.2′ E	**F.R.**	42 **13**	2	Metal framework structure, white triangular daymark, red border.	
7968 *C 7338*	--Inner harbor Range, front.	56° 53.0′ N 16° 39.0′ E	**F.G.**	23 **7**	2	Green framework tower, white top.	
7972 *C 7338.1*	---Rear, 80 meters 081° from front.	56° 52.9′ N 16° 39.1′ E	**F.G.**	32 **10**	2	Green framework tower, white top.	
7976 *C 7332*	-Slottsbredan.	56° 55.7′ N 16° 36.3′ E	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	65 **20**	W. 8 R. 6 G. 5	Black tower, gray conical base, green band; 70.	G. 184°-202°, W.-208°, R.-359°, G.-018°, W.-022°, R.-048°, G.-098°, R.-184°.
	-Monsteras Channel:						
7980 *C 7328*	**--Okno Range, front.**	57° 00.1′ N 16° 32.0′ E	**Iso.W.** period 3s	17 **5**	**15**	White shed, red rectangular daymark, white stripe.	Visible on range line only.
7984 *C 7328.1*	---Rear, 300 meters 270°30′ from front.	57° 00.1′ N 16° 31.7′ E	**Q.W.**	41 **12**	**15**	White shed, red rectangular daymark, white stripe.	Visible on range line.
7988 *C 7330*	--Karshamnsgrund Range, front.	57° 01.0′ N 16° 32.0′ E	**Iso.W.R.G.** period 4s	9 **3**	W. 4 R. 2 G. 2	Iron column on stone base.	W. 132°-085°, G.-100°, W.-114°30′, R.-132°.
7992 *C 7330.1*	---Rear, Echeloskar, 2.7 kilometers 309° from front.	57° 01.4′ N 16° 30.2′ E	**V.Q.W.**	26 **8**	4	Post.	Visible 229°-317°.
7996 *C 7324*	-Damman.	57° 03.0′ N 16° 42.0′ E	**L.Fl.W.R.G.** period 8s	66 **20**	W. 10 R. 7 G. 6	Orange tower, black band, masonry base; 69.	W. 169°-209°, R.-010°, G.-021°, W.-024°30′, R.-120°, G.-169°. Shown by day from Nov. 1 to Mar. 31.
	-RACON		**B(– • • •)** period 30s				
8000 *C 7326*	-Sandvik Range, front.	57° 04.0′ N 16° 52.0′ E	**F.R.**	24 **7**	7	Post, yellow triangular daymark, red border.	
8004 *C 7326.1*	--Rear, 85 meters 084° from front.	57° 04.1′ N 16° 51.5′ E	**F.R.**	36 **11**	7	Post, yellow triangular daymark, red border.	
8008 *C 7318*	-Asehorn Kalmarsud Range, front.	57° 07.0′ N 16° 32.0′ E	**Oc.R.** period 6s lt. 4.5s, ec. 1.5s	75 **23**	9	Red framework tower, red triangular daymark; 66.	
8012 *C 7318.1*	--Rear, 800 meters 212° from front.	57° 06.4′ N 16° 31.5′ E	**Oc.R.** period 6s lt. 4.5s, ec. 1.5s	128 **39**	9	Red framework tower, red triangular daymark; 105.	Synchronized with front.
8016 *C 7320*	-Bokoskar Range, front.	57° 06.4′ N 16° 33.9′ E	**Iso.W.R.G.** period 3s	13 **4**	7	Post, red triangular daymark.	R. 057°-135°, G.-155°, W.-159°30′, R.-174°.
8020 *C 7320.1*	--Rear, 820 meters 158° from front.	57° 06.0′ N 16° 34.2′ E	**Q.W.**	59 **18**	7	Red and white framework tower, red triangular daymark.	Visible on range line only.
8024 *C 7322*	-Jatterson Range, front.	57° 05.9′ N 16° 33.3′ E	**Fl.(2)R.** period 3s	26 **8**	3	Post, yellow triangular daymark, point up, red border.	
8028 *C 7322.1*	--Rear, 235 meters 189°30′ from front.	57° 05.7′ N 16° 33.3′ E	**Fl.(2)W.** period 3s	59 **18**	11	Post, yellow triangular daymark, red border.	Visible on range line only.
8032 *C 7317*	-Paskallavik Range, front.	57° 10.0′ N 16° 28.0′ E	**F.R.**	19 **6**	2	Rectangular daymark.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8036 *C 7317.1*	- -Rear, 110 meters 269° 30′ from front.	57° 09.7′ N 16° 27.9′ E	**F.R.**	49 **15**	2	Rectangular daymark.	Occasional.
8040 *C 7312*	-Hornsudde.	57° 12.0′ N 16° 55.0′ E	**Mo.(D)W.R.G.** period 20s fl. 6s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 6s	33 **10**	W. 12 R. 9 G. 8	White cylindrical iron structure.	G. shore-022°30′, W.-194°, R.-shore.
8048 *C 7308*	-Bla Junfrun, W. side.	57° 15.0′ N 16° 47.0′ E	**L.Fl.(2)W.R.G.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	37 **11**	W. 8 R. 6 G. 5	Tower, white top, red bottom; 19.	W. shore-012°, R.-050°, G.-099°, W.-102°, R.-135°, G.-182°, W.-211°, R.-shore.
8052 *C 7292*	-Finnrevet.	57° 16.6′ N 16° 38.2′ E	**Fl.(2)W.R.G.** period 6s	45 **14**	W. 8 R. 6 G. 5	White iron tower, black band, white cupola, gray conical base; 51.	G. 156°-215°, W.-228°, R.-239°, G.-253°, W.-264°30′, R.-290°30′, W.-034°30′, R.-081°30′, G.-088°, W.-090°, R.-117°, obsc.-156°.
8064 *C 7290*	-Rodskar.	57° 18.0′ N 16° 36.0′ E	**Q.W.R.G.**	19 **6**	W. 5 R. 3 G. 3	White tower; 19.	G. 235°-270°, W.-295°, R.-340°, G.-076°30′, W.-078°, R.-090°. Fishing light.
8068 *C 7295*	-Tillingeo Range, front.	57° 17.0′ N 16° 31.0′ E	**Oc.W.R.G.** period 10s lt. 8s, ec. 2s	23 **7**	W. 14 R. 11 G. 10	Red triangular daymark.	R. 264°-282°, G.-288°, W.-290°30′, R.-318°, G.-339°, R.-020°.
8072 *C 7295.1*	- -Rear, 650 meters 289°30′ from front.	57° 17.1′ N 16° 30.3′ E	**Oc.W.** period 10s	59 **18**	14	Red triangular daymark.	Synchronized with front.
8076 *C 7296*	-Oskarshaman Range, common front.	57° 16.3′ N 16° 28.9′ E	**Iso.W.R.G.** period 4s	35 **11**	W. 14 R. 9 G. 8	White lantern on red frame.	G. 264°30′-270°, W.-272°30′, R.-293°, W. 312°30′-326°30′. Shown by day Nov. 1 to Mar. 31. Intensified on range line.
8078 *C 7296.1*	- -W. Range, rear, 650 meters 271° from common front.	57° 16.3′ N 16° 28.3′ E	**Q.W.**	98 **30**	14	Framework tower, red triangular daymark.	Visible on range line only. Shown by day Nov. 1 to Mar. 31.
8080 *C 7295.9*	- -Grimskallen, N. Range, rear 360 meters 321° from common front.	57° 16.4′ N 16° 28.6′ E	**Q.W.**	79 **24**	12	White framework tower, red triangular daymark.	Visible on range line only. Shown by day Nov. 1 to Mar. 31.
8084 *C 7299*	-Arnemar Range, front.	57° 16.0′ N 16° 30.0′ E	**Mo.(N)W.R.G.** period 10s	26 **8**	W. 12 R. 9 G. 8	Red triangular daymark.	R. 211°-242°, G.-244°, W.-245°30′, R.-247°, G.-251°30′, R.-268°30′.
8088 *C 7299.1*	- -Rear, 425 meters 245° from front.	57° 15.5′ N 16° 29.2′ E	**Mo.(N)W.R.G.** period 10s	49 **15**	W. 12 R. 9 G. 8	Red rectangular daymark.	R. 156°-171°, G.-191°30′, W.-195°, R.-215°, W.-range line.
8092 *C 7298*	-Ovadersudden Range, front.	57° 16.0′ N 16° 29.0′ E	**Fl.W.R.G.** period 3s	19 **6**	W. 10 R. 7 G. 6	Orange pole.	G. 136°-232°, W.-236°, R.-244°, G.-251°.
8096 *C 7298.1*	- -Rear, 208 meters 234° from front.	57° 15.7′ N 16° 28.4′ E	**F.G.**	39 **12**	9	Post, orange triangular daymark, point up.	
8100 *C 7300*	-Badholmen.	57° 15.9′ N 16° 27.5′ E	**Dir.Q.W.R.G.**	26 **8**	W. 9 R. 6 G. 5	Lantern on white platform.	G. 245°-281°, W.-287°, R.-320°.
8104 *C 7295.5*	-Stotbotten.	57° 16.5′ N 16° 33.4′ E	**Iso.W.R.G.** period 8s	39 **12**	W. 13 R. 10 G. 9	Red tower on gray cement base; 42. Floodlit.	W. 287°-289°30′, R.-313°, G.-345°30′, R.-075°30′, G.-099°, R.-159°, G.-243°, R.-274°30′, G.-287°. Shown 24 hours.
	-RACON		**O(– – –)** period 30s		12		
8108 *C 7288*	-Tokenasudde.	57° 19.0′ N 17° 00.0′ E	**L.Fl.W.R.G.** period 10s	23 **7**	W. 12 R. 9 G. 8	White round metal tower, square base.	G. shore-042°, W.-190°, R.-shore.
8116 *C 7287*	-Byxelkrok Range, front.	57° 19.7′ N 17° 00.5′ E	**F.G.**	25 **8**	4	White post, red triangular daymark. Floodlit.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8120 *C 7287.1*	- -Rear, 242 meters 125° from front.	57° 19.4′ N 17° 00.7′ E	**F.G.**	46 **14**	4	On roof, red triangular daymark.	
8124 *C 7146*	Grottlan.	57° 24.0′ N 16° 40.0′ E	**Fl.(2)W.R.G.** period 6s	16 **5**	W. 10 R. 7 G. 6	Red structure on white base, floodlit; 7.	G. 182°30′-237°, W.-245°30′, R.-252°, G.-264°30′, R.-351°, obsc.-182°30′. Fishing light.
8125 *C 7147*	-Simpevarp Range, front.	57° 24.5′ N 16° 40.8′ E	**Iso.R.** period 4s	36 **11**	12	Mast, red rectangular daymark, yellow stripe.	
8126 *C 7147.1*	- -Rear, 370 meters 267° from front.	57° 24.5′ N 16° 40.1′ E	**Iso.R.** period 4s	56 **17**	12	Mast, red rectangular daymark, yellow stripe.	Synchronized with front.
8144 *C 7140*	Soen.	57° 27.6′ N 16° 44.6′ E	**Fl.(3)W.R.G.** period 9s	16 **5**	W. 6 R. 4 G. 3	White lantern, red roof.	R. 180°-199°, W.-227°, R.-330°, G.-341°, W.-343°, R.-006°, G.-029°.
8148 *C 7138*	Galtbadan, 1.9 kilometers 016° from Soen light.	57° 29.0′ N 16° 45.0′ E	**Q.W.R.G.**	19 **6**	W. 4 R. 3 G. 2	White hut on black base.	G. 003°-008°, W.-011°, R.-073°30′, W. (unintensified)-156°, G.-169°, R.-177°.
8152 *C 7136*	Eko.	57° 30.0′ N 16° 44.0′ E	**Iso.W.R.G.** period 4s	7 **2**	W. 6 R. 4 G. 3	White wooden hut.	G. 170°30′-192°, W.-205°, R.-226°, G.(unintensified)-298°, obsc.-348°30′, G.-355°30′, W.-356°30′, R.-360°, obsc.-170°30′.
8160 *C 7132*	Strupo Ljunskar.	57° 30.8′ N 16° 46.2′ E	**Fl.(2)W.R.G.** period 6s	44 **13**	W. 8 R. 5 G. 4	White octagonal tower, black base; 30.	G. 255°-271°, W.-291°, R.-312°, G.-345°, R.-353°, G.-068°, R.-099°.
8164 *C 7130*	Vinokrakan.	57° 31.0′ N 16° 44.0′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 7 R. 5 G. 4	White octagonal iron hut, wide median red band, on concrete tower, black base; 22. Floodlit.	G. 181°-273°30′, W.-276°, R.-305°, G.-349°.
8172 *C 7124*	Mannen.	57° 33.0′ N 16° 42.0′ E	**Iso.W.R.G.** period 4s	17 **5**	W. 7 R. 5 G. 4	White hut, green roof.	G. 309°-322°, W.-323°, R.-050°, G.-131°, W.-135°, R.-145°, obsc.-309°.
8176 *C 7122*	Mellanhall.	57° 34.0′ N 16° 41.0′ E	**Q.W.R.G.**	17 **5**	W. 5 R. 3 G. 3	White structure. Floodlit.	R. 237°-343°, G.-351°, W.-359°, R.-041°.
8180 *C 7120*	Lilla Bergo, N. point.	57° 33.0′ N 16° 41.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 6 R. 4 G. 3	White hut. Floodlit.	G. 084°-218°, W.-228°, R.-288°30′.
8184 *C 7118*	Tunnholmen.	57° 33.0′ N 16° 41.0′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 6 R. 4 G. 4	White hut. Floodlit.	G. 354°-080°30′, W.-083°, R.-173°30′, G.-206°, W.-208°30′, R.-218°.
8188 *C 7114*	Vastra Ekno Range, front.	57° 35.0′ N 16° 43.0′ E	**Iso.R.** period 4s	23 **7**	5	White hut, red triangular daymark. Floodlit.	
8192 *C 7114.1*	-Rear, 250 meters 234° from front.	57° 35.2′ N 16° 42.5′ E	**Iso.R.** period 4s	40 **12**	7	White hut, red triangular daymark. Floodlit.	
8196 *C 7110*	Alhallen.	57° 36.0′ N 16° 45.0′ E	**Fl.(2)W.R.G.** period 6s	37 **11**	W. 7 R. 5 G. 4	White octagonal iron hut on concrete tower, black base; 21.	G. 053°-066°30′, W.-068°30′, R.-089°30′, G.-125°, W. (unintensified)-163°30′, G.-190°, W.-192°30′, R.-200°.
8200 *C 7108*	Bussgrund.	57° 40.0′ N 16° 46.0′ E	**Fl.W.R.G.** period 3s	28 **9**	W. 7 R. 5 G. 4	Red metal tower, white top, gray bottom; 33.	G. 170°-179°, W.-183°, R.-223°, G.-235°, R.-254°, G.-357°30′, W.-359°30′, R.-007°. Range lights 2 F.R., 85 meters apart 320°, shown at Handelops. Seasonal.
8208 *C 7084*	Hamnklabbshallan.	57° 40.2′ N 16° 47.5′ E	**Fl.(2)W.R.G.** period 6s	25 **8**	W. 7 R. 5 G. 4	White tower, green band; 30.	R. 330°30′-343°30′, G.-074°, W.-081°30′, R.-109°, G.-126°, W.-134°, R.-139°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8212 *C 7078*	Kungsgrundet.	57° 41.3′ N 16° 54.3′ E	**L.Fl.(2)W.R.G.** period 15s fl. 2s, ec. 2s fl. 2s, ec. 9s	89 **27**	W. 10 R. 7 G. 6	Black tower, red stripe, white lantern and helicopter platform on gray base; 94.	G. 122°-193°, W.-005°, R.-048°, G.-088°30′, R.-122°. Shown 24 hours Nov. 1 to Mar. 31.
	RACON		**K(– • –)** period 30s		**17**		(3 & 10 cm)
8216 *C 7082*	Ido Stangskar Range, front.	57° 40.3′ N 16° 47.3′ E	**Q.W.R.G.**	42 **13**	W. 8 R. 5 G. 4	White hut, red base.	G. 145°-150°, W.-152°, R.-158°, R. (unintensified)-302°, G.-321°, W.-324°, R.-338°. In line 323° with common rear.
8218 *C 7081*	-Sparo, Common rear.	57° 42.6′ N 16° 43.7′ E	**Iso.W.** period 6s	118 **36**	14	White octagonal hut on concrete tower; 26.	Shown by day in low visibility Nov. 1 to Mar. 31.
8220 *C 7080*	Stickskar Range, front.	57° 43.3′ N 16° 45.2′ E	**Fl.W.R.G.** period 1.5s	33 **10**	W. 7 R. 4 G. 3	White tower; 26.	G. 107°-108°18', R.-121°30', G.-189°48', G. 214°-229°, W.-240°, R.-280°, G.-354°, W.-358°18', R.-033°. In line 236° with common rear. Intensified on range line.
8228 *C 7086*	Ido.	57° 42.8′ N 16° 45.5′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 9 R. 6 G. 5	White lantern, green rectangular daymark. Floodlit.	R. 359°36′-006°, G.-180°30′, W.-182°54′, R.-188°48′, G.-210°42′.
	LUSARNAFJARDEN:						
8232 *C 7076*	-Vasterbadan.	57° 44.9′ N 16° 44.5′ E	**Oc.W.R.G.** period 10s lt. 8s, ec. 2s	46 **14**	W. 14 R. 11 G. 10	Red tower, black base; 49.	G. 112°-133°30′, R.-157°, R. (unintensified)-220°, R.-258°30′, G.-268°, W.-269°30′, R.-309°, G.-321°, R.-011°, G.-040°.
	-RACON		**B(– • • •)** period 30s		12		
8236 *C 7074*	-Slado Ask.	57° 47.0′ N 16° 48.0′ E	**Q.W.R.G.**	29 **9**	W. 7 R. 5 G. 4	White tower, red base; 27.	R. 180°-273°, G.-012°, W.-017°, R.-042°.
8240 *C 7072*	-Finnkarten.	57° 47.0′ N 16° 48.0′ E	**Fl.(4)W.R.G.** period 10s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4.8s	34 **10**	W. 7 R. 5 G. 4	White tower, green base; 32.	G. 004°-020°, W.-025°, R.-044°, G.-095°, R.-160°, G.-198°, W.-201°, R.-220°.
8244 *C 7066*	-Finnhallen.	57° 52.1′ N 16° 48.3′ E	**Fl.W.R.G.** period 3s	29 **9**	W. 8 R. 6 G. 5	White tower, red band; 29.	G. 173°-187°, W.-192°, R.-250°, G.-338°, W.-342°, R.-356°.
8248 *C 7088*	-Tallskarshalet W. Range, front.	57° 44.0′ N 16° 44.0′ E	**Q.W.G.**	16 **5**	W. 6 G. 3	Green tower, white band.	G. 142°-225°, obsc.-320°, W.-036°.
8252 *C 7088.1*	- -Rear, about 1 km. 205°06′ from front.	57° 44.0′ N 16° 44.0′ E	**Q.G.**	52 **16**	3	Green tower, white band.	Visible on range line only.
8256 *C 7090*	-Tallskarshalet Range, front.	57° 43.0′ N 16° 44.0′ E	**Q.R.**	21 **6**	4	Lantern on red pedestal.	Visible on range line only.
8260 *C 7090.1*	- -Rear, 780 meters 204°30′ from front.	57° 43.0′ N 16° 43.1′ E	**Q.R.**	41 **12**	5	Lantern on red pedestal.	Visible on range line only.
8264 *C 7098*	-Borgo (Torkelborgen), NW. point.	57° 44.0′ N 16° 42.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 4	White hut.	G. 142°-154°, W.-158°, R.-175°, G.-188°, R.-224°, G.-264°, R.-267°.
8268 *C 7096*	-Korphallan Range, front.	57° 43.9′ N 16° 41.1′ E	**Iso.W.** period 4s	10 **3**	6	White hut.	
8272 *C 7096.1*	- -Rear, 180 meters 279° from front.	57° 43.9′ N 16° 40.9′ E	**Q.W.**	24 **7**	6	White hut.	Visible 260°-283°.
8280 *C 7100.1*	- -Vitudden.	57° 45.7′ N 16° 40.5′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	22 **7**	W. 6 R. 4 G. 3	White hut.	R. 324°-327°, G.-330°, W.-333°, R.-344°, G.-347°, W.-350°, R.-028°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8284 *C 7102*	-Blockholmsundet, No. "1", N. side.	57° 46.0′ N 16° 40.0′ E	**Iso.W.R.G.** period 3s	18 **5**	W. 6 R. 4 G. 3	Green tower on gray base in the water; 21.	G. 280°-300°, W.-306°, R.-120°.
8288 *C 7103*	--N. side, No. "2".	57° 46.0′ N 16° 40.0′ E	**Q.G.**	16 **5**	3	Green pedestal gray base. Floodlit.	
8292 *C 7104*	--S. side, No. "3".	57° 45.0′ N 16° 40.0′ E	**Q.R.**	16 **5**	3	Red pedestal, gray base. Floodlit.	Synchronized.
8296 *C 7105*	---No. "4".	57° 46.0′ N 16° 40.0′ E	**Q.R.**	16 **5**	3	Red pedestal, gray base. Floodlit.	Synchronized.
8300 *C 7099*	-Trebroderssund.	57° 45.0′ N 16° 40.0′ E	**F.R.**	7 **2**	4	Pedestal; 7.	Shown Aug. 1 to Nov. 31.
8304 *C 7068*	Storklappen.	57° 50.6′ N 16° 51.0′ E	**L.Fl.W.R.G.** period 10s fl. 2s, ec. 8s	67 **20**	W. 11 R. 8 G. 7	Gray and brown square tower; 49.	G. (unintensified) 063°-130°, G.-199°, W.-344°, R.-040°, R. (unintensified)-063°. Shown by day Nov. 1 to Mar. 31.
8308 *C 7070*	Aleskar.	57° 50.3′ N 16° 48.8′ E	**Fl.W.R.G.** period 3s	33 **10**	W. 8 R. 6 G. 5	White tower, black base; 19.	R. 170°-185°, G.-278°, W.-297°30′, R.-311°, G.-322°, W.-328°, R.-346°.
8312 *C 7064*	Hommelskar Range, front.	57° 53.0′ N 16° 48.0′ E	**Iso.W.R.G.** period 4s	15 **5**	W. 6 R. 4 G. 3	White hut, green band.	G. 311°-332°, W.-343°, R.-086°, G.-187°, W.-189°, R.-207°.
8316 *C 7064.1*	-Torroudd, rear, 402 meters 353° from front.	57° 53.1′ N 16° 48.4′ E	**Q.W.R.G.**	23 **7**	W. 4 R. 3 G. 2	White structure, red bands.	G. 181°-194°, W.-207°, R.-014°.
8320 *C 7060*	Jarnklint.	57° 54.0′ N 16° 49.0′ E	**Fl.(2)W.R.G.** period 6s	21 **6**	W. 6 R. 4 G. 3	White hut.	G. 007°-020°30′, W.-048°, R.-090°, G.-142°, W.-145°, R.-180°.
8324 *C 7058*	Grindo.	57° 54.0′ N 16° 48.0′ E	**Q.W.R.G.**	29 **9**	W. 6 R. 4 G. 3	White post, green band on white pedestal.	G. 012°-030°, W.-210°, R.-254°, G.-277°.
8328 *C 7056*	Alen Range, front.	57° 55.0′ N 16° 49.0′ E	**Q.W.R.G.**	18 **5**	W. 6 R. 4 G. 3	White structure, green band on white pedestal.	G. 074°-087°, W.-091°30′, R.-224°.
8332 *C 7056.1*	-Tradskar, rear, about 550 meters 087° from front.	57° 54.4′ N 16° 49.4′ E	**Iso.W.R.G.** period 2s	57 **17**	W. 6 R. 4 G. 3	White octagonal iron tower, black base; 20.	W. 069°-178°30′, R.-268°, G.-307°, W.-313°, R.-335°.
8336 *C 7054*	Foren.	57° 54.0′ N 16° 49.0′ E	**Fl.(2)W.R.G.** period 6s	21 **6**	W. 6 R. 4 G. 3	White structure.	R. 080°-144°, G.-205°, W.-210°, R.-231°.
8340 *C 7052*	Erskar.	57° 57.0′ N 16° 51.0′ E	**Q.W.R.G.**	28 **9**	W. 5 R. 4 G. 3	White hut.	G. 180°-210°, W.-214°, R.-250°, G.-283°, W.-306°, R.-106°, G.-113°, W.-118°, R.-141°. Occasional.
8344 *C 7050*	Prickhallan.	57° 57.0′ N 16° 49.0′ E	**Fl.(2)W.R.G.** period 6s	19 **6**	W. 5 R. 4 G. 3	White octagonal iron hut on white tower, green bands, black base; 20.	G. 045°-140°30′, W.-155°, R.-255°, G.-359°, W.-001°30′, R.-045°.
8348 *C 7048*	Torskklabb.	57° 58.0′ N 16° 49.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 3	White octagonal hut, red bands.	G. 186°-205°, W.-230°, R.-307°, G.-340°, W.-344°30′, R.-005°.
8352 *C 7046*	Algardsudde.	57° 59.0′ N 16° 49.0′ E	**L.Fl.W.R.G.** period 8s	21 **6**	W. 4 R. 3 G. 2	White hut, red band.	G. shore-246°, R.-286°, G.-008°, W.-011°, R.-019°30′.
8356 *C 7044*	Graskarshall Range, front.	57° 58.0′ N 16° 49.0′ E	**Iso.W.R.G.** period 4s	10 **3**	W. 6 R. 4 G. 3	White hut.	G. 315°-000°, W.-001°, R.-005°, G.-048°, R.-128°, G.-159°, W.-195°.
8360 *C 7044.1*	-Jungfruskar, rear, about 1 km. 178°30′ from front.	57° 57.5′ N 16° 49.2′ E	**Q.W.R.G.**	35 **11**	W. 6 R. 4 G. 3	White post, green bands, on white round hut, white rectangle daymark.	G. 345°30′-003°, W.-009°, R.-080°, W.-186°30′. Intensified on range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8364 *C 7040*	Olsklabb.	58° 00.0′ N 16° 49.0′ E	**Fl.(2)W.R.G.** period 6s	16 **5**	W. 6 R. 5 G. 4	White round hut, green bands, black base; 16.	R. 273°-105°, G.-138°, W.-166°, R.-180°30′.
8368 *C 7038*	Torro Stickskar.	58° 00.0′ N 16° 49.0′ E	**Fl.(4)W.R.G.** period 12s	23 **7**	W. 6 R. 4 G. 4	White tower, green stripe; 21.	G. 353°-017°30′, W.-026°, R.-120°, G.-174°30′, W.-195°, R.-223°.
8372 *C 7036*	Torro Range, front.	58° 01.0′ N 16° 48.0′ E	**Iso.W.** period 4s	21 **6**	9	White and red hut.	Visible on range line only.
8376 *C 7036.1*	-Rear, 500 meters 222° from front.	58° 00.5′ N 16° 47.8′ E	**Q.W.**	50 **15**	8	White and red hut.	Visible on range line only.
8384 *C 7030*	Ljusklabb.	58° 05.0′ N 16° 51.0′ E	**Q.W.R.G.**	29 **9**	W. 6 R. 4 G. 3	White round hut.	G. 230°-246°, W.-249°, R.-272°, G.-300°, R.-004°.
8388 *C 7032*	Svartbadan.	58° 06.0′ N 16° 52.0′ E	**Fl.(3)W.R.G.** period 9s	27 **8**	W. 7 R. 5 G. 4	White tower, red band, black base; 23.	G. 150°-190°, R.-256°, G.-261°, W.-264°, R.-313°, G.-350°, W.-353°, R.-019°.
8392 *C 7028*	Halsoklabb.	58° 07.0′ N 16° 53.0′ E	**Fl.W.R.G.** period 3s	41 **12**	W. 6 R. 4 G. 3	White hut.	G. 107°-240°, R.-305°, G.-347°, W.-354°, R.-107°.
8396 *C 7026*	Hagerokarten.	58° 08.0′ N 16° 54.0′ E	**Fl.(4)W.R.G.** period 12s	34 **10**	W. 8 R. 6 G. 5	White tower, green band, black base.	G. 008°-038°, W.-043°, R.-076°, G.-174°30′, W.-180°30′, R.-235°, G.-255°, W.-264°, R.-279°.
8400 *C 7022*	**Haradskar.**	58° 09.0′ N 17° 00.0′ E	**L.Fl.(3)W.** period 20s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	119 **36**	**18**	Red round metal tower; 96.	Shown by day in low visibility Nov. 1 to Mar. 31.
8404 *C 6964*	Kattilo, NE. point.	58° 12.0′ N 16° 54.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 7 R. 5 G. 4	White hut, red band.	G. 161°-177°30′, W.-181°, R.-330°30′, G.-335°, W.-337°, R.-345°.
8408 *C 6962*	Espskarsgrund.	58° 14.0′ N 16° 54.0′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 7 R. 5 G. 4	White octagonal hut, green band, black base, gray concrete foundation.	G. 356°30′-001°, W.-003°30′, R.-043°, G.-177°, R.-178°
8412 *C 6956*	Stora Bockholme Range, front.	58° 15.0′ N 16° 54.0′ E	**Iso.W.** period 4s	16 **5**	9	White hut, white and red daymark.	
8416 *C 6956.1*	-Rear, 500 meters 207° from front.	58° 14.3′ N 16° 53.5′ E	**Q.W.**	38 **12**	9	White hut, white and red daymark.	
8420 *C 6958*	Bergholmen.	58° 16.0′ N 16° 54.0′ E	**Q.W.R.G.**	36 **11**	W. 6 R. 4 G. 3	Lantern on white hut; 10.	R. 255°-358°, G.-002°, W.-004°, R.-010°, G.-013°.
8424 *C 6978*	Sandsankan.	58° 18.7′ N 17° 09.8′ E	**L.Fl.W.R.G.** period 10s fl. 2s, ec. 8s	49 **15**	W. 10 R. 7 G. 5	Black concrete tower, white lantern, gray conical base; 51.	W. (unintensified) 064°-110°, obsc.-168°30′, R.-183°30′, G.-211°, W.-330°, R.-357°30′.
8428 *C 6866*	Norra Fallbadan.	58° 26.0′ N 17° 06.0′ E	**Fl.(3)W.R.G.** period 9s	52 **16**	W. 9 R. 7 G. 6	Black tower, yellow band. white lantern, gray base; 56.	G. 108°30′-114°30′, W.-116°, R.-122°, G. (unintensified)-180°, R. (unintensified)-240°, R.-245°, G.-253°, W.-315°, R.-333°30′. **Radar reflector.**
	BAROSUND:						
8432 *C 6966*	-Sando, NW. of Haradskar.	58° 10.0′ N 16° 56.0′ E	**L.Fl.(2)W.R.G.** period 15s fl. 2s, ec. 2s fl. 2s, ec. 9s	39 **12**	W. 11 R. 9 G. 8	White tower, green band, black base. Floodlit.	G. 319°-336°30′, W.-341°, R.-354°, G.-015°, W.-018°, R.-039°, G.-127°, W.-144°, R.-160°.
8436 *C 6968*	-Kvarnholmen.	58° 13.0′ N 16° 54.0′ E	**Fl.(3)W.R.G.** period 9s	17 **5**	W. 7 R. 5 G. 4	White hut, red band.	G. 190°-217°, R.-301°, G.-345°30′, W.-348°30′, R.-006°, G.-049°, W.-051°30′, R.-081°. **Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8440 *C 6954*	Snuggholmen, E. side.	58° 17.0′ N 16° 56.0′ E	**Fl.(3)W.R.G.** period 9s	23 **7**	W. 6 R. 5 G. 4	White hut, red band.	G. 200°-220°, W.-223°, R.-015°, G.-023°, W.-026°, R.-shore.
8444 *C 6976*	Enskar.	58° 19.0′ N 16° 58.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 6 R. 4 G. 3	White hut, red band.	G. 167°-197°, W.-212°, R.-012°, G.-031°, W.-034°, R.-054°.
8448 *C 6974*	Fagelon, W. side of Stora Fagelo.	58° 20.0′ N 16° 59.0′ E	**Q.W.R.G.**	19 **6**	W. 6 R. 4 G. 3	White concrete hut, green band.	G. 359°-015°, W.-018°, R.-099°, G.-187°, W.-192°, R.-199°.
8452 *C 6990*	Adkobb.	58° 21.0′ N 16° 59.0′ E	**Fl.(2)W.R.G.** period 6s	18 **5**	W. 5 R. 3 G. 3	Lantern on white pedestal.	G. 268°-006°, W.-009°, R.-130°, G.-171°, W.-173°, R.-268°.
8460 *C 6982*	-Stora Hogholmen Range, front.	58° 21.1′ N 16° 59.2′ E	**Iso.W.** period 4s	33 **10**	7	White tower, white and red daymark.	Visible 352°-115°.
8460.1 *C 6982.1*	- -Rear, 115 meters 006°30′ from front	58° 21.1′ N 16° 59.2′ E	**Q.W.**	46 **14**	6	White hut, white and red daymark.	Visible 352°-178°.
8464 *C 6984*	Horvelso.	58° 24.1′ N 16° 56.6′ E	**Fl.W.R.G.** period 3s fl. 0.4s, ec. 2.6s	12 **4**	W. 6 R. 4 G. 4	White hut, red band. Floodlit.	G. 155°-163°, W.-170°, R.-245°, G.-309°, W.-319°, R.-335°.
8468 *C 6988*	Sodra Lamskar Range, front.	58° 24.0′ N 16° 57.2′ E	**Iso.W.** period 4s	7 **2**	12	White structure, red square daymark, white stripe.	
8472 *C 6988.1*	-Rear, 1200 meters 338°30′ from front.	58° 24.6′ N 16° 56.8′ E	**Q.W.**	29 **9**	12	White structure, red square daymark, white stripe.	
8476 *C 6873*	Jungfrusalen.	58° 27.0′ N 16° 57.0′ E	**Q.W.R.G.**	19 **6**	W. 5 R. 3 G. 2	Lantern on white storage shed, red band.	G. 353°-014°, W.-023°, R.-038°, G.-199°, W.-201°, R.-353°.
	MEM APPROACH:						
8480 *C 6874*	-Lonshuvudfjarden.	58° 26.7′ N 16° 51.1′ E	**Fl.(2)W.R.G.** period 6s	11 **3**	W. 7 R. 5 G. 4	White hut, green band.	G. shore-232°, W.-235°30′, R.-312°, G.-066°30′, W.-068°30′, R.-072°.
8484 *C 6876*	-Bjorskar.	58° 25.5′ N 16° 47.6′ E	**Fl.W.R.G.** period 3s	11 **3**	W. 6 R. 4 G. 4	White lantern, red band.	G. 058°30′-074°30′, W.-077°, R.-121°, G.-198°, W.-211°, R.-224°.
8488 *C 6994*	-Farholmen, S. point.	58° 25.0′ N 16° 45.0′ E	**Fl.(4)W.R.G.** period 12s	20 **6**	W. 5 R. 4 G. 3	White hut, green band.	G. 247°-254°, W.-256°, R.-271°, R.-010°, G.-084°, W.-095°, R.-098°.
8492 *C 6996*	-Ettersundet.	58° 26.0′ N 16° 40.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 4 R. 3 G. 2	White lantern, green band, on dolphin.	R. 089°-290°, G.-293°, W.-296°, R.-317°.
8496 *C 6998*	- -W.	58° 26.0′ N 16° 40.0′ E	**Q.W.R.G.**	14 **4**	W. 3 R. 2 G. 2	White lantern, green band, on dolphin.	G. 259°-108°30′, W.-115°30′, R.-133°.
8504 *C 7004*	Hackerstad.	58° 28.0′ N 16° 32.0′ E	**Fl.(2)W.R.G.** period 6s	26 **8**	W. 6 R. 4 G. 3	White lantern, green band.	G. shore-309°, W.-315°, R.-333°, W. (unintensified)-077°, G.-098°, W.-102°, R.-120°.
8508 *C 7006*	Lundbynas.	58° 28.0′ N 16° 28.0′ E	**Q.W.R.G.**	21 **6**	W. 4 R. 2 G. 2	White hut, green band.	G. 281°-286°30′, W.-291°, R.-017°, G.-099°, W.-108°, R.-shore.
8516 *C 7010*	-Soderkoping.	58° 28.0′ N 16° 25.0′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 6 R. 4 G. 3	Iron framework structure; 23.	G. 232°-252°, W.-254°, R.-255°30′. Shown from Aug. 1 to Oct. 31.
	NORRKOPING APPROACH:						
8520 *C 6872*	-Kopparholmen Range, front.	58° 28.0′ N 16° 58.0′ E	**Iso.W.R.G.** period 4s	19 **6**	W. 8 R. 6 G. 5	White hut, green band. Floodlit.	G. 000°-010°, W.-022°, R.-073°, G.-082°, W. 083°-087°30′, R.-122°, G.-172°, W.-177°, R.-196°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8524 *C 6872.1*	- -Kuggviksskar, rear, about 1 km. 016° from front.	58° 28.8′ N 16° 58.2′ E	**Fl.(4)W.R.G.** period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 2.7s	42 **13**	W. 6 R. 4 G. 3	Concrete tower, white octagonal lantern; 40.	R. 307°30′-331°, G.-011°, W.-019°, R.-051°, G.-058°30′, R.-090°, G.-129°, W.-139°, R.-253°30′.
8528 *C 6868*	-Arko, Ostra Kopparholmen Range, front.	58° 28.0′ N 16° 58.0′ E	**Iso.W.R.G.** period 2s	26 **8**	W. 7 R. 5 G. 4	White hut, red and white rectangular daymark. Floodlit.	W. (13M) on range, G. 119°-149°, W.-156°30′, R.-188°, R. (unintensified)-230°.
8532 *C 6868.1*	- -**Kalebo,** rear, about 1.6 km. 292° from front.	58° 28.7′ N 16° 56.4′ E	**Oc.W.** period 6s	90 **27**	**16**	Lantern on red and white beacon.	Visible on range line only.
8538 *C 6854*	-Logegrund.	58° 32.1′ N 17° 00.7′ E	**Fl.G.** period 3s	10 **3**	2	White pedestal, green band; 6.	
8540 *C 6858*	-Norra Granso.	58° 31.8′ N 16° 53.8′ E	**Fl.W.R.G.** period 3s	19 **6**	W. 6 R. 4 G. 3	Lantern on white shed, green band.	R. 355°-105°, G.-146°, W.-148°30′, R.-172°.
8544 *C 6864*	-Liss Lindo.	58° 29.8′ N 16° 56.5′ E	**Fl.W.R.G.** period 3s	8 **2**	W. 9 R. 6 G. 5	White lantern. Floodlit.	G. 120°-130°30′, W.-133°30′, R.-159°, W. (unintensified)-289°, G.-308°30′, W.-322°, R.-shore.
8548 *C 6862*	-Ettergrundshallan.	58° 30.9′ N 16° 54.2′ E	**Oc.W.R.G.** period 6s lt. 4.5s, ec. 1.5s	19 **6**	W. 8 R. 6 G. 5	Lantern on white tower, red band; 15. Floodlit.	G. 132°-146°, W.-148°, R.-315°.
8552 *C 6860*	-Gransosund Range, front.	58° 31.2′ N 16° 53.7′ E	**Iso.W.R.G.** period 4s	13 **4**	W. 7 R. 5 G. 4	White hut.	G. 156°-169°, W.-171°, R.-245°, W.-335°.
8556 *C 6860.1*	- -Rear, 125 meters 316° from front.	58° 31.2′ N 16° 53.6′ E	**Q.W.**	26 **8**	8	Red rectangular daymark, white stripe, on white hut.	Visible on range line only.
8560 *C 6859*	-Trollholmashallen.	58° 31.7′ N 16° 53.4′ E	**Fl.(2)W.R.G.** period 6s	12 **4**	W. 6 R. 4 G. 3	White hut.	G. 139°-155°, W.-157°, R.-209°30′, G.-330°, W.-333°, R.-139°.
8564 *C 6855*	-Maro Range, front.	58° 33.6′ N 16° 54.9′ E	**Iso.W.R.G.** period 4s	16 **5**	W. 6 R. 4 G. 3	White hut, red rectangular daymark, white stripe.	G. 028°-039°24′, W.-043°30′, R.-060°30′, G. (unintensified)-118°, W. (unintensified) across channel, W. (11M) on range line.
8568 *C 6855.1*	- -Eko, rear, 1000 meters 203°18′ from front.	58° 33.0′ N 16° 54.4′ E	**Q.W.R.G.**	46 **14**	W. 6 R. 4 G. 3	White hut, red rectangular daymark, white stripe.	R. 053°-063°, G.-083°24′, W.-090°42′, R.-134°, G. (unintensified)-144°, W. (15M) on range line.
8572 *C 6856*	-Boso Sten.	58° 33.2′ N 16° 51.5′ E	**Fl.(2)W.R.G.** period 6s	12 **4**	W. 7 R. 5 G. 4	White hut.	G. 154°-170°48′, W.-172°42′, R.-238°, G.-289°48′, W.-295°12′, R.-341°.
8574 *C 6856.4*	-Bjorno Range, front.	58° 33.1′ N 16° 50.7′ E	**F.R.**	21 **6**	4	Mast, orange triangular daymark.	Occasional.
8574.1 *C 6856.41*	-Rear, 200 meters 191° from front.	58° 33.0′ N 16° 50.7′ E	**F.R.**	36 **11**	4	Mast, orange triangular daymark.	Occasional.
8576 *C 6857.4*	-Ramsholmen Range, front.	58° 34.0′ N 16° 52.0′ E	**Q.W.**	16 **5**	8	Lantern on shed, red and white stripes, white triangular daymark, red borders.	
8580 *C 6857.41*	- -Rear, 250 meters 156°30′ from front.	58° 33.6′ N 16° 52.0′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	30 **9**	8	Lantern on shed, red and white stripes, white triangular daymark, red borders.	Visible on range line only.
8584 *C 6882*	-Flaskogrund.	58° 35.0′ N 16° 51.0′ E	**Iso.W.R.G.** period 4s	12 **4**	W. 6 R. 4 G. 4	White pillar, red band, on black base.	G. 130°-155°24′, W.-172°24′, R.-345°.
8588 *C 6888*	-Flaskosund.	58° 35.0′ N 16° 51.0′ E	**Fl.G.** period 3s	21 **6**	3	White tower, green band, on black base.	Visible 335°-170°.
8594 *C 6857*	-Flasko.	58° 35.0′ N 16° 51.0′ E	**Fl.(2)R.** period 6s	21 **6**	4	White shed, red band.	Visible 155°-350°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8596 *C 6878*	-Flaskohallen.	58° 34.6′ N 16° 51.2′ E	**Fl.(3)G.** period 9s	15 **5**	3	White hut, green band, on black base.	Visible 355°-155°.
8600 *C 6892*	-Lono, N. side.	58° 36.3′ N 16° 46.6′ E	**Fl.W.R.G.** period 4s	16 **5**	W. 9 R. 6 G. 5	White hut, red band; 7.	G. shore-107°30′, W.-109°, R.-126°, G.-139°, W.-195°, R.-260°, G.-287°, W.-290°30′, R.-shore.
8604 *C 6890*	-Hargokalv.	58° 36.4′ N 16° 52.6′ E	**Fl.(4)W.R.G.** period 12s	56 **17**	W. 8 R. 6 G. 5	Lattice mast, white daymark, green horizontal band; 54. Floodlit.	G. 255°-270°, W.-276°30′, R.-286°, G.-299°, R.-021°, G.-050°, W.-064°, R.-090°, G.-107°, W.-111°, R.-122°.
8608 *C 6829*	**-Gustaf Dalen.**	58° 35.6′ N 17° 28.2′ E	**Iso.W.R.G.** period 8s	79 **24**	W. **20** R. **18** G. **17**	Black tower, red top, on gray base; 85. Floodlit.	R. 018°-045°30′, G.-050°, G. (14M)-131°, G.-136°, W. (18M)-176°30′, R.- 181°30′, R. (15M)-205°, G. (15M)-210°, G. (14M)-232°, G.-240°, R.-249°, G.-258°, W.-018°. Shown by day Nov. 1 to Mar. 31.
	-RACON		**G(– – •)** period 30s		**16**		
8612 *C 6836*	-Norra Kranken.	58° 37.0′ N 17° 23.0′ E	**Fl.(3)W.R.G.** period 9s	41 **12**	W. 10 R. 8 G. 6	White tower with gray conical base; 38.	G. 349°-085°30′, W.-088°30′, R.-100°, G.-154°30′, W.-159°, R.-205°, G.-207°, W.-210°, R.-242°, G.-261°, W.-288°, R.-349°.
	-RACON		**K(– • –)** period 30s		13		
8616 *C 6832*	-Havringe Range, front.	58° 36.3′ N 17° 19.3′ E	**Iso.W.** period 3s	31 **9**	14	White hut, black band, white rectangular daymark. Floodlit.	Visible on range line only.
8620 *C 6832.1*	- -Rear, 183 meters 295°24′ from front.	58° 36.2′ N 17° 19.1′ E	**Iso.W.R.G.** period 3s	75 **23**	W. **16** R. 13 G. 11	White tower, black band; 72. Floodlit.	W. 291°-314°, R.-109°30′, G.-138°, W.-139°, R.-245°, G.-291°. Synchronized with front.
8624 *C 6834*	-Vastra Korpen.	58° 36.0′ N 17° 20.0′ E	**Fl.(4)W.R.G.** period 12s	26 **8**	W. 9 R. 7 G. 6	White tower; 23.	G. 280°-312°, W.-321°, R.-341°30′, W. (unintensified) 029°-074°, G.-105°, W.-111°, R.-130°.
8626 *C 6833*	-W. Hallgrundet.	58° 39.1′ N 17° 13.7′ E	**Fl.R.** period 3s	16 **5**	2	Cairn.	**Radar reflector.**
8628 *C 6838*	-Kopparnageln.	58° 36.8′ N 17° 17.5′ E	**Q.W.R.G.**	22 **7**	W. 8 R. 6 G. 5	White tower, red band; 13.	G. 103°-250°, W.-258°, R.-103°. **Radar reflector.**
8632 *C 6840*	-Grasskaren, E. extremity.	58° 37.1′ N 17° 14.4′ E	**L.Fl.(2)W.R.G.** period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	41 **12**	W. 14 R. 11 G. 10	White tower, green band; 39.	G. 242°30′-263°30′, W.-267°30′, R.-284°, G.-301°, W.-099°, R.-131°.
8640 *C 6818*	-Beten, W. side.	58° 38.7′ N 17° 08.6′ E	**Fl.(2)W.R.G.** period 6s	39 **12**	W. 13 R. 10 G. 8	White hut. Floodlit.	G. shore-332°30′, W.-343°30′, R.-028°30′, G.-063°, W.-066°30′, R.-075°, obsc.-086°, G.-125°, W.-132°, R.-shore.
8644 *C 6842*	-Vinterklasen Range, front.	58° 38.5′ N 17° 08.0′ E	**F.R.**	30 **9**	9	White hut, green band.	
8648 *C 6842.1*	- -Rear, 45 meters 213° from front.	58° 38.5′ N 17° 08.0′ E	**Mo.(U)W.R.G.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 3s, ec. 3s	56 **17**	W. 11 R. 8 G. 7	White hut, green band.	R. 177°-248°, G.-301°, W.-309° R.-028°, G.-065°, W.-068°, R.-095°, G.-141°.
8652 *C 6845*	-Falkens Grund.	58° 38.0′ N 17° 03.0′ E	**Fl.(3)W.R.G.** period 9s	33 **10**	W. 10 R. 8 G. 6	White tower, red top, on concrete base; 36.	G. 208°-255°, W.-263°, R.-289°, G.-010°, R.-063°, G.-077°, W.-080°30′, R.-208°. **Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8654 *C 6846.5*	-Kungshamnsgrund.	58° 37.0′ N 17° 02.3′ E	**Fl.R.** period 3s	15 **5**	2	Red post; 10.	**Radar reflector.**
8656 *C 6846*	-Kungshamn Range, front.	58° 37.6′ N 17° 01.4′ E	**Iso.W.R.G.** period 4s	36 **11**	W. 10 R. 7 G. 6	White hut, red stripe.	G. 255°-260°, W.-265°, R.-299°. Intensified on range line.
8660 *C 6846.1*	- -Rear, 600 meters 069°30′ from front.	58° 37.7′ N 17° 02.0′ E	**Q.W.R.G.**	62 **19**	W. 8 R. 6 G. 5	White tower, red stripe; 30.	R. 237°-247°, G.-263°, W.-266°30′, R.-289°, G.-320°, W.-327°, R.-001°, G.-027°30′, W.-shore.
8664 *C 6848*	-Mesen.	58° 37.0′ N 17° 00.0′ E	**Fl.W.R.G.** period 3s fl. 0.4s, ec. 2.6s	20 **6**	W. 9 R. 6 G. 5	White hut, red band, on white base.	R. 062°-150°, G.-251°, W.-253°, R.-260°.
8668 *C 6847*	-Albacksgrund.	58° 37.4′ N 17° 00.1′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 8 R. 6 G. 5	White lantern, green band, on warehouse.	G. shore-267°30′, R.-000°, G.-062°, W.-067°30′, R.-090°.
8672 *C 6894*	-Navekvarn, Braviken, N. side of channel.	58° 37.2′ N 16° 48.8′ E	**Fl.(2)W.R.G.** period 6s	26 **8**	W. 9 R. 6 G. 5	White hut, green band; 7. Floodlit.	G. shore-295°, W.-296°, R.-313°30′, G.-336°, R.-000°, G.-069°, W.-075°30′, R.-084°, G.-093°, W.-095°, R.-shore.
8676 *C 6896*	-Karlsund, about 1.5 km. from center of Flinta.	58° 38.0′ N 16° 42.0′ E	**Q.W.R.G.**	21 **6**	W. 8 R. 6 G. 5	Green hut, white roof. Floodlit.	G. shore-280°, W.-282°, R.-330°, G.-022°, W.-070°, R.-088°, G.-095°, W.-099°, R.-shore.
8688 *C 6898*	-Saterholmen.	58° 38.0′ N 16° 36.0′ E	**Fl.(4)W.R.G.** period 12s fl. 0.5s, ec. 1.4s fl. 0.5s, ec. 1.4s fl. 0.5s, ec. 1.4s fl. 0.5s, ec. 5.8s	23 **7**	W. 12 R. 9 G. 8	Lantern on white foundation, green band.	G. shore-280°, W.-281°, R.-284°30′, G.-288°, W.-290°, R.-026°, G.-102°30′, W.-105°, R.-shore.
8692 *C 6901*	-Algersgrund.	58° 39.1′ N 16° 27.6′ E	**Q.W.R.G.**	16 **5**	W. 8 R. 6 G. 5	White hut, red stripe, on black base. Floodlit.	G. 000°-083°30′, W.-272°30′, R.-000°.
8696 *C 6900*	-Lovsgata.	58° 39.5′ N 16° 27.4′ E	**Fl.(2)W.R.G.** period 6s	22 **7**	W. 8 R. 6 G. 5	White tower, green band; 20.	G. shore-286°, W.-288°, R.-302°, G.-069°30′, W.-071°30′, R.-078°, G.-084°, W.-088°, R.-shore.
8700 *C 6902*	-Stora Juten.	58° 38.0′ N 16° 20.0′ E	**Fl.(3)W.R.G.** period 9s	21 **6**	W. 13 R. 10 G. 9	Red hut, white base; 20.	G. 051°-065°, W.-070°, R.-138°, W. (unintensified)-230°30′, R. (unintensified)-243°, G.-251°, W.-254°30′, R.-282°30′. Norrkoping channel is marked by various W., R., and G. lights.
	OXELOSUND:						
8704 *C 6820*	-Ljungskar, SW. side.	58° 39.1′ N 17° 07.9′ E	**Fl.(4)W.R.G.** period 12s	23 **7**	W. 14 R. 10 G. 9	White tower, concrete base; 20. Floodlit.	G. shore-323°, W.-327°, R.-346°, G.-017°30′, W.-022°30′, R.-035°, G.-050°, R.-071°, G.-134°30′, W.-142°, R.-shore.
8712 *C 6824*	-Oxelosund Hamn Range, front.	58° 40.0′ N 17° 06.0′ E	**Iso.R.** period 4s	20 **6**	9	Steel pole, white triangular daymark, black border.	
8716 *C 6824.1*	- -Rear, 280 meters 320° 30′ from front.	58° 40.1′ N 17° 06.3′ E	**Iso.R.** period 4s	34 **10**	9	Steel pole, white triangular daymark, black border.	Synchronized.
8720 *C 6814*	- -E. of harbor.	58° 39.7′ N 17° 07.9′ E	**Q.W.R.G.**	13 **4**	W. 10 R. 8 G. 7	White octagonal iron tower, concrete base.	G. shore-282°, W.-308°, R.-348°, G.-054°30′, W.-062°, R.-078°.
8724 *C 6816*	-Korsholm, E. entrance to Oxelosund.	58° 40.0′ N 17° 08.0′ E	**Fl.(2)W.R.G.** period 6s	10 **3**	W. 8 R. 6 G. 5	White octagonal iron tower, concrete base. Floodlit.	G. 075°-093°, W.-099°, R.-170°, G.-238°, W.-244°, R.-259°, G.-262°, W.-264°, R.-274°.
8728 *C 6810*	Korpholmen.	58° 41.0′ N 17° 09.0′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 10 R. 8 G. 7	White octagonal hut.	G. 231°-246°30′, W.-249°30′, R.-258°, G.-002°, W.-004°30′, R.-059°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8732 *C 6794.5*	Kolhalsen.	58° 42.0′ N 17° 11.0′ E	**Fl.(3)W.R.G.** period 9s	20 **6**	W. 7 R. 5 G. 4	Tower white above black; 22.	G. 130°-140°, W.-144°, R.-248°, G.-277°, W.-281°30′, R.-300°, G.-320°30′, W.-322°, R.-337°.
	NYKOPING APPROACH:						
8736 *C 6800*	-Lillhammarsgrund.	58° 39.8′ N 17° 20.6′ E	**Fl.W.R.G.** period 3s	36 **11**	W. 11 R. 9 G. 8	White tower, red top, black base; 39. Floodlit.	G. 101°-113°30′, W.-119°30′, R.-132°, R. (unintensified)-222°, G.-237°, W.-240°, R.-325°, G.-345°.
	-RACON		**N(– •)** period 30s		11		
8740 *C 6802*	-Norra Masklubbshallan, S. side of channel.	58° 40.0′ N 17° 17.0′ E	**Q.W.R.G.**	10 **3**	W. 9 R. 6 G. 5	Red and white structure. Floodlit.	G. (unintensified) 138°-266°, G.-275°30′, W.-279°, R.-296°.
8742 *C 6803*	-Norra Lillhammarsgrund Range, front	58° 40.4′ N 17° 19.4′ E	**Iso.W.R.G.** period 4s	33 **10**	W. 8 R. 6 G. 5	Lantern on red and yellow striped round column, concrete base.	W. 297°48'-304°, R.-315°, G.-297°48'.
8744 *C 6803.1*	- -Trutbadan, rear, N. side of channel, 301° from front.	58° 42.0′ N 17° 16.0′ E	**Q.W.**	52 **16**	12	Lantern on tower, red and yellow rectangular daymark; 39.	
8748 *C 6794*	-Ledskar.	58° 42.0′ N 17° 14.0′ E	**Iso.W.R.G.** period 3s	22 **7**	W. 7 R. 5 G. 4	White hut.	G. 178°-197°, R.-230°, G.-309°, R.-360°, G.-033°, W.-052°30′, R.-088°, G.- 112°, R.-178°.
8752 *C 6795*	-Salgrund.	58° 43.0′ N 17° 09.0′ E	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 **6**	W. 6 R. 4 G. 3	Green shed, white band.	G. 291°-301°, W.-320°30′, R.-052°, G.-121°, R.-157°.
8756 *C 6796*	**Nykoping** AVIATION LIGHT.	58° 47.0′ N 16° 55.0′ E	**Fl.(7)W.** period 19s	148 **45**	**23**	2 yellow and red framework masts.	Shown only when required. Obstruction.
8760 *C 6792*	Stora Kampasen.	58° 43.0′ N 17° 14.0′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 6 R. 4 G. 3	Lattice mast on white hut.	G. shore-260°, W.-276°, R.-017°, G.-031°, R.-070°,
8764 *C 6790*	Valaro, on mainland.	58° 43.0′ N 17° 16.0′ E	**Q.R.G.**	15 **5**	R. 4 G. 3	Lantern on white hut.	G. 270°-305°, R.-360°, G.-055°, R.-064°.
8768 *C 6788*	Ornklubb.	58° 43.0′ N 17° 17.0′ E	**Fl.(2)R.G.** period 6s	10 **3**	R. 4 G. 3	Lantern on white hut.	G. 112°-126°, R.-180°, G.-274°, R.-284°.
8772 *C 6786*	Espskarsklubb.	58° 43.0′ N 17° 19.0′ E	**Fl.R.G.** period 3s	20 **6**	R. 4 G. 3	Lantern on white hut.	G. 215°-225°, R.-019°, G.-051°, R.-055°.
8776 *C 6772*	Skepna.	58° 45.0′ N 17° 21.0′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 6 R. 4 G. 3	Lantern on white hut.	G. 270°-305°, W.-310°, R.-332°, G.-016°, W.-020°, R.-090°.
8780 *C 6774*	Langskar.	58° 44.0′ N 17° 23.0′ E	**Fl.(2)W.R.G.** period 6s	28 **9**	W. 6 R. 4 G. 3	Lantern on white hut.	G. 096°-109°30′, W.-115°, R.-135°, W. (unintensified)-215°, G.-230°, W.-234°, R.-245°.
8784 *C 6760*	Bergo.	58° 45.0′ N 17° 25.0′ E	**Fl.W.R.** period 3s	17 **5**	W. 10 R. 7	Lantern on white hut. Floodlit.	W. 194°-225°, R.-030°.
8796 *C 6750*	Savosund.	58° 46.0′ N 17° 29.0′ E	**Iso.W.R.G.** period 3s	10 **3**	W. 10 R. 7 G. 6	White shed, green base.	G. 093°-102°, W.-109°, R.-147°, W. (unintensified)-247°, R.-253°, G.-272°, W.-275°, R.-296°.
8800 *C 6748*	Herrsaten.	58° 46.0′ N 17° 30.0′ E	**Fl.(4)W.R.G.** period 12s	16 **5**	W. 7 R. 5 G. 4	White shed, green band.	G. 096°30′-100°30′, R.-112°, G.-129°, W.-139°, R.-222°, G.-238°, W.-242°, R.-267°.
8808 *C 6768*	Hartso Stangskar.	58° 42.0′ N 17° 28.0′ E	**Fl.(4)W.R.G.** period 12s	45 **14**	W. 8 R. 6 G. 5	White tower, black base; 36.	G. 003°-023°, W.-035°, R.-064°30′, G.-075°, W.-079°, R.-119°, G.-159°, W.-161° 30′, R.-180°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8812 *C 6766*	Ringson Range, front.	58° 44.0′ N 17° 27.0′ E	**Iso.W.R.G.** period 4s	28 **9**	W. 6 R. 4 G. 3	White tower, green base, red rectangular daymark, white stripe; 20.	G. 330°-332°, W.-342°30′, R.-046°′, G.-117°30′, W.-125°30′, R.-140°.
8816 *C 6766.1*	-Rear, 825 meters 338°30′ from front.	58° 43.9′ N 17° 26.2′ E	**Q.W.**	66 **20**	10	White post on white hut, red and white rectangular daymark.	Visible on range line only.
8820 *C 6764*	Griskar Range, front.	58° 44.0′ N 17° 25.0′ E	**Iso.W.R.G.** period 4s	19 **6**	W. 6 R. 4 G. 3	White tower, red band.	G. 153°-175°, W.-177°30′, R.-195°, G.-284°, W.-320°.
8824 *C 6764.1*	-Rear, 450 meters 314°36′ from front.	58° 44.3′ N 17° 24.8′ E	**Q.W.**	39 **12**	8	White hut, red and white rectangular daymark.	Visible on range line only.
8828 *C 6754*	Marholmen Range, front.	58° 47.0′ N 17° 28.0′ E	**Q.W.R.**	21 **6**	W. 8 R. 6	Lantern on white pedestal, red band.	W. 138°-270°, R.-042°, R. intensified on range line.
8832 *C 6754.1*	-Rear, Bromdal, 700 meters 042° from front.	58° 47.2′ N 17° 28.3′ E	**Iso.W.R.G.** period 4s	42 **13**	W. 9 R. 6 G. 5	White pedestal, red band, white rectangular daymark.	Intensified on range line. G. shore-323°, R.-000°30′, G.-026°, W.-032°, R.-086°.
8836 *C 6752*	Kallvik.	58° 47.0′ N 17° 29.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 9 R. 7 G. 6	White hut, red band.	G. 315°-332°30′, W.-339°30′, R.-050°, G.-113°30′, W.-125°30′, R.-134°30′.
8840 *C 6744*	Tratbadan.	58° 47.0′ N 17° 34.0′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 7 R. 5 G. 4	White tower, green band; 20.	G. 060°30′-068°30′, W.-071°30′, R.-088°30′, G.-157°, W.-160°, R.-167°, G.-267°.
8844 *C 6742*	Hoko Gupa.	58° 48.0′ N 17° 33.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 3	White hut, red band.	G. 170°-177°, W.-180°, R.-210°, G.-228°30′, W.-236°30′, R.-265°, G.-318°, W.-327°, R.-shore.
8848 *C 6738*	Kockelskar Range, front.	58° 48.0′ N 17° 34.0′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 7 R. 5 G. 4	White tower, red base; 23.	G. from shore-275°, W.-277°, R.-308°, G.-359°, R.-018°.
8852 *C 6738.1*	-Rear, 215 meters 276° from front.	58° 48.0′ N 17° 33.2′ E	**Q.W.**	64 **20**	10	White tower, red square daymark.	Visible on range line only.
8856 *C 6740*	Kockelhallan.	58° 48.0′ N 17° 34.0′ E	**Fl.(3)W.R.G.** period 9s	17 **5**	W. 6 R. 4 G. 3	White shed, green band.	G. 034°-054°, W.-077°, R.-133°, G.-170°, W.-174°, R.-194°, G.-265°, R.-276°.
8860 *C 6732*	Asenskallen.	58° 47.2′ N 17° 42.0′ E	**Fl.W.R.G.** period 3s	38 **12**	W. 8 R. 6 G. 5	White tower, green band; 29.	G. 091°-106°, W.-110°, R.-238°, G.-259°, W.-267°, R.-277°, G.-294°, R.-300°.
8864 *C 6730*	Skvallran.	58° 47.4′ N 17° 42.5′ E	**Fl.(3)W.R.G.** period 9s	34 **10**	W. 7 R. 5 G. 4	White tower, red band; 38.	G. 189°-203°, W.-221°, R.-258°, G.-271°, W.- 279°, R.-344°, G.-060°, W.-080°, R.-095°, R. (unintensified)-116°, obsc.-189°.
8868 *C 6734*	Graskar.	58° 48.0′ N 17° 40.0′ E	**Q.W.**	32 **10**	7	Silver structure.	Visible to west toward Kockelskar range lights.
8872 *C 6726*	Tornskar.	58° 49.0′ N 17° 33.0′ E	**Iso.W.R.G.** period 4s	16 **5**	W. 6 R. 4 G. 3	White shed, green band.	R. shore-150°, G.-171°, W.-173°, R.-188°, W.-226°, R.-shore.
8876 *C 6724*	Bockholmen.	58° 50.0′ N 17° 35.0′ E	**Q.W.R.G.**	12 **4**	W. 6 R. 4 G. 3	White shed, green band.	G. 000°-006°30′, W.-011°30′, R.-051°, G.-179°, W.-182°30′, R.-200°.
8880 *C 6722*	Lysberget.	58° 50.0′ N 17° 36.0′ E	**Fl.(2)W.R.G.** period 6s	27 **8**	W. 6 R. 4 G. 3	White hut.	G. 045°-049°, W.-051°30′, R.-063°30′.
8884 *C 6720*	Boko.	58° 51.0′ N 17° 36.0′ E	**Iso.W.R.G.** period 4s	16 **5**	W. 6 R. 4 G. 3	White hut.	G. 053°-060°, W.-229°, G.-249°, W.-252°, R.-260°.
8888 *C 6675.6*	Vastra Roko.	58° 47.0′ N 17° 47.0′ E	**Q.W.R.G.**	43 **13**	W. 10 R. 7 G. 6	White tower, black base; 28.	G. 024°-084°, R.-114°, G.-151°30′, W.-161°30′, R.-172.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8892 *C 6675.4*	Rokogrundet.	58° 47.2′ N 17° 46.6′ E	**Oc.(2)W.R.G.** period 12s	33 **10**	W. 10 R. 7 G. 6	Black tower, white band, green lantern; 36. Floodlit.	R. 169°-292°, G.-321°, W.-324°30′, R.-024°, G.-088°30′, W.-090°, R.-107°, G.-164°, W.-169°.
8896 *C 6675*	Granklubben.	58° 48.0′ N 17° 45.0′ E	**Iso.W.R.G.** period 3s	42 **13**	W. 13 R. 10 G. 9	White lantern.	G. 225°-298°, R.-312°30′, G.-317°30′, W.-320°, R.-329°30′, G.-011°, W.-054°, R.-075°.
8900 *C 6675.8*	Kolguskar.	58° 48.0′ N 17° 47.0′ E	**Fl.(2)W.R.G.** period 6s	33 **10**	W. 10 R. 7 G. 6	White hut, green roof.	G. 337°-001°30′, W.-012°, R.-022°, G.-135°, W.-138°, R.-shore.
8902 *C 6676.2*	Torsken.	58° 49.5′ N 17° 43.8′ E	**Q.W.R.G.**	21 **6**	W. 9 R. 7 G. 6	White hut, red band. Floodlit.	G. 18.5°-154°, W.-166°, R.-248°, G.-307°, W.-313°, R.-18.5° **Radar reflector.**
8904 *C 6676.3*	Vattklubben.	58° 49.0′ N 17° 44.0′ E	**Iso.W.R.G.** period 6s	33 **10**	W. 10 R. 8 G. 7	White tower, green band; 20.	G. 305°-319°30′, W.-326°, R.-045°, G.-125°30′, W.-135°, R.-163°, G.-219°, R.-240°.
8906 *C 6676.6*	Karinghallan.	58° 50.0′ N 17° 43.8′ E	**Fl.(2)G.** period 6s	25 **8**	6	Lantern on steel structure green daymark. Floodlit.	**Radar reflector.**
8908 *C 6676.5*	Sodra Bergholmen.	58° 50.0′ N 17° 46.0′ E	**Fl.W.R.G.** period 3s	22 **7**	W. 4 R. 3 G. 2	White hut.	G. 206°-232°, W.-291°, R.-025°, G.-056°30′, W.-060°, R.-078°, G.-147°. Occasional.
8952 *C 6686*	Fifong.	58° 51.0′ N 17° 44.0′ E	**Fl.(3)W.R.G.** period 9s	22 **7**	W. 10 R. 7 G. 6	White hut, red band.	G. 164°-169°30′, W.-171°30′, R.-177°, G.-244°30′, R.-312°, G.-350°, W.-359°, R.-004°, G.-016°.
8956 *C 6677.4*	Svartahallen.	58° 52.0′ N 17° 40.0′ E	**Fl.(2)W.R.G.** period 6s	16 **5**	W. 8 R. 5 G. 4	White hut, green band.	G. 057°48'-070°12′, W.-071°12', R.-158°06', G.-218°06', W.-225°42', R.-244°36', G.-271°18', R.-284°.
8960 *C 6677*	Sankhallan.	58° 52.0′ N 17° 43.0′ E	**Q.W.R.G.**	21 **6**	W. 10 R. 7 G. 6	Red hut, white base. Floodlit.	G. 087°-181°, W.-184°30′, R.-193°, G.-205°30′, W.-217°, R.-270°, G.-340°, W.-346°, R.-087°.
8962 *C 6677.1*	Ramsholmen.	58° 52.6′ N 17° 43.2′ E	**Fl.(2)G.** period 6s	25 **8**	3	Mast, yellow daymark. Floodlit.	**Radar reflector.**
8964 *C 6677.2*	Galklubb.	58° 53.0′ N 17° 43.0′ E	**Iso.W.R.G.** period 4s	18 **5**	W. 10 R. 7 G. 6	White hut, red roof. Floodlit.	R. 299°-347°, G.-357°, W.-008°, R.-081°, G.-158°, W.-179°30′, R.-288°, G.-297°, W.-299°.
8968 *C 6677.6*	Stenskar.	58° 54.0′ N 17° 43.0′ E	**Fl.W.R.G.** period 3s fl. 0.7s, ec. 2.3s	33 **10**	W. 10 R. 7 G. 6	White hut, red roof. Floodlit.	G. 154°06'-179°54', W.-184°42′, R.-284°48', G.-348°18', W.-353°54', R.-002°12′, G.-022°, W.-023°12′, R.-057°54'.
8972 *C 6677.8*	Egelsholm Range, front.	59° 00.0′ N 17° 43.0′ E	**Q.W.R.G.**	10 **3**	W. 10 R. 7 G. 6	White hut, red roof. Floodlit.	G. shore-170°, W.-171°30′, R.-230°, G.-330°30′, W.-353°30′, R.-shore.
8976 *C 6677.81*	-Regarn, rear, 4.8 km. 172° from front.	58° 57.9′ N 17° 43.6′ E	**Iso.W.R.G.** period 4s	20 **6**	W. 6 R. 4 G. 3	White hut, green band.	G. 354°-008°, W.-175°, R.-211°.
8980 *C 6678*	Notholmen.	59° 03.0′ N 17° 41.0′ E	**Fl.W.R.G.** period 3s	10 **3**	W. 10 R. 7 G. 6	White round hut, red roof.	G. 119°06'-160°30', W.-166°30', R.-296°36′, G.-307°42', W.-319°12', R.-341°48'.
8982 *C 6678.5*	Farstanas.	59° 05.8′ N 17° 39.9′ E	**Fl.(3)W.R.G** period 9s	16 **5**	W. 4 R. 3 G. 2	Lantern on white shed.	G. 277°-340°, W.-345°, R.-025°.
8984 *C 6678.4*	Skjutholmen.	59° 06.0′ N 17° 39.0′ E	**Q.W.**	16 **5**	7	White hut, red square, white band.	Intensified sector showing toward Brandalssund, unintensified 295°-350°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
8988 *C 6678.6*	Brandalssund.	59° 06.0′ N 17° 40.7′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 8 R. 6 G. 5	White hut, red band. Floodlit.	G. shore-242°, W.-251°30′, R.-344°, G.-022°, W.-042°, R.-104°.
8992 *C 6679*	Hallsfjarden.	59° 06.0′ N 17° 42.0′ E	**Fl.W.** period 3s	13 **4**	8	White hut.	
8996 *C 6678.8*	Viad, Brandalssund Range, front.	59° 06.0′ N 17° 42.0′ E	**Q.W.**	22 **7**	7	White metal framework structure.	Visible on range line only.
9000 *C 6678.81*	-Rear, 600 meters 062° from front.	59° 06.5′ N 17° 42.9′ E	**Iso.W.** period 4s	59 **18**	6	White iron framework structure.	Visible on range line only.
9004 *C 6679.2*	Flasklosa.	59° 08.0′ N 17° 41.0′ E	**V.Q.W.**	17 **5**	3	White framework tower, green band.	Partially obscured by trees 180°-335°.
9006 *C 6680.3*	Storviksgrundet.	59° 15.2′ N 17° 35.1′ E	**Fl.R.** period 3s	33 **10**	5		
9008 *C 6583.6*	**Landsort Bredgrund.**	58° 43.9′ N 17° 52.7′ E	**Iso.W.R.G.** period 4s	62 **19**	W. **16** R. 13 G. 12	Orange tower; 66. Floodlit.	R. 001°-013°, G.-047°30′, W.-053°, R.-086°, G.-127°, R.-159°, G.-177°, R.-210°, G.-217°, W.-219°, R.-224°, G.-234°, R.-273°, G.-321°30′, R.-345°, G.-356°30′, W.-001°. Shown by day Nov. 1 to Mar. 31.
	RACON		**B(– • • •)** period 30s		14		
9012 *C 6584*	**Landsort.**	58° 44.0′ N 17° 52.0′ E	**Fl.(1+4)W.** period 60s fl. 0.6s, ec. 21.9s fl. 0.6s, ec. 4.4s fl. 0.6s, ec. 4.4s fl. 0.6s, ec. 4.4s fl. 0.6s, ec. 21.9s	145 **44**	**22**	White round stone tower, red conical top; 82.	Unintensified 190°-197°. Shown by day from Nov. 1 to Mar. 1.
			F.W.R.G.	90 **27**	W. 14 R. 11 G. 10		G. 323°30′-351°, W.-358°, R.-023°. F.R. range lights for use of pilots are shown at E. and W. pilot harbors.
9016 *C 6585*	Tilljandersknalt.	58° 45.5′ N 17° 49.7′ E	**L.Fl.(2)W.R.G.** period 12s	46 **14**	W. 10 R. 8 G. 6	White tower, two black bands; 33. Floodlit.	W. 331°-338°30′, R.-029°, G.-087°, R.-116°30′, G.-128°30′, W.-131°, R.-153°, G.-190°, R.-218°, G.-250°, R.-313°, G.-331°.
9020 *C 6587.6*	Grisskar.	58° 47.0′ N 17° 51.0′ E	**Q.W.R.G.**	21 **6**	W. 5 R. 3 G. 3	Skeleton structure.	G. 335°-355°, W.-359°, R.-011°, G.-138°, W.-139°, R.-155°.
9024 *C 6587.7*	Storpelles Holme.	58° 47.0′ N 17° 52.0′ E	**Q.W.R.G.**	26 **8**	W. 5 R. 3 G. 3	Post.	R. 280°-303°, G.-354°, W.-359°, R.-080°, G.-165°, W.-169°, R.-185°.
9025 *C 6587.8*	Osterklintshallan.	58° 46.3′ N 17° 52.1′ E	**Fl.Y.** period 3s	10 **3**	3	Pole.	Occasional. **Radar reflector.**
9026 *C 6587.9*	Grisblankan.	58° 46.0′ N 17° 51.1′ E	**Fl.W.R.G.** period 3s	33 **10**	W. 5 R. 4 G. 3	White pedestal, black base.	G. 057°-103°, R.-168° G.-181°, R.-342°, G.-347°, W.-357°, R.-057°.
9028 *C 6587.95*	Olandssten.	58° 48.0′ N 17° 52.0′ E	**I.V.Q.W.R.G.** period 6s	20 **6**	W. 5 R. 3 G. 3	Aluminum hut.	G. 220°30′-254°, W.-258°30′, R.-329°30′, G.-016°, W.-020°, R.-040°, G.-073°, W.-075°30′, R.-220°30′.
9032 *C 6587.4*	Bottenholmen.	58° 48.0′ N 17° 50.0′ E	**Fl.W.R.G.** period 4s	15 **5**	W. 6 R. 4 G. 3	Skeleton structure.	G. 245°-264°, W.-267°, R.-301°, G.-327°, W.-328°30′, R.-349°30′. Occasional.
9036 *C 6587.2*	Vastra Kvarnhallan.	58° 48.0′ N 17° 51.0′ E	**Q.W.R.G.**	8 **2**	W. 5 R. 3 G. 3	White hut.	G. 143°-158°, W.-162°, R.-262°, G.-325°, W.-333°, R.-349°, G.-004°, W.-007°, R.-025°. Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9040 *C 6576*	Huvudskar.	58° 58.0′ N 18° 34.0′ E	**Mo.(N)W.** period 25s fl. 4s, ec. 4s fl. 1s, ec. 16s	85 **26**	12	White hut on concrete tower, black band; 51.	Unintensified 115°-205°.
9044 *C 6578*	Vindbaden.	59° 00.0′ N 18° 38.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s		3	White framework tower, blue band.	Fishing light. Seasonal.
9048 *C 6580*	Skotrokan.	59° 01.0′ N 18° 31.0′ E	**Fl.R.** period 3s	69 **21**	3	White pedestal, blue band.	Fishing light.
9052 *C 6582*	Torrmulen.	59° 06.0′ N 18° 40.0′ E	**Fl.W.** period 5s	20 **6**	3	White lantern, blue band, on red base.	Fishing light.
9054 *C 6466*	Peskobben.	59° 09.7′ N 18° 49.6′ E	**F.W.**	20 **6**	3	Framework tower.	W. 097°-174°, obsc.-282°, W.-330°, obsc.-097°. Fishing light.
9056 *C 6465*	**Almagrundet.**	59° 09.3′ N 19° 07.8′ E	**L.Fl.(3)W.R.G.** period 30s fl. 3s, ec. 3.5s fl. 3s, ec. 3.5s fl. 3s, ec. 14s	91 **28**	W. **19** R. **17** G. **17**	Black tower, red bands; 98. Floodlit.	G. 077°-150°, W.-155°, R.-180°, G.-225°, W.-045°, R.-077°.
	RACON		**G(– – •)** period 30s		**16**		
9060 *C 6470*	**Revengegrundet.**	59° 15.1′ N 19° 00.8′ E	**L.Fl.(2)W.R.G.** period 18s fl. 3s, ec. 3s fl. 3s, ec. 9s	67 **20**	W. **16** R. 13 G. 12	Red tower, black base; 98. Floodlit.	R. 110°-124°, G.-137°, W.-144°, R.-160°, G.-295°, W.-307°30′, R.-314°, G.-000°, W.-005°30′, R.-011°, G.-110°. Shown by day Nov. 1 to Mar. 31. **Nautophone:** Mo.(R) ev. 60s. **Radar reflector.**
	RACON		**RT(• – • –)** period 30s		14		
9064 *C 6471.6*	Svangen.	59° 16.0′ N 18° 59.0′ E	**Q.W.R.G.**	46 **14**	W. 12 R. 9 G. 8	Tower, red and black bands; 49. Floodlit.	R. 083°-117°, W.-122°, R.-186°, G.-282°30′, R.-083°.
	SANDHAMNSLEDEN:						
9068 *C 6468*	-Sandhamn Stangskar.	59° 16.7′ N 19° 00.0′ E	**Iso.W.R.G.** period 4s	34 **10**	W. 8 R. 6 G. 5	Yellow tower, white top; 24.	G. 295°-326°30′, W.-343°30′, R.-018°, G.-070°, W.-074°30′, R.-094°, G.-131°, W.-138°.
9070 *C 6468.5*	-Gronskar.	59° 16.7′ N 19° 01.5′ E	**L.Fl.G.** period 10s		4		
9076 *C 6463.5*	Horssten, about 6.9 kilometers 067° from Gronskar.	59° 18.0′ N 19° 08.0′ E	**Fl.(4)W.R.G.** period 12s	28 **9**	W. 6 R. 4 G. 3	White structure; 12.	G. 276°-310°, W.-038°, R.-111°, G.-132°, W.-139°, R.-150°, G.-170°. Fishing light.
9080 *C 6472*	Prickgrundet.	59° 17.0′ N 18° 56.0′ E	**Fl.(3)W.R.G.** period 9s	17 **5**	W. 9 R. 5 G. 4	White structure, yellow top.	G. 246°-323°, R.-002°30′, W. (unintensified)-084°, G.-122°, R.-144°, R. (unintensified)-237°30′, R.-246°.
9084 *C 6472.1*	Sandhamn, Sando pilot station.	59° 17.4′ N 18° 54.9′ E	**Oc.W.R.G.** period 30s lt. 27.5s, ec. 2.5s	33 **10**	W. 11 R. 13 G. 11	Yellow tower on corner of yellow pilot house; 36.	Visible 6M in unrestricted sector. R. 294°30′-298°30′, G.-304°, W.-307°, R.-314°30′, obsc.-108°, R. (unintensified)-119°. Shown by day in low visibility Nov. 1 to Mar. 31.
9096 *C 6476*	-Stannkobben Range, front.	59° 18.0′ N 18° 54.0′ E	**Iso.R.** period 4s	26 **8**	6	White storage shed, red rectangular daymark, yellow stripe.	
9100 *C 6476.1*	- -Rear, 350 meters 352°06′ from front.	59° 18.5′ N 18° 53.3′ E	**Q.R.**	68 **21**	7	White storage shed, red rectangular daymark, yellow stripe.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9104 *C 6478*	-Farfarsgrund.	59° 18.0′ N 18° 54.0′ E	**Q.W.R.G.**	16 **5**	W. 6 R. 4 G. 3	Red framework structure, white hut.	G. 067°-122°, W.-207°, R.-336°, obsc.-067°.
9108 *C 6480*	Getholmen.	59° 18.0′ N 18° 53.0′ E	**Fl.(2)W.R.G.** period 6s	36 **11**	W. 6 R. 4 G. 3	White hut, green band. Floodlit.	G. shore-298°, W.-307°, R.-032°, G.-102°, W.-110°, R.-shore.
9112 *C 6481*	Smoraskan.	59° 18.0′ N 18° 52.0′ E	**Q.W.**	20 **6**	6	Red hut on red framework structure. Floodlit.	
9114	Utkiken RACON.	59° 17.2′ N 18° 54.9′ E	**T(–)**		**17**	On tower.	Azimuth coverage 215°-035°.
9116 *C 6477*	Vasterhalet.	59° 17.5′ N 18° 52.7′ E	**Q.W.**	26 **8**	3	Gray cairn.	Visible 165°-275°.
	RACON		**T(–)** period 30s				
9120 *C 6484*	-Skotkubben Range, front.	59° 17.2′ N 18° 53.6′ E	**Q.W.R.G.**	10 **3**	W. 10 R. 7 G. 6	Tower, upper part white, lower part orange; 26. Floodlit.	G. 162°-172°06′, W.-182°48′, R.-273°, G.-346°, W.-357°, R.-016°, G.-048°.
9124 *C 6484.1*	- -Adkubben, rear, 3 km. 177° from front.	59° 15.8′ N 18° 53.8′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 7 R. 5 G. 4	Red lantern.	G. 165°-171°, W.-179°, R.-188°, W.-217°, G.-258°30′, W.-259°30′, R.-267°30′. Intensified 165°-188°.
9128 *C 6482*	-Svartgrund Range, front.	59° 17.0′ N 18° 52.0′ E	**Iso.W.R.G.** period 4s	20 **6**	W. 7 R. 5 G. 4	Orange rectangular daymark.	G. 270°-297°, W.-305°, R.-320°. **Radar reflector.**
9132 *C 6482.1*	- -Vindalso Islet, rear 704 meters 304°30′ from front.	59° 17.1′ N 18° 51.5′ E	**Q.W.**	39 **12**	8	Orange rectangular daymark.	**Radar reflector.**
9136 *C 6488*	-Osterskar.	59° 15.4′ N 18° 56.8′ E	**Fl.W.R.G.** period 3s fl. 0.7s, ec. 2.3s	23 **7**	6	Red hut.	G. 097°-118°30′, W.-126°, R.-135°, G.-177°, W.-191°30′, R.-220°.
9140 *C 6588*	Skrapan.	58° 47.0′ N 17° 59.0′ E	**Fl.(3)W.R.G.** period 9s	41 **12**	W. 6 R. 4 G. 4	White lantern on black concrete tower, white band; 37.	G. 001°-037°30′, W.-051°, R.-060°, R. (unintensified)-096°, G. (unintensified)-105°, G.-190°30′, W.-196°, R.-228°, G.-246°, W.-274°30′, R.-291°, G.-310°30′, W.-332°, R.-001°.
9144 *C 6592*	Viksten Islet.	58° 47.0′ N 17° 57.0′ E	**Q.W.**	33 **10**	5	White framework structure; 10.	Visible 144°-188°.
9146 *C 6590*	-NW. point.	58° 47.6′ N 17° 56.9′ E	**Fl.(2)W.R.G.** period 6s	55 **17**	W. 8 R. 5 G. 4	White octagonal tower, concrete base.	G. 018°-025°, W.-029°, R.-065°, G.-097°, W.-098°, R.-118°, G.-154°, R.-187°, G.-201°, W.-208°, R.-216°30′.
9148 *C 6594*	Gunnarstenarna.	58° 46.0′ N 18° 03.0′ E	**L.Fl.(2)W.R.G.** period 15s	46 **14**	W. 8 R. 6 G. 5	White hut with gray base.	R. 000°-019°, G.-038°, R.-102°, G.-142°30′, W.-152°30′, R.-180°, G.-235°, W.-000°.
9152 *C 6596*	Masknuv.	58° 51.0′ N 18° 01.0′ E	**Mo.(A)W.R.G.** period 8s fl. 1s, ec. 1s fl. 3s, ec. 3s	44 **13**	W. 13 R. 10 G. 9	White octagonal tower, concrete base; 34.	G. 008°30′-020°, W.-024°, R.-029°, W.-156°30′, G.-171°, W.-182°30′, R.-188°, G.-195°30′, W.-213°, R.-217°30′.
9164 *C 6602*	-Trehorningen.	58° 54.0′ N 17° 57.0′ E	**I.V.Q.W.R.G.** period 6s	26 **8**	W. 10 R. 8 G. 7	Lantern on post.	G. 315°-358°30′, W.-359°30′, R.-025°.
9168 *C 6606*	-Bedaro.	58° 53.8′ N 17° 57.7′ E	**Oc.W.R.G.** period 4s	10 **3**	W. 7 R. 5 G. 4	White hut.	G. 020°30′-033°30′, W.-036°, R.-043°, obsc.-155°, G.-163°, W.-177°, R.-195°.
9180 *C 6614*	-Brunsviksholmen.	58° 55.0′ N 17° 59.0′ E	**Fl.(2)W.R.G.** period 6s	25 **8**	W. 12 R. 9 G. 8	White tower; 19.	R. 270°-279°30′, G.-296°30′, W.-306°30′, R.-317°, G.-323°, W.-327°, R.-000°, G.-039°, W.-043°, R.-047°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9184 *C 6598*	-Orngrund.	58° 54.0′ N 18° 02.0′ E	**Q.W.R.G.**	33 **10**	W. 10 R. 8 G. 7	Gray tower, black and red bands; 36.	W. 010°-020°30′, R.-105°, G.-131°30′, W.-147°, R.-195°, G.-232°30′, W.-246°, R.-290°, G.-340°, W.-344°30′, R.-358°, G.-010°.
9188 *C 6618*	Ostra Roko.	58° 54.3′ N 18° 05.1′ E	**Fl.(2)W.R.G.** period 6s	25 **8**	W. 6 R. 4 G. 3	White shed, green band, lantern on roof.	G. 026°-036°, W.-043°, R.-059°, G.-076°30′, W.-084°, R.-129°, G.-143°, W.-148°, R.-211°, G.-219°, W.-222°30′, R.-246°, R. (unintensified)-269°, G. (unintensified)-354°, R. (unintensified)-007°30′, R.-026°.
9192 *C 6618.4*	Alvsnabben.	58° 58.7′ N 18° 11.4′ E	**Q.W.R.G.**	22 **7**	W. 5 R. 5 G. 4	Red shed, white roof and base.	R. shore-218°, G.-226°, W.-041°, R.-045°, G.-053°.
9196 *C 6619*	Mysingeholm.	59° 00.0′ N 18° 16.0′ E	**Iso.W.R.G.** period 4s	26 **8**	W. 7 R. 5 G. 4	White tower, red roof; 21.	G. 005°-042°, W.-046°, R.-084°, G.-118°, R.-164°, G.-186°, W.-200°, R.-204°30′, G.-210°, W.-211°, R.-223°.
9200 *C 6620*	Soderhall, in Mysingsfjarden.	59° 01.0′ N 18° 15.0′ E	**Fl.(3)W.R.G.** period 9s	18 **5**	W. 6 R. 4 G. 3	Red hut.	G. 153°-161°, W.-165°, R.-202°30′, G.-282°30′, W.-285°, R.-005°, G.-038°30′, R.-062°.
9201 *C 6620.4*	Uto Nasudden.	58° 58.0′ N 18° 17.8′ E	**Q.W.**	6 **2**	3	Metal framework tower.	Visible 155°-335°. On request.
9202 *C 6621*	Uto Range, front.	58° 58.3′ N 18° 19.9′ E	**F.R.**	20 **6**	3	Post, white triangular daymark, point up.	Visible on range line only. Occasional.
9202.1 *C 6621.1*	-Rear, 140 meters 158° from front.	58° 58.2′ N 18° 19.8′ E	**F.R.**	36 **11**	3	Post, white triangular daymark, point down.	Visible on range line only. Occasional.
9204 *C 6623*	Langgarn.	59° 04.4′ N 18° 17.9′ E	**Fl.(3)W.R.G.** period 9s	20 **6**	W. 7 R. 5 G. 4	Red tower, gray base; 22.	G. 210°18′-233°36′, W.-235°42′, R.-244°30′, G.-315°18′, R.-355°06′, G.-006°12′, W.-021°30′, R.-051°30′, G.-shore.
9212 *C 6625*	Galo.	59° 06.0′ N 18° 21.0′ E	**Iso.W.R.G.** period 8s	13 **4**	W. 9 R. 7 G. 6	Red shed.	G. 140°-282°, R.-017°, G.-042°, W.-050°, R.-140°.
9216 *C 6628*	Kycklingen.	59° 06.0′ N 18° 23.0′ E	**Iso.W.R.G.** period 4s	34 **10**	W. 10 R. 8 G. 7	Red structure; 7. Floodlit.	G. 266°-245°, W.-248°, R.-266°.
9220 *C 6626*	Torrbanken.	59° 06.6′ N 18° 22.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 9 R. 7 G. 6	Red tower.	G. (unintensified) 213°-228°, G.-239°, W.-241°30′, R.-258°, R. (unintensified)-273°, R.-285°, G.-326°, W.-342°, R.-000°.
9224 *C 6625.4*	Koon.	59° 07.0′ N 18° 20.0′ E	**Q.W.**	3 **1**	3	Iron tripod.	Visible 324°-144°. Occasional.
9232 *C 6632*	Asposkar.	59° 07.0′ N 18° 24.0′ E	**Q.W.R.G.**	21 **6**	W. 10 R. 7 G. 6	Red hut with mast; 15.	G. 329°-046°, W.-048°, R.-093°, G.-108°, W.-160°, R.-183°, G.-203°, W.-208°, R.-222°.
9236 *C 6634*	Segelholm.	59° 07.0′ N 18° 25.0′ E	**Fl.(4)W.R.G.** period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	10 **3**	W. 10 R. 7 G. 6	White structure, red roof. Floodlit.	G. 058°-071°, W.-080°, R.-147°, G.-222°, W.-227°30′, R.-236°30′.
9248 *C 6636*	Riksdalerskaret.	59° 07.0′ N 18° 26.0′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 10 R. 7 G. 6	White structure, red roof. Floodlit.	G. 038°-053°, W.-055°30′, R.-173°, G.-180°, W.-187°30′, R.-199°, G. (unintensified)-245°, W. (unintensified)-250°, R. (unintensified)-254°.
9250 *C 6649*	Mickelsland, SW.	59° 07.0′ N 18° 26.5′ E	**Q.Y.**	7 **2**	2	Lantern on pole.	Shown Oct. 1 to Mar. 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9252 *C 6642*	Stenholmen, E. side of Korsholmen.	59° 08.0′ N 18° 26.0′ E	**Fl.W.R.G.** period 3s	17 **5**	W. 5 R. 3 G. 2	Red hut with mast.	G. 204°-214°, W.-222°, R.-282°.
9256 *C 6644*	Genbote.	59° 07.9′ N 18° 25.7′ E	**Iso.W.R.G.** period 3s	78 **24**	W. 10 R. 7 G. 6	White structure, red roof. Floodlit.	W. 006°-015°30′, R.-038°, G.-047°30′, W.-050°30′, R.-059°, W. (unintensified)-142°, G. (unintensified)-185°, W.-212°, R.-234°.
9260 *C 6648*	Hummelklapp.	59° 08.4′ N 18° 26.3′ E	**Iso.W.R.G.** period 4s	19 **6**	W. 10 R. 7 G. 6	Red tower; 22.	G. 244°-252°(intensified), W.-254°30′(intensified), R.-282°30′(intensified), G.-302°30′, W.-310°, R.-343°30′, G.-032°, W.-038°, R.-048°, G.-053°30′, W.-055°30′, R.-065°.
9262 *C 6650*	Piltholmsknall.	59° 08.0′ N 18° 28.0′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 9 R. 6 G. 5	Green tower, white band. Floodlit.	R. 030°-062°, G.-067°, W.-071°30′, R.-213°, G.-249°, W.-253°, R.-336°, G.-030°. **Radar reflector.**
9264 *C 6640*	Jutholmen.	59° 08.0′ N 18° 25.0′ E	**Fl.(2)W.R.G.** period 6s	10 **3**	W. 10 R. 7 G. 6	White structure, red roof. Floodlit.	G. 349°-030°, W.-038°30′, R.-044°, G.-095°, R.-110°, W.-223°30′.
9268 *C 6646*	Dalaro, on Saltsacken Shoal.	59° 08.0′ N 18° 25.0′ E	**Fl.(3)W.R.G.** period 9s	12 **4**	W. 10 R. 7 G. 6	Red hut, gray base. Floodlit.	G. 225°-243°30′, W.-246°, R.-250°, G.-263°, R.-031°, G.-037°, W.-056°, obsc.-225°.
9280 *C 6654*	Bo Kappel, entrance to Baggensfjarden.	59° 19.0′ N 18° 18.0′ E	**Fl.(2)W.** period 6s	8 **2**	6	Lantern on white storage shed, green band.	
9284 *C 6658*	Fjardhallan, in Jungfrufjarden.	59° 09.4′ N 18° 33.5′ E	**Fl.W.R.G.** period 3s	25 **8**	W. 8 R. 5 G. 4	White round shed, black base; 23.	G. 109°-177°, R.-199°, G.-202°, W.-205°, R.-208°, G. (unintensified)-245°, W. (unintensified)-290°, W.-006°, R.-031°, G.-063°30′, W.-069°, R.-109°.
9288 *C 6660*	Grono, W. of Namdofjarden.	59° 12.0′ N 18° 34.0′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 6 R. 4 G. 3	Red tower, white top; 27.	G. shore-246°, W.-307°30′, R.-331°, G.-352°, W.-358°, R.-015°, G.-053°30′, W.-079°, R.-092°.
9292 *C 6662*	Kofotsgrund.	59° 13.1′ N 18° 37.1′ E	**I.V.Q.W.R.G.** period 9s	23 **7**	W. 6 R. 4 G. 3	White and green tower, gray base; 26.	G. 015°-035°, W.-038°30′, R.-049°, G.-063°30′, W.-066°, R.-075°, R. (unintensified)-134°, G. (unintensified)-203°, G.-213°, W.-220°, R.-234°, R. (unintensified)-313°. G. (unintensified)-015°.
9296 *C 6664*	Kofoten.	59° 13.5′ N 18° 37.2′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	W. 6 R. 4 G. 3	White shed, red band, lantern on roof. Floodlit.	W. 213°-000°, G.-030°, W.-044°, R.-053°.
9300 *C 6666*	Franska Stenarna.	59° 14.9′ N 18° 40.1′ E	**Fl.(2)W.R.G.** period 6s	17 **5**	W. 7 R. 4 G. 4	White octagonal hut, green band, round base; 7.	W. (unintensified) 239°30′-305°, G.-312°, W.-314°, R.-321°, W. (unintensified)-035°, G.-043°30′, W.-064°, W. (unintensified)-210°30′, W.-239°30′.
9308 *C 6670*	Runo.	59° 18.0′ N 18° 43.0′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 10 R. 7 G. 6	White tower.	G. 201°-221°, W.-224°, R.-243°30′, W. (unintensified)-335° G. (unintensified)-357°30′, W.-003°, R.-019°.
	STOCKHOLM APPROACH:						
9312 *C 6672*	-Langholmen.	59° 18.0′ N 18° 46.0′ E	**Iso.W.R.G.** period 4s	20 **6**	W. 6 R. 4 G. 3	White hut, green band.	G. 031°-035°, W.-042°, R.-145°, G.-179°30′, W.-194°, R.-204°, G.-212°, W.-214°, R.-222°, G.-234°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9316 *C 6409*	-Fjardholmen, W. side of Stora Fjardholmen.	59° 21.5′ N 18° 50.0′ E	**Q.W.R.G.**	16 **5**	W. 8 R. 5 G. 4	White shed, green band.	G. 024°-030°, W.-046°, R.-059°, G.-184°, R.-199°, G.-214°30′, W.-216°, R.-235°.
9320 *C 6463.3*	-Algeroren (Elgorn) islet, E. side.	59° 20.0′ N 18° 56.0′ E	**Q.W.R.**	35 **11**	W. 4 R. 2	White hut.	W. 160°-311°, R.-018°, W.-058°. Fishing light.
9328 *C 6462*	-Prastkobben.	59° 24.0′ N 19° 11.0′ E	**Q.W.R.G.**	33 **10**	W. 6 R. 4 G. 3	Gray hut.	G. 181°-224°, W.-232°, R.-314°, G.-335°30′, W.-349° R.-055°, G.-107°30′ W.-111°, R.-181°. Fishing light. Occasional.
9332 *C 6463.2*	-Tvikobb Islet.	59° 24.0′ N 19° 02.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s		5	Framework structure.	Fishing light.
9336 *C 6406*	-Palkobb.	59° 25.0′ N 18° 55.0′ E	**Fl.(4)W.R.G.** period 10s	33 **10**	W. 8 R. 6 G. 5	White tower, green band; 34.	G. (unintensified) shore-022°, G.-036°, W.-038°30′, R.-051°, R. (unintensified)-135°, G. (unintensified)-211°, G.-225°, W.-228°, R.-shore.
9340 *C 6408*	-Stora Moja, E. side.	59° 24.8′ N 18° 54.0′ E	**Q.W.R.G.**	19 **6**	W. 8 R. 5 G. 4	Red hut, white band, black base.	G. shore-233°, W.-028°, R.-shore.
9344 *C 6404*	-Stenkobbsgrund.	59° 25.8′ N 18° 57.1′ E	**Fl.(2)W.R.G.** period 6s	41 **12**	W. 8 R. 6 G. 5	White tower, green band; 44.	G. (unintensified) 129°-204°, G.-221°48', W.-224°30', R.-235°, R. (unintensified)-265°, R.-305°, G. (unintensified)-047°, G.-052°, W.-062°, R.-078°, R. (unintensified)-129°.
9348 *C 6402*	-Morsken Rock.	59° 30.9′ N 19° 05.4′ E	**Fl.(3)W.R.G.** period 8s	36 **11**	W. 7 R. 5 G. 4	White cairn, red square.	W. 067°-219°, R.-231°, G.-273°, W.-353°, G.-020°42', W.-038°06', R.-067°.
9352 *C 6399*	-Hundskarsknuv Rock.	59° 35.9′ N 19° 07.6′ E	**Fl.W.R.G.** period 3s	29 **9**	W. 8 R. 6 G. 5	White tower, red band; 24.	G. 180°-196°, W.-199°, R.-209°, R. (unintensified)-262°, G. (unintensified)-353°, G.-001°, W.-003°, R.-040°, G.-052°, G. (unintensified)-097°, G.-107°, R.-117°, R. (unintensified)-180°.
9356 *C 6400*	-Mellgrundsknuv.	59° 36.0′ N 19° 04.0′ E	**Q.W.R.G.**	23 **7**	W. 5 R. 3 G. 3	White framework tower.	G. 216°-281°, W.-284°, R.-067°, G.-101°, W.-109°, R.-216°. Fishing light. Occasional.
9360 *C 6396*	-Vasterkobb Rock.	59° 39.7′ N 19° 10.5′ E	**Iso.W.R.G.** period 4s	28 **9**	W. 8 R. 6 G. 5	White tower, green band; 24.	G. (unintensified) shore-358°, G.-017°30′, W.-019°30′, R.-043°, R. (unintensified)-135°, G. (unintensified)-163°, G.-180°, W.-183°, R.-191°.
9364 *C 6398*	-Arskobben.	59° 39.7′ N 19° 09.7′ E	**Q.W.R.G.**	18 **5**	W. 7 R. 5 G. 5	White structure, red band.	G. shore-194°, W.-007°06', R.-shore.
9368 *C 6669*	-Tegelhallan.	59° 17.0′ N 18° 43.0′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 7 R. 5 G. 4	Tower, upper part white, lower part orange, black base; 23.	R. 111°-169°, G.-202°30′, W.-209°, R.-225°, G.-309°, W.-338°30′, R.-036°, G.-111°.
9372 *C 6673*	-Trollharan, E. end of islet.	59° 19.0′ N 18° 45.0′ E	**Q.W.R.G.**	41 **12**	W. 5 R. 3 G. 2	Mast on white hut, red band.	G. 180°-202°, W.-037°30′, R.-045°, obscured elsewhere.
9376 *C 6495*	-Yxhammarskubben.	59° 19.0′ N 18° 49.0′ E	**Oc.W.R.G.** period 5s	25 **8**	W. 6 R. 4 G. 3	Red hut and white base; 26. Floodlit.	W. 095°-166°30′, R.-283°, G.-292°, W.-298°, R.-022°, obsc.-095°.
9380 *C 6496*	-Gastholmsgrundet.	59° 19.0′ N 18° 49.0′ E	**Q.G.**	24 **7**	3	Green hut and base.	**Radar reflector.**
9392 *C 6502*	-Norra Kanholmen.	59° 22.0′ N 18° 45.0′ E	**Q.R.**	15 **5**	3	White iron post, concrete base. Floodlit.	Visible 103°-328°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9396 *C 6498*	-Klovholmen.	59° 22.4′ N 18° 45.3′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 7 R. 5 G. 4	White house, red lantern.	G. 298°-315°, W.-347°, R.-087°30′, G.-094°, W.-115°. **Radar reflector.**
9400 *C 6503*	-Branten.	59° 23.0′ N 18° 43.0′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 6 R. 4 G. 3	Yellow and white tower. Floodlit.	G. shore-285°30′, W.-290°, R.-023°, G.-094°30′, W.-099°, R.-shore.
9402 *C 6505*	Gallnoport.	59° 23.6′ N 18° 36.6′ E	**Fl.W.R.G.** period 3s	33 **10**	W. 6 R. 4 G. 3	White hut.	W. 105°-130°, G.-290°, W.-293°, R.-298°.
9404 *C 6506*	-Sollenkroka.	59° 23.0′ N 18° 41.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 10 R. 8 G. 6	White hut. Floodlit.	G. shore-085°, W.-089°, R.-111°, G.-123°, W.-129°, R.-155°, R. (unintensified)-267°.
9408 *C 6504*	-Magarna Rock.	59° 23.0′ N 18° 40.0′ E	**Fl.(3)W.R.G.** period 9s	14 **4**	W. 6 R. 4 G. 3	White hut.	W. (unintensified) 209°-270°, G.-279°, W.-281°, R.-315°.
9420 *C 6508*	-Kalvo.	59° 22.0′ N 18° 37.0′ E	**Fl.(2)W.R.G.** period 6s	52 **16**	W. 6 R. 4 G. 3	White tower; 34. Floodlit.	G. shore-263°, W.-266°, R.-305°, W.-340°, W. (unintensified)-080°, W.-shore.
9424 *C 6510*	-Boda.	59° 22.0′ N 18° 36.0′ E	**Q.W.R.G.**	23 **7**	W. 6 R. 4 G. 3	White structure.	G. 120°-132°, W.-144°, R.-158°, G.-247°, R.-shore.
9428 *C 6514*	-Sando Sugga.	59° 23.0′ N 18° 34.3′ E	**Fl.W.R.G.** period 3s	25 **8**	W. 7 R. 5 G. 4	White shed, red band, on black base.	G. 115°-123°30′, W.-130°, R.-233°, G.-299°, W.-305°30′, R.-325°, obsc.-055°, W. (unintensified)-099°.
9432 *C 6515*	-Bolviksnas.	59° 24.0′ N 18° 32.0′ E	**Q.W.R.G.**	23 **7**	W. 6 R. 4 G. 3	Red lantern on white shed, red band.	G. 144°-147°30′, W.-150°, R.-157°30′, G.-193°, R.-258°, G.-294°, W.-299°30′, R.-310°.
9436 *C 6516*	-Nyvarp.	59° 24.0′ N 18° 32.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 3	White hut. Floodlit.	R. shore-140°, G.-151°, W.-157°, R.-162°, G.-167°, W.-170°, R.-252°, G.-309°, W.-312°, R.-322°.
9440 *C 6532*	-Varmdolandet.	59° 24.0′ N 18° 27.0′ E	**Q.R.G.**	17 **5**	R. 5 G. 4	White metal structure; 13. Floodlit.	G. shore-345°, R.-shore.
9444 *C 6534*	-Rinda, SW. side of Oxdjupet Channel.	59° 24.0′ N 18° 26.0′ E	**Q.R.G.**	17 **5**	R. 5 G. 4	White iron structure; 13. Floodlit.	R. shore-138°30′, G.-205°, R.-shore.
9448 *C 6518*	-Lindalen Range, front.	59° 25.0′ N 18° 29.0′ E	**Iso.W.R.G.** period 4s	8 **2**	W. 6 R. 4 G. 3	White tower on gray base. Floodlit.	G. 265°-295°, W.-305°30′, R.-083°, G.-096°, W.-097°30′, R.-shore.
9452 *C 6518.1*	- -Mansoren, rear, 900 meters 097° from front.	59° 25.2′ N 18° 30.1′ E	**Q.W.**	42 **13**	9	Lantern and red rectangle, yellow band, on white storage shed.	
9456 *C 6522*	-Stora Berteln, N. side.	59° 25.5′ N 18° 24.7′ E	**Q.W.**	16 **5**	10	Red structure, concrete base. Floodlit.	Visible 090°-278°.
9460 *C 6524*	-Brodstycket.	59° 25.0′ N 18° 24.0′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 10 R. 7 G. 6	White shed on black base. Floodlit.	W. 315°-040°, R.-076°, G.-108°, W.-134°, R.-240°.
9464 *C 6524.5*	-Tisterogrundet, on Tistero Kummel.	59° 26.0′ N 18° 24.0′ E	**Q.(3)W.R.G.** period 4s	20 **6**	W. 10 R. 7 G. 6	Storage shed, top white, bottom black. Floodlit.	G. 307°-323°, W.-340°, R.-349°, G.-003°, W.-150°, R.-214°.
9465	-*Buoy TISTERO.*	59° 26.0′ N 18° 24.0′ E	**Fl.Y.** period 3s			SPECIAL Y, pillar.	
	-RACON		**T(–)**		5		
9468 *C 6525*	-Vastra Ronnholmen, NW. point.	59° 26.0′ N 18° 22.0′ E	**Q.W.R.G.**	15 **5**	W. 5 R. 3 G. 3	White storage shed, red band.	W. shore-206°, R.-220°, G.-224°, W.-236°, R.-shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9472 *C 6528*	-Sandgrundet.	59° 24.0′ N 18° 22.0′ E	**Fl.W.R.G.** period 3s fl. 0.7s, ec. 2.3s	12 **4**	W. 5 R. 3 G. 3	White octagonal tower, granite base.	G. 086°-104°, W.-284°30′, R.-305°.
9476 *C 6544*	-Furuholmen, Oxdjupet Channel, W. entrance.	59° 22.3′ N 18° 20.1′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 3	White round hut on tower. Floodlit.	R. 340°-044°, G.-069°30′, W.-071°30′, R.-076°30′, G.-157°30′, W.-189°, R.-205°, obsc.-340°.
9480 *C 6545*	-Bjornsgrundet.	59° 22.0′ N 18° 18.6′ E	**Iso.W.R.G.** period 4s	20 **6**	W. 5 R. 3 G. 2	White shed, red band, black base.	G. 028°-072°, W.-081°30′, R.-120°, G.-130°30′, W.-141°, R.-173°, G.-241°, R.-028°. **Radar reflector.**
9484 *C 6568*	-Varmdo-Garpen.	59° 21.8′ N 18° 22.6′ E	**Q.W.R.G.**	13 **4**	W. 6 R. 4 G. 3	White hut. Floodlit.	G. 093°-099°, W.-102°30′, R.-259°, G.-270°30′, W.-280°, R-292°.
9488 *C 6572*	-Sodernas.	59° 21.7′ N 18° 27.1′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 6 R. 4 G. 3	White octagonal hut, concrete base. Floodlit.	G. 336°-049°30′, W.-070°, R.-097°, G.-158°, W.-175°, R.-181°.
9492 *C 6571*	-Lagnogrundet.	59° 21.5′ N 18° 24.9′ E	**Q.(3)W.R.G.** period 4s	21 **6**	W. 10 R. 7 G. 6	White hut, black base. Floodlit.	G. 105°-135°, R.-187°, G.-271°30′, W.-298°, R.-105°. **Radar reflector.**
9496 *C 6570*	-Tynningo, Oxdjupet Channel, N. side.	59° 22.3′ N 18° 23.3′ E	**Fl.(2)W.R.G.** period 6s	15 **5**	W. 6 R. 4 G. 3	Gray tower, white top; 20. Floodlit.	G. 294°-306°, W.-311°30′, R.-343°, W. (unintensified)-074°, G.-099°30′, W.-101°, R.-120°.
9504 *C 6536*	-Bogesund.	59° 22.8′ N 18° 18.2′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 6 R. 4 G. 3	White octagonal hut, gray masonry base. Floodlit.	R. 260°-268°, G.-281°30′, W.-284°, R.-000°, G.-090°30′, W.-095°, R.-106°.
9508 *C 6538*	-Granholmen, W. extremity.	59° 22.7′ N 18° 17.7′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 12 R. 9 G. 8	White octagonal hut, concrete base. Floodlit.	G. shore-319°30′, W.-350°, R.-039°, G.-049°30′, W.-054°30′, R.-084°, G.-094°30′, W.-099°, R.-shore.
9512 *C 6539*	-Stora Hoggarnsbank.	59° 22.4′ N 18° 16.8′ E	**Q.W.R.G.**	24 **7**	W. 8 R. 6 G. 5	White shed, black base. Floodlit.	G. 000°-035°30′, W.-041°, R.-060°, G.-178°, R.-224°, G.-283°, W.-286°, R.-000°. **Radar reflector.**
9516 *C 6545.2*	-Lilla Hoggarnsbank.	59° 22.0′ N 18° 16.0′ E	**Q.R.**	22 **7**	5	White shed, red band, on black base. Floodlit.	**Radar reflector.**
9520 *C 6546*	-Alvviksgrundet.	59° 21.8′ N 18° 15.5′ E	**Iso.W.R.G.** period 6s	21 **6**	W. 12 R. 10 G. 8	White shed, red base; 26. Floodlit.	G. shore-174°30′, W. (unintensified)-177°30′, R. (unintensified)-187°, R.-211°, G.-229°, W.-236°, R.-250°, G.-270°30′, W.-343°30′, R.-011°, G.-033°, W.-043°30′, R.-054°30′, G.-070°.
9524 *C 6540*	-Vastra Haga, on Vadero.	59° 24.0′ N 18° 11.0′ E	**Fl.(2)W.R.G.** period 6s	16 **5**	W. 6 R. 4 G. 3	White octagonal hut, concrete base.	G. 283°30′-290°, W.-297°30′, R.-328°, W.-059°, G.- 088°, W.-091°, R.-shore. Shown as needed.
9528 *C 6549*	-Kungshamn, entrance to Skurusund.	59° 20.0′ N 18° 13.0′ E	**Fl.W.R.G.** period 3s	22 **7**	W. 6 R. 4 G. 3	White lantern.	G. shore-058°30′, W.-062°, R.-076°30′, G.-091°, W.-098°, R.-205°, G.-219°, W.-227°30′, R.-shore. Shown from July 6 to June 6.
9532 *C 6541*	-Djursholmsudde.	59° 23.7′ N 18° 06.2′ E	**Fl.(4)W.R.G.** period 12s	18 **5**	W. 6 R. 4 G. 3	White hut.	G. 270°-282°30′, W.-286°, R.-312°, G.-028°, W.-042°30′, R.-061°. Shown as required.
9536 *C 6542*	-Aludden.	59° 23.5′ N 18° 05.6′ E	**Fl.(2)W.R.G.** period 6s	18 **5**	W. 6 R. 4 G. 3	White hut.	G. 224°-238°, W.-260°, R.-276°, W.-357°30′, G.-001°30′, W.-020°, R.-036°. Shown as required.
9540 *C 6543*	-Lilla Bergholmen.	59° 23.4′ N 18° 05.9′ E	**Q.W.**	16 **5**	3	Lantern on white hut.	Shown as required.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
	STOCKHOLM:						
9548 *C 6550*	-Libertus, N. side.	59° 20.0′ N 18° 11.0′ E	**Fl.(3)W.R.G.** period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	21 **6**	W. 6 R. 4 G. 3	White octagonal iron tower, concrete base.	G. 102°-123°, W.-127°, R.-192°, W.-262°. Shown from July 6 to June 6. 2 F.R. shown northward.
9556 *C 6558*	-Blockhusudden.	59° 19.0′ N 18° 09.0′ E	**Fl.(2)W.R.G.** period 6s	20 **6**	W. 6 R. 4 G. 3	White tower, gray base; 16.	W. from E. shore of Djurgarden-211°, R.-222°, G.-244°, W.-086°30′, R. to S. shore of Djurgarden. Shown from July 6 to June 6.
9560 *C 6551.2*	-Lilla Vartan "4".	59° 21.1′ N 18° 07.2′ E	**Q.R.**	19 **6**	6	Floodlit board on pole.	**Radar reflector.**
	STOCKHOLM APPROACH:						
	-Danvikskanalen:						
9564 *C 6560*	- -No. "1", W. side.	59° 19.0′ N 18° 07.0′ E	**Fl.G.** period 2s	33 **10**	8	Post.	Visible 150°-254°. Traffic signal.
9568 *C 6560.4*	- -No. "2", E. side.	59° 18.7′ N 18° 06.1′ E	**Fl.R.** period 2s	33 **10**	9	Post.	Visible 020°-043°. Traffic signal.
9572 *C 6384*	**-Soderarmsleden.**	59° 45.2′ N 19° 24.4′ E	**Fl.W.** period 8s	102 **31**	**16**	White round stone tower, red band; 69. Floodlit.	Shown by day Nov. 1 to Mar. 31. Unintensified 050°-085°.
9576 *C 6386*	**-Tjarven.**	59° 47.5′ N 19° 22.2′ E	**Oc.(2)W.R.G.** period 20s lt. 11s, ec. 3s lt. 3s, ec. 3s	60 **18**	W. **17** R. 14 G. 13	Lantern on roof of white castle-like building.	G. 115°-126°30', obsc.-129°, G.-134°30', W.-298°, R.-338°, G.-348°30', W.-035°30', R.-050°, G.-085°30', obsc.-095°, R.-108°30', obsc.-110°, R.-115°. Shown by day Nov. 1 to Mar. 31.
9580 *C 6387*	-Remmargrund.	59° 45.6′ N 19° 19.2′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	65 **20**	W. 13 R. 10 G. 9	Tower, red and black bands; 65.	W. 176°-207°, R.-226°, G.-237°, W.-256°, R.- 281°30′, G.-343°30′, R.- 061°, G.-066°, W.-072°30′, R.-148°, G.-176°. **Radar reflector.**
	-RACON		**M(– –)** period 30s		**15**		
9581 *C 6387.2*	- -Norrskaren.	59° 46.2′ N 19° 18.2′ E	**Fl.G.** period 3s	28 **9**	2	White concrete tower, green band; 21.	Visible 155°-039°. **Radar reflector.**
9582 *C 6387.3*	- -Osterskarsbadan.	59° 45.7′ N 19° 17.7′ E	**Fl.(2)G.** period 6s	30 **9**	2	White concrete tower, green band; 21.	Visible 154°-041°. **Radar reflector.**
	-Soderarmsleden Channel:						
9584 *C 6388.5*	- -Nygrund.	59° 45.1′ N 19° 15.8′ E	**Fl.(4)W.R.G.** period 12s	30 **9**	W. 8 R. 6 G. 5	Green hut, white band.	R. 219°30′-242°30′, G.-256°, R.-051°, G.-057°, W.-062°, R.-092°.
9588 *C 6390*	- -Lerskarsgrund.	59° 44.4′ N 19° 13.6′ E	**Fl.(3)W.R.G.** period 9s	39 **12**	W. 13 R. 10 G. 9	Black round tower, red bands; 42.	W. 245°-250°30′, R.-060°, G.-067°, W.-072°30′, R.-168°, G.-245°.
9592 *C 6389*	- -Norra Lerskaret.	59° 44.0′ N 19° 14.0′ E	**Q.W.R.G.**	16 **5**	W. 9 R. 8 G. 6	Orange pedestal, white top. Floodlit.	G. 060°-072°, W.-243°, R.-255°.
9596 *C 6391*	-Botveskar.	59° 44.1′ N 19° 11.2′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 13 R. 10 G. 9	White hut, concrete base. Floodlit.	G. shore-249°30′, W.-253°, R.-259°, W.-354°, R.-008°, G.-064°, W.-068°, R.-076°, G.-084°.
9600 *C 6382*	-Tjocko.	59° 45.0′ N 19° 06.0′ E	**Q.W.R.G.**	21 **6**	W. 10 R. 7 G. 6	White hut, red stripe. Floodlit.	G. shore-007°, W.-075°, R.-100°, G.-127°, W.-133°, R.-165°, G.-196°, W.-shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9604 *C 6394.5*	-Farholmsrevet, Granhamnsfjarden.	59° 44.0′ N 19° 07.0′ E	**Iso.W.R.G.** period 2s	11 **3**	W. 7 R. 5 G. 4	White hut.	G. shore-302°, W.-305°30′, R.-009°, G.-065°30′, W.-074°, R.-121°.
	-Furusund Channel:						
9608 *C 6412*	--Kapellskar.	59° 43.3′ N 19° 04.8′ E	**Fl.(4)W.R.G.** period 12s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 5.9s	36 **11**	W. 11 R. 8 G. 7	White hut, green band; 31. Floodlit.	G. 180°-194°, W.-204°30′, R.-228°, G.-251°, W.-259°30′, R.-269°, G.-304°30′, R.-013°30′, G.-037°30′, R.-058°.
9612 *C 6412.3*	--Orarna Norra Range, front.	59° 43.0′ N 19° 04.0′ E	**F.R.**	13 **4**		Column, orange triangular daymark, white stripe.	Occasional.
9616 *C 6412.31*	---Rear, 50 meters 269°30′ from front.	59° 43.3′ N 19° 04.1′ E	**F.R.**	19 **6**		Column, orange triangular daymark, point down, white stripe.	Occasional.
9620 *C 6412.2*	--Svedjelandet Range, front.	59° 43.4′ N 19° 03.8′ E	**F.G.**	13 **4**	7	Column, orange triangular daymark, white stripe.	Occasional.
9624 *C 6412.21*	---Rear, 100 meters 268° from front.	59° 43.5′ N 19° 04.0′ E	**F.G.**	19 **6**	7	Column, orange triangular daymark, point down, white stripe.	Occasional.
9628 *C 6395*	--Idskarskobben.	59° 42.0′ N 19° 08.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	W. 5 R. 3 G. 3	White structure.	W. 008°-070°, R.-088°, G.-152°, W.-157°, R.-348°, G.-008°. Fishing light.
	-Furusundsleden:						
9632 *C 6416*	--Maro, N. point.	59° 42.2′ N 19° 03.8′ E	**Fl.W.R.G.** period 5s	18 **5**	W. 10 R. 8 G. 6	Red hut, white band. Floodlit.	R. 058°-061°, G.-069°30′, W.-094°, W. (unintensified)-180°, R. (unintensified)-203°, R.-214°, G.-221°30′, W.-230°30′, R.-247°30′.
9636 *C 6418*	--Alandskobb.	59° 41.2′ N 18° 59.3′ E	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	18 **5**	W. 10 R. 8 G. 6	Green hut, white band. Floodlit.	G. 235°30′-241°30′, W.-245°, R.-267°, R. (unintensified)-010°, G. (unintensified)-023° G.-042°30′, W.-049°30′, R.-057°.
9640 *C 6419*	--Alandets Grund.	59° 40.9′ N 18° 59.2′ E	**Fl.W.R.G.** period 3s	26 **8**	W. 10 R. 7 G. 6	Red hut, white band; 20. Floodlit.	G. 229°-237°, W.-240°, R.-305°, G.-036°30′, W.-039°, R.-048°, G.-052°30′, W.-054°, R.-066°, G.-128°, R.-229°. **Radar reflector.**
9644 *C 6420*	--Furusund, on Yxlan.	59° 39.8′ N 18° 55.9′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	20 **6**	W. 10 R. 8 G. 6	Cairn. Floodlit.	G. 200°-229°24′, W.-233°18′, R.-320°, G.-046°, W.-049°, R.-052°, G.-070°.
9646 *C 6401*	--Storvik.	59° 35.5′ N 18° 55.0′ E	**F.W.R.G.**	18 **5**	5	White shed; 12.	R. shore-215°, G.-245°, W.-250°, R.-257°, G.-263°, W.-266°, R.-288°, G.-shore. Shown on request.
9648 *C 6421*	--Gryten Islet, S. side.	59° 37.2′ N 18° 49.3′ E	**Fl.(4)W.R.G.** period 10s	20 **6**	W. 10 R. 7 G. 6	White hut, green band; 26. Floodlit.	R. 210°-228°, G.-233°, W.-234°30′, R.-257°, W.-022°, R.-038°, G.-051°30′, W.-053°, R.-077°.
9652 *C 6422*	-Yxlan, SW. side.	59° 35.5′ N 18° 47.8′ E	**Fl.(3)W.R.G.** period 9s	23 **7**	W. 9 R. 7 G. 6	Red hut with white band. Floodlit.	G. 067°30′-075°, W.-077°, R.-096°, G.-210°, W.-216°30′, R.-shore.
9656 *C 6423*	--Vaxlet Norra.	59° 35.2′ N 18° 43.9′ E	**Fl.W.R.G.** period 3s	22 **7**	W. 10 R. 7 G. 6	White hut with red band; 22.	G. 058°-068°, W.-072°, R.-085°, W.-231°, G.-236°, W.-239°, R.-250°, G.-257°, W.-277°.
9660 *C 6424*	--Vaxlet Sodra.	59° 35.1′ N 18° 44.1′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 10 R. 7 G. 6	Lantern on white pedestal, green band. Floodlit.	W. 253°-234°, R.-244°, G.-253°.
9664 *C 6426*	--Lunsen.	59° 34.5′ N 18° 41.2′ E	**Q.W.R.G.**	22 **7**	W. 10 R. 7 G. 6	White shed, red band. Floodlit.	G. 055°-064°, W.-082°, R.-096°, G.-249°, W.-253°, R.-260. **Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-BALTIC SEA				
9668 *C 6428*	--Stora Sundsholm.	59° 32.0′ N 18° 45.0′ E	**F.W.**	24 **7**		Framework structure.	Fishing light.
9672 *C 6430*	--Staboudde.	59° 33.8′ N 18° 38.0′ E	**Fl.(4)W.R.G.** period 12s	10 **3**	W. 10 R. 7 G. 6	Green hut, white band. Floodlit.	G. 237°-239°30′, W.-244°, R.-271°30′, G.-005°, W.-053°30′, R.-062°.
9676 *C 6431*	--Stabogrund.	59° 33.7′ N 18° 37.9′ E	**Q.W.R.G.**	16 **5**	W. 10 R. 7 G. 6	Red hut, white band. Floodlit.	G. 326°-059°, W.-241°, R.-326°. **Radar reflector.**
9680 *C 6432*	--Ryssmasterna.	59° 32.0′ N 18° 33.1′ E	**Fl.W.R.G.** period 6s fl. 1s, ec. 5s	11 **3**	W. 10 R. 8 G. 7	Red hut, white roof. Floodlit.	G. 046°-052°, W.-054°, R.-142°, G.-232°, W.-236°30′, R.-241°.
9684 *C 6433*	--Gullholmen.	59° 31.5′ N 18° 31.5′ E	**Fl.(2)W.R.G.** period 6s	10 **3**	W. 10 R. 7 G. 6	Mast, green and white rectangular daymark. Floodlit.	G. 230°-001°, W.-008°, R.-056°.
9688 *C 6440*	--Nykvarnsholmen.	59° 30.7′ N 18° 29.8′ E	**Iso.W.R.G.** period 4s	16 **5**	W. 10 R. 7 G. 6	Green hut, white band. Floodlit.	G. shore-235°, W.-054°, R.-shore.
9692 *C 6442*	-Nykvarnsgrund.	59° 30.6′ N 18° 29.7′ E	**Q.W.R.G.**	20 **6**	W. 10 R. 7 G. 6	Red hut, white band. Floodlit.	G. 322°-052°, W.-231°, R.-322°. **Radar reflector.**
9696 *C 6434*	--Sandkullen, Ostra Saxafjarden.	59° 30.2′ N 18° 31.2′ E	**Iso.W.R.G.** period 4s	11 **3**	W. 10 R. 7 G. 7	Red hut, white roof. Floodlit.	G. 021°-028°30′, W.-040°30′, R.-113°, G.-174°, W.-187°, R.-214°30′.
9700 *C 6444*	--Vallersvik.	59° 29.9′ N 18° 27.7′ E	**Fl.(4)W.R.G.** period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	24 **7**	W. 10 R. 8 G. 6	White hut, red band, Floodlit.	G. 223°-231°30′, W.-234°30′, R.-315°, G.-019°30′, W.-022°30′, R.-034°.
9704 *C 6446*	--Mjolko, on Rodhall.	59° 27.4′ N 18° 25.8′ E	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	13 **4**	W. 10 R. 8 G. 7	Green structure, white roof and base. Floodlit.	G. 184°-195°30′, W.-203°30′, R.-307°30′, G.-353°, W.-028°30′, R.-039°.
	-Saxarfjarden:						
9708 *C 6452*	--Ostra Alogrundet.	59° 27.0′ N 18° 25.0′ E	**Iso.W.R.G.** period 4s	20 **6**	W. 7 R. 5 G. 4	White tower, green lantern; 25. Floodlit.	G. 200°-216°, W.-244°, R.-271°, G.-283°, W.-286°30′, R.-342°, G.-053°30′, W.-065°30′, R.-071°.
9712 *C 6453*	--Bjurogrund.	59° 27.0′ N 18° 27.0′ E	**Fl.(2)G.** period 6s	13 **4**	6	Metal framework tower.	
9716 *C 6454*	-Valoarna, on N. rock.	59° 26.0′ N 18° 30.0′ E	**Fl.(4)W.R.G.** period 12s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 5.8s	13 **4**	W. 6 R. 4 G. 3	White hut.	G. 320°-329°, W.-338°, R.-034°, G.-104°30′, W.-107°30′, R.-124°, G.-188°, W.-240°, R.-270°.
	-Furusundsleden:						
9724 *C 6436*	--Ikorn, on rock.	59° 29.4′ N 18° 29.7′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 10 R. 8 G. 7	Red hut, white roof. Floodlit.	G. 203°-217°, W.-221°30′, R.-248°, G.-349°30′, W.-356°, R.-001°.
9728 *C 6448*	--Ekoren.	59° 28.2′ N 18° 25.3′ E	**Fl.W.R.G.** period 4s fl. 1s, ec. 3s	10 **3**	W. 10 R. 8 G. 6	Red hut, white roof. Floodlit.	G. 039°30′-045°30′, W.-051°, R.-155°, G.-223°30′, W.-225°, R.-245°.
9732 *C 6450*	--Lerviksudde, SE. side of point, S. entrance to channel.	59° 27.2′ N 18° 23.4′ E	**Fl.(2)W.R.G.** period 6s	10 **3**	W. 10 R. 8 G. 7	White hut, red band. Floodlit.	G. shore-222°30′, W.-224°30′, R.-262°, G.-015°30′, W.-027°, R.-039°, R. (unintensified) 060°-061°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GOTLAND				
9736 *C 7210*	**Hoburg.**	56° 55.3′ N 18° 09.3′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	190 **58**	**27**	White tower, black band near top; 71.	Obscured near coast by high cliffs at Hoburg. Shown by day Nov. 1 to Mar. 31.
9740 *C 7212*	Valar, entrance to Burgsvik Hamn.	57° 02.0′ N 18° 13.0′ E	**Oc.(2)W.R.G.** period 10s	23 **7**	W. 13 R. 10 G. 9	White tower; 20.	G. shore-065°, W.-091°30′, R.-185°, W. (unintensified)-211°, R. (unintensified)-230°.
9744 *C 7214*	Burgsvik Range, front.	57° 03.0′ N 18° 17.4′ E	**Iso.W.** period 4s	14 **4**	12	Post, white square daymark, red stripe.	Visible on range line only.
9748 *C 7214.1*	-Rear, 270 meters 073° from front.	57° 03.0′ N 18° 17.5′ E	**Iso.W.** period 4s	52 **16**	12	Post, white square daymark, red stripe.	Visible on range line only. Synchronized with front.
9752 *C 7211*	-Nasrevet.	57° 03.4′ N 18° 09.6′ E	**Fl.W.R.G.** period 3s	26 **8**	W. 8 R. 5 G. 4	White and red tower, gray base; 29.	R. 299°-356°, G.-026°, W.-151°, R.-170°, G.-185°. F.R. 40m marks mast 1.4 miles SSW. Lts mark 4 windmotors 1.5 miles SSW.
	BURGSVIK HAMN:						
9756 *C 7218*	-Range, front.	57° 02.0′ N 18° 16.0′ E	**F.R.**	23 **7**		Mast, white triangular daymark.	
9760 *C 7218.1*	--Rear, 45 meters 175° from front.	57° 02.0′ N 18° 15.7′ E	**F.R.**	33 **10**		Mast, white triangular daymark.	
9772 *C 7224*	**Stora Karlso.**	57° 17.5′ N 17° 57.8′ E	**L.Fl.(2)W.R.** period 12s	184 **56**	W. **16** R. 13	White tower and dwelling; 59.	W. 340°-193°, R.-212°, W.-233°, R.-340°. Obscured by hill when bearing 275°.
	KLINTEHAMN:						
9776 *C 7228*	-Varsholmen Range, front.	57° 24.0′ N 18° 11.6′ E	**Iso.W.** period 4s	22 **7**	11	White post.	Visible on range line only.
9778 *C 6386.9*	-Remmargrundets Norra.	59° 45.9′ N 19° 19.0′ E	**Iso.W.** period 4s	28 **9**	4	White concrete tower, red band; 21.	Visible 035°-210°. In line 183° with Remmargrund. **Radar reflector.**
9780 *C 7228.1*	--Rear, 120 meters 055° from front.	57° 24.0′ N 18° 11.7′ E	**Iso.W.** period 4s	39 **12**	11	White post.	Visible on range line only. Synchronized with front.
9782 *C 7235*	**Follingbo,** AVIATION LIGHT.	57° 35.3′ N 18° 22.2′ E	**V.Q.W.**	797 **243**	**21**	Mast.	Obstruction.
	VISBY:						
9792 *C 7236.5*	-N. breakwater.	57° 38.1′ N 18° 16.5′ E	**Q.R.**	30 **9**	9	White tower; 20. Floodlit.	
9796 *C 7236*	-Approach.	57° 38.1′ N 18° 16.8′ E	**Iso.W.R.G.** period 4s	36 **11**	W. 12 R. 9 G. 8	White tower, red band; 28. Floodlit.	R. 007°-044°, G.-055°, W.-087°, R.-209°, G.-239°, W.-245°, R.-296°.
9800 *C 7238*	-Old N. breakwater Range, front.	57° 38.3′ N 18° 17.2′ E	**Oc.R.** period 12s	33 **10**	7	Post, red triangular daymark, white band.	Visible on range line only.
9804 *C 7238.1*	--Rear, 230 meters 055° from front.	57° 38.4′ N 18° 17.4′ E	**Oc.R.** period 12s	65 **20**	7	Post, red triangular daymark, white band.	Visible on range line only.
9808 *C 7242*	Flundereviken Range, front.	57° 39.8′ N 18° 19.5′ E	**F.R.**	16 **5**	5	Post, red triangular daymark.	Fishing.
9812	-Rear, 27 meters 096° from front.	57° 39.8′ N 18° 19.5′ E	**F.R.**	23 **7**	5	Post, red triangular daymark.	Fishing.
9816 *C 7246*	Stenkyrkehuk, NW. point of Gotland.	57° 49.2′ N 18° 27.8′ E	**Oc.(2)W.R.G.** period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	137 **42**	W. 10 R. 8 G. 6	White round tower; 49.	G. shore-037°, W.-220°, R.-shore. Shown Nov. 1 to Mar. 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GOTLAND				
9820 *C 7248*	Lickershamn Range, front.	57° 49.7′ N 18° 30.8′ E	**F.G.**	8 **2**	2	Post, white triangular daymark.	Visible on range line only. Occasional.
9824 *C 7248.1*	-Rear, 40 meters 148° from front.	57° 49.7′ N 18° 30.8′ E	**F.G.**	34 **10**	2	Post, white triangular daymark, point down.	
9828 *C 7250*	**Hallshuk.**	57° 56.0′ N 18° 45.0′ E	**L.Fl.(4)W.R.G.** period 20s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 6s	107 **33**	W. **15** R. 12 G. 10	White octagonal tower, concrete base.	G. 110°-144°, W.-262°, R.-291°. F.W. (occas.) lights shown at Lutterhorn and Lauters. Shown by day Nov. 1 to Mar. 31.
9830 *C 7252*	Kappelshamn.	57° 50.3′ N 18° 48.2′ E	**Iso.W.R.G.** period 4s	36 **11**	W. 12 R. 9 G. 8	Framework tower.	W. 109°-156°30′ G.-173°, W.-180°30′, R.-196°. 2 F.R. in line 169° marks dredged channel.
	GOTSKA SANDON:						
9832 *C 7150*	**-Gotska Sandon.**	58° 23.7′ N 19° 11.8′ E	**Fl.W.** period 5s	139 **42**	**24**	Brown wooden tower; 78 (located in wooded area).	Partially obscured by trees 280°-013°. Shown by day Nov. 1 to Mar. 31.
			F.R.	121 **37**	**15**		Visible 164°-186°.
9836 *C 7156*	-Kyrkudden, E. point.	58° 22.0′ N 19° 19.0′ E	**Fl.(3)W.** period 9s	41 **12**	8	White round concrete tower; 41.	Visible 149°-037°.
9840 *C 7154*	-Hamnudden, SW. point.	58° 20.0′ N 19° 13.0′ E	**Fl.(2)W.** period 6s	41 **12**	8	White round tower; 34.	Visible 294°-161°.
9844 *C 7162*	**Faro,** Holmudden, E. point of Faro.	57° 57.7′ N 19° 21.1′ E	**Iso.W.R.** period 8s	102 **31**	W. **16** R. 13	White round stone tower; 99.	Obscured to W. and NW. by trees to 140°. R. 008°-090°, W.-175°, R.-195°, W.-008°. Shown by day Nov. 1 to Mar. 31.
9848 *C 7160*	Faro Norsholm.	57° 59.9′ N 19° 14.6′ E	**Fl.W.R.G.** period 3s	29 **9**	W. 5 R. 3 G. 3	White structure.	G. 000°-100°, W.-210°, R.-238°, G.-265°30′, W.-267°, R.-000°.
9852 *C 7163*	Bungeor, S. entrance to Farosund.	57° 50.0′ N 19° 07.0′ E	**L.Fl.(2)W.R.G.** period 15s fl. 2s, ec. 2s fl. 2s, ec. 9s	46 **14**	W. 10 R. 7 G. 6	White tower, black band; 46.	G. 201°-207°, R.-215°, G.-230°, W.-235°30′, R.-264°, G.-308°, W.-003°, R.-030°, G.-158°30′, R.-183°.
9856 *C 7164*	Farosund, on Flytan Shoal.	57° 51.0′ N 19° 08.0′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 8 R. 5 G. 4	Red tower; 23.	R. 114°-133°30′, G.-142°, W.-147°, R.-151°30′, G.-164°, obsc.-227°, W. (unintensified)-272°, R. (unintensified)-290°, R.-303°, G.-344°30′, W.-351°, R.-002°.
9860 *C 7168*	Farosund Norra Range, front.	57° 52.7′ N 19° 02.1′ E	**Iso.W.** period 3s	32 **10**	14	White hut, white triangular daymark, point up.	Intensified 2° each side of range line.
9864 *C 7168.1*	-Boviken, rear, 1,500 meters 179° from front.	57° 51.8′ N 19° 02.1′ E	**Iso.W.** period 3s	82 **25**	14	White hut, white triangular daymark, point down.	Intensified 2° each side of range line. Synchronized with front.
9868 *C 7170*	Aurgrund.	57° 55.6′ N 19° 02.6′ E	**Oc.W.R.G.** period 8s lt. 6s, ec. 2s	41 **12**	W. 14 R. 11 G. 10	White tower, black top; 34.	G. (unintensified)-284°30′-012°, W. (unintensified)-027°, R. (unintensified)-076°, R.-104°, G.-141°30′, W.-199°, R.-218°30′, G.-226°. Shown by day Nov. 1 to Mar. 31.
9872 *C 7171*	Svingrund.	57° 56.0′ N 19° 01.0′ E	**Fl.(2)W.R.G.** period 6s	36 **11**	W. 7 R. 5 G. 4	Orange tower black band; 31.	G. 000°-102°, W.-222°, R.000°.
9876 *C 7169*	Farosund (Haurevlar), 2.2 meters 208° from Aurgrun Light.	57° 54.0′ N 19° 02.0′ E	**Fl.(4)W.R.G.** period 5s	26 **8**	W. 5 R. 3 G. 2	Lantern on orange framework tower on white pedestal.	R. 250°-306°, G.-321°, W.-330°, R.-350°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GOTLAND				
9880 *C 7180*	Kyllej Fishing Range, front.	57° 45.0′ N 18° 57.0′ E	**F.R.**	23 **7**	3	Post, triangular daymark, point up.	Fishing lights.
9884 *C 7180.1*	-Rear, about 110 meters 331° from front.	57° 45.1′ N 18° 57.1′ E	**F.R.**	36 **11**	3	Post, triangular daymark, point down.	Fishing lights.
9888 *C 7178*	Grauten.	57° 44.0′ N 19° 02.0′ E	**Fl.(2)W.R.G.** period 6s	39 **12**	W. 8 R. 5 G. 4	Orange tower; 36.	W. 231°-248°, R.-270°, W.-051°, R.-095°, G.-231°.
	SLITE HAMN:						
9892 *C 7182*	-Mago, S. end.	57° 41.0′ N 18° 51.0′ E	**Fl.(3)W.R.G.** period 9s	43 **13**	W. 8 R. 5 G. 4	White octagonal structure on white circular concrete tower; 20.	G. 107°-112°, G. (unintensified)-242°, G.-263°, W.-070°, R.-107°.
9896 *C 7184*	-Grundet, SW. end.	57° 42.0′ N 18° 50.0′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 6 R. 4 G. 3	White octagonal structure on white concrete tower.	G. 338°30′-001°, W.-012°, R.-032°30′, G.-137°30′, W.-139°, R.-149°30′, G.-160°30′, R.-167°.
9897 *C 7185*	--Range, front.	57° 42.8′ N 18° 48.6′ E	**Iso.R.** period 4s	52 **16**	8	Framework tower, red triangular daymark, point up.	
9897.5 *C 7185.1*	---Rear, 190 meters 320°30′ from front.	57° 42.8′ N 18° 48.5′ E	**Iso.R.** period 4s	65 **20**	8	Framework tower, red triangular daymark, point down.	
9898 *C 7185.6*	--Lannahamnen Range, front.	57° 43.1′ N 18° 48.6′ E	**F.G.**	16 **5**	4	Orange rectangular daymark.	
9898.1 *C 7185.61*	---Rear, 331° from front.	57° 42.8′ N 18° 48.7′ E	**F.G.**	23 **7**	4	Orange rectangular daymark.	
9900 *C 7186*	Botvaldavik Range, front.	57° 35.0′ N 18° 48.0′ E	**F.R.**	26 **8**	3	Post, white triangular daymark, point up.	Fishing light.
9904 *C 7186.1*	-Rear, about 195 meters 255° from front.	57° 35.2′ N 18° 48.4′ E	**F.R.**	36 **11**	3	Post, white triangular daymark, point down.	Fishing light.
9908 *C 7192*	Herrviken, W. breakwater, head.	57° 25.0′ N 18° 54.0′ E	**Fl.W.R.G.** period 2s	20 **6**	W. 4 R. 2 G. 2	Framework structure.	G. 124°-196°, W.-222°, R.-265°, W.-124°.
9912 *C 7188*	**Ostergarnsholme.**	57° 26.4′ N 18° 59.1′ E	**L.Fl.(2)W.R.** period 15s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	118 **36**	W. **16** R. 11	White round concrete tower, black band; 95.	W. 131°-222°, R.-272°, W.-081°. Shown by day Nov. 1 to Mar. 31.
9916 *C 7189*	-W. side of island.	57° 27.0′ N 18° 58.0′ E	**Fl.(2)W.R.G.** period 6s	39 **12**	W. 8 R. 5 G. 4	White lantern.	G. 332°30′-345°, W.-021°, R.-042°30′, W. (unintensified)-087°30′, G.-111°, W.-113°, R.-139° G.-156°30′, W.-190°30′, R.-205°30′.
9920 *C 7196*	Ljugarn, near mole.	57° 19.0′ N 18° 43.0′ E	**Iso.W.R.G.** period 4s	46 **14**	W. 10 R. 8 G. 7	On cistern; 39.	W. 251°-301°, R.-342°, G.-000°.
9924 *C 7198*	Laus Holmar.	57° 17.0′ N 18° 46.0′ E	**Fl.W.R.G.** period 3s	26 **8**	W. 6 R. 4 G. 3	White tower; 20.	R. 021°-030°, R. (unintensified)-115°, G. (unintensified)-119°, G.-211°, W.-021°. Fishing light.
9928 *C 7200*	**Nar.**	57° 13.0′ N 18° 41.0′ E	**Oc.W.R.** period 8s lt. 6s, ec. 2s	69 **21**	W. **16** R. 13	Red round metal tower, three white bands; 52.	W. 200°-030°, R.-058°, W. (unintensified)-178°, W. 194°, R.-200°. Shown by day Nov. 1 to Mar. 31.
9932 *C 7202*	Ronehamn.	57° 10.0′ N 18° 33.0′ E	**Fl.(3)W.R.G.** period 9s	33 **10**	W. 8 R. 5 G. 4	Tower, white and black, gray base; 36.	G. 224°30′-243°, W.-266°30′, R.-350°, G.-052°, W.-057°, R.-076°, G. (unintensified)-170°, R. (unintensified)-224°30′.
9936 *C 7202.4*	Ronehamn Roda Range, front.	57° 10.4′ N 18° 29.5′ E	**F.R.**	26 **8**	8	Post, white triangular daymark, point up.	Visible on range line only.
9940 *C 7202.5*	-Rear, 690 meters 325° from front.	57° 10.6′ N 18° 29.3′ E	**F.R.**	56 **17**	8	Post, white triangular daymark, point down.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GOTLAND				
9944 *C 7202.7*	Ronehamn Grona Range, front.	57° 10.4′ N 18° 29.7′ E	**F.G.**	36 **11**	7	Post, white triangular daymark, point up.	Visible on range line only.
9948 *C 7202.8*	-Rear, 151 meters 332° 30′ from front.	57° 10.4′ N 18° 29.8′ E	**F.G.**	59 **18**	7	Post, white triangular daymark, point down.	
9952 *C 7204*	**Faludden.**	56° 59.8′ N 18° 23.7′ E	**Oc.(3)W.** period 15s lt. 2.4s, ec. 0.8s lt. 2.4s, ec. 0.8s lt. 7.8s, ec. 0.8s	34 **10**	**17**	White iron tower; 37.	Shown by day Nov. 1 to Mar. 31.
9956 *C 7205*	Vandburg Range, front.	56° 57.0′ N 18° 18.5′ E	**Q.R.**	25 **8**	2	Post, red triangular daymark, point up.	Fishing lights.
9960 *C 7205.1*	-Rear, about 165 meters 322° from front.	56° 56.9′ N 18° 18.5′ E	**Q.R.**	39 **12**	2	Post, red triangular daymark, point down.	F.G. lights in line 222° mark new fishing harbor 300 meters S.
9964 *C 7206*	Heligholmen, S. end of islet.	56° 55.0′ N 18° 17.0′ E	**Fl.(2)W.R.G.** period 6s	43 **13**	W. 8 R. 5 G. 4	White octagonal structure on white concrete tower; 30.	G. shore-255°30′, W.-041°, R.-shore.

Section 7

Gulf of Bothnia - East Coast of Sweden
Including Alands Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-AHVENAN MERI (ALANDS SEA)				
9968 *C 6460*	**Svenska Hogarna.**	59° 27.0′ N 19° 30.0′ E	**L.Fl.W.** period 15s fl. 2s, ec. 13s	102 **31**	**15**	Red tower; 59.	Intensified 195°-075°.
9972 *C 6459*	Svenska Bjorn, on S. Klatten.	59° 32.9′ N 20° 01.4′ E	**L.Fl.W.** period 8s	106 **32**	9	Tower, orange and black bands, gray base; 105. Helicopter platform.	
	RACON		**B(– • • •)** period 30s		**16**		
9972.2 *C 6459.3*	Troskeln Ostra.	59° 39.7′ N 19° 55.2′ E	**V.Q.(2)W.** period 4s	65 **20**	6	White mast, red band. Helicopter platform.	**Radar reflector.**
9972.4 *C 6459.5*	Troskeln Vastra.	59° 39.6′ N 19° 51.7′ E	**Fl.W.** period 2s	65 **20**	6	White mast, red bands.	**Radar reflector.**
	RACON		**T(–)**		12		
9972.6 *C 6459.7*	Armbagen.	59° 37.8′ N 19° 57.8′ E	**V.Q.(4)W.** period 8s	65 **20**	6	Red mast, white bands; 66.	**Radar reflector.**
	RACON		**T(–)**		12		
9976 *C 6362*	Simpnasklubb, on Skoma Karen.	59° 53.6′ N 19° 05.0′ E	**L.Fl.W.R.G.** period 8s	66 **20**	W. 10 R. 7 G. 6	White tower, black band; 52. Floodlit.	G. 323°-356°, R. (unintensified)-135°, G.-144°, W.-226°30′, R.-239°, G.-254°30′, W.-301°, R.-323°.
	RACON		**N(– •)** period 30s		**15**		
9984 *C 6360*	-Bylehamn.	59° 54.0′ N 18° 59.0′ E	**F.W.R.G.**	23 **7**	W. 6 R. 4 G. 3	White hut.	G. 215°-242°, W.-253°, R.-270°. Fishing light. Occasional.
9992 *C 6290*	**Svartklubben.**	60° 10.5′ N 18° 49.7′ E	**L.Fl.(2)W.R.G.** period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	62 **19**	W. **16** R. 13 G. 12	Black tower, lower half white; 39. Floodlit.	G. (unintensified) 115°-130°, G.-147°30′, W.-157°30′, R.-175°30′, G.-183°, W.-187°, R.-193, G.-240°, W.-342°, R.-020°, R. (unintensified)-115°. Shown 24 hours Nov. 1 to Mar. 31.
	RACON		**K(– • –)** period 30s		14		
9996 *C 6291*	-Skarpgrynnan.	60° 10.0′ N 18° 49.0′ E	**Fl.(2)G.** period 6s	16 **5**	2	Green concrete base and breakers.	
10000 *C 6281*	-Singo Langor.	60° 11.0′ N 18° 48.0′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 6 R. 4 G. 3	White lantern on hut, red band.	R. 058°-191°, G.-212°, W.-216°, R.-239°, G.-280°, R.-296°.
10004 *C 6282*	- -Stangskar.	60° 11.8′ N 18° 47.7′ E	**Fl.(3)W.R.G.** period 9s	21 **6**	W. 8 R. 5 G. 4	White tower; 18.	G. 120°-132°30′, R.-200° G.-245°, R.- 294°, G.-313°30′, W.-319°30′, R.-322°30′.
10008 *C 6279*	-Jarnklubben Range, front.	60° 12.3′ N 18° 46.3′ E	**F.R.**	16 **5**	8	Post, white triangular daymark, red border.	Visible on range line only.
				5 **2**		shaped daymark, red border.	
10012 *C 6279.1*	- -Rear, 150 meters 296° from front.	60° 12.3′ N 18° 46.1′ E	**F.R.**	25 **8**	8	Post, white triangular daymark, red border.	Visible on range line only.
10014	-Storlaget RACON	60° 12.4′ N 18° 49.1′ E	**T(–)**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-AHVENAN MERI (ALANDS SEA)				
10016 *C 6288*	**Understen.**	60° 16.5′ N 18° 55.2′ E	**Fl.(4)W.** period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s	157 **48**	**23**	Black round concrete tower, lower part white; 128.	
			F.W.R.G.	112 **34**	**15**		G. 171°-182°, W.-199°, R.-206°, R. (unintensified)- 225°, obsc.-343°, W. (unintensified)-353°, R. (unintensified)-014°.
10018 *C 4472.3*	Marketskallen.	60° 18.5′ N 19° 02.0′ E	**Iso.W.** period 4s	51 **16**	6	Green tower, white band, gray base; 30.	
	RACON		**M(– –)** period 30s		**15**		
10020 *C 6254*	Kosten.	60° 24.0′ N 18° 41.0′ E	**Fl.(2)W.R.G.** period 6s	34 **10**	W. 6 R. 4 G. 3	Orange tower.	G. 180°-193°30′, W.-196°30′, R. 203°, G.-211°, W.-214°, R.-254°, G.-270°, W.-275°, R.-306°, G.-329°, W.-336°, R.-349°, G.-360°.
10028 *C 6285*	**Grundkallen.**	60° 29.8′ N 18° 51.1′ E	**L.Fl.(3)W.R.G.** period 20s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	105 **32**	W. 9 R. 7 G. 6	Red tower, lower part black, gray base; 112.	W. 163°-323°, G.-336°, W.-340°, R.-021°30′, G.-131°, W.-136°, R.-163°. Obscured 050°-155° about 900 meters from light.
	RACON		**G(– – •)** period 30s		**17**		
10030 *C 6287*	S. Kvarken.	60° 25.7′ N 19° 05.2′ E	**Fl.(2)W.** period 6s	49 **15**	7	White tower, green band, gray base.	
	RACON		**K(– • –)** period 30s		**15**		
			SWEDEN-GULF OF BOTHNIA				
10032 *C 6364*	Gavlehasten.	59° 53.0′ N 19° 05.1′ E	**Q.R.G.**	30 **9**	R. 5 G. 4	White tower, lower half black; 26.	R. 075°-255°, G.-075°. **Radar reflector.**
10036 *C 6366*	Naskubben.	59° 52.5′ N 19° 05.2′ E	**Fl.(3)W.R.G.** period 9s	32 **10**	W. 9 R. 7 G. 6	Red hut, white roof, concrete base; 23.	G. 164°-171°, R.-271°, G.-333°, W.-347°, R.-shore.
10044 *C 6371*	-Simpnasgrynnan.	59° 52.0′ N 19° 05.0′ E	**Iso.W.R.G.** period 2s	23 **7**	W. 6 R. 4 G. 3	White beacon, black base.	G. shore-179°30′, R.-205°, G.-234°, W.-239°, R.-298°, G.-338°30′, R.-000°, G.-shore.
10048 *C 6372*	-Dejeudden.	59° 51.0′ N 19° 05.0′ E	**Q.W.R.G.**	26 **8**	W. 10 R. 7 G. 6	Red lighthouse lantern on storage shed, red top, white bottom. Floodlit.	R. 188°-214°, G.-357°, W.-001°, R.-007°.
10052 *C 6370*	-Arholma Range, front.	59° 51.0′ N 19° 06.0′ E	**Iso.W.** period 4s	30 **9**	10	Red tower; 20.	Visible on range line only.
10056 *C 6370.1*	- -Rear, 500 meters 164°30′ from front.	59° 50.4′ N 19° 06.3′ E	**Q.W.**	69 **21**	10	Red iron framework, white square daymark.	
10060 *C 6373*	-Svedudden, on Bjorko.	59° 50.5′ N 19° 05.1′ E	**Fl.(4)W.R.G.** period 12s	23 **7**	W. 10 R. 8 G. 6	White hut on red base; 23. Floodlit.	G. shore-187°, W.-197°, R.-270°, G. 314°, W.-350°, R.-shore.
10064 *C 6374*	-Tyro, on islet.	59° 46.6′ N 19° 07.5′ E	**Fl.W.R.G.** period 5s fl. 0.7s, ec. 4.3s	33 **10**	W. 10 R. 8 G. 6	White hut, green band.	G. 021°-028°, W.-035°, R.-090°, G. 112°-156°, W.-161°, R.-169°.
10068 *C 6375*	-Graddo, E. side of bay.	59° 46.0′ N 19° 02.0′ E	**Iso.W.R.G.** period 4s	23 **7**	W. 6 R. 4 G. 3	White latticework structure, red daymark.	G. 089°-118°30′, R.-190°, G.-273°30′, W.-277°, R.-279°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10072 *C 6376*	-Jarnberget.	59° 46.3′ N 19° 00.5′ E	**Fl.W.R.G.** period 3s	25 **8**	W. 6 R. 4 G. 3	White structure, red band.	G. 090°-101°, R.-180°, G.-219°, W.-233°, R.-260°, G.-283°30′, R.-295°. **Radar reflector.**
10076 *C 6376.4*	-Eknoudde, S. side.	59° 47.0′ N 18° 59.0′ E	**Fl.(2)W.R.G.** period 6s	25 **8**	W. 6 R. 4 G. 3	Post on white shed, lower part green.	G. 259°-279°, W.-281°, R.-001°, G.-097°, W.-100°, R.-109°.
10080 *C 6377*	-Kobussoren Range, front.	59° 47.0′ N 18° 58.0′ E	**Iso.W.R.G.** period 4s	21 **6**	W. 6 R. 4 G. 3	White shed, lower part green.	G. shore-286°, W.-024°, G.-089°, W.-092°, R.-110°. **Radar reflector.**
10084 *C 6377.1*	--Rear, about 600 meters 090°30′ from front.	59° 46.7′ N 18° 58.3′ E	**Q.W.**	36 **11**	7	White shed, lower part green.	Visible on range line only.
10088 *C 6377.5*	-Tistelo, S. point.	59° 47.0′ N 18° 51.0′ E	**Fl.(2)W.R.G.** period 6s	20 **6**	W. 6 R. 4 G. 3	White shed, lower part green.	G. 251°42'-264°36', W.-270°, R. 348°, G.-069°, W.-074°, R.-089°30'. **Radar reflector.**
10092 *C 6378*	-Harko, N. side of Tjuvholmen.	59° 46.0′ N 18° 46.0′ E	**Q.W.R.G.**	15 **5**	W. 6 R. 4 G. 3	White shed, lower part red.	G. shore-076°, W.-180°, G.-241°, W.-250°, R.-260°.
10096 *C 6379*	--Range, front.	59° 45.0′ N 18° 43.0′ E	**Iso.Y.** period 4s	16 **5**	6	Mast, orange triangular daymark.	Visible on range line only.
10100 *C 6379.1*	---Rear, 95 meters 259° from front.	59° 45.4′ N 18° 43.1′ E	**Iso.Y.** period 4s	33 **10**	6	Mast, orange triangular daymark, point down.	Visible on range line only. Synchronized with front.
	NORRTALJERANNAN:						
10104 *C 6379.3*	-Norrtaljerannan No. "1".	59° 46.0′ N 18° 44.0′ E	**F.G.**	10 **3**	4	Dolphin.	**Radar reflector.**
10108 *C 6379.4*	--No. "2".	59° 45.0′ N 18° 44.0′ E	**F.R.**	10 **3**	4	Dolphin.	**Radar reflector.**
10112 *C 6379.5*	--No. "3".	59° 45.0′ N 18° 43.0′ E	**F.R.**	10 **3**	4	Dolphin.	**Radar reflector.**
	VADDO KANAL:						
10116 *C 6314*	-Hensviksudde.	60° 09.0′ N 18° 38.0′ E	**Fl.W.R.G.** period 3s	10 **3**	W. 6 R. 4 G. 3	White octagonal iron hut, concrete base.	G. 115°-126°30′, W.-129°, R.-147°, R. (unintensified)-225°, G. (unintensified)-271°, G.-288°, W.-290°, R.-306°. Shown from July 6 to June 6.
10120 *C 6311*	-Vandvik.	60° 06.0′ N 18° 35.0′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 5 R. 3 G. 3	White hut.	G. shore-003°, R.-023°, obsc.-085°, R.157°, G.-163°30′, W.-166°, R.-170°. Shown from July 6 to June 6.
10122 *C 6309*	-Stromsviken Range, front.	60° 06.4′ N 18° 34.8′ E	**Q.W.**	19 **6**	8	Pedestal, white triangular daymark.	Visible 042°-132°. Shown July 6 to June 6.
10123 *C 6309.1*	--Rear, 1315 meters 355° from front.	60° 07.1′ N 18° 34.7′ E	**Iso.W.** period 4s	39 **12**	8	Gray framework tower, white triangular daymark..	Shown July 6 to June 6.
			Fl.(4)W.R.G. period 12s	12 **4**	W. 5 R. 3 G. 3		W. 014°-135°, G.-157°, W.-170°, R.-180°.
10123.6 *C 6308*	-Guldholmen.	60° 07.7′ N 18° 34.0′ E	**Q.R.G.**	13 **4**	R. 4 G. 3	White structure.	G. shore-232°, R.-shore.
10124 *C 6307*	-Ormosundshallen.	60° 08.5′ N 18° 32.9′ E	**Q.R.G.**	16 **5**	R. 4 G. 3	White hut, red band.	G. 270°-055°, R.-180°. Shown from July 6 to June 6.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10128 *C 6304*	Ormosundet Sodra.	60° 09.0′ N 18° 33.0′ E	**Fl.W.R.G.** period 3s	8 **2**	W. 7 R. 5 G. 4	White hut, green band. Floodlit.	G. shore-167°30′, W.-173°, R.-197°, R. (unintensified)-221°, G. (unintensified)-289°, G.-312°30′, W.-316°, R.-327°30′, G.-336°. Shown from July 6 to June 6.
10132 *C 6302*	Ormosundet Norra.	60° 09.0′ N 18° 32.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 7 R. 5 G. 4	White hut, green band. Floodlit.	G. (unintensified) 161°30′-191°, G.-201°, W.-212°, R.-239°, R. (unintensified)-shore. Shown from July 6 to June 6.
10136 *C 6298*	Kalsholmen Range, front.	60° 10.0′ N 18° 32.0′ E	**Iso.W.R.G.** period 4s	10 **3**	W. 9 R. 7 G. 6	White hut, red band. Floodlit.	G. 095°-112°, W.-114°30′, R.-122°, R. (unintensified)-187°, G. (unintensified)-261°, W.-273°, R.-278°.
10140 *C 6298.1*	-Langoskar, rear, 997 meters 270° from front.	60° 09.6′ N 18° 31.1′ E	**Q.W.**	30 **9**	10	White round concrete tower, red band.	
10144 *C 6300*	Osthammar Range, front.	60° 16.0′ N 18° 23.0′ E	**F.R.**	13 **4**	4	Post, white square daymark, black border.	Shown from July 6 to June 6.
10148 *C 6300.1*	-Rear, 145 meters 289° from front.	60° 15.8′ N 18° 22.8′ E	**F.R.**	23 **7**	4	Post, white square daymark, black border.	Shown from the opening of navigation to June 6 and from July 6 to the close of navigation.
10152 *C 6294*	Slato.	60° 11.0′ N 18° 40.0′ E	**Fl.(3)W.R.G.** period 9s	13 **4**	W. 7 R. 5 G. 4	White structure, green band.	G. 200°30′-205°30′, W.-209°, R.-288°. Shown from July 6 to June 6.
10156 *C 6296*	Lambskarshallan.	60° 12.0′ N 18° 41.0′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 7 R. 5 G. 4	White hut, green band.	G. (unintensified) 240°-336°, G.-350°30′, W.-354°30′, R.-009°, R. (unintensified)-013°. Shown from July 6 to June 6.
10160 *C 6292*	Halvvagen.	60° 12.0′ N 18° 42.0′ E	**Fl.(2)W.R.G.** period 6s	11 **3**	W. 7 R. 5 G. 4	White hut, red roof.	G. 028°-045°30′, W.-053°30′ R.-061°, R. (unintensified)-106°, G. (unintensified)-152°, G.-164°30′, W.-168°, R.-183° Shown from July 6 to June 6.
10164 *C 6280*	Gassten Range, front.	60° 12.0′ N 18° 47.0′ E	**Iso.W.** period 4s	16 **5**	12	Post, rectangular red and yellow daymark.	Visible on range line only.
10168 *C 6280.1*	-Rear, 195 meters 320° from front.	60° 12.3′ N 18° 46.7′ E	**Q.W.**	25 **8**	12	Post, rectangular red and yellow daymark.	
10172 *C 6278*	Rastensudde, N. point of Singo.	60° 13.3′ N 18° 43.8′ E	**Fl.W.R.G.** period 3s	28 **9**	W. 6 R. 4 G. 3	White hut.	G. 123°-128°30′, W.-133°, R.-180°, G.-227°, W.-270°, R.-289°, G.-306°, W.-308°30′, R.-shore. Shown from July 6 to June 6.
10176 *C 6259.6*	Skogsskar.	60° 14.0′ N 18° 46.0′ E	**Fl.(2)W.R.G.** period 6s	26 **8**	W. 7 R. 5 G. 4	White shed, green band.	G. 296°-016°, W.-062°, R.-072°, G.-101°, W.-108°, R.-120°.
10180 *C 6261*	Vassarogrund.	60° 14.0′ N 18° 42.0′ E	**I.V.Q.W.R.G.** period 8s	25 **8**	W. 6 R. 4 G. 3	White hut, red band.	G. 223°-263°, W.-272°, R.-310°30′, G.-049°, W.-180°, R.-223°. Shown from July 6 to June 6. **Radar reflector.**
10188 *C 6260*	-Jossan Range, front.	60° 14.1′ N 18° 44.2′ E	**Iso.W.R.G.** period 4s	18 **5**	W. 13 W. 8 R. 5 G. 4	White and red hut. Floodlit.	G. 103°-109°, W.-115°30′, R.-218°, G.-291°, W.-295°30′. Shown from July 6 to June 6.
10192 *C 6260.1*	- -Tolvoregrundet Range, front.	60° 15.5′ N 18° 37.6′ E	**Q.W.**	77 **23**	12	Gray framework structure, red and white daymark; 66.	Auxiliary light close NE. Intensified on range lines. Shown from July 6 to June 6.
10196 *C 6260.5*	- -Karingon Range, front.	60° 18.3′ N 18° 32.4′ E	**Iso.W.R.G.** period 4s	10 **3**	W. 9 R. 7 G. 6	White round tower, red band. Floodlit.	G. 127°-133°, W.-136°, R.-144°, W.-174°, W. (unintensified) 213°-236°, G.-273°-307°30′, W.-310°, R.-317°. Shown from July 6 to June 6.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10200 *C 6260.4*	Tolvoregrundet (Auxiliary) for Jossan rear range light.	60° 15.5′ N 18° 37.6′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	W. 9 R. 7 G. 6	White storage shed, red band; 19.	G. 129°-131°, W.-134°, R.-197°, W. (unintensified)-279°, G.-293°′, W.-294°30′, R.-306°. Shown from July 6 to June 6.
10204 *C 6262*	Hummelgarden.	60° 16.0′ N 18° 36.0′ E	**Fl.(3)W.R.G.** period 9s	22 **7**	W. 9 R. 7 G. 6	Orange structure. Floodlit.	G. 133°-140°, W.-141°30′, R.-222°, G.-299°30′, W.-303°, R.-306°. **Radar reflector.**
10208 *C 6266*	Farohallan.	60° 18.0′ N 18° 34.0′ E	**Fl.(2)W.R.G.** period 6s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 3.1s	13 **4**	W. 6 R. 4 G. 3	White lantern on hut, green band.	G. 310°-320°30′, W.-328°, R.-066°, G.-127°, W.-130°30′, R.-138°. Partially obscured 097°-104° and 348°-355°. Shown from July 6 to June 6.
10216 *C 6270*	Syrsan.	60° 19.2′ N 18° 30.1′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 3	White iron skeleton structure.	G. 125°-145°, W.-149°30′, R.-279°, G.-306°, W.-309°30′, R.-314°.
10220 *C 6268*	Skeppshallan.	60° 20.0′ N 18° 29.0′ E	**Fl.(3)W.R.G.** period 9s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 3.9s	16 **5**	W. 6 R. 4 G. 3	White lantern on hut, red band.	G. 118°-145°, W.-150°, R.-285°, G.-299°30′, W.-309°30′, R.-328°. Shown from July 6 to June 6.
10228 *C 6274*	Dummelgrund.	60° 21.0′ N 18° 27.0′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	13 **4**	W. 9 R. 7 G. 6	White hut, red band.	G. 116°-130°, W.-133°30′, R.-137°, R. (unintensified)-160°, W. (unintensified)-262°, G.-279°, W.-290°, R.-296°, G.-301°, W.-308°30′, R.-324°, W. (unintensified)-116°. Shown from July 6 to June 6.
	OREGRUND:						
10232 *C 6275*	-Karrdal Range, front.	60° 20.0′ N 18° 28.0′ E	**F.R.**	20 **6**	7	Red triangular daymark, point up.	Occasional.
10236 *C 6275.1*	--Rear, 52 meters 277° from front.	60° 20.0′ N 18° 28.1′ E	**F.R.**	26 **8**	7	Red triangular daymark, point down.	Occasional.
10240 *C 6277*	-Oregrund Range, front.	60° 21.0′ N 18° 27.0′ E	**F.G.**	15 **5**	3	Iron framework structure.	Shown from July 6 to June 6.
10244 *C 6277.1*	--Rear, 75 meters 193° from front.	60° 20.5′ N 18° 26.7′ E	**F.G.**	23 **7**	5	White post.	Shown from July 6 to June 6.
10248 *C 6244*	Djursten.	60° 22.0′ N 18° 24.0′ E	**L.Fl.W.R.G.** period 9s	65 **20**	W. 11 R. 9 G. 8	White tower, black band and lantern; 49.	G.136°30′-150°, W.-156°30′, R.-167°.
10252 *C 6235.8*	Storskaret.	60° 23.0′ N 18° 17.0′ E	**Fl.(2)W.R.G.** period 6s	21 **6**	W. 6 R. 4 G. 4	Steel platform, red daymark; 19.	G. 240°-252°, W.-266°, R.-282°, G.-288°. 9 meters high framework mast, red, yellow, red rectangular daymark in line 259° 180 meters from light.
10256 *C 6245*	Bellonagrundet 500 meters 256° from Djursten.	60° 22.0′ N 18° 24.0′ E	**Iso.W.R.G.** period 3s	21 **6**	W. 10 R. 7 G. 6	Red tower on gray base; 20. Floodlit.	G. 006°-098°, W.-100°, R.-113°30, G.-154°, W.-161° R.-262°, G.-313°, W.-316°, R.-006°.
10260 *C 6235.6*	Stanggrundet.	60° 24.0′ N 18° 14.0′ E	**I.V.Q.W.R.G.** period 6s	27 **8**	W. 6 R. 4 G. 4	Steel pole, red triangular daymark; 20.	G. shore-181°, W.-226°, R.-238°, G.-260°, W.-281°, R.-shore. Shown July 15 to June 1.
10264 *C 6243.4*	Soderboda.	60° 27.0′ N 18° 23.0′ E	**Q.W.**	24 **7**	4	Post.	Visible 114°-172°. Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
	NORRBODA:						
10268 *C 6240*	-Norra.	60° 30.0′ N 18° 22.0′ E	**Q.W.R.G.**	23 **7**	W. 4 R. 2 G. 2	Post.	W. shore-026°, G. 144°-157°, W.-166°, R.-180°. Fishing light.
10272 *C 6241*	-Sodra.	60° 28.0′ N 18° 23.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 4 R. 2 G. 2	Post.	W. shore-053°, G.-105°, W.-113°, R.-153°, W.-shore. Fishing light.
10276 *C 6243*	-Engelska Grundet.	60° 28.0′ N 18° 20.0′ E	**Fl.(3)W.R.G.** period 9s	70 **21**	W. 9 R. 7 G. 6	White tower, red top, gray base; 74.	G. 006°-108°, R.-126°, G.-142°, W.-184°, R.-219°, G.-265°, W.-270°, R.-295°, G.-340°30′, W.-345°, R.-006°. **Radar reflector.**
10280 *C 6236*	**Orskar.**	60° 31.6′ N 18° 22.4′ E	**L.Fl.(2)W.** period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	117 **36**	**16**	White octagonal tower, two black bands, round top; 108.	Shown by day Nov. 1 to Mar. 31.
10284 *C 6234*	Angskarsskaten.	60° 30.0′ N 18° 05.0′ E	**Fl.(2)W.R.G.** period 6s	19 **6**	W. 6 R. 4 G. 3	White hut.	W. (unintensified) 095°-116°, R. (unintensified)-121°, obsc.-214°-229°, W.-237°, R.-247°, G.-270°, W.-272°, R.-277°, G.-281°, W.-287°, R.-325°. Fishing light. Shown from July 15 to June 1.
10288 *C 6233*	Klungsten.	60° 33.2′ N 18° 02.6′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 6 R. 4 G. 3	White tower.	W. 045°-050°, R.-138°, G.-167°, R.-202°, G.-229°, W.-234°, R.-280°, G.-302°, R.-357°, G.-045°. Shown when needed.
10292 *C 6227*	Fagelsundet Vastra, Gavle.	60° 36.0′ N 17° 56.0′ E	**Fl.(2)W.R.G.** period 6s	18 **5**	W. 5 R. 3 G. 3	White hut.	G. 125°-132°, W.-143°, R.-158°. Fishing light.
10296 *C 6238*	Argos Grund.	60° 37.7′ N 18° 21.6′ E	**Fl.W.** period 3s	56 **17**	9	Yellow tower, black band, on gray base in water; 59.	
	RACON		**O(– – –)** period 30s		14		(3 & 10cm)
10300 *C 6226*	Bjorn.	60° 38.0′ N 17° 59.0′ E	**L.Fl.W.R.G.** period 10s fl. 2s, ec. 8s	77 **23**	W. 10 R. 7 G. 6	Black and white tower; 82.	G. 060°-082°, W.-128°, R.-136°, W.-311°, R.-329°, W.-345°, W. (unintensified)-015°, W.-060°.
10304 *C 6228*	-Fagelsundet Ostra.	60° 36.0′ N 17° 57.0′ E	**Q.W.R.G.**	18 **5**	W. 5 R. 3 G. 3	White hut.	G. shore-092°, R.-180°, G.-229°, R.-247°, G.-261°, W.-263°, R.-267°. Fishing light.
10308 *C 6252*	**Vastra Banken.**	60° 52.7′ N 17° 55.2′ E	**Fl.(2)W.** period 6s	84 **26**	8	Tower, orange and black bands, gray base submerged in water; 88.	Shown Nov. 1 to Mar. 31.
	RACON		**B(– • • •)** period 30s		**15**		
10312 *C 6250*	Finngrundet.	60° 59.1′ N 18° 36.5′ E	**Fl.(2)W.R.** period 10s	78 **24**	W. 12 R. 9	Orange tower, black stripe on gray base in the water; 81.	W. 122°-042°, obsc.-046°, R.-122°.
	RACON		**N(– •)** period 30s		**16**		
10316 *C 6224*	Fagerviken Range, front.	60° 33.0′ N 17° 45.0′ E	**Iso.W.** period 4s	18 **5**	7	Wooden post.	Shown from July 15 to June 1.
10320 *C 6224.1*	-Rear, about 600 meters 194°30′ from front.	60° 33.1′ N 17° 44.2′ E	**Q.W.**	42 **13**	7	Wooden post.	
10324 *C 6225*	Sikhjalma.	60° 35.0′ N 17° 49.0′ E	**Fl.W.R.G.** period 3s	30 **9**	W. 6 R. 4 G. 3	White house.	R. 040°-140°, G.-174°, W.-182°, R.-194°, G.-202°, W.-206°30′, R.-220°. Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10328 *C 6220*	Gardskar.	60° 39.0′ N 17° 38.0′ E	**Fl.W.R.G.** period 3s	16 **5**	W. 6 R. 4 G. 3	White octagonal iron hut, concrete base.	W. (unintensified) shore-113°, obsc.-130°, G.-162°, W.-170°, R.-202°, G.-225°, W.-229°, R.-264°, obscured elsewhere. Shown from opening of fishing season to June 1 and from July 15 to close of season.
10337 *C 6214.7*	"E1" Range, front.	60° 38.8′ N 17° 23.6′ E	**Q.R.**				
10337.1 *C 6214.71*	-"E2", rear, 184° 30' from front.	60° 38.6′ N 17° 23.6′ E	**Oc.R.** period 6s				
10338 *C 6214.9*	E3, front.	60° 38.8′ N 17° 24.3′ E	**F.G.**				
10338 *C 6214.7*	E1 Range, front.	60° 38.8′ N 17° 23.6′ E	**Q.R.**				
10338.1 *C 6214.91*	-"E4", rear, 094° from front.	60° 38.8′ N 17° 24.5′ E	**F.G.**				
10340 *C 6172*	**Eggegrund.**	60° 44.0′ N 17° 34.0′ E	**Iso.W.R.G.** period 4s	95 **29**	W. **18** R. **15** G. 13	Concrete tower, upper part black, lower part white; 85.	R. (unintensified) 079°-140°, G.-142°30′, W.-151°, R.-205°, G.-222°, W.-278°, R.-290°, G.-318°, W. (unintensified)-079°. Shown by day Nov. 1 to Mar. 31.
10342 *C 6173*	Purrutsgrund.	60° 46.9′ N 17° 27.2′ E	**Fl.W.** period 5s	36 **11**	3	White steel tower, green band; 16.	
	RACON		**M(– –)** period 30s				
10344 *C 6210*	Sikvik.	60° 40.1′ N 17° 17.9′ E	**Fl.(2)W.R.** period 6s	13 **4**	W. 4 R. 2	White hut.	R. 268°-283°, W.-288°. Occasional.
10348 *C 6176.1*	Limo E. Range, front.	60° 43.1′ N 17° 21.9′ E	**Q.W.**	49 **15**	13	Red hut, white rectangular daymark, red band; 46.	
10352 *C 6176*	**-Limo**, common rear, 271°36′, from Limo E. 219° from Limo NE.	60° 42.8′ N 17° 21.2′ E	**Iso.W.R.G.** period 4s	125 **38**	W. **16** R. 13 G. 12	Red hut, white rectangular daymark, red band; 68.	G. 140°-172°, W.-189°, R.-194°, G.-218°, W.-220°, R.-238°, G.-267°, W.-273°30′, R.-288°, G.-316°, R.-342°. Shown from July 15 to June 1.
10353	Limo NE. Range, front.	60° 43.1′ N 17° 21.6′ E	**Q.W.**	39 **12**	10	Framework mast, white daymark, red band.	
	GAVLE CHANNEL:						
10356 *C 6184*	-Bonan, N. of channel entrance.	60° 44.0′ N 17° 19.0′ E	**Iso.W.R.G.** period 6s	33 **10**	W. 10 R. 7 G. 6	White tower; 33.	G. 240°30′-251°, W.-263°, R.-274°, G.-289°, W.-298°30′, R.-318°. Shown from opening of navigation to June 1, and from July 15 to close of navigation.
10360 *C 6194.5*	-Engesberg Range, front.	60° 44.0′ N 17° 18.0′ E	**F.R.**	29 **9**	4	Post, white triangular daymark, red border.	
10364 *C 6194.51*	- -Rear, 50 meters 020° from front.	60° 43.8′ N 17° 17.4′ E	**F.R.**	34 **10**	4	Post, white triangular daymark, red border.	
10368 *C 6185*	-Ytteriskan.	60° 44.0′ N 17° 20.0′ E	**Q.W.**	26 **8**	10	Metal tower, red band; 16. Floodlit.	Visible 074°-274°. Seasonal. **Radar reflector.**
10372 *C 6186*	-Northern entrance No. "1", S. side.	60° 44.0′ N 17° 19.8′ E	**Oc.W.R.G.** period 6s	28 **9**	R. 5 G. 4	White tower, red stripe on stone base. Floodlit.	R. 059°30′-157°30′, G.-192°30′, W.-233°, R.-246°30′.
10376 *C 6188*	- -No. "2", N. side.	60° 43.8′ N 17° 19.1′ E	**F.G.**	28 **9**	5	White tower, green band on stone base. Floodlit.	Visible 231°30′-057°.

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			SWEDEN-GULF OF BOTHNIA				
10380 *C 6190*	--No. "3", N. side.	60° 43.7′ N 17° 18.9′ E	**F.G.**	28 **9**	5	White tower, green band on stone base. Floodlit.	Visible 240°-057°.
10384 *C 6194*	--No. "4", S. side.	60° 43.6′ N 17° 18.5′ E	**Iso.W.R.G.** period 3s	28 **9**	W. 8 R. 6 G. 5	White tower, red band on stone base. Floodlit.	G. 032°-044°, W.-052°, R.-236°.
10388 *C 6202*	-Kullsand Range, front.	60° 42.0′ N 17° 13.0′ E	**F.G.**	19 **6**	4	Post, white triangular daymark, red border.	Seasonal.
10392 *C 6202.1*	--Rear, 55 meters 329° from front.	60° 41.9′ N 17° 12.9′ E	**F.G.**	33 **10**	4	Post, white triangular daymark, red border.	Seasonal.
10396 *C 6196*	-Karskar.	60° 41.0′ N 17° 17.0′ E	**Iso.W.R.G.** period 3s	33 **10**	W. 10 R. 7 G. 6	Framework structure.	R. 135°-160°, G.-169°30′, W.-178°30′, R.-196°30′, G.-212°. Shown from July 15 to June 1.
10400 *C 6198*	Langharen.	60° 41.0′ N 17° 17.0′ E	**Q.W.R.G.**	30 **9**	W. 10 R. 7 G. 6	White structure.	G. 169°-176°30′, W.-190°, R.-196°. Shown July 15 to June 1.
10404 *C 6195*	-Herosgrund.	60° 42.7′ N 17° 16.7′ E	**I.V.Q.W.R.G.** period 8s	19 **6**	W. 10 R. 8 G. 6	Orange tower on gray caisson. Floodlit.	G. 100°30′-211°, W.-222°, R.-308°, G.-355°, R.-006°, G.-017°30′, W.-049°30′, R.-100°30′. Shown July 15 to June 1.
10424 *C 6175.9*	Skraddarhallan.	60° 46.0′ N 17° 22.0′ E	**Fl.(2)W.R.G.** period 6s	18 **5**	W. 8 R. 6 G. 5	White hut.	G. 307°-319°, W.-326°, R.-337°. Intensified on range 183°30′ with Limo Light. Shown from opening of navigation to June 1 and from July 15 to close of navigation.
10428 *C 6174*	Trodjehallan.	60° 48.0′ N 17° 22.0′ E	**Fl.(3)W.R.G.** period 9s	42 **13**	W. 8 R. 5 G. 4	White concrete tower, upper part orange; 33.	G. 175°-185°, W.-233°, R.-256°, R. (unintensified)-274°, G.-290°, W.-297°, R.-310°, G. 340°-349°, W.-350°, R.-shore. Seasonal.
10432	Skommarhallan.	60° 49.4′ N 17° 19.0′ E	**Q.W.R.G.**	20 **6**	W. 6 R. 4 G. 3	White tower, red band.	R. 186°-197°, G.-231°, W.-269°, R.-341°, G.-007°, W.-011°, R.-029°. Shown as needed.
10436 *C 6168*	Iggo, SE. side.	60° 52.0′ N 17° 20.0′ E	**Fl.W.R.G.** period 6s	21 **6**	W. 5 R. 3 G. 2	White wooden hut.	G. shore-207°, W.-358°, R.-shore. Shown during fishing season.
	NORRSUND HAMN:						
10440 *C 6152*	-Hallstensoren.	60° 56.9′ N 17° 10.7′ E	**Fl.(2)W.R.G.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	21 **6**	W. 11 R. 9 G. 9	Orange framework structure, white hut.	G. 234°-244°36′, W.-252°48′, R.-270°. Shown from beginning of navigation to June 1 and from July 15 to close of navigation.
10444 *C 6154*	-Ryttarharet.	60° 56.6′ N 17° 10.5′ E	**Oc.W.R.G.** period 4s	30 **9**	W. 8 R. 6 G. 6	Metal framework tower.	W. 055°42′-056°36′, R.-063°06′, obsc.-112° 54', W. (unintensified)-179°30′, obsc.-226°24′, G.- 231°30′, W-235°48′, R.-241°.
10448 *C 6156*	-Range, front.	60° 56.5′ N 17° 09.6′ E	**Iso.R.** period 4s	26 **8**	3	White tower, gallery, red daymark, black stripe.	Shown from July 15 to June 1.
10452 *C 6156.1*	--Rear, 130 meters 244°12′ from front.	60° 56.4′ N 17° 09.5′ E	**Q.R.**	36 **11**	3	White tower, gallery, red daymark, black stripe.	
10456 *C 6158*	-Norrsundet Inre.	60° 56.2′ N 17° 09.5′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 3 R. 2 G. 2	Metal framework tower on stone base.	W. 071°30′-125°42′, G.-225°36′, W.-228°. R.- shore. Shown from opening of navigation to June 1 and from July 15 to close of navigation.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10464 *C 6146*	Gashallan.	61° 01.0′ N 17° 17.0′ E	**Fl.(4)W.R.G.** period 12s	33 **10**	W. 8 R. 5 G. 4	White tower; 26.	R. 080°-097°, G.-125°, W.-174°, R.-198°, G.-220°, W.-325°, R.-332°, G.-348°, R.-003°, G.-031°, R.-048°, G.-080°.
10468 *C 6138*	-Kushallan.	61° 03.0′ N 17° 16.0′ E	**Fl.(3)W.R.G.** period 4s	26 **8**	W. 6 R. 4 G. 3	White hut.	R. 123°-145°30′, G.-179°, R.-256°, G.-282°, W.-328°, R.-359°. Shown from July 15 to June 1.
10472 *C 6130*	Sunnan.	61° 06.0′ N 17° 14.0′ E	**Fl.W.R.G.** period 6s	16 **5**	W. 6 R. 4 G. 3	White hut.	R. 110°-178°, G.-196°30′, W.-202°, R.-289°, G.-328°, R.-005°.
10476 *C 6122*	Storjungfrun.	61° 10.0′ N 17° 21.0′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	88 **27**	W. 12 R. 9 G. 8	White round tower, black top; 70.	W. 090°-113°, R.-180°, G.-191°, W.-242°, R.-304°, G.-327°, W.-351°, R.-015°.
10480 *C 6125*	Hogharen.	61° 06.0′ N 17° 16.0′ E	**Q.W.R.G.**	19 **6**	W. 6 R. 4 G. 3	White hut.	G. 123°-157°, W.-173°, R.-204°, G.-222°, R.-245°, G.-268°, W.-275°, R.-296°. Fishing light.
10484 *C 6132*	Trollharen Range, front.	61° 05.0′ N 17° 12.0′ E	**F.R.**	13 **4**		Post.	Fishing lights.
10488 *C 6132.1*	-Rear, 120 meters 213° from front.	61° 05.4′ N 17° 12.1′ E	**F.R.**	19 **6**		Post.	
10492 *C 6116*	Vallvik Quay Range, front.	61° 11.5′ N 17° 10.3′ E	**F.R.**	46 **14**	6	White framework tower, white triangular daymark, point up, red border.	Shown from July 15 to June 1.
10496 *C 6116.1*	-Rear, 275 meters 145° from front.	61° 11.4′ N 17° 10.5′ E	**F.R.**	58 **18**	6	White framework tower, white triangular daymark, red border, point up.	R.Lt. on chimney 400 meters SE.
10500 *C 6114*	Storstensharet.	61° 12.5′ N 17° 08.8′ E	**L.Fl.W.R.G.** period 8s	18 **5**	W. 10 R. 8 G. 7	White column; 11.	G. shore-262°30′, R.-285°, G.-300°, W.-305°, R.-310°, G.-321°, W.-326°, R.-340°.
10502 *C 6114.5*	Storgrytan.	61° 12.2′ N 17° 09.5′ E	**Fl.W.** period 3s	16 **5**	4	White hut, red bands.	
10504 *C 6115*	Lillgrytan Islet.	61° 12.0′ N 17° 08.6′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 5 R. 3 G. 2	White hut.	W. 152°30′-209°, G.-234°30′, W.-236°, R.-255°. Shown from July 15 to June 1.
10508 *C 6114.6*	Ljusne Sodra Range, front.	61° 12.0′ N 17° 07.9′ E	**F.G.**	30 **9**	10	White triangular daymark, point up.	Shown from July 15 to June 1.
10512 *C 6114.61*	- -Rear, 90 meters 250° from front.	61° 12.0′ N 17° 07.8′ E	**F.G.**	39 **12**	10	Structure, white triangular daymark, point down.	Leading into Ljusne. Shown from July 15 to June 1.
10516 *C 6114.4*	-Tralhamn Range, front.	61° 12.3′ N 17° 07.7′ E	**F.G.**	16 **5**	10	White triangular daymark, point up.	Shown from July 15 to June 1.
10520 *C 6114.41*	- -Rear, 120 meters 306° from front.	61° 12.3′ N 17° 07.6′ E	**F.G.**	26 **8**	10	White triangular daymark, point down.	Shown from July 15 to June 1.
10524 *C 6112*	Vallvik.	61° 12.0′ N 17° 11.0′ E	**Iso.W.R.G.** period 4s	30 **9**	W. 11 R. 8 G. 6	White tower, red bands.	R. shore-169°, G.-251°, R.-262°, G.-268°, W.-272°, R.-279°, G.-311°, W.-313°, R.-shore. Shown from July 15 to June 1.
	SODERHAMN APPROACH:						
10528 *C 6087*	**-Hallgrund.**	61° 16.8′ N 17° 23.6′ E	**L.Fl.(2)W.R.G.** period 15s fl. 2s, ec. 2s fl. 2s, ec. 9s	72 **22**	W. 9 R. 7 G. 6	White tower, red band, gray base; 75. Floodlit.	W. 001°-007°30′, R.-018°, G.-024°, W.-033°, R.-054°, G.-075°, W.-078°30′, R.-086°, G.-137°30′, R.-146°, G.-174°, W.-340°, R.-350°, G.-001°.
	-RACON		**G(– – •)** period 30s		**15**		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10532 *C 6088*	-Norrutharet.	61° 16.0′ N 17° 19.0′ E	**Fl.(3)W.R.G.** period 9s	34 **10**	W. 8 R. 5 G. 4	White tower; 33.	W. (unintensified) 067°-094°, W.-161°, R.-234°, G.-255°30′, W.-264°, R.-314°, G.-333°, W.-340°, R.-001°. Shown from opening of navigation to June 1 and from July 15 to close of navigation.
10536 *C 6092*	-Klumpudden, N. side of Enskar.	61° 15.0′ N 17° 18.0′ E	**Fl.W.R.G.** period 4s	16 **5**	W. 6 R. 4 G. 3	White octagonal hut.	G. 065°-104°, R.-111°30′, G.-157°30′, W.-162°30′, R.-216°30′, G.-271°, R.-shore. Shown from July 15 to June 1.
10540 *C 6113*	-Hovskar Range, front.	61° 13.0′ N 17° 10.0′ E	**F.R.**	33 **10**	6	Post, white triangular daymark, red border.	Shown from July 15 to June 1.
10544 *C 6113.1*	- -Rear, 92 meters 338° from front.	61° 13.3′ N 17° 10.2′ E	**F.R.**	52 **16**	6	Post, white triangular daymark, red border.	
10546 *C 6113.51*	-Orrskar Range, front.	61° 13.0′ N 17° 09.6′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	26 **8**	11	Framework tower, white square, red stripe.	Oc.W. and rear on range. Oc.R. and rear mark W. boundary of channel. Oc.G. and rear mark E. boundary of channel.
10546.1 *C 6113.5*	- -Rear, 326° from front.	61° 13.1′ N 17° 09.5′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	49 **15**	11	Framework tower, red square, red stripe.	Synchronized with front.
10548 *C 6093*	-Otterhallen.	61° 16.1′ N 17° 14.9′ E	**Fl.(2)W.R.G.** period 6s	33 **10**	W. 5 R. 4 G. 3	Orange framework tower, concrete base.	G. 238°-273°, W.-280°, R.-301°, G.-332°, R.-093°. Shown from July 15 to June 1. **Radar reflector.**
	-RACON		**N(– •)** period 30s				
10552 *C 6098*	-Brandskar Range, front.	61° 16.0′ N 17° 11.1′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	36 **11**	13	Lantern on pedestal.	Shown from July 15 to June 1.
10556 *C 6098.1*	- -Rear, 914 meters 272° from front.	61° 16.0′ N 17° 10.0′ E	**Q.W.**	75 **23**	13	Framework tower, white square.	Shown from July 15 to June 1.
10560 *C 6100*	-Prastholmen.	61° 16.4′ N 17° 10.9′ E	**Fl.W.R.G.** period 3s	12 **4**	W. 7 R. 3 G. 2	Red hut on red concrete pedestal. Floodlit.	G. 124°-132°, W.-134°, R.-161° W.(unintensified)-284°, G.-299°30′, W.-304°, R.-311°. Shown from opening of navigation to June 1 and from July 15 to close of navigation.
10564 *C 6102*	-Garpholmen.	61° 16.5′ N 17° 10.4′ E	**Q.W.R.G.**	10 **3**	W. 7	White house.	G. 122°-135°, W.-136°30′,
				10 **3**			R.-241°, G.-303°30′, W.-306°, R.-339°, G.-003°30′, R.-023°. Shown from July 15 to June 1.
10568 *C 6106*	-Ullbacka Range, front.	61° 17.7′ N 17° 07.8′ E	**F.R.**	47 **14**	6	Gray iron structure, white triangular daymark, point up.	Shown from opening of navigation to June 1 and from July 15 to close of navigation.
10572 *C 6106.1*	- -Rear, 155 meters 315° from front.	61° 17.8′ N 17° 07.7′ E	**F.R.**	69 **21**	7	Gray iron structure, white triangular daymark, point down.	
10576 *C 6108*	-Grundvik.	61° 17.9′ N 17° 07.8′ E	**Fl.W.R.G.** period 3s	15 **5**	W. 4 R. 2 G. 2	Green dolphin.	G. 305°-325°, W.-329°, R.-045°, G.-128°, W.-138°, R.-150°. Shown July 15 to June 1.
10580 *C 6104*	**-Soderhamn** AVIATION LIGHT.	61° 16.6′ N 17° 05.2′ E	**Fl.(7)W.** period 19s	184 **56**	**22**	Orange and white framework mast.	Occasional.
10584 *C 6109*	-Soderhamnsfjorden No. "1".	61° 18.6′ N 17° 06.2′ E	**F.R.**	13 **4**	3	Red column.	Shown from July 15 to June 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10588 *C 6110*	--No. "2".	61° 18.7′ N 17° 05.5′ E	**F.R.**	18 **5**	3	Red column.	Shown from July 15 to June 1.
10592 *C 6111*	-Soderhamn Range, front.	61° 18.7′ N 17° 05.2′ E	**F.G.**	20 **6**	2	White post.	Seasonal.
10596 *C 6111.1*	--Rear, 180 meters 289° from front.	61° 18.8′ N 17° 05.4′ E	**F.G.**	33 **10**	2	White post.	Seasonal.
10600 *C 6086.2*	Prastgrundet.	61° 21.0′ N 17° 20.0′ E	**Fl.(4)W.R.G.** period 12s	45 **14**	W. 8 R. 5 G. 4	White tower, black band; 19.	R. 003°-077°, G.-091°, W.-093°30′, R.-135°, W.-236°, R.-265°, G.-275°, W.-323°, R.-341°30′, G.-003°. Partially obscured 140°-165°. Shown July 15 to June 1.
10604 *C 6083*	Vitgrund (Hvitgrund), N. side.	61° 23.0′ N 17° 12.0′ E	**Fl.R.G.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	R. 4 G. 3	Skeleton structure, white hut; 18.	G. 073°-090°, R.-208°, G.-226°, R.-293°. Shown from opening of navigation to June 1 and from July 15 to close of navigation. Fishing light.
10608 *C 6084*	Skarsa.	61° 23.0′ N 17° 09.0′ E	**Q.W.R.G.**	16 **5**	W. 5 R. 4 G. 3	Post.	R. 154°-198°, G.-250°, R.-340°, W.-154°. Shown when required.
10610 *C 6084.5*	Rodkull.	61° 22.7′ N 17° 07.0′ E	**Fl.R.** period 3s				
10612 *C 6079*	Vatnasudde.	61° 33.0′ N 17° 13.0′ E	**F.W.**	36 **11**		White hut.	Fishing light.
10616 *C 6080*	Fiske.	61° 31.0′ N 17° 13.0′ E	**Fl.(3)W.R.G.** period 9s	36 **11**	W. 6 R. 4 G. 3	White hut.	G. (unintensified) 122°-142°, W. (unintensified)-146°, R. (unintensified)-201°, G.-238°, W.-255°, R.-261°, G.-268°, W.-331°, R.-337°, R. (unintensified)-059°. Fishing light. Shown from July 15 to June 1.
10620 *C 6081*	Haganas (Kattskar).	61° 30.0′ N 17° 10.0′ E	**F.W.**	55 **17**		White structure.	Fishing light.
	HUDIKSVALL APPROACH:						
10624 *C 6060*	-Ago.	61° 33.0′ N 17° 28.0′ E	**Fl.W.R.G.** period 5s fl. 1s, ec. 4s	102 **31**	W. 9 R. 7 G. 6	White and orange tower; 49.	G. 130°-141°30′, W.-143°, R.-162°, G.-198°, W.-280°, R.-293°, W.-035°, R.-094°, (partially obscured 048°-077°, totally obscured 077°-094°). Shown by day Nov. 1 to Mar. 31.
10628 *C 6066*	-Krako.	61° 33.0′ N 17° 19.0′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 6 R. 4 G. 3	White round tower.	G. 337°30′-350°, W.-007°30′, R.-043°, G. 126°-167°, W.-169°, R.-shore. Shown from opening of navigation to June 1 and from July 15 to close of navigation.
10632 *C 6062*	-Krakskar.	61° 34.0′ N 17° 20.0′ E	**Fl.(4)W.R.G.** period 12s	49 **15**	W. 9 R. 6 G. 5	White and orange tower; 20.	G. 109°-152°, W.-158°, R.-173°, G.-185°, W.-189°, R.-220°, G.-247°, W.-253°, R.-255°, G.-257°, W.-266°30′, R.-271°, G.-275°30′, W.-281°, R.-285°.
10636 *C 6057*	-Holickskar.	61° 37.0′ N 17° 26.0′ E	**Iso.W.R.G.** period 8s	33 **10**	W. 10 R. 7 G. 6	White octagonal iron structure, concrete base.	G. 227°30′-295°, W.-301°, R.-313°30′, G.-323°, W.-340°, R.-025°, G.-047°, W.-051°, R.-057°, G.-093°. Shown from July 15 to June 1. Shown 24 hours Nov. 1 to Mar. 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10640 *C 6057.4*	- -S. breakwater of fishing harbor, head.	61° 38.0′ N 17° 26.0′ E	**Q.W.R.G.**	16 **5**	W. 8 R. 6 G. 5	White square iron skeleton structure, concrete base.	G. 013°-070°, W.-077°, R.-094°30′, G.-127°, R.-shore. Fishing light.
10652 *C 6068*	-Dukarsund, Mossolandet.	61° 37.0′ N 17° 11.0′ E	**Fl.W.R.G.** period 3s	12 **4**	W. 6 R. 4 G. 3	White lantern.	G. 075°-082°30′, W.-085°12′, R.-103°, W. (unintensified)-247°, G.-268°30′, W.-273°, R.-283°. The dredged channel to Iggesund is marked by lighted beacons. Shown from July 15 to June 1.
10656 *C 6069*	**-Gasfjarden** Range, front.	61° 37.1′ N 17° 05.2′ E	**Q.W.**	112 **34**	**17**	White framework tower, red rectangular daymark, white band.	Visible on range line only. Shown from July 15 to June 1.
10660 *C 6069.1*	- -Rear, about 498 meters 264°12′ from front.	61° 37.2′ N 17° 06.3′ E	**Iso.W.** period 4s	154 **47**	**18**	White framework tower, red rectangular daymark, white band.	Shown from July 15 to June 1.
10664 *C 6070*	-Ljusgrund Range, front.	61° 39.0′ N 17° 16.0′ E	**Q.W.**	16 **5**	7	Red post.	Visible on range line only. Shown from July 15 to June 1.
10668 *C 6070.1*	- -Rear, 1,300 meters 192° from front.	61° 38.1′ N 17° 15.7′ E	**Iso.W.** period 4s	27 **8**	7	Post, red triangular daymark, point down.	
10672 *C 6071*	-Saltviksudde, W. entrance to Kudiksvallfjarden.	61° 41.0′ N 17° 15.0′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	36 **11**	W. 13 R. 10 G. 9	White tower; 34.	G. (unintensified) 140°-210°, R. (unintensified)-293°30′, G. (unintensified)-310°, G.-322°, W.-324°, R.-328°. Shown from opening of navigation to June 1 and July 15 to close of navigation.
10676 *C 6072*	-Gackero, SW. point, E. side of entrance.	61° 41.0′ N 17° 17.0′ E	**Fl.(2)W.R.G.** period 6s	13 **4**	W. 9 R. 7 G. 6	White wooden hut.	G. 332°-006°30′, W.-009°30′, R.-031°, G.-073°, W.-079°, R.-148°30′, G.-152°, W.-154°, R.-158°. Shown from July 15 to June 1. Light shown by day from Nov. 1to Mar. 31.
10680 *C 6075*	-Lusholmen Range, front.	61° 41.0′ N 17° 16.0′ E	**Q.W.**	23 **7**	12	Post, white triangular daymark, orange border.	Shown from July 15 to June 1.
10684 *C 6075.1*	- -Rear, 340 meters 116° from front.	61° 41.1′ N 17° 16.7′ E	**Iso.W.** period 4s	49 **15**	12	Post, white triangular daymark, orange border.	Shown from July 15 to June 1.
10688 *C 6076*	-Lingaro Range, front.	61° 42.0′ N 17° 15.0′ E	**Iso.W.** period 3s	37 **11**	9	Post, white triangular daymark, orange border.	Shown from July 15 to June 1.
10692 *C 6076.1*	- -Rear, 120 meters 339° from front.	61° 42.5′ N 17° 15.0′ E	**Iso.W.** period 3s	56 **17**	9	Post, white triangular daymark, orange border.	Shown from July 15 to June 1.
10696 *C 6056*	Balso, Gashallan.	61° 44.0′ N 17° 34.0′ E	**Mo.(U)W.R.G.** period 20s fl. 2s, ec. 2s fl. 6s, ec. 2s fl. 2s, ec. 6s	37 **11**	W. 14 R. 11 G. 10	White tower; 19.	G. 174°-200°, W.-013°,R.-016°. Shown from opening of navigation to June 1 and from July 15 to close of navigation.
	HUDIKSVALL APPROACH:						
10700 *C 6052*	-Fishing harbor, W. side.	61° 44.0′ N 17° 32.0′ E	**Fl.(3)R.G.** period 10s	21 **6**	2	White hut.	G. shore-007°, R.-075°, G.-177°, R.-shore. Fishing light.
10704 *C 6048*	Bergo, NE. point.	61° 49.0′ N 17° 26.0′ E	**Q.W.R.G.**	14 **4**	W. 4 R. 3 G. 2	White hut.	G. 138°-148°, W.-158°, R.-179°, G.-215°, W.-229°, R.-294°, G.-310°, W.-324°, R.-352°. Fishing light.
10708 *C 6043*	Mellanfjarden, on W. side of Jattendal Fjord.	61° 57.0′ N 17° 21.0′ E	**Q.W.R.G.**	33 **10**	W. 6 R. 4 G. 3	Skeleton structure, white hut.	W. (unintensified) 170°-275°, G.-283°, W.-292°30′, R.-308°30′, G.-330°. Shown from July 15 to June 1.
10712 *C 6044*	Jattendal Fjord Range, front.	61° 58.0′ N 17° 21.0′ E	**F.R.**	39 **12**	9	Post, white triangular daymark.	Shown from July 15 to June 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10716 *C 6044.1*	-Rear, 154 meters 332° from front.	61° 57.5′ N 17° 21.1′ E	**F.R.**	72 **22**	9	Post with triangular daymark.	
10720 *C 6044.5*	-Mellanfjardens Range, front.	61° 57.0′ N 17° 21.0′ E	**Iso.W.** period 4s	20 **6**		Post, white triangular daymark, point up.	Two F.G. lights in range bearing 006° are located at Mellanfjarden Fishing Harbor, close eastward of range lights. Shown from July 15 to June 1.
10724 *C 6044.6*	--Rear, 90 meters 329° from front.	61° 57.6′ N 17° 20.5′ E	**Iso.W.** period 4s	30 **9**		Post, white triangular daymark, point down.	Synchronized with front.
10732 *C 6042*	Gran.	62° 01.0′ N 17° 39.0′ E	**Fl.W.R.G.** period 5s fl. 1s, ec. 4s	98 **30**	W. 11 R. 9 G. 8	White tower, dwelling attached.	R. 022°-039°, G.-056°, W.-059°30′, R.-080°, G.-125°30′, W.-197°, R.-234°, W.-022°.
10736 *C 6040*	Furuskar, S. side.	62° 11.0′ N 17° 33.0′ E	**Fl.(2)W.R.G.** period 8s	16 **5**	W. 6 R. 4 G. 3	White circular hut.	G. 299°-320°, W.-328°, R.-340°, W. (unintensified)-045°. Shown from July 20 to May 20. Fishing light.
10740 *C 6041*	**Bramo Kalv.**	62° 10.9′ N 17° 40.5′ E	**Fl.(4)W.R.G.** period 12s	40 **12**	W. **15** R. 12 G. 10	White tower; 30.	G. 270°-284°, W.-313°, R.-351°30′, G.-008°30′ W.-014°, R.-024°30′, G.-068°, W.-071°, R.-085°, G.-175°, W.-shore. Shown from July 20 to May 20.
10744 *C 6032*	Bramo Cable Range, E. side, front.	62° 12.0′ N 17° 41.0′ E	**F.R.**	36 **11**	7	Skeleton structure, white triangular daymark, point up, red border.	Shown from July 20 to May 20. Marks Cable.
10748 *C 6032.1*	-Rear, 70 meters 120° from front.	62° 12.3′ N 17° 41.0′ E	**F.R.**	49 **15**	7	Skeleton structure, red and white triangular daymark, point down.	Shown from July 20 to May 20.
10752 *C 6030*	**Bramon.**	62° 13.0′ N 17° 45.0′ E	**Oc.(2)W.R.G.** period 20s lt. 11.3s, ec. 2.7s lt. 3.3s, ec. 2.7s	102 **31**	W. **18** R. **15** G. 13	White round stone tower, black band; 53.	G. 123°-137°, R.-152°, W.-340°, R.-022°. Shown by day Nov. 1 to Mar. 31.
10756 *C 6034*	Lorudden, NE. side of Bramosund.	62° 14.0′ N 17° 41.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	16 **5**	W. 10 R. 8 G. 6	White round tower.	G. 148°-156°, W.-263°, R.-338°, G.-355°, W.-004°, R.-shore. Shown from July 20 to May 20, by day Nov. 1 to Mar. 31. Storm signals.
	SUNDSVALL APPROACH:						
10760 *C 6036*	**-Draghallan.**	62° 20.4′ N 17° 26.4′ E	**Mo.(A)W.R.G.** period 10s fl. 1s, ec. 1s fl. 3s, ec. 5s	42 **13**	W. **16** R. 13 G. 12	White tower; 44.	R. 053°-088°, G.-142°, W.-145°, R.-171°, G.-248°, W.-251°, R.-273°30′, G.- 288°, W.-296°, R.-316°, G.-348°, G. (unintensified)- 018°, G.-053°. Shown from July 20 to May 20, by day Nov. 1 to Mar. 31. **Radar reflector.**
10764 *C 6036.4*	**-Sunsvall** AVIATION LIGHT.	62° 22.0′ N 17° 20.0′ E	**V.Q.W.**	1476 **450**	**21**	Orange and white framework mast.	6 F.R. shown from same tower.
10766 *C 6037*	-Kubikenborg Range, front.	62° 22.7′ N 17° 22.0′ E	**F.R.**	15 **5**	7	Post, white triangular daymark, red border, point up.	Shown from July 20 to May 20.
10766.1 *C 6037.1*	--Rear, 60 meters 310° from front.	62° 22.7′ N 17° 22.0′ E	**F.R.**	25 **8**	8	White triangular daymark, red border, point down.	Shown from July 20 to May 20.
10768 *C 6037.4*	-Tjuvholmen, W. side.	62° 23.0′ N 17° 22.0′ E	**Q.W.R.G.**	12 **4**	W. 10 R. 7 G. 6	White circular tower.	G. 320°30′-325°30′, W.-331°, R.-035°, G.-102°30′, W.-111°30′, R.-125°. Shown from July 20 to May 20. 2 F.R. 7M lights in line 267° mark pipeline 870 meters NNW.
10772 *C 6037.6*	-Kokaren Range, front.	62° 24.0′ N 17° 22.0′ E	**F.R.**	21 **6**	5	Lantern on pillar, red triangular daymark.	Shown from July 15 to June 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10776 *C 6037.61*	- -Rear, 65 meters 020° from front.	62° 23.9′ N 17° 21.5′ E	**F.R.**	33 **10**	5	Lantern on pillar, red triangular daymark.	
10778	-Alno Bridge RACON.	62° 26.0′ N 17° 23.9′ E	**(• • • • • • •)**		4	On bridge.	Numerous 2 F.R. range lights mark cables in Alno Sundet.
10780 *C 6028*	Gistaholmen.	62° 29.4′ N 17° 24.3′ E	**Fl.W.R.G.** period 3s fl. 0.7s, ec. 2.3s	33 **10**	W. 6 R. 4 G. 3	Framework tower, white lantern.	G. 054°-069°, W.-077°, R.-084°, R. (unintensified)-107°, W. (unintensified)-200°, R. (unintensified)-234°, G.-246°, W.-258°30, R.- 280°. Shown from July 20 to May 20. 2 F.R. 7M lights in line 243° mark pipeline 2.1 miles WSW.
10784 *C 6025*	Salsternarna.	62° 29.0′ N 17° 29.0′ E	**Q.W.R.G.**	33 **10**	W. 6 R. 4 G. 3	Black and white tower; 26.	G. 122°-140°, W.-270°, R.-284°, G.-301°, W.-320°, R.-shore. Shown from July 20 to May 20. 2 F.R. 8M lights in line 047° at Soraker 1.9 miles NNE. **Radar reflector.**
10788 *C 6024*	Granon.	62° 26.0′ N 17° 32.0′ E	**Fl.(2)W.R.G.** period 6s	33 **10**	W. 6 R. 4 G. 3	White tower; 34.	G. 330°-343°, W.-357°, R.-015°, R. (unintensified)-090°, G. (unintensified)-150°, G.-161°, W.-164°, R.-166°30′, G.-169°30′, W.-172°30′, R.-180°. Shown from July 20 to May 20.
10792 *C 6021*	Rodogubben.	62° 23.0′ N 17° 36.0′ E	**Fl.W.R.G.** period 3s fl. 0.7s, ec. 2.3s	43 **13**	W. 8 R. 5 G. 4	Black and white tower; 39.	G. shore-180°, W.-232°, R.-252°, G.-270°, W.-347°, R.-015°. Shown from July 20 to May 20.
10796 *C 6023*	Spikarna.	62° 22.0′ N 17° 32.0′ E	**Q.W.R.G.**	33 **10**	W. 6 R. 4 G. 3	White tower.	G. 280°-297°, W.-307°, R.-360°. Shown from July 20 to May 20.
10800 *C 6022*	Gubben.	62° 21.0′ N 17° 34.0′ E	**Oc.W.R.G.** period 8s lt. 6s, ec. 2s	49 **15**	W. 12 R. 10 G. 8	Orange and white tower; 33.	R. 021°-078°, G.-083°, W.-085°, R.-136°, G.-151°30′, W.-153°, R.-180°, G.-203°, W.-207°, R.-230°, G.-250°, W.-313°, R.-317°, G.-320°30′, W.-327°, R.-338°, G.-021°. Shown from July 20 to May 20.
10804 *C 6020*	Astholmsudde.	62° 23.0′ N 17° 44.0′ E	**Iso.W.R.G.** period 8s	46 **14**	W. 14 R. 11 G. 10	White round tower.	G. 213°30′-216°, W.-051°, R.-059°, G.-070°, W.- 072°30′, R.-080°, G.-106°, W.-111°, R.-118°. Shown from July 20 to May 20, 24 hours Nov. 1 to Mar 31.
10805 *C 6020.5*	Aston.	62° 25.6′ N 17° 43.2′ E	**Fl.W.R.G.** period 7.5s	43 **13**	W. 3 R. 4 G. 3	White dome.	W. (unintensified) 100°-180°, G. (unintensified)-205°, G.-228°, R.-280°, G.-315°.
10808 *C 6016*	Skarpudden.	62° 29.0′ N 17° 49.0′ E	**L.Fl.W.R.G.** period 12s	45 **14**	W. 6 R. 4 G. 3	White hut.	G. shore-237°, W.-273°, R.-288°, W.-018°, R.-050°, G.-067°, W.-105°, R.-shore. Shown from July 20 to May 20.
10810 *C 6015*	Vanta Litetsgrund.	62° 29.5′ N 18° 17.2′ E	**Fl.W.** period 3s	62 **19**	9	Black tower, orange top.	
10812 *C 6014*	Storholmen, SW. point of Harnon.	62° 33.0′ N 17° 56.0′ E	**Fl.(2)W.R.** period 6s	30 **9**	W. 6 R. 4	White hut.	W. 323°-014°, R.-067°, W.-186°. Shown from July 20 to May 20.
10820 *C 6012*	**Harnoklubb.**	62° 36.0′ N 18° 03.0′ E	**Mo.(N)W.R.G.** period 16s fl. 2s, ec. 2s fl. 6s, ec. 6s	101 **31**	W. **15** R. 12 G. 10	White octagonal iron hut; 21.	G. 198°-209°, W.-310°30′, R.-326°, W.-033°, R.-038°. Shown from July 20 to May 20, by day Nov. 1 to Mar 31.
10824 *C 6011*	Harno Sodra.	62° 37.0′ N 18° 04.0′ E	**Q.W.**	42 **13**	6	White hut.	Visible 180°-052°. Shown from July 20 to May 20.
10828 *C 6008*	Harnosand Hamn.	62° 38.8′ N 17° 57.7′ E	**Q.W.R.G.**	26 **8**	W. 10 R. 7 G. 6	Red tower, white band; 21.	G. shore-142°, W.-158°, R.-199°, G.-230°, W.-264, R.-shore. Shown from July 20 to May 20.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
	ANGERMANALVEN:						
10832 *C 5988*	-Stromskaten.	62° 40.0′ N 18° 00.0′ E	**Fl.(2)W.R.G.** period 6s	39 **12**	W. 12 R. 9 G. 8	Orange lantern on white base. Floodlit.	G. shore-313°30′, W.-323°30′, R.-063°, G.-155°, W.-174°, R.-shore. Shown from July 20 to May 20.
10834 *C 5988.5*	--SE. point.	62° 38.5′ N 18° 05.4′ E	**Oc.W.** period 6s	95 **29**	9	White tower, black top.	Visible 213°-115°. Seasonal.
10836 *C 5990*	-Valo, NE. point.	62° 44.0′ N 17° 59.0′ E	**Fl.W.R.G.** period 3s	38 **12**	W. 7 R. 5 G. 4	White tower, orange top; 36.	G. shore-157°30′, W.-358°, R.-002°. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
10840 *C 5992*	-Abordso, W. side.	62° 47.0′ N 17° 57.0′ E	**Fl.(2)W.G.** period 6s	39 **12**	W. 10 G. 6	White octagonal hut, orange top.	W. shore-066°, G.-143°30′, W.-shore. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
10844 *C 5994*	-Hornoholmen.	62° 49.0′ N 17° 55.0′ E	**Fl.(2)W.** period 6s	36 **11**	6	Octagonal tower, orange square.	Shown from opening of navigation to May 20 and from July 20 to close of navigation. **Radar reflector.**
10848 *C 5998*	-Sprangsviken, W. side of channel.	62° 52.0′ N 17° 54.0′ E	**Fl.W.** period 3s	46 **14**	10	Structure, lantern on orange daymark. Floodlit.	Shown from opening of navigation to May 20 and from July 20 to close of navigation. **Radar reflector.**
10850 *C 6000.6*	-Svano Sodra.	62° 53.0′ N 17° 52.0′ E	**Q.W.R.G.**	49 **15**	W. 7 R. 5 G. 4	Mast, red and white rectangular daymark; 39.	G. 320°-328°, W.-331°30′, R.-346°, W. (unintensified)-shore.
10850.5	-Sandobron RACON.	62° 53.1′ N 17° 53.1′ E			2		
10851 *C 6001*	Svanon Isle, E. side.	62° 54.1′ N 17° 52.0′ E	**Iso. W.R.G.** period 4s	20 **6**	W. 9 R. 7 G. 6	Framework tower.	W. shore-090°, R.-148°, G.-160°30′, W.-169°, R.-190°, G.-shore. Shown July 20 to May 20.
10852	-Kapellbommen.	62° 56.0′ N 17° 47.0′ E	**Q.R.**	7 **2**		Lantern on float.	**Radar reflector:** painted red and yellow. Shown from July 20 to May 20.
10856 *C 6004*	-Litano, E. side of channel.	62° 58.1′ N 17° 48.2′ E	**Fl.(2)W.R.G.** period 6s	14 **4**	W. 7 R. 5 G. 4	White octagonal hut.	G. 312°-320°30′, W.-329°30′, R.-355°, W. (unintensified)-085°, G.-111°30′, W.-116°30′, R.-131°, G.-164°. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
10868 *C 5982*	Karingsbergsudden.	62° 47.7′ N 18° 11.5′ E	**Fl.(2)W.R.G.** period 6s	30 **9**	W. 8 R. 6 G. 5	Orange structure.	G. 250°-253°30′, W.-278°30′, R.-008°, G.-048°30′, W.-053°, R.-062°. Seasonal.
10872 *C 5983.4*	Valsudde.	62° 46.1′ N 18° 06.8′ E	**Q.W.**	49 **15**	6	Metal framework tower, orange daymark.	Shown from July 20 to May 20. **Radar reflector.**
10876 *C 5993.6*	Hornon.	62° 48.0′ N 17° 58.0′ E	**Fl.(4)W.R.G.** period 12s	43 **13**	W. 6 R. 4 G. 4	Metal framework tower, orange daymark.	G. 292°-296°30′, W.-300°, R.-306°. Shown from July 20 to May 20.
10878 *C 5993.3*	Hogakustenbron Bridge.	62° 47.9′ N 17° 56.3′ E	**2 F.W.**			Center of span.	One light visible from SE. One light visible from NW.
10878.1 *C 5993.4*	-SW. side.	62° 47.6′ N 17° 55.9′ E	**Fl.R.** period 3s	131 **40**	3	On bridge.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10878.2 *C 5993.5*	-NE. side.	62° 48.1′ N 17° 56.7′ E	**Fl.G.** period 3s	131 **40**	3	On bridge.	
10880 *C 5993*	Veda.	62° 47.7′ N 17° 56.1′ E	**Fl.W.R.G.** period 3s	38 **12**	W. 10 R. 7 G. 6	White tower, upper part orange; 36. Floodlit.	R. 129°-136°, G.-143°, W.-148°, R.-154°, G.-258°, W.-279°30′, R.-303°, G.-328°, W.-333°, R.-348°.
10882	-Hogaskusten RACON.	62° 47.7′ N 17° 56.0′ E	**M(– –)** period 60s				
10884 *C 6001.4*	Frano.	62° 54.0′ N 17° 52.0′ E	**I.V.Q.W.R.G.** period 6s	39 **12**	W. 9 R. 7 G. 6	Structure, orange square daymark. Floodlit.	G. shore-172°, W.-187°, R.-209°, G.-225°, R.-000°. Shown from July 20 to May 20.
10888 *C 5989*	Sannasundet.	62° 42.2′ N 17° 59.8′ E	**Q.W.R.G.**	36 **11**	W. 10 R. 7 G. 6	Structure, orange square daymark.	G. shore-183°30′, W.-356°30′, R.-shore. Seasonal. **Radar reflector.**
10890 *C 5980*	**Hogbonden.**	62° 52.0′ N 18° 28.7′ E	**Oc.W.R.G.** period 10s	246 **75**	W. **18** R. **15** G. 13	White tower; 46.	G. 194°30′-202°, W.-205°, R.-216°, G.-225°, W.-047°30′, R.-080°. Shown from Nov. 1 to Mar. 31.
10891 *C 5979.6*	Algsjo.	62° 53.3′ N 18° 27.5′ E	**Fl.W.R.G.** period 3s	46 **14**	W. 5 R. 3 G. 3	Orange lantern.	G. shore-215°, W.-228°, R.-236°, G.-240°, W.-293°, R.-300°, G.-356°, W.-003°, R.-shore. Shown from July 20 to May 20.
10892 *C 5978*	Ytternasan.	62° 57.8′ N 18° 33.4′ E	**Iso.W.R.G.** period 4s	45 **14**	W. 13 R. 10 G. 9	White tower, black band; 26.	G. shore-192°30′, W.-210°, R.-237°, G.-267°, W.-288°, R.-307°30′, G.-341°, W.- 005°, R.-shore. Shown from July 20 to May 20.
10896 *C 5979*	Gnaggen, on rock, 2.9 kilometers S. of Sodra Ulvon.	62° 57.0′ N 18° 37.0′ E	**Q.W.R.G.**	33 **10**	W. 6 R. 4 G. 3	White hut.	G. 092°-141°, W.-172°, R.-208°, G.-235°, W.-024°, R.-092°. Shown from July 20 to May 20.
10900 *C 5976*	Flasan, E. entrance to Ulvohamn.	63° 00.8′ N 18° 41.3′ E	**Fl.(3)W.R.G.** period 9s	43 **13**	W. 8 R. 5 G. 4	Concrete structure, white octagonal hut, black band; 21.	G. 174°-190°30′, W.-192°, R.-202°, G.-213°30′, W.-338°, R.-348°, G.-358°, W.-008°30′, R.-050°, R. (unintensified)-099°, W. (unintensified)-174°. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
10904 *C 5977*	Ulvohamn Range, front.	63° 01.4′ N 18° 39.7′ E	**F.R.**	33 **10**	3	Post.	Shown from July 20 to May 20.
10908 *C 5977.1*	-Rear, 40 meters 336° from front.	63° 01.2′ N 18° 39.7′ E	**F.R.**	41 **12**	3	Post.	
10912 *C 5975*	Askaret.	63° 02.0′ N 18° 41.0′ E	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 **10**	W. 6 R. 4 G. 4	White cupola on warehouse.	G. shore-059°30′, W.-060°30′, R.-188°, G.-204°, R.-222°, G.-236°, W.-239°, R.-244°, G.-265°, W.-309°, R.-shore. Shown from July 20 to May 20.
10913 *C 5977.2*	Ulvosundet, N. side.	63° 01.0′ N 16° 38.1′ E	**Fl.W.R.G.** period 3s	11 **3**	W. 4 R. 2 G. 2	White lantern on pedestal.	G. 240°-251°, W.-255°, R.-323°, G.-357°, W.-003°, R.-018°. Shown from July 20 to May 20.
10914 *C 5977.3*	-E. side.	63° 00.8′ N 16° 38.2′ E	**Iso.W.R.G.** period 4s	12 **4**	W. 3 R. 2 G. 1	White lantern on pedestal.	R. 004°-028°, G.-048°, W.-218°, R.-245°. Shown from July 20 to May 20.
10915 *C 5977.4*	-S. side.	63° 00.5′ N 16° 37.8′ E	**Q.W.R.G.**	22 **7**	W. 4 R. 3 G. 2	Lantern on orange pedestal.	G. 050°-063°, W.-071°, R.-227°, G.-245°. Shown from July 20 to May 20.
10916 *C 5974*	Rone Flase.	63° 04.4′ N 18° 38.4′ E	**Fl.W.R.G.** period 3s	42 **13**	W. 10 R. 7 G. 6	Tower, red band; 41.	R. 176°-186°, G.-213°, W.-217°, R.-239°, G.-242°30′, W.-248°, R.-276°30′, G.-016°, W.-022°30′, R.-038°. Shown from July 20 to May 20.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10920 *C 5973*	Trysundaon.	63° 08.5′ N 18° 45.4′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	32 **10**	W. 7 R. 5 G. 4	Green tower; 24.	G. shore-016°, W.-036°, R.-057°30′, G.-111°, W.-116°30′, R.-155°, G.-209°, W.-219°30′, R.-224°, G.-shore. Shown from July 20 to May 20.
10924 *C 5972.4*	Kopmanholmen Range, front.	63° 10.5′ N 18° 35.1′ E	**F.R.**	23 **7**	5	White triangular daymark, red border, point up.	Marks outfall pipeline.
10925 *C 5972.41*	-Rear, 35 meters 250° from front.	63° 10.6′ N 18° 35.2′ E	**F.R.**	33 **10**	5	White triangular daymark, red border, point down.	
10928 *C 5952*	**Skagsudde.**	63° 11.3′ N 19° 01.0′ E	**L.Fl.W.** period 20s fl. 2s, ec. 18s	126 **38**	**21**	White tower, red band on white house; 85.	Shown by day from November 1 to March 31. **Nautophone:** 2 bl. ev. 30s.
10932 *C 5954*	Skaghallen.	63° 10.9′ N 19° 00.2′ E	**Q.W.R.G.**	36 **11**	W. 5 R. 3 G. 3	Black tower, white top; 20.	G. 186°-291°, W.-117°, R.-186°. Shown from July 20 to May 20. **Radar reflector.**
	RACON		**M(– –)** period 30s		10		
10936 *C 5951*	Skags Flasor.	63° 13.0′ N 19° 05.0′ E	**Fl.(3)W.R.G.** period 9s	20 **6**	W. 8 R. 6 G. 5	White hut, red band.	W. 197°-203°30′, R.-215°, G.-219°30′, W.-224°30′, R.-235°, G.-277°, W.-307°, R.-326°, G.-348°, W.-358°, R.-035°, G.-shore. Shown from July 20 to May 20.
10940 *C 5953*	Alloviken, W. side.	63° 13.0′ N 19° 02.0′ E	**Fl.(2)W.R.G.** period 6s	17 **5**	W. 8 R. 6 G. 5	White octagonal hut, concrete base.	G. shore-328°30′, W.-333°, R.-shore. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
	ORNSKOLDSVIK APPROACH:						
10944 *C 5970*	-Grisslan Norra Range, front.	63° 10.9′ N 18° 53.3′ E	**F.G.**	40 **12**	5	Post.	Fishing lights.
10948 *C 5970.1*	- -Rear, 120 meters 226° 18' from front.	63° 10.8′ N 18° 53.2′ E	**F.G.**	60 **18**	5	Post.	
10952 *C 5971*	-Grisslan Ostra Range, front.	63° 10.9′ N 18° 53.3′ E	**F.R.**	41 **13**	6	Post.	Fishing lights.
10956 *C 5971.1*	- -Rear, 130 meters 281° 48' from front.	63° 10.8′ N 18° 53.2′ E	**F.R.**	71 **22**	6	Post.	
10960 *C 5960*	**-Raskarson**.	63° 12.0′ N 18° 55.0′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	78 **24**	W. **15** R. 12 G. 10	White octagonal hut, concrete base.	G. 148°-163°, W.-176°, R.-283°, G.-299°, W.-340°, R.-000°. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
10964 *C 5962*	-Skommarskaten.	63° 12.3′ N 18° 53.0′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 10 R. 7 G. 6	White octagonal hut, red band, concrete base; 22.	G. 190°-203°, W.-208°, R.-220°, R. (unintensified)-278°, G. (unintensified)-288°, W. (unintensified)-291°, R. (unintensified)-322°, G. (unintensified)-030°, G.-044°, W.-048°, R.-052°. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
10968 *C 5966*	-Bonassund.	63° 15.0′ N 18° 46.3′ E	**Q.W.R.G.**	12 **4**	W. 10 R. 7 G. 6	White octagonal hut, red band, circular granite base.	G. 136°-149°, W.-152°, R.-172°, W. (unintensified)-267°, G.-284°, W.-286°, R.-shore. Shown July 20 to May 20.
10970 *C 5967*	-Alfredshem N. Range, front.	63° 15.9′ N 18° 42.8′ E	**F.G.** (neon)	7 **2**		White triangular daymark, green border, point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
10970.1 *C 5967.1*	- -Rear, 150 meters 247°18′ from front.	63° 15.9′ N 18° 42.6′ E	**F.G.** (neon)	20 **6**		White triangular daymark, green border, point down.	
10971 *C 5967.3*	-Alfredshem S. Range, front.	63° 15.8′ N 18° 42.8′ E	**F.R.** (neon)	7 **2**		White triangular daymark, red border, point up.	
10971.1 *C 5967.31*	- -Rear, 150 meters 247°36′ from front.	63° 15.8′ N 18° 42.6′ E	**F.R.** (neon)	20 **6**		White triangular daymark, red border, point down.	
10972 *C 5968*	-Ornskoldsvik, W. pier, head.	63° 17.2′ N 18° 42.7′ E	**Iso.R.** period 3s	33 **10**	8	Post.	Visible 284°-359°. Shown from July 20 to May 20.
10976	Sjalbadan Beacon, RACON	63° 15.2′ N 19° 12.1′ E	**G(– – •)**		12		
10980 *C 5946*	Husum, on Aggo.	63° 18.0′ N 19° 08.0′ E	**Iso.W.R.G.** period 4s	43 **13**	W. 11 R. 9 G. 7	White octagonal iron tower, red band, on concrete base; 24.	R. shore-188°, G.-204°, W.-222°, R.-252°, G.-269°, W.-279°, R.-291°, G.-301°, W.-305°, R.-315°, G.-324°. Seasonal.
10984 *C 5948*	Dombackso Range, front.	63° 19.7′ N 19° 09.3′ E	**F.R.**	30 **9**	10	Post, white triangular daymark, point up, red border.	Shown from opening of navigation to May 20 and from July 20 to close of navigation.
10988 *C 5948.1*	-Rear, 125 meters 006°18′ from front.	63° 19.7′ N 19° 09.1′ E	**F.R.**	49 **15**	10	Post, white triangular daymark, point down, red border.	
10992 *C 5944*	Blagrundet.	63° 27.0′ N 19° 26.0′ E	**Fl.W.R.G.** period 6s	16 **5**	W. 6 R. 4 G. 3	Galvanized structure.	G. shore-031°, W.-035°, R.-shore. Shown from July 20 to May 20.
10996 *C 5928*	Storbadan, SE. side.	63° 25.0′ N 19° 36.0′ E	**Fl.(3)W.R.G.** period 12s	56 **17**	W. 10 R. 7 G. 6	White tower, black band; 52.	W. 178°-222°, R.-252°, G.-270°30′, W.-273°30′, R.-292°30′, G.-310°, W.-329°30′, R.-346°, G.-355°30′, W.-38°30′, R.-059°, G.-065°.
11000 *C 5925.4*	Villinsgrundet.	63° 19.1′ N 19° 25.4′ E	**L.Fl.W.** period 12s	62 **19**	8	Red tower, white top on gray base; 65.	
11004 *C 5925*	Norra Langrogrundet.	63° 19.2′ N 19° 41.3′ E	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	58 **18**	W. 8 R. 6 G. 5	Black tower, white band and lantern, gray base; 71.	G. 021°-066°, W.-185°, R.-206°, G.-227°, W.-233°, R.-271°, G.-281°, W.-350°, R.-021°. **Whistle.**
	RACON		**O(– – –)** period 30s		**15**		
11016 *C 5940*	-Rundvik.	63° 32.0′ N 19° 28.0′ E	**F.R.**	13 **4**	4	Concrete pile.	Shown from July 20 to May 20.
11020 *C 5938*	-Kyrkhalludden.	63° 28.7′ N 19° 36.6′ E	**Iso.W.R.G.** period 3s	26 **8**	W. 10 R. 8 G. 7	White tower, red band; 25.	G. shore-355°30′, W.-358°, R.-002°30′, G.-020°, R.-131°, G.-shore. Shown from July 20 to May 20.
	JARNAS HAMN:						
11024 *C 5936*	-Jarnas Sando, on Sando.	63° 27.9′ N 19° 36.9′ E	**Fl.(2)W.R.G.** period 3s	22 **7**	W. 10 R. 10 G. 9	White octagonal hut, red band.	G. shore-359°, W.-002°, R.-112°, G.-151°, W.-152°30′, R.-shore. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
11028 *C 5932*	-Outer Range, front.	63° 26.0′ N 19° 41.0′ E	**F.R.**	22 **7**	9	Post, white triangular daymark, point up.	Shown from July 20 to May 20.
11032 *C 5932.1*	- -Rear, 275 meters 000° from front.	63° 26.5′ N 19° 40.6′ E	**F.R.**	43 **13**	9	Post, white triangular daymark, point down.	
11036 *C 5934*	-Inner Range, front.	63° 26.6′ N 19° 40.3′ E	**F.G.**	36 **11**	8	White post, triangular daymark, point up.	Shown from July 20 to May 20.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11040 *C 5934.1*	- -Rear, 125 meters 322°30′ from front.	63° 26.6′ N 19° 40.2′ E	**F.G.**	56 **17**	8	White post, triangular daymark, point down.	
11044 *C 5923*	Sydostbrotten, on Vernersgrund.	63° 20.3′ N 20° 10.8′ E	**Fl.(3)W.** period 20s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	112 **34**	9	Orange tower, black bands, gray base; 112.	
			Q.W.	82 **25**	3		
	RACON		**B(– • • •)** period 30s		**17**		
11048 *C 5926*	Tjaruskarssund Range, front.	63° 28.0′ N 19° 46.0′ E	**F.G.**	16 **5**		Lantern on posts, white diamond daymarks.	Fishing lights.
11052 *C 5926.1*	-Rear, 145 meters 003° from front.	63° 28.0′ N 19° 46.0′ E	**F.G.**	33 **10**		Post, white diamond.	
11056 *C 5920*	Bonden.	63° 26.0′ N 20° 02.0′ E	**Fl.W.R.G.** period 6s fl. 0.7s, ec. 5.3s	115 **35**	W. 13 R. 10 G. 9	White round concrete tower, black band; 67.	R. 097°30′-107°, G. (unintensified)-170°, G.-183°, W.-199°, R.-215°30, G.-244°, W.-249°, R.-008°30′, G.-020°30′, W.-027°, R.-044°, G.-058°, W.-063°, R.-081°, G.-097°30′.
11058 *C 5903*	Logaren.	63° 32.9′ N 20° 00.7′ E	**Fl.W.R.G.** period 3s	61 **19**	W. 8 R. 6 G. 5	White tower, black base; 64.	G. 131°-165°, R.-206°, G.-240°, W.-243°, R.-257°, G.-291°, W.-322°, R.-131°. Shown July 7 to May 20. **Radar reflector.**
11060 *C 5919*	Snoan Island.	63° 29.0′ N 19° 54.0′ E	**Fl.(2)W.R.G.** period 6s	16 **5**	W. 6 R. 4 G. 3	White hut.	R. shore-208°, G.-262°, W.-304°30′, R.-358°, G.-028°. Fishing light. Shown May 1 to May 20 and July 20 to Nov. 15.
11064 *C 5918*	Yttre Mehallan Islet.	63° 32.0′ N 19° 51.0′ E	**Q.R.G.**	14 **4**	R. 3 G. 2	White hut.	G. 138°-151°, R.-180°, obsc.-272°, R.-308°, G.-333°, R.-002°. Shown May 1 to May 20 and July 20 to Nov. 15. Fishing light.
	NORRBYSKAREN HARBOR:						
11068 *C 5910*	-Norrbyskar.	63° 32.6′ N 19° 50.2′ E	**Iso.W.R.G.** period 4s	16 **5**	W. 6 R. 4 G. 3	White tower, black base; 20.	G. 001°-004°, W.-006°, R.-018°, G.-026°, W.-032°, R.-050°, obsc.-097°, G. (unintensified)-106°, obsc.-172°, G. (unintensified)-207°, W. (unintensified)-211°, R. (unintensified)-225°, G. (unintensified)-242°.
11076 *C 5912*	-Bedragaren Rock.	63° 34.0′ N 19° 51.0′ E	**Q.R.**	11 **3**	1	Black skeleton structure.	Shown from Sept. 15 to close of navigation.
11100 *C 5904*	-Bjorno entrance Range, front.	63° 36.0′ N 19° 53.0′ E	**Iso.W.R.G.** period 4s	33 **10**	W. 11 R. 8 G. 7	Skeleton structure, white triangular daymark, red stripe.	R. shore-283°, G.-302°, W.-307°, R.-shore.
11104 *C 5904.1*	- -Rear, 1,765 meters 305°30′ from front.	0° 00.0′ 0° 00.0′	**Iso.W.** period 4s	85 **26**	11	Skeleton structure, white square daymark, red cross.	Visible on range line only. Synchronized with front.
11124 *C 5902*	Norrmjole.	63° 39.0′ N 20° 08.0′ E	**F.W.R.G.**	11 **3**	W. 4 R. 2 G. 2	White wooden hut on substructure.	G. 310°-022°, W.-028°, R.-040°. Shown from Aug. 1 to close of navigation. Fishing light.
11128 *C 5870*	**Holmogadd.**	63° 35.7′ N 20° 45.4′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	70 **21**	**25**	Round gray granite tower; 68.	Shown 24 hours in low visibility Nov. 1 to Mar. 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
	UMEA APPROACH:						
11132 *C 5880*	-Gunvorsgrund.	63° 29.0′ N 20° 27.0′ E	**Fl.(3)W.R.G.** period 9s	72 **22**	W. 9 R. 6 G. 5	Black and white tower, white lantern, gray base; 75.	R. 036°-064°, G.-075°, W.-083°, R.-171°, G.-186°, W.-036°.
	-RACON		**G(– – •)** period 30s		**16**		
11136 *C 5882*	-Storbrannihgen.	63° 38.0′ N 20° 22.0′ E	**Fl.(3)W.R.G.** period 9s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 4.3s	33 **10**	W. 8 R. 5 G. 4	Tower, white above red, gray base; 26.	G. 070°-144°, W.-146°, R.-205°, G.-301°, R.-070°. Shown from July 20 to May 20. **Radar reflector.**
11140 *C 5881*	**-Vaktaren.**	63° 37.0′ N 20° 25.0′ E	**L.Fl.(2)W.R.G.** period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	66 **20**	W. 10 R. 7 G. 6	White and orange tower, black base; 69.	W. 077°-080°, R.-107°, G.-139°, R.-146°, G.-203°, R.-255°, G.-292°, W.-313°, R.-317°, G.-321°, W.-327°, R.-350°, G.-077°.
			4Q.Y.	33 **10**	3		
	-RACON		**K(– • –)** period 30s		5		
11144 *C 5878.9*	-Petlandskar, Sodra, 115 meters from center light, rear.	63° 39.4′ N 20° 23.7′ E	**Q.W.**	45 **14**	8	Wooden framework structure.	Visible on range line only. In line 268° with center light.
11148 *C 5879*	- -Center, Ostra.	63° 39.0′ N 20° 24.0′ E	**Iso.W.** period 4s	29 **9**	12	Wooden framework structure.	Visible on range line only. Intensified on range 268°.
11152 *C 5879.1*	- -Front, Vastra, 110 meters from center light.	63° 39.4′ N 20° 23.7′ E	**Q.W.**	17 **5**	8	Wooden framework structure.	Visible on range line only. In line 112°30′ with center light.
11156 *C 5887*	-Lillbaden.	63° 39.0′ N 20° 21.0′ E	**Fl.W.R.G.** period 3s	21 **6**	W. 6 R. 4 G. 3	Structure, upper half white, lower half red.	G. 140°-159°30′, W.-164°, R.-254°, G.-271°, W.-291°, R.-310°. **Radar reflector** (orange colored).
11160 *C 5887.5*	-Revet.	63° 39.0′ N 20° 21.0′ E	**Fl.(2)W.R.G.** period 3s	49 **15**	W. 10 R. 7 G. 6	White tower, green band, gray base; 52.	G. 014°-146°, W.-164°, R.-264°, G.-319°, W.-322°, R.-014°.
11164 *C 5884*	-Bredskarssund on Obbola, front.	63° 40.0′ N 20° 19.0′ E	**Q.W.**	24 **7**	13	White round tower; 24.	Visible 220°-310°. Intensified on range. Synchronized with rear.
11168 *C 5884.1*	- -Rear, 225 meters 000°30′ from front.	63° 39.8′ N 20° 18.8′ E	**Q.W.R.G.**	52 **16**	W. 13 W. 10 R. 7 G. 6	White tower on stone foundation.	G. 250°-260°, W.-266°, R.-279°, G.-284°. Intensified on range.
11172 *C 5886*	**-Bredskar.**	63° 40.0′ N 20° 20.0′ E	**Iso.W.R.G.** period 4s	16 **5**	W. **19** W. 12 R. 9 G. 8	Framework tower, white rectangular daymark.	W. intensified on range. G. 170°30′-178°30′, W.-182°30′, R.-201°30′. **Radar reflector,** about 65 yards NNE. Synchronized with rear. Shown by day Nov. 1 to Mar. 31.
11176 *C 5886.1*	- -Rear, 250 meters 318° from front.	63° 39.7′ N 20° 19.5′ E	**Iso.W.** period 4s	43 **13**	**15**	Framework tower, black band and white lantern, white rectangular daymark.	Shown by day Nov. 1 to Mar. 31.
11180 *C 5888*	**-Fjardgrund.**	63° 40.0′ N 20° 21.0′ E	**Oc.(2)W.R.G.** period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	59 **18**	W. **18** R. **15** G. 13	White tower, red band; 69. Floodlit.	G. 307°-329°30′, W.-333°, R.-342°, obsc.-008°, G. (unintensified)-018°, obsc.-091°, G.-110°, R. (unintensified)-120°. Shown by day from Nov. 1 to Mar. 31.
11184 *C 5889*	-Hillskar Range, front.	63° 40.8′ N 20° 20.6′ E	**Iso.R.** period 3s	33 **10**	10	White latticework mast, white triangular daymark, point up, red border.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11188 *C 5889.1*	--Rear, 301 meters 335° from front.	63° 40.9′ N 20° 20.4′ E	**Iso.R.** period 3s	49 **15**	10	White lattice work mast, white triangular daymark, red border, point down.	
11192 *C 5890.6*	--Eastern Approach Range, front.	63° 41.4′ N 20° 20.9′ E	**F.G.**	89 **27**	4	Mast, white rectangle, green stripe.	
11196 *C 5890.61*	---Rear, 306 meters 344°42′ from front.	63° 41.5′ N 20° 20.6′ E	**F.G.**	105 **32**	4	Mast, white rectangle, green stripe.	
11200 *C 5892*	-Langhallsudde Range, front	63° 42.0′ N 20° 20.0′ E	**Oc.W.R.G.** period 5s lt. 3s, ec. 2s	75 **23**	W. 13 R. 10 G. 9	White shed, red triangular daymark, black border, white stripe, point up; 18.	R. shore-203°, G.-222°30′, R.-242°, G.-250°, W.-275°, R.-315°30′, G.-353°30′, W.-357°30′, R.-017°30′, G.-shore.
11204 *C 5892.1*	--Obbola Sodahus, rear, 280 meters 355° from front.	63° 42.0′ N 20° 19.5′ E	**F.R.**	98 **30**	13	Red triangle, white stripe, point down.	
11208 *C 5895*	-Patholmsviken.	63° 42.0′ N 20° 22.0′ E	**Q.W.R.G.**	16 **5**	W. 5 R. 4 G. 3	Red triangular daymark.	G. shore-340°, R.-349°, G.-017°, W.-022°, R.-shore. Daymark in line 020° 470 yards from light.
11212 *C 5894*	-Umea Uthamn Range, front.	63° 42.0′ N 20° 21.0′ E	**F.R.**	62 **19**	8	Orange triangular daymark, point up.	Shown from July 20 to May 20.
11216 *C 5894.1*	--Rear, 45 meters 034°48′ from front.	63° 42.1′ N 20° 21.0′ E	**F.R.**	82 **25**	8	White post, orange triangular daymark, point down.	
11220 *C 5897*	-Obbola Kablar Range, front.	63° 42.4′ N 20° 19.9′ E	**F.R.**	26 **8**	3	Post, cable daymark.	Shown from July 20 to May 20.
11224 *C 5897.1*	--Rear, 268° from front.	63° 42.5′ N 20° 19.5′ E	**F.R.**	73 **22**	3	On building, cable daymark.	
11228 *C 5891.5*	-Bredviken.	63° 41.0′ N 20° 18.0′ E	**Q.W.R.G.**	12 **4**	W. 5 R. 4 G. 3	Lantern on post.	G. shore-248°, W.-271°, R.-287°, G.-296°, W.-304°, R.-320°, G.-337°, R.-shore. Occasional.
11232 *C 5898*	-Tuvan Range, front.	63° 45.0′ N 20° 19.0′ E	**F.R.**	12 **4**	12	Perch, white triangular daymark, black band.	The channel to Umea above Tuvan is marked by range beacons showing W., R., and G. lights of characteristic F., Fl. and Oc.
11236 *C 5898.1*	--Rear, 125 meters 347° from front.	63° 44.9′ N 20° 19.1′ E	**F.R.**	23 **7**	12	Perch, white triangular daymark, point down, black band.	Synchronized with front.
11240 *C 5876*	Vastra Kvarken Rofagern Fishing Range, front.	63° 44.0′ N 20° 32.0′ E	**F.R.**	13 **4**		Post.	Fishing lights. Shown as required.
11244 *C 5876.1*	-Rear, 140 meters 353° from front.	63° 44.2′ N 20° 32.3′ E	**F.R.**	29 **9**		Post.	
11248 *C 5874*	**Nordvalen.**	63° 32.2′ N 20° 46.5′ E	**Iso.W.R.G.** period 8s	80 **24**	W. **17** R. **17** G. **16**	Black tower, orange band and lantern, gray base; 85. Floodlit. Helicopter platform.	W. 035°-040°, R.-052°, G.-057°, G. (13M)-135°, G.-139°, R.-145°, R. (13M)-226°, R.-231°, G.-246°54′, W.-258°, R.-285°, G.- 289°, G. (12M)-335°, G. (15M)-341°, G. (13M)-028°, G.-035°. Al.R.G. on bearing 139°, F.G. on 338°. Shown by day Nov. 1 to Mar. 31.
	RACON		**N(– •)** period 30s		**15**		
11252	Jagaroren RACON.	63° 40.8′ N 20° 55.5′ E	**OE(– – – •)** period 30s		**15**		
11256 *C 5856*	**Stora Fjaderagg.**	63° 48.0′ N 21° 00.0′ E	**L.Fl.(3)W.R.G.** period 20s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 10s	113 **34**	W. **16** R. 13 G. 12	White round stone tower; 44.	G. 097°-132°30′, W.-144°30′, R.-170°30′, G.-182°, W.-187°, R.-191°30′, G.-201°30′, W.-336°, R.-358°, G.-020°. Shown by day Nov. 1 to Mar. 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11260 *C 5858*	Norra Kvarken, Gasflotten Fishing Range, front.	63° 47.0′ N 20° 57.0′ E	**F.R.**	23 **7**		Post, white triangular daymark, point up.	Shown as required. Fishing light.
11264 *C 5858.1*	- -Rear, 150 meters 325° from front.	63° 47.4′ N 20° 57.3′ E	**F.R.**	46 **14**		Post, white triangular daymark, point down.	
11268 *C 5860*	Byviken.	63° 48.0′ N 20° 52.0′ E	**Q.W.R.G.**	26 **8**	W. 9 R. 6 G. 5	Pole; 18.	R. shore-168°, G.-187°, W.-195°, R.-205°. Shown from Aug. 1 to close of navigation season.
11272 *C 5864*	**Bergudden.**	63° 47.4′ N 20° 50.0′ E	**Iso.W.R.G.** period 6s	58 **18**	W. **18** R. **15** G. 13	Brown wooden tower, white band on SW. side; 58.	G. shore-028°, W.-038°, R.-051°30′, G.-113°, R.-188°30′, G.-197°, W.-206°, R.-shore. Shown by day Nov. 1 to Mar. 31.
11276 *C 5862*	Holmo Cable Range, front.	63° 48.0′ N 20° 52.0′ E	**F.R.**	33 **10**	7	White post, white triangular daymark, red border, point up.	Shown from July 20 to May 20.
11280 *C 5862.1*	-Rear, 240 meters 120° from front.	63° 48.2′ N 20° 52.2′ E	**F.R.**	52 **16**	7	White post, white triangular daymark, point down, red border.	
11282 *C 5866*	Oston Range, front.	63° 49.4′ N 20° 42.3′ E	**F.W.**	6 **2**	4	Lantern on post, white triangular daymark.	Shown during navigation season only.
11282.5 *C 5866.1*	-Rear, 30 meters 279° from front.	63° 49.4′ N 20° 42.3′ E	**F.W.**	10 **3**	4	Lantern on post, white triangular daymark.	Shown during sailing season only.
11284 *C 5854*	Norrfjarden Outer Range, front.	63° 52.0′ N 20° 45.0′ E	**Q.R.**	30 **9**	13	Yellow triangular daymark, red border, point up.	Shown from July 20 to May 20.
11288 *C 5854.1*	-Rear, 175 meters 284° from front.	63° 51.5′ N 20° 44.4′ E	**Fl.R.** period 2s	46 **14**	13	White triangular daymark, point down, red border.	
11292 *C 5855*	Norrfjarden Inner Range, front.	63° 51.8′ N 20° 43.8′ E	**Q.G.**	21 **6**	13	White triangular daymark, point up, black border.	Shown from July 20 to May 20.
11296 *C 5855.1*	-Rear, 55 meters 309° from front.	63° 51.8′ N 20° 43.8′ E	**Fl.G.** period 2s	31 **9**	13	White triangular daymark, point down, black border.	
11300 *C 5848*	**Rataskar.**	64° 00.0′ N 20° 55.0′ E	**Mo.(D)W.R.G.** period 20s fl. 6s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 6s	86 **26**	W. **17** R. 14 G. 13	White tower and hut; 26.	R. shore-215°, G.-237°, W.-256°, R.-270°, G.-280°, W.-332°, R.-006°, G.-011°30′, R.-shore. Shown from July 1 to June 10. Shown by day Nov. 1 to Mar. 31.
11304 *C 5852*	Ratan Sodra, W. side of channel.	63° 59.0′ N 20° 54.0′ E	**Fl.W.R.G.** period 3s	30 **9**	W. 10 R. 7 G. 6	White hut.	G. (unintensified) shore-157°, W. (unintensified)-167°, R. (unintensified)-313°, R.-321°, G.-340°, W.-343°, R.-358°. Shown from July 20 to May 20.
11308 *C 5847*	Rata Storgrund.	63° 59.2′ N 21° 06.8′ E	**Fl.(2)W.R.G.** period 6s	52 **16**	W. 9 R. 6 G. 5	Tower, upper half white, lower half red; 57.	G. 035°-040°, W.-047°, R.-084°, G.-164°, R.-187°, G.-220°, W.-005°, R.-035°. **Radar reflector.**
11312 *C 5844*	Sikea, W. side of entrance.	64° 08.0′ N 21° 00.0′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 6 R. 4 G. 3	White octagonal hut, red band.	W. (unintensified) 179°-269°, G.-290°, W.-304°30′, R.-358°. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
11316 *C 5846*	-Hamn Range, front.	64° 10.0′ N 20° 59.0′ E	**F.R.**	27 **8**	5	Post on storehouse, white triangular daymark.	Shown from July 20 to May 20.
11320 *C 5846.1*	-Rear, 420 meters 336° from front.	64° 09.5′ N 20° 58.4′ E	**F.R.**	49 **15**	5	Post on storehouse, white triangular daymark.	
11324 *C 5840*	Yttre Vannskar.	64° 10.0′ N 21° 08.0′ E	**Fl.(3)W.R.G.** period 9s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 4.3s	48 **15**	W. 9 R. 7 G. 6	Concrete and iron tower, black and white spiral bands upper part red; 37.	G. 219°30′-223°30′, W.-228°30′, R.-237°30′, G.-247°30′, W.-354°, R.-004°, G.-015°, W.-022°, R.-040°, R. (unintensified)-050°, W. (unintensified)-084°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11328 *C 5833*	Kallviksklubben.	64° 18.0′ N 21° 23.0′ E	**Q.W.R.G.**	30 **9**	W. 6 R. 4 G. 3	White structure, white base.	G. 178°-243°, W.-284°, R.-298°, G.-309°, W.-000°, R.-062°, G.-067°. Fishing light shown July 20 to May 20.
11332 *C 5836*	Krakangersfjarden Range, front.	64° 18.0′ N 21° 16.0′ E	**F.R.**	33 **10**	5	Wooden mast.	Visible on range line only. Shown from July 20 to May 20.
11336 *C 5836.1*	-Rear, 220 meters 341° from front.	64° 18.2′ N 21° 14.9′ E	**F.R.**	59 **18**	5	Wooden mast.	
11340 *C 5834*	Munkvik.	64° 19.0′ N 21° 21.0′ E	**F.W.R.G.**	21 **6**	W. 4 R. 2 G. 2	White lantern on red structure.	G. 255°-277°, W.-295°, R.-326°, obsc.-333°, G.-341°, W.-345°, R.-shore. Fishing light. Shown on request.
11344 *C 5833.3*	Kallviken Range, front.	64° 20.0′ N 21° 22.0′ E	**F.R.**	21 **6**	5	Pole, white triangular daymark, point up.	Shown from July 20 to Dec. 31.
11348 *C 5833.31*	-Rear, 110 meters 344° from front.	64° 19.8′ N 21° 22.5′ E	**F.R.**	33 **10**	5	Pole, white triangular daymark, point down.	Shown from July 20 to Dec. 31.
11352 *C 5832*	Blackkallen.	64° 20.0′ N 21° 31.0′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	41 **12**	W. 11 R. 8 G. 7	White circular concrete and iron tower, black band; 42.	G. 200°-210°, W.-214°, R.-222°, G.-229°, W.-340°, R.-022°, G.-039°, W.-046°, R.-084°, W. (unintensified)- 200°. Shown from opening of navigation to May 20 and from July 20 to close of navigation.
11356 *C 5826*	**Bjuroklubb.**	64° 28.9′ N 21° 34.7′ E	**Oc.W.** period 10s lt. 8s, ec. 2s	167 **51**	**18**	Yellow stone tower; 25.	Shown from July 1 to June 10 and by day from Nov. 1 to Mar. 31 when visibility is poor.
11360 *C 5828*	-NE.	64° 29.0′ N 21° 35.0′ E	**Fl.(3)W.R.G.** period 6s	38 **12**	W. 10 R. 8 G. 6	White octagonal hut on concrete base.	G. 167°-185°, W.-224°, R.-285°, G.-316°, W.-323°, R.-shore. Shown from opening of navigation to May 20 and July 20 to close of navigation.
11364 *C 5824*	Burea Hamn Range, front.	64° 37.0′ N 21° 15.0′ E	**F.R.**	26 **8**	8	Tower, white triangle daymark, point up, black border.	Visible on range line only. Shown from July 20 to close of navigation.
11368 *C 5824.1*	-Rear, 660 meters 275°30′ from front.	64° 37.1′ N 21° 13.5′ E	**F.R.**	53 **16**	8	Tower, white triangle daymark, point down, black border.	
	SKELLEFTEA APPROACH:						
11380 *C 5811.8*	-Sor-Olsgrundet.	64° 38.8′ N 21° 16.7′ E	**Fl.W.R.G.** period 5s	48 **15**	W. 8 R. 6 G. 5	Framework tower; 39.	R. 199°-244°, G.-258°30′, W.-270°, R.-300°, G.-310°, W.-199°.
	-RACON		**M(– –)** period 30s		13		
11384 *C 5810*	**-Gasoren.**	64° 40.0′ N 21° 19.0′ E	**L.Fl.(2)W.R.G.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	59 **18**	W. **16** R. 13 G. 12	White octagonal concrete tower, red band; 44.	G. 215°30′-276°30′, W.-285°30′, R.-301°30′, G.-314°30′, W.-315°30′, R.-329°, G.-348°, R.-066°, G.-114°, W.-122°, R.-215°30′. Shown from July 20 to May 20 and by day from November 1 to March 31.
11388 *C 5813*	-Kopparudden.	64° 39.8′ N 21° 17.1′ E	**Fl.W.R.G.** period 3s	41 **12**	W. 10 R. 7 G. 6	White tower on hut, orange base; 21. Floodlit.	G. 227°-239°, R.-280°, G.-303°30′, W.-310°30′, R.-061°, G.-096°, obsc.-227°.
11392 *C 5816.4*	-Nasgrundet.	64° 40.0′ N 21° 18.0′ E	**Q.W.**	16 **5**	5	Beacon, upper part black, lower part white.	Shown from July 20 to May 20. **Radar reflector.**
11396 *C 5816.9*	-Front, 169 meters from common rear.	64° 40.9′ N 21° 17.7′ E	**Iso.G.** period 3s	26 **8**	8	Mast, white triangular daymark, red border.	In line 333°48′ with common rear.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11400 *C 5817*	--Tjuvkistan Range, common rear.	64° 41.0′ N 21° 18.0′ E	**Iso.W.** period 3s	36 **11**	13	Mast, white triangular daymark, red border.	Lights are synchronized.
11404 *C 5817.1*	--Front, 175 meters from common rear.	64° 40.9′ N 21° 17.7′ E	**Iso.R.** period 3s	26 **8**	10	Mast, white triangular daymark, red border.	In line 339°42′ with common rear.
11408 *C 5816*	--Oil Harbor entrance Range, front.	64° 41.0′ N 21° 16.0′ E	**Oc.W.R.G.** period 8s	30 **9**	W. 9 R. 6 G. 5	Framework structure, white triangular daymark, point up.	G. 320°30′-330°, R.-021°, G.-081°, W.-086°30′, R.-092°. Shown from July 20 to May 20.
11412 *C 5816.1*	---Middle, 150 meters 329°54′ from front.	64° 41.0′ N 21° 16.4′ E	**Oc.W.** period 8s	59 **18**	**15**	Mast, triangular daymark, point down; 48.	Middle and rear lights are synchronized.
11416 *C 5816.2*	---Rear, 295 meters 329°54′ from middle.	64° 41.1′ N 21° 16.2′ E	**Oc.W.** period 8s	92 **28**	**15**	Mast, triangular daymark, point down; 39.	
11420 *C 5817.4*	--Pilot Harbor, on pier head.	64° 41.0′ N 21° 17.0′ E	**F.R.**	14 **4**	6	On post.	
11424 *C 5818.4*	-Railway embankment, W. of quay.	64° 41.0′ N 21° 15.0′ E	**Dir.L.Fl.W.R.G.** period 6s	18 **5**	W. 10 R. 7 G. 7	White shed.	G. 285°-288°, W.-291°, R.-299°. Shown from July 20 to May 20.
11436 *C 5814.9*	-Orviken Range, front.	64° 41.0′ N 21° 12.0′ E	**Iso.G.** period 4s	52 **16**	8	White lattice mast, white triangular daymark, point up, red border.	In line 296° with common rear.
11440 *C 5815*	Common Rear, 725 meters from fronts.	64° 40.8′ N 21° 11.5′ E	**Oc.W.** period 4s	79 **24**	13	White lattice mast, white triangular daymark, point down, red border.	
11444 *C 5815.1*	-Skelleftehamn Range, front.	64° 40.6′ N 21° 12.5′ E	**Iso.R.** period 4s	52 **16**	10	White lattice mast, white triangular daymark, point up, red border.	In line 296°30′ with common rear.
11448 *C 5820*	-Ursviken.	64° 41.0′ N 21° 12.0′ E	**Iso.W.R.G.** period 4s	20 **6**	W. 10 R. 8 G. 6	White tower; 23.	R. 132°-137°, W.-185°, G.-307°, W.-309°, R.-331°. Shown from July 20 to May 20.
11456 *C 5809*	Kagnashallan.	64° 45.0′ N 21° 18.0′ E	**Q.W.R.G.**	33 **10**	W. 6 R. 4 G. 3	White hut.	G. shore-182°, W.-193°, R.-236°, G.-259°, R.-311°, G.-336°, W.-340°, R.-346°. Seasonal. **Radar reflector.**
11460 *C 5805*	Bergskaret, in entrance to Kagefjarden.	64° 49.0′ N 21° 07.0′ E	**Fl.W.R.G.** period 3s	36 **11**	W. 8 R. 5 G. 4	Tower, upper part white lower part red; 23.	R. shore-117°, G.-120°30′, W.-122°30′, R.-130°, G.-168°, R.-270°, G.-282°, W.-291°, R.-shore. Shown from July 10 to May 20.
11464 *C 5806*	Kage-Prickgrund.	64° 49.0′ N 21° 06.0′ E	**V.Q.W.**	18 **5**	4	Framework structure on concrete base.	Shown from opening of navigation to May 20 and from July 20 to close of navigation.
11468 *C 5800*	Brannfors Harbor Range, front.	65° 01.0′ N 21° 24.0′ E	**F.R.**	33 **10**	4	Post, white triangular daymark, point up.	Shown from July 20 to May 20.
11472 *C 5800.1*	-Rear, 370 meters 318° from front.	65° 01.2′ N 21° 23.0′ E	**F.R.**	65 **20**	4	Post, white triangular daymark, point down.	
11476 *C 5789*	Nygran.	65° 00.7′ N 21° 41.6′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	63 **19**	W. 9 R. 7 G. 6	White tower, black band, gray base; 69.	G. 233°-267°, W.-283°, R.-291°, G.-294°, W.-017°, R.-086°, G.-110°, W.-113°30′, R.-139°, G.-169°30′, W.-171°30′, R.-233°. Shown from July 10 to June 1.
	RACON		**G(– – •)** period 30s		**15**		
11480 *C 5802*	Furuogrund Range, front.	64° 55.0′ N 21° 15.0′ E	**F.G.**	18 **5**	8	Tower, gallery, white square daymark.	Shown from July 20 to May 20.
11484 *C 5802.1*	-Rear, 225 meters 293° from front.	0° 00.0′ 0° 00.0′	**F.G.**	45 **14**	8	Tower, gallery, white square daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
	PITEA APPROACH:						
11488 *C 5790*	**-Leskar.**	65° 08.0′ N 21° 37.7′ E	**Iso.W.R.G.** period 3s	39 **12**	W. **17** R. 14 G. 13	White concrete tower, red band; 31.	G. shore-160°, W.-165°, R.-187°30′, G.-328°, W.-346°, R.-352°, G.-359°, W.-000°30′, R.-010°, G.-057°, W.-068°, R.-080°. Shown from July 10 to June 1.
11492 *C 5790.82*	-Medgrundet Range, front.	65° 12.0′ N 21° 41.0′ E	**Fl.W.** period 2s	23 **7**	8	Post, red triangular daymark.	
11496 *C 5790.83*	- -Rear, 131 meters 145° from front.	65° 12.5′ N 21° 40.6′ E	**Q.W.**	33 **10**	8	Post, red triangular daymark.	
11500 *C 5788*	-Lillhorun Range, front.	65° 10.0′ N 21° 42.0′ E	**Iso.W.R.G.** period 4s	26 **8**	W. 6 R. 4 G. 3	Post, white triangular daymark, point up.	G. shore-087°, W.-092°, R.-103°, G.-136°, obsc.-160°, W.-293°30′, R.-301°30′.
11504 *C 5788.1*	- -Rear, about 1,850 meters 238°30′ from front.	65° 08.9′ N 21° 39.7′ E	**Q.W.R.G.**	50 **15**	W. 5 R. 3 G. 3	Iron structure, white triangular daymark, point down.	G. shore-128°, R.-215°, G.-223°, W.-256°, R.-270°, partially obscured from 265°-270°. Shown from July 20 to the close of navigation.
11508 *C 5790.4*	**-Hamviken Range,** front.	65° 11.0′ N 21° 34.0′ E	**Iso.W.** period 4s	60 **18**	**16**	Tower, white triangular daymark, point up, black border.	Visible on range line only. Seasonal.
11512 *C 5790.41*	- -Rear, 865 meters 226° from front.	65° 10.2′ N 21° 33.3′ E	**Q.W.**	88 **27**	**16**	Tower, white triangular daymark, point down, black border.	
11516 *C 5790.8*	-Storsten Sudden Range, front.	65° 13.0′ N 21° 40.0′ E	**Q.W.**	26 **8**	9	Post, white triangular daymark, red border.	
11520 *C 5790.81*	- -Rear, 127 meters 022° from front.	65° 13.4′ N 21° 40.1′ E	**Q.W.**	42 **13**	9	Post, white triangular daymark, red border.	Synchronized with front.
11524 *C 5790.89*	-Haraholmen Range, front.	65° 14.0′ N 21° 38.0′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	23 **7**	8	Post, white triangular daymark, red border.	
11528 *C 5790.9*	-Haraholmen Range, common rear.	65° 15.0′ N 21° 38.0′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	39 **12**	11	Post, white triangular daymark, red border.	Synchronized.
11532 *C 5790.91*	- -Haraholmen Range, front.	65° 14.0′ N 21° 38.0′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	23 **7**	9	Post, white triangular daymark, red border.	
11536 *C 5790.86*	-Sandangen Range, front.	65° 14.9′ N 21° 36.1′ E	**Oc.(3)W.R.G.** period 10s	26 **8**	W. 12 R. 10 G. 8	Post, white triangular daymark with red border.	G. 310°-318°48′, W.-320°30′, R.-345°, G.-355°, R.-010°.
11540 *C 5790.87*	- -Rear, 600 meters 320° from front.	65° 15.1′ N 21° 35.8′ E	**Oc.(3)W.** period 10s	39 **12**	13	Post, white triangular daymark, red border.	
11544 *C 5790.5*	-Bondon Range, front.	65° 13.0′ N 21° 40.0′ E	**Iso.W.** period 4s	59 **18**	7	Tower, white triangular daymark, point up, black border.	Shown from July 10 to June 1.
11548 *C 5790.51*	- -Rear, 725 meters 046°30′ from front.	65° 13.4′ N 21° 41.0′ E	**Iso.W.** period 4s	82 **25**	7	Tower, white triangular daymark, point down, black border.	Shown from July 10 to June 1.
11552 *C 5790.6*	-Bondofjarden Range, front.	65° 15.0′ N 21° 35.0′ E	**Iso.W.** period 3s	26 **8**	9	Tower, white triangular daymark, point up, black border.	Shown from July 10 to June 1.
11556 *C 5790.61*	- -Rear, 1,052 meters 320° from front.	65° 15.0′ N 21° 33.5′ E	**Iso.W.** period 3s	59 **18**	9	Tower, white triangular daymark, point down, black border.	Shown from July 10 to June 1. Synchronized.
11558 *C 5791*	Renoragrundet.	65° 11.6′ N 21° 35.5′ E	**Q.(3)W.R.G.** period 4s	33 **10**	W. 13 R. 10 G. 9	Red tower, white top, gray base.	W. 161°-167°, R.-281°, G.-335°, W.-339°, R.-349°, G.-161°. Shown July 10 to June 1 **Whistle.** **Radar reflector.**
11564 *C 5792.4*	-Hogsbole Range, common front.	65° 14.0′ N 21° 32.0′ E	**F.W.**	20 **6**	9	Post.	Visible on range line only. Shown from July 20 to close of navigation.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11568 *C 5792.41*	- -Rear, 400 meters 140° from front.	65° 13.5′ N 21° 32.4′ E	**F.W.**	33 **10**	9	Post.	
11569	- -Rear, 134° from front.	65° 13.5′ N 21° 32.4′ E	**F.R.**	33 **10**	5		
11572 *C 5792*	-Pitsundet Range, W. side, front.	65° 14.0′ N 21° 31.0′ E	**Oc.W.** period 4s	18 **5**	9	Post, white rectangular daymark, black band.	Visible on range line. Shown from July 10 to June 1. Synchronized with rear.
11576 *C 5792.01*	- -Rear, 120 meters 306° from front.	65° 14.1′ N 21° 31.0′ E	**Oc.W.** period 4s	30 **9**	9	Post, white rectangular daymark, black band.	Visible on range line. Similar lights mark E. side of channel. Shown from July 10 to June 1.
11580 *C 5792.6*	-Ferry slip, E. Range, front.	65° 14.0′ N 21° 31.0′ E	**F.R., F.G.**	23 **7**	6	Post, white daymark, black band.	Shown from July 10 to June 1. NW. light R., SE. light G.
11584 *C 5792.61*	- -Rear, 120 meters 207° from front.	65° 14.1′ N 21° 30.6′ E	**F.R., F.G.**	31 **9**	6	Post, white daymark, black band.	NW. light R., SE. light G.
11588 *C 5792.2*	-Slammermora, N. Range, front.	65° 14.3′ N 21° 30.7′ E	**F.G.**	16 **5**	6	Post, white daymark, black band.	Shown from July 10 to June 1.
11592 *C 5792.21*	- -Rear, 130 meters 320° from front.	65° 14.3′ N 21° 30.6′ E	**F.G.**	23 **7**	6	Post, white daymark, black band.	
11596 *C 5792.8*	-Pitholmsheden Range, front.	65° 14.3′ N 21° 31.1′ E	**Oc.R., Oc.G.** period 4s	33 **10**	6	Post, white rectangular daymark, black band.	Shown from July 10 to June 1. Synchronized with rear. Intensified on range line. Separated by width of channel, E. lights R., W. lights G.
11600 *C 5792.9*	- -Rear, 65 meters 181° from front.	65° 14.3′ N 21° 31.1′ E	**Oc.R., Oc.G.** period 4s	44 **13**	6	Post, white rectangular daymark, black band.	Intensified on range line. Separated by width of channel, E. lights R., W. lights G.
11608 *C 5793.8*	-Munksundet Sodra Range, front.	65° 16.0′ N 21° 28.0′ E	**F.R.**	36 **11**	6	Beacon, white triangular daymark.	Shown from July 10 to June 1.
11612 *C 5793*	- -Rear, 200 meters 186° from front.	65° 16.2′ N 21° 28.6′ E	**F.R.**	48 **15**	6	Beacon, white triangular daymark.	
11622 *C 5796*	Renon.	65° 20.0′ N 21° 37.9′ E	**F.R.**		3		
11624 *C 5744*	**Norstromsgrund.**	65° 06.8′ N 22° 19.2′ E	**Fl.W.** period 3s	95 **29**	8	Tower, orange and black bands, gray base in water; 95.	
	RACON		**N(– •)** period 30s		**16**		
	RENON:						
11628 *C 5745*	-Rodkallen Sodra.	65° 19.0′ N 22° 22.0′ E	**L.Fl.W.R.G.** period 10s	72 **22**	W. 10 R. 7 G. 6	White tower on roof of pilot building, upper part red lower part yellow; 59.	G. 003°30′-011°, W.-015°, R.-023°, G.-119°, R.-169°, G.-194°, R.-244°, G.-264°, R.-296°, G.-337°, W.-340°30′, R.-003°30′. Pilot station.
11632 *C 5746*	Rodkallens Hamn Range, front.	65° 19.0′ N 22° 23.0′ E	**Iso.W.** period 4s	16 **5**	8	Post, white triangular daymark.	Shown from July 20 to June 1.
11636 *C 5746.1*	-Rear, 32 meters 080° from front.	65° 18.7′ N 22° 22.8′ E	**Iso.W.** period 4s	23 **7**	8	Post, white triangular daymark.	Synchronized with front.
11637 *C 5747*	-Inner Range, front.	65° 18.7′ N 22° 22.7′ E	**Iso.R.** period 4s	7 **2**	6	Tower, white triangle with black border, point up.	Shown from July 20 to June 1.
11638 *C 5747.1*	- -Rear, 45 meters 030° from front.	65° 18.8′ N 22° 23.0′ E	**Iso.R.** period 4s	10 **3**	6	Tower, white triangle with black border, point down.	Synchronized with front.

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			SWEDEN-GULF OF BOTHNIA				
11640 *C 5748*	**Farstugrunden.**	65° 19.8′ N 22° 45.3′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	88 **27**	W. 9 R. 7 G. 6	Red and orange tower, gray base in water; 95. Floodlit.	W. 138°30′-142°, R.-194°, G.-233°, W.-342°, R.-122°, G.-138°30′.
	RACON		**B(– • • •)** period 30s		**17**		
	LULEA APPROACH:						
11644 *C 5749*	**-Borussiagrund.**	65° 21.0′ N 22° 16.0′ E	**Iso.W.R.G.** period 8s	52 **16**	W. **16** R. 14 G. 12	Red tower, white band; 56. Floodlit.	G. 017°-091°, R.-152°, G.-170°30′, W.-172°30′, R.-311°, G.-324°, W.-357°, R.-017°.
	-RACON		**O(– – –)** period 30s		14		
11650	Grillklippan, RACON.	65° 22.7′ N 22° 31.0′ E	**K(– • –)** period 30s		11		
11660 *C 5778*	-Moro (Taltskar).	65° 29.0′ N 22° 58.0′ E	**F.R.**	11 **3**	5	Post.	Fishing light, occasional.
11672 *C 5768*	-Hamnholmen.	65° 32.0′ N 22° 10.0′ E	**Fl.W.R.G.** period 3s	46 **14**	W. 11 R. 8 G. 7	White iron framework structure, white triangular daymark, red border; 39.	G. 246°-295°, R.-323°, G.-329°, W.-333°30′, R.-000°. Seasonal.
11680 *C 5770*	-Sandogrundet.	65° 33.0′ N 22° 11.8′ E	**Oc.W.R.** period 4s	20 **6**	W. 12 R. 9	White shed on stone base.	R. 022°30′-149°, W.-168°.
11688 *C 5733*	-Storbrando Range, front.	65° 31.0′ N 22° 31.0′ E	**F.R.**	16 **5**	5	Post.	Fishing light.
11692 *C 5733.1*	--Rear, 170 meters 143° from front.	65° 30.5′ N 22° 30.9′ E	**F.R.**	18 **5**	5	Post.	
11696 *C 5735*	-Vitfagelrannan.	65° 29.0′ N 22° 26.0′ E	**Q.W.R.G.**	42 **13**	W. 13 R. 10 G. 9	Red tower, white top, on gray base; 49. Floodlit.	W. 132°30′-141°, R.-161°, G.-180°, R.-300°, G.-312° W.-322°, R.-347°, G.-350°, R.-050°, G.-132°30′. Shown from July 10 to June 1.
11700 *C 5734*	**-Larsgrundet.**	65° 28.0′ N 22° 28.0′ E	**L.Fl.(3)W.R.G.** period 20s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	58 **18**	W. **16** R. 13 G. 12	Tower, upper part white, middle black and red, and bottom part black, gray base awash; 61. Floodlit.	G. 295°-311°, W.-318°, R.-346°, G.-017°, R.-045°, G.-060°, R.-096°30′, G.-137°30′, W.-162°, R.-224°, G.-226°, R.-295°. Shown from July 10 to June 1 and shown by day Nov. 1 to Mar. 31 **Horn.** **Radar reflector.**
11708 *C 5736*	-Bjornhallan Range, front.	65° 31.0′ N 22° 20.0′ E	**Iso.R.** period 3s	33 **10**	11	White triangle, point up, red border.	Visible on range line only. Shown from July 10 to June 1 and shown by day from Nov. 1 to Mar. 31.
11712 *C 5736.1*	--Rear, 565 meters 308°30′ from front.	65° 31.4′ N 22° 19.0′ E	**Iso.R.** period 3s	60 **18**	12	White triangle, point down, red border.	Synchronized.
11716 *C 5739*	-Liggskar Range, front.	65° 31.0′ N 22° 22.0′ E	**Iso.W.** period 3s	23 **7**	11	White tower, white triangular daymark, red border.	Visible 121°-128°. Shown from July 10 to June 1.
11720 *C 5739.1*	--Rear, 880 meters 128° from front.	65° 30.9′ N 22° 22.8′ E	**Iso.W.** period 3s	46 **14**	11	White tower, white triangular daymark, red border.	Synchronized with front.
11724 *C 5740*	-Finnklipporna Norra Range, front.	65° 33.0′ N 22° 20.0′ E	**Iso.G.** period 3s	26 **8**	10	White tower, white triangular daymark, red border.	Shown from July 10 to June 1.
11728 *C 5739.9*	--Rear, 320 meters 342° from front.	65° 32.6′ N 22° 19.3′ E	**Iso.G.** period 3s	39 **12**	10	White tower, white triangular daymark, red border.	Synchronized.
11732 *C 5740*	-Finnklipporna Range, front.	65° 32.0′ N 22° 20.0′ E	**Iso.R.** period 3s	26 **8**	11	White tower, white triangular daymark, red border.	Shown from July 10 to June 1.
11736 *C 5740.1*	--Rear, in line 100°30′ with front.	65° 32.3′ N 22° 20.6′ E	**Iso.R.** period 3s	48 **15**	11	White tower, white triangular daymark, red border.	Synchronized.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11740 *C 5741*	-Skvampen Range, front.	65° 32.7′ N 22° 17.2′ E	**Iso.R.** period 3s	70 **21**	6	White tower, orange triangle, point up.	Shown from July 10 to June 1.
11744 *C 5741.1*	- -Rear, 310 meters 309° from front.	65° 32.8′ N 22° 16.9′ E	**Iso.R.** period 3s	92 **28**	6	White tower, orange triangle, point down.	Synchronized with front.
11748 *C 5743*	-Svartosundet Range, front.	65° 32.0′ N 22° 17.0′ E	**Iso.W.** period 4s	17 **5**	11	White tower, white triangle, point up, red border.	Visible on range line only. Shown from July 10 to June 1. **Radar reflector.**
11752 *C 5743.1*	- -Rear, 800 meters 113° from front.	65° 32.2′ N 22° 17.6′ E	**Q.W.**	36 **11**	9	White tower, white triangle, point down, red border.	Visible on range line and 168°-225°. **Radar reflector.**
11760 *C 5731.9*	Kangso, S. mole of boat harbor, head.	65° 50.0′ N 22° 22.0′ E	**Fl.R.** period 3s	11 **3**	1	White post.	Shown from Aug. 1 to close of navigation.
11764 *C 5731.5*	Siknas Range, front.	65° 51.0′ N 22° 42.0′ E	**F.R.**	22 **7**	3	Post with white triangular daymark.	Range lights lead through dredged channel.
11768 *C 5731.51*	-Rear, 70 meters 279° from front.	65° 50.7′ N 22° 41.5′ E	**F.R.**	38 **12**	3	Post, white triangular daymark.	Shown from Aug. 1 to close of navigation.
11772 *C 5731.4*	Lagenon.	65° 47.0′ N 22° 49.0′ E	**Fl.W.R.G.** period 3s	23 **7**	W. 6 R. 4 G. 3	White structure, red base.	G. shore-170°30′, W.-175°, R.-241°, G.-291°, W.-295°, R.-shore. Shown from July 20 to May 25.
11776 *C 5731.44*	-Siknas Storgrund.	65° 50.0′ N 22° 44.0′ E	**Fl.W.R.G.** period 3s	20 **6**	W. 6 R. 4 G. 3	White structure, red base.	G. 249°-297°, W.-299°30′, R.-314°, G.-161°, R.-249°. Shown from July 20 to May 25.
11780 *C 5731.54*	Burnaset Range, front.	65° 52.0′ N 22° 42.0′ E	**F.G.**	26 **8**	7	White triangular daymark, red border.	Shown from July 20 to May 25.
11784 *C 5731.55*	-Rear, 319° 510 meters from front.	65° 52.0′ N 22° 41.2′ E	**F.G.**	44 **13**	7	White triangular daymark, red border.	
11788 *C 5731.42*	Storstensgrund.	65° 50.0′ N 22° 48.0′ E	**Fl.(2)W.R.G.** period 6s	19 **6**	W. 6 R. 4 G. 3	White structure, red base.	G. shore-343°, W.-346°, R.-044°, G.-103°, R.-113°, G.-129°. Shown from July 20 to May 25.
11792 *C 5731.57*	Siknasbanken Range, front.	65° 51.0′ N 22° 43.0′ E	**Iso.W.** period 4s	23 **7**	7	White diamond daymark, red border.	Shown from July 30 to May 25.
11796 *C 5731.58*	-Rear, 333° 485 meters from front.	65° 51.6′ N 22° 42.7′ E	**Q.W.**	39 **12**	6	White diamond daymark, red border.	
11800 *C 5731.74*	Alvasen.	65° 52.0′ N 22° 44.0′ E	**Fl.(2)W.R.G.** period 3s	19 **6**	W. 6 R. 4 G. 3	White structure, red base.	G. 346°-007°, W.-012°, R.-084°, G.-143°, W.-148°, R.-shore. Seasonal.
11804 *C 5731.76*	Djupbacksholmen.	65° 53.0′ N 22° 43.0′ E	**Fl.(2)W.R.G.** period 6s	18 **5**	W. 6 R. 4 G. 3	White structure, red base.	G. shore-344°, W.-348°, R.-010°, G.-098°, W.-110°, R.-shore. Seasonal.
11808 *C 5731.8*	Tore Hamn Roda Range, front.	65° 54.0′ N 22° 38.0′ E	**F.R.**	26 **8**	8	White triangular daymark.	Shown from July 20 to May 25.
11812 *C 5731.81*	-Grona, rear, 190 meters 326°30′ from front.	65° 54.6′ N 22° 38.5′ E	**F.R.**	41 **12**	8	White triangular daymark.	
11816 *C 5731.84*	Tore Hamn Grona Range, front.	65° 54.0′ N 22° 39.0′ E	**F.G.**	26 **8**	7	White daymark.	
				8 **2**			
11820 *C 5731.85*	-Rear, 326°30′ from front	65° 54.6′ N 22° 38.5′ E	**F.G.**	41 **12**	7	White daymark.	
11824 *C 5730*	Binnholmsskaten Range, front.	65° 46.0′ N 22° 58.0′ E	**F.R.**	19 **6**	3	Post, white triangular daymark.	Fishing light. Occasional.
11828 *C 5730.1*	-Rear, 75 meters 063° from front.	65° 46.0′ N 22° 58.4′ E	**F.R.**	33 **10**	3	Post, white triangular daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11832 *C 5726*	Likskarsrev, NW. of Maloren.	65° 39.0′ N 23° 05.0′ E	**Q.W.R.G.**	26 **8**	W. 5 R. 3 G. 2	White beacon, red hut, white square daymark.	G. 330°-346°, W.-357°, R.-095°, G.-105°. Fishing light. Shown from Aug. 1 to close of navigation.
11836 *C 5727*	Hastaskarsgrund.	65° 41.0′ N 23° 04.0′ E	**Fl.W.** period 3s	16 **5**	3	White post.	Occasional.
11840 *C 5727.5*	Storo.	65° 42.0′ N 23° 06.0′ E	**Fl.(3)W.R.G.** period 9s	36 **11**	W. 9 R. 7 G. 6	White and red tower, gray base; 33. Floodlit.	G. 296°-302°, W.-306°, R.-321°, G.-347°, G. (unintensified)-005°, R. (unintensified)-059°, G. (unintensified)-122°30′, G.-130°, W.-133°, R.-142°. Shown from July 20 to May 25.
11844 *C 5728*	Innergrundsviken Range, front.	65° 44.0′ N 23° 05.0′ E	**F.G.**	16 **5**	2	White post, triangular daymark, point up.	Fishing light. Shown from Aug. 1 to close of navigation.
11848 *C 5728.1*	-Rear, 80 meters 085° from front.	65° 44.4′ N 23° 05.9′ E	**F.G.**	23 **7**	2	White post, triangular daymark, point down.	
11852 *C 5729*	Uddviken Range, front.	65° 44.0′ N 23° 06.0′ E	**F.R.**	16 **5**	3	Post, white triangular daymark, point up.	Fishing light. Shown from Aug. 1 to close of navigation.
11856 *C 5729.1*	-Rear, 50 meters 145° from front.	65° 44.0′ N 23° 05.7′ E	**F.R.**	25 **8**	3	Post, white triangular daymark, point down.	
11860 *C 5724.4*	Marahamn Indre Range, front.	65° 46.0′ N 23° 12.0′ E	**F.R.**	18 **5**	3	Lantern on pillar, white triangular daymark, point up.	Fishing light. Occasional.
11864 *C 5724.41*	-Rear, 216 meters 038° from front.	65° 45.8′ N 23° 11.6′ E	**F.R.**	23 **7**	3	Lantern on pillar white triangular daymark, point down.	
11868 *C 5725.5*	Lutskarsgrund.	65° 39.6′ N 23° 20.1′ E	**L.Fl.W.R.G.** period 8s fl. 2s, ec. 6s	52 **16**	W. 8 R. 6 G. 5	Tower, upper part white, middle part black, lower part orange; 48.	W. 005°-009°, R.-106°, G.-194°42′, W.-195°54′, R.-217°, G.-263°, R.-309°, G.-331°30′, W.-336°, R.-349°, G.-005°. Shown from July 10 to June 1. **Radar reflector.**
11872 *C 5710*	Maloren.	65° 31.6′ N 23° 33.2′ E	**L.Fl.(2)W.R.G.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	73 **22**	W. 14 R. 11 G. 10	Red conical tower; 57.	R. 126°-136°30′, G.-157°, W.-161°, R.-196°, G.-213°, W.-214°30′, R.-220°, W.-126°. Shown from July 10 to close of navigation.
	RACON		**M(– –)** period 30s		12		
11876 *C 5710.2*	-Island, W. point.	65° 31.6′ N 23° 32.2′ E	**Q.W.R.**	23 **7**	W. 5 R. 3	White pedestal, red base.	W. 321°-215°, R.-321°. Shown from July 10 to June 1.
11877 *C 5710.5*	-Outer Range, front.	65° 32.0′ N 23° 34.0′ E	**Iso.W.** period 5s	16 **5**	4	Mast, white triangle, point up.	Shown from July 10 to Dec. 31.
11877.1 *C 5710.51*	- -Rear, 048° from front.	65° 31.6′ N 23° 33.5′ E	**Q.W.**	33 **10**	4	Mast, white triangle, point down.	Shown from July 10 to Dec. 31.
11878 *C 5710.6*	-Inner Range, front.	65° 31.7′ N 23° 33.6′ E	**Iso.R.** period 5s	16 **5**	2	Mast, white triangle, point up.	Shown from July 10 to Dec. 31.
11878.1 *C 5710.61*	- -Rear, 034° from front.	65° 31.7′ N 23° 33.7′ E	**Q.R.**	33 **10**	2	Mast, white triangle, point down.	Shown from July 10 to Dec. 31.
	KARLSBORG APPROACH:						
11888 *C 5712.4*	-Halso Klippor Range, front.	65° 43.0′ N 23° 27.0′ E	**Iso.W.R.G.** period 3s	23 **7**	W. 8 R. 6 G. 5	White and red tower; 20.	G. 340°-005°, W.-007°, R.-060°, G.-113°, W.-118°, R.-131°30′, G.-200°, W.-203°30′, R.-340°. Shown from July 20 to May 25.
	-RACON		**G(– – •)**		12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11892 *C 5712.41*	- -Vippgrund, rear, about 3.3 kilometers 006° from front.	65° 45.0′ N 23° 28.0′ E	**Q.W.**	75 **23**	9	Skeleton tower, black and white square daymark.	Intensified on range line. Visible 248°-254°. Shown from July 20 to May 25.
	- -RACON		**N(– •)**		**15**		
11896 *C 5712.8*	-Trutskarsbadan.	65° 44.1′ N 23° 22.9′ E	**Fl.(2)W.R.G.** period 3s	26 **8**	W. 8 R. 6 G. 5	Tower, upper part white, lower red; 23.	G. 261°-296°30′, R.-305°, G.-318°30′, W.-325°, R.-000°, G.-014°06′, W.-015°18′, R.020°, G.-070°, W.-122°, R.-138°, G.-149°, R.-171°. Shown from July 20 to May 25.
11900 *C 5725*	-Ytterslandet Range, front.	65° 42.0′ N 23° 17.0′ E	**Iso.W.** period 4s	19 **6**	8	Framework structure, white triangular daymark, red border.	Shown from July 20 to May 25.
11904 *C 5725.1*	- -Rear, 700 meters 067° from front.	65° 42.7′ N 23° 17.7′ E	**Q.W.**	43 **13**	8	Framework structure, white triangular daymark, red border.	
11908 *C 5719*	-Dyrasholmen, SE. point.	65° 47.0′ N 23° 17.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	20 **6**	W. 6 R. 4 G. 3	Post, white hut.	G. 294°30′-316°30′, W.-319°30′, R.-329°30′. Shown from July 20 to May 25.
11909 *C 5718.5*	-N. Shore.	65° 47.0′ N 23° 16.7′ E	**Q.W.**	92 **28**	12	Framework tower, red rectangular daymark; 66.	Shown from July 20 to May 25. May 25.
11912 *C 5720*	-Kvarnoren Range, front.	65° 47.0′ N 23° 19.0′ E	**Q.W.R.G.**	24 **7**	W. 7 R. 5 G. 4	Post on white hut.	G. 305°-336°, W.-340°, R.-032°. Shown from July 20 to May 25.
11916 *C 5720.1*	- -Rear, Karlsborg, 4.1 kilometers 338° from front.	65° 47.8′ N 23° 17.2′ E	**Oc.R.** period 5s lt. 4s, ec. 1s	94 **29**	13	Gable on house.	Visible on range line only.
11920 *C 5724*	-Laxholmen Range, front.	65° 48.0′ N 23° 16.0′ E	**F.G.**	18 **5**	8	Skeleton structure, red triangular daymark, white triangle in center.	Shown from July 20 to May 25.
11924 *C 5724.1*	- -Riso, rear 550 meters 336° from front.	65° 48.6′ N 23° 15.4′ E	**F.G.**	39 **12**	8	Skeleton structure, red triangular daymark, white triangle in center.	
11928 *C 5714*	Batskarsnas Yttre.	65° 48.0′ N 23° 25.0′ E	**Fl.R.G.** period 3s	23 **7**	R. 6 G. 5	Mast, lantern on gray lattice.	R. 229°-301°, G.-322°, R.-339°.
	HAPARANDAHAMN:						
11932 *C 5713.4*	-Vasterskarsgrund.	65° 45.0′ N 23° 30.0′ E	**Fl.(2)W.R.G.** period 6s	23 **7**	W. 5 R. 3 G. 2	White daymark, red base.	G. 180°-277°, W.-291°, R.-328°, G.-015°, W.-024°, R.-033°. Shown from July 20 to May 25.
11936 *C 5713*	-Halso.	65° 44.3′ N 23° 29.2′ E	**Fl.W.R.G.** period 3s	26 **8**	W. 5 R. 3 G. 3	White structure, red base.	G. shore-043°, W.-052°, R.-079°, G.-156°, R.-shore. Shown from July 20 to May 25.
	KARLSBORG APPROACH:						
11940 *C 5716*	-Borstskar, on E. point.	65° 43.2′ N 23° 34.2′ E	**Fl.(3)W.R.G.** period 9s	21 **6**	W. 5 R. 3 G. 3	White tower, red base; 23.	G. shore-160°, W.-190°, R.-213°, G.-229°30′, W.-232°, R.-294°, G.-306°, W.-311°, R.-318°. Shown from July 20 to May 25.
11944 *C 5717*	-Lehtikari.	65° 45.7′ N 23° 41.3′ E	**Fl.W.R.G.** period 3s	21 **6**	W. 5 R. 3 G. 3	White and red tower; 22.	G. 250°-269°, R.-349°, G.-045°, W.-055°, R.-065°. Shown from July 20 to May 25.
11948 *C 5709*	Seskaro Grona Range, front.	65° 44.0′ N 23° 45.0′ E	**F.G.**	33 **10**	6	Post, white triangular daymark, red border.	Shown from July 20 to May 25.
11952 *C 5709.1*	-Rear, 250 meters 204° from front.	65° 44.2′ N 23° 45.3′ E	**F.G.**	43 **13**	6	Post, white triangular daymark, red border.	
11956 *C 5708*	Seskaro Roda Range, front.	65° 45.0′ N 23° 46.0′ E	**F.R.**	39 **12**	7	Post, white triangular daymark, red border.	Shown from July 20 to close of navigation.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SWEDEN-GULF OF BOTHNIA				
11960 *C 5708.1*	-Rear, 180 meters 150° from front.	65° 44.6′ N 23° 46.4′ E	**F.R.**	59 **18**	7	Post, white triangular daymark, red border.	
11964 *C 5703*	Haparandahamn Range, front.	65° 46.0′ N 23° 55.0′ E	**F.R.**	14 **4**		Post, yellow triangular daymark.	Shown from July 20 to May 25.
11968 *C 5703.1*	-Rear, 260 meters 057° from front.	65° 46.5′ N 23° 54.7′ E	**F.R.**	27 **8**		Post, yellow triangular daymark.	
11970 *C 5704*	Karl Johan.	65° 46.4′ N 23° 54.3′ E	**Fl.W.R.G.** period 3s	13 **4**	W. 5 R. 3 G. 3	Mast.	G. 282°-315°, W.-322°, R.-008°.
11972 *C 5702.4*	Nikkala (Vattentorn).	65° 47.0′ N 23° 56.0′ E	**F.R.**	167 **51**	12	Water tower.	
11976 *C 5698*	-Stora Knivskar Range, front.	65° 40.8′ N 24° 08.5′ E	**Q.W.**	33 **10**	7	Red rectangular daymark, white stripe.	Visible 297°-301°. Shown April 1 to June 1 and July 20 to close of navigation.
11980 *C 5698.1*	- -Rear, on Nalkakari Rock, 1.4 kilometers 298°30′ from front.	65° 41.1′ N 24° 07.1′ E	**L.Fl.W.** period 10s	105 **32**	9	Red rectangular daymark, white stripe.	Visible 297°-301°. Shown April 1 to June 1 and July 20 to close of navigation.

Section 8

Lithuania, Latvia, Estonia, and Russia
Including Gulf of Riga

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	LITHUANIA-BALTIC SEA						
	NIDA:						
11984 *C 3318*	**-Urbe Kalis Hill.**	55° 18.0′ N 21° 01.0′ E	**Fl.(2)W.** period 5.8s fl. 0.2s, ec. 1.3s fl. 0.2s, ec. 4.2s	250 **76**	**22**	Round tower; 95.	Storm signals. Reserve light Fl.W. 3s 8M. **Radiobeacon.**
11996 *C 3334*	**Yuodkrante.**	55° 34.0′ N 21° 07.0′ E	**L.Fl.W.** period 8s fl. 3s, ec. 5s	224 **68**	**18**	Metal framework, white square metal; 65.	Reserve light L.Fl. 8s 9M. **Radar reflector.**
	KLAIPEDA:						
12000 *C 3345.9*	**-Entrance** Range, front.	55° 43.7′ N 21° 05.6′ E	**Q.W.**	102 **31**	**16**	Brown framework tower, white diamond and white square daymark, black stripe; 89.	Visible on range line only.
12004 *C 3346*	**- -Rear,** NE. side of entrance, 305 meters 092°30′ from front.	55° 43.7′ N 21° 05.8′ E	**Iso.W.** period 6s	144 **44**	**18**	White round tower, black bands and black stripe; 131.	Visible 000°-180°. Reserve light range 8M. **Radiobeacon.**
12014 *C 3347*	-Osnovnoy Severnyy Range, front.	55° 43.4′ N 21° 06.2′ E	**Iso.R.** period 2s	72 **22**	5	Square tower, red rectangle, black stripe; 66.	Visible on range line only.
12014.1 *C 3347.1*	- -Rear, 390 meters 335°12′ from front.	55° 43.6′ N 21° 06.0′ E	**Oc.R.** period 6s lt. 5s, ec. 1s	105 **32**	5	Square tower, red rectangle, black stripe; 92.	Visible on range line only.
12016 *C 3348*	-N. mole, head.	55° 43.9′ N 21° 04.9′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	72 **22**	5	Red square framework tower; 62.	
12020 *C 3350*	-S. mole, head.	55° 43.6′ N 21° 04.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	69 **21**	5	Green square framework tower; 59.	
	-Dane River:						
12032 *C 3361*	- -Dange Reki, N. entrance.	55° 42.4′ N 21° 07.5′ E	**Fl.G.** period 2.5s fl. 0.3s, ec. 2.2s	23 **7**	2	Green quadrangular metal framework structure; 16.	
12040 *C 3359*	-Winter Harbor, S. side.	55° 42.6′ N 21° 07.2′ E	**Fl.G.** period 4s fl. 0.8s, ec. 3.2s	62 **19**	3	Green pyramidal metal framework tower with gallery; 56.	
	LATVIA-BALTIC SEA						
	SVENTOJI GAVINI:						
12044 *C 3382*	**-Sventoji.**	56° 02.0′ N 21° 05.0′ E	**Fl.(3)W.** period 15s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 7.5s	138 **42**	**17**	Tower, quadrangular iron framework, red and white bands; 128.	Reserve light Fl.W. 9s 8M (fl. 1.5s). Visible 010°-165°.
12048 *C 3380*	Sventoji.	56° 02.0′ N 21° 04.0′ E	**Fl.W.** period 3s	20 **6**	4	White triangular daymark; 14.	
12052 *C 3386*	Pape.	56° 10.0′ N 21° 01.0′ E	**Fl.W.** period 3.5s fl. 1.5s, ec. 2s	85 **26**	14	White iron framework tower; 72.	Visible 340°-165°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LATVIA-BALTIC SEA				
12056 *C 3390*	**Bernati.**	56° 23.0′ N 21° 00.0′ E	**Iso.W.** period 4s	135 **41**	**15**	Quadrangular iron framework tower platform, upper part yellow; 69.	
	LIEPAIA:						
12060 *C 3396*	-S. side of river.	56° 31.0′ N 20° 59.5′ E	**Iso.W.** period 6s	105 **32**	**16**	White round metal tower, red bands; 108.	Pilot and signal station. Storm signals. Visible 000°-180°
12064 *C 3396.2*	-Middle entrance Range, front.	56° 32.7′ N 20° 59.9′ E	**Iso.W.** period 3s	69 **21**	12	White truncated pyramid, black stripe; 66.	Visible 064°-072°.
12068 *C 3396.21*	--Rear, 987 meters 067°42′ from front.	56° 32.8′ N 21° 00.8′ E	**Iso.W.** period 3s	108 **33**	14	Red iron beacon, white stripe, conical daymark, point down; 98.	Visible 064°-072°.
12069 *C 3397*	-S. entrance Range, front.	56° 31.4′ N 20° 59.7′ E	**Iso.W.** period 2s	88 **27**	9	Framework tower, white rectangular daymark, black stripe; 98.	Visible on range line only.
12069.1 *C 3397.1*	--Rear, 422 meters 112°24′ from front.	56° 31.3′ N 21° 00.0′ E	**Iso.W.** period 2s	144 **44**	9	Framework tower, white rectangular daymark, black stripe; 131.	Visible on range line only.
12072 *C 3397.5*	-Inner harbor Range No. "1", front.	56° 31.4′ N 20° 58.7′ E	**F.W.R.G.**	26 **8**	2	White round column, platform; 16.	G. 347°42′-348°42′, Al.W.G.-350°12′, W.-351°12′, Al.W.R.-352°42′, R.-353°42′.
12080 *C 3397.8*	-Inner harbor Range No. "2", front.	56° 31.2′ N 20° 59.1′ E	**Fl.G.** period 1.5s	23 **7**	3	White mast, white triangular daymark, black stripe; 16.	Visible 130°-305°. **Radar reflector.**
12084 *C 3397.81*	--Rear, 15 meters 154°18′ from front.	56° 31.2′ N 20° 59.0′ E	**Fl.G.** period 1.5s	29 **9**	3	Red mast, white triangular daymark, red stripe; 23.	Visible 130°-305°. **Radar reflector.**
12088 *C 3396.4*	-South Gate, S.	56° 31.7′ N 20° 58.1′ E	**Iso.G.** period 2s	36 **11**	2	Green round column; 16.	
12092 *C 3396.5*	--N.	56° 31.8′ N 20° 58.1′ E	**Iso.R.** period 2s	30 **9**	3	Red round column; 16.	
12096 *C 3396.6*	-Middle Gate, S.	56° 32.2′ N 20° 57.9′ E	**Iso.G.** period 4s	49 **15**	2	Green round column; 16.	
12097 *C 3396.7*	--S.	56° 32.3′ N 20° 57.9′ E	**Iso.R.** period 4s	33 **10**	3	Red round column; 16.	
12100 *C 3398.3*	--S. knuckle.	56° 31.2′ N 20° 59.3′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	3	Red round column; 26.	
12104	--W. angle of N. mole.	56° 31.3′ N 20° 59.0′ E	**Fl.R.** period 1.5s fl. 0.5s, ec. 1s	20 **6**	3	Post; 11.	
12112 *C 3397.7*	-Inner breakwater, S. head.	56° 31.6′ N 20° 58.9′ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	20 **6**	3	Red round column; 16.	
12112.5 *C 3398*	-Jetty, N. head.	56° 31.5′ N 20° 59.0′ E	**Fl.G.** period 2.5s		2		**Radar reflector.**
12120 *C 3442*	**Akmenrags.**	56° 50.0′ N 21° 03.6′ E	**Fl.(2)W.** period 7.5s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 4.9s	125 **38**	**18**	Red round stone tower, balcony; 125.	Visible 000°-225°. Reserve light L.Fl.(2)W. 10s 18M.
	PAVILOSTA:						
12124 *C 3443*	-Range, front.	56° 53.3′ N 21° 10.3′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	39 **12**	5	Framework tower, white square daymark, black stripe; 33.	Visible on range line only.
12128 *C 3443.1*	--Rear, 162 meters 144°12′ from front.	56° 53.2′ N 21° 10.4′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	59 **18**	6	Framework tower; white square daymark, black stripe; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LATVIA-BALTIC SEA				
12132 *C 3443.5*	-E. mole, head.	56° 53.5′ N 21° 10.1′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	2	PORT (A) R, beacon; 16.	
12136 *C 3443.4*	-W. mole, head.	56° 53.5′ N 21° 10.0′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	1	STARBOARD (A) G, beacon; 16.	
12140 *C 3448*	**Uzava.**	57° 12.5′ N 21° 25.1′ E	**Fl.(2)W.** period 10s fl. 1.5s, ec. 2.5s fl. 1.5s, ec. 4.5s	143 **44**	**15**	White round stone tower, red dwelling; 62.	Visible 340°-198°.
	VENTSPILS:						
12145 *C 3450.5*	-W. fairway Range, front.	57° 24.5′ N 21° 33.7′ E	**Oc.R.** period 6s lt. 4s, ec. 2s	56 **17**	14	Red framework tower, white rectangular daymark, red stripe; 49.	Visible 100°-120°. Shown 24 hours.
12145.1 *C 3450.51*	- -Middle, 425 meters 109°54′ from front.	57° 24.4′ N 21° 34.1′ E	**Oc.R.** period 6s lt. 4s, ec. 2s	115 **35**	14	Red framework tower, white rectangular daymark, red stripe; 82.	Visible 100°-120°. Shown 24 hours.
12145.2 *C 3450.52*	- - -Rear, 912 meters 109°54′ from front.	57° 24.3′ N 21° 34.6′ E	**Oc.R.** period 6s lt. 4s, ec. 2s	131 **40**	**16**	Square framework tower, black rectangular daymark, yellow stripe; 98.	Visible 030°-190°.
12148 *C 3450*	-Vkhodoy Range, front.	57° 23.7′ N 21° 32.5′ E	**Iso.R.** period 3s	92 **28**	14	Framework tower, red rectangular daymark, white stripe; 82.	Visible 139°-149°. Shown 24 hours.
12152 *C 3450.1*	- -Rear, 940 meters 143°42′ from front.	57° 23.3′ N 21° 33.1′ E	**Iso.R.** period 3s	148 **45**	**15**	Framework tower, red rectangular daymark, white stripe; 115.	Visible 084°-204°. Synchronized with front.
12156 *C 3451*	-N. mole, head, outer harbor.	57° 24.5′ N 21° 31.6′ E	**Fl.(2)R.** period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s	45 **14**	4	White round concrete tower, red lantern; 36.	
12160 *C 3452*	-S. mole, head, outer harbor.	57° 24.3′ N 21° 31.5′ E	**Fl.(2)G.** period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s	45 **14**	3	White round concrete tower, green lantern; 36.	
12168 *C 3455*	-S. oil pier.	57° 23.9′ N 21° 32.5′ E	**Iso.W.** period 2s	26 **8**	2	Red square metal framework tower; 20.	
12172 *C 3454*	-N. oil pier.	57° 24.0′ N 21° 32.6′ E	**Fl.Y.** period 1.5s fl. 0.5s, ec. 1s	26 **8**	1	Red metal column, red cylinder and platform on top; 19.	
12176 *C 3458*	-Fishing Harbor.	57° 23.7′ N 21° 32.9′ E	**Iso.R.** period 2s	26 **8**	1	Red column with platform; 16.	Visible 229°-049°.
12180 *C 3460*	-Turning Basin, W.	57° 24.0′ N 21° 34.3′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	26 **8**	1	STARBOARD (A) G, beacon; 16.	
12181 *C 3461*	- -E.	57° 23.9′ N 21° 34.8′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	1	STARBOARD (A) G, beacon; 16.	
			LATVIA-GULF OF RIGA				
12192 *C 3470*	**Ovisi,** S. shore of entrance to Gulf of Riga.	57° 34.5′ N 21° 43.3′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	125 **38**	**15**	White round stone tower; 109.	Visible 010°-223°.
	RACON		**W(• – –)** period 120s		9		Azimuth coverage 050°-220°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LATVIA-GULF OF RIGA				
12194 *C 3474*	**Irbensky Strait.**	57° 45.1′ N 21° 44.1′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	121 **37**	10	Round concrete tower, lower part black, middle part white with yellow bands, upper part yellow with cone, point down. Helicopter platform.	Reserve light range 10M.
	RACON		**I(• •)** period 15s		12		Azimuth coverage 125°-020°.
12196 *C 3476*	Mikelbaka.	57° 35.9′ N 21° 58.7′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	182 **55**	14	White round masonry tower; 182.	Storm signals. Reserve light range 9M. **Radar reflector.**
12204 *C 3477.3*	**Sikraguciems.**	57° 40.0′ N 22° 13.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	107 **33**	**15**	White quadrangular iron framework structure; 87.	Reserve light Fl.W. 3s 9M.
12212 *C 3478*	**Kolka.**	57° 48.1′ N 22° 38.0′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	66 **20**	10	Red round tower with balcony and lantern; 69.	Storm signals. Reserve light Fl.W. 8s 9M. Signal station.
	RACON		**K(– • –)**		**17**		
12216 *C 3486*	**Gipka.**	57° 34.0′ N 22° 40.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	120 **37**	**15**	Quadrangular metal tower, two red trapezoidal daymarks, white rectangular centers; 98.	Storm signals.
12220 *C 3482*	Ruhnu Saar.	57° 48.1′ N 23° 15.6′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	212 **65**	11	Red round metal tower with supporting pillars, cupola and galleries; 131.	
12224 *C 3489*	Roja.	57° 30.3′ N 22° 48.6′ E	**F.W.R.G.**	79 **24**	W. 7 R. 4 G. 4	Red square metal framework tower, white stripe; 66.	G. 193°48′-196°48′, W.-199°48′, R.-202°48′.
12228 *C 3494*	**Mersrags.**	57° 22.0′ N 23° 07.2′ E	**Fl.W.** period 5s	85 **26**	**15**	White concrete tower with balcony; 62.	Visible 165°-310°. Reserve light range 6M.
12230 *C 3495.2*	-266.5°.	57° 20.1′ N 23° 08.0′ E	**Dir.F.W.R.G.**	54 **17**	W. 8 R. 4 G. 4	Square metal framework tower; 41.	G. 261°03'-265°09', W.-267°51', R.-271°57'.
12232 *C 3496*	-N. mole, head.	57° 20.1′ N 23° 08.4′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	2	White round column; 16.	**Radar reflector.**
12248 *C 3501*	**Engure.**	57° 10.3′ N 23° 14.1′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	85 **26**	**15**	Red and white framework tower; 62.	Shown April 4 to Jan. 30.
12249 *C 3501.4*	-Approch Range, front.	57° 09.8′ N 23° 13.9′ E	**Iso.R.** period 2s	20 **6**	3	Metal framework tower, white square daymark, red stripe; 16.	Visible on range line only. Shown April 10 to Jan. 30.
	Zapadnaya Dvina						
12249.1 *C 3501.41*	--Rear, 127 meters 270°12' from front.	57° 09.8′ N 23° 13.9′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	46 **14**	3	Metal framework tower, white square daymark, red stripe; 33.	Visible on range line only.
12252 *C 3502*	**Ragaciems.**	57° 02.0′ N 23° 29.0′ E	**Iso.W.** period 2s	121 **37**	**16**	Square metal framework structure, red square daymark; 98.	Visible 150°-275°.
12256 *C 3503*	**Bulli.**	57° 00.0′ N 23° 54.0′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	118 **36**	**16**	Red slatted quadrangular truncated iron pyramid, lower part white; 92.	
12260	Liyelupe River Range, front.	57° 00.0′ N 23° 56.0′ E	**Q.W.**	21 **6**	3	White truncated pyramid red stripe; 18.	
12264	-Rear, 145 meters 169° from front.	0° 00.0′ 0° 00.0′	**Iso.W.** period 2s	31 **9**	3	White truncated pyramid, red stripe; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LATVIA-GULF OF RIGA				
	ZAPADNAYA DVINA:						
12268	*-Buoy "C".*	57° 07.0′ N 23° 57.0′ E	**L.Fl.W.** period 6s			SAFE WATER RW.	**Radar reflector.**
12272 *C 3526*	**-Daugavgriva.**	57° 03.6′ N 24° 01.3′ E	**Fl.W.** period 2.5s	121 **37**	**18**	Round concrete tower, black and white bands; 115.	Visible 065°-215°. Storm signals. Reserve light L.Fl.W. 6s 7M. Pilot station.
	-RACON		**D(– • •)** period 15s				
12276 *C 3528*	-W. mole, head.	57° 04.0′ N 24° 01.0′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	3	Round white concrete tower; 23.	
12280 *C 3530*	-Daugavgriva Range, front.	57° 04.0′ N 24° 02.0′ E	**Iso.R.** period 5s	67 **20**	11	White framework tower, white daymark, red stripe; 49.	Visible on range line only.
12284 *C 3530.1*	- -Rear, 590 meters 141° from front.	57° 03.4′ N 24° 01.6′ E	**Iso.R.** period 5s	96 **29**	11	White framework tower, white square daymark, red stripe; 87.	Synchronized with front.
12286 *C 3536*	-Mole, head.	57° 03.3′ N 24° 01.9′ E	**Fl.(3)Y.** period 3.5s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 1.6s	33 **10**	1	Red round column, forked top; 20.	
12288 *C 3529*	Mangal'sala, E. mole, head.	57° 04.1′ N 24° 00.9′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	38 **12**	4	Red round tower, observation platform; 24.	**Radar reflector.**
12292 *C 3536.4*	-Training wall, N. head.	57° 03.2′ N 24° 01.7′ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round column; 16.	
12294 *C 3536.5*	- -S. head.	57° 03.2′ N 24° 01.7′ E	**Fl.(3)R.** period 9s		1		
12296 *C 3535*	-Vostochni Basseyn.	57° 03.1′ N 24° 02.4′ E	**Fl.(3)Y.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	2	Red round metal column; 16.	
12300	-Zimney Basseyn, S. side.	0° 00.0′ 0° 00.0′	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	17 **5**	1	Red metal column; 8.	
12304 *C 3538*	-Bullupe Channel, E. side.	57° 03.0′ N 24° 02.6′ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 **11**	2	Red round tower; 26.	
12308	-Railway Wharf.	57° 04.0′ N 24° 02.0′ E	**Fl.Y.** period 2s fl. 0.2s, ec. 1.8s	28 **9**	2	White square framework tower; 18.	
12312	-Bullupe Channel near entrance Range, front.	57° 03.0′ N 24° 04.0′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	20 **6**	2	White truncated beacon, black stripe, square daymark; 18.	
12316	- -Rear, 120 meters 249°30′ from front.	0° 00.0′ 0° 00.0′	**Q.R.**	29 **9**	2	White truncated beacon, black stripe, square daymark; 27.	
12320 *C 3540*	-Mangali Range, front.	57° 03.0′ N 24° 04.0′ E	**Iso.W.** period 3s	20 **6**	2	White framework structure, black stripe, triangular daymark, black stripe, point down; 20.	Visible on range line only.
12324 *C 3540.1*	- -Rear, 95 meters 326°12′ from front.	57° 03.0′ N 24° 03.7′ E	**Iso.W.** period 3s	39 **12**	3	White framework structure, black stripe, white square daymark, black stripe; 29.	Visible on range line only. Synchronized with front.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LATVIA-GULF OF RIGA				
12326 *C 3543*	-Zvejas, N. gate.	57° 02.8′ N 24° 03.9′ E	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	1	Red round metal column, platform; 13.	
12326.1 *C 3543.4*	--S. gate, N.	57° 02.5′ N 24° 04.4′ E	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round column, forked widening on top; 19.	
12326.2 *C 3543.6*	---S.	57° 02.4′ N 24° 04.5′ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round column, forked widening on top; 20.	
12328 *C 3544*	-Taude, N. Mazilkeniyeshi.	57° 02.2′ N 24° 04.8′ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White column and platform; 21.	
12332 *C 3532*	-Rinuzi Range, front.	57° 02.4′ N 24° 04.5′ E	**Oc.W.** period 6s lt. 4s, ec. 2s	52 **16**	5	Framework tower, red rectangular daymark, white stripe; 43.	Visible on range line only.
12336 *C 3532.1*	--Rear, 587 meters 128°24′ from front.	57° 02.2′ N 24° 05.0′ E	**Oc.W.** period 6s lt. 4s, ec. 2s	78 **24**	5	Square framework tower, red trapezoidal daymark, white stripe; 72.	Visible on range line only. Synchronized with front.
12340 *C 3547*	-Balta-Baznitsa Range, front.	57° 01.9′ N 24° 05.3′ E	**Iso.Y.** period 4s	43 **13**	4	Framework tower, white trapezoidal daymark, black median stripe; 33.	Visible on range line only. Synchronized.
12344 *C 3547.1*	--Middle, 205 meters 356°54′ from front.	57° 02.0′ N 24° 05.2′ E	**Iso.Y.** period 4s	59 **18**	4	Iron platform with gallery on wall, brick building, parapet painted white with black median stripe; 52.	Visible on range line only.
12348 *C 3547.2*	--Rear, 486 meters 356°54′ from front.	57° 02.2′ N 24° 05.2′ E	**Iso.Y.** period 4s	66 **20**	4	White tower of church, red roof, lantern in window; 59.	Visible on range line only.
12352 *C 3548.4*	-E. Kurpnieksala.	57° 01.7′ N 24° 05.4′ E	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	29 **9**	2	Red framework pyramid, stone base; 26.	**Radar reflector.**
12353 *C 3546.2*	--Beacon No. "1".	57° 01.6′ N 24° 05.7′ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	1	White round column, platform; 16.	
12354 *C 3546.3*	--Beacon No. "2".	57° 01.5′ N 24° 06.1′ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	1	White round column, platform; 16.	
	-Milgravis:						
12356 *C 3546*	--Rutkusala, S. bank.	57° 01.4′ N 24° 06.5′ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 **5**	1	White column, platform; 13.	
12358 *C 3545.4*	--Milgravis Range, front.	57° 01.3′ N 24° 07.1′ E	**Oc.W.** period 5s lt. 3s, ec. 2s	49 **15**	2	White column, red rectangular daymark, white stripe; 39.	Visible on range line only.
12358.1 *C 3545.41*	---Rear, 362 meters 116°42′ from front.	57° 01.2′ N 24° 07.4′ E	**Oc.W.** period 5s lt. 3s, ec. 2s	79 **24**	2	White mast; 75.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LATVIA-GULF OF RIGA				
	-Milgravis:						
12360 *C 3545*	- -Jaunmilgravis.	57° 01.3´ N 24° 06.9´ E	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	Red round column, forked widening on top; 19.	
12364 *C 3548*	-West Kurpnieksala.	57° 01.2´ N 24° 05.2´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	1	White square framework tower; 26.	
12366 *C 3548.6*	-Krievu.	57° 01.6´ N 24° 05.0´ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 **10**	2	White round column, forked widening on top; 19.	
12367 *C 3549.3*	-Kundzinsala pier, KS-32.	57° 00.3´ N 24° 05.8´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round column, forked widening on top; 19.	Visible 265°-335°.
12368 *C 3549*	-Kramershof (Krameri) W. side of river.	57° 00.2´ N 24° 05.3´ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	2	White square framework tower, platform; 23.	
12372 *C 3550.4*	-Voleri.	56° 59.5´ N 24° 05.2´ E	**Fl.(3)Y.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round metal column, forked widening on top; 19.	
	-Putnu Sala:						
12376 *C 3550*	- -S. end.	56° 59.4´ N 24° 05.7´ E	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	2	Red framework tower, platform; 19.	
12380	-Provodnik.	57° 00.0´ N 24° 07.0´ E	**Fl.G.** period 2s fl. 0.2s, ec. 1.8s	20 **6**	1	Red framework tower; 18.	
	-Riga:						
12384 *C 3551*	- -Export Areas, quay, N. end.	56° 59.1´ N 24° 05.6´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round column, forked widening on top; 20.	
	-Riga:						
12388 *C 3552*	- -Export Harbor, mole, N. head.	56° 58.4´ N 24° 05.5´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round column, forked widening on top; 20.	
12392 *C 3554*	-Podrags.	56° 58.3´ N 24° 05.1´ E	**Fl.(3)W.R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round column, forked widening on top; 20.	W. 185°-005°, R.-185°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LATVIA-GULF OF RIGA				
12400 *C 3558*	--Andreyevskaya Gavan, breakwater, head.	56° 57.6′ N 24° 05.6′ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	1	White round column, forked widening on top; 19.	
12412 *C 3580.15*	-Skulte, 098.5°.	57° 19.0′ N 24° 24.3′ E	**Dir.F.W.R.G.**	38 **12**	W. 6 R. 3 G. 3	Square framework tower; 33.	G. 095°30'-097°30', W.-099°30', R.-101°30'. Shown 24 hours.
12416 *C 3580.2*	-S. mole, head.	57° 19.0′ N 24° 24.0′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	1	Green metal column; 16.	Shown Apr. 10 to Jan. 10.
12420 *C 3580.3*	-N. mole, head.	57° 19.0′ N 24° 24.0′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	1	PORT (A) R, beacon; 16.	Shown Apr. 10 to Jan. 30.
12428 *C 3583*	Laci.	57° 27.0′ N 24° 24.0′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	99 **30**	14	Black iron framework structure, white bands; 75.	Seasonal.
12436 *C 3585*	Grintals.	57° 39.0′ N 24° 23.0′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	110 **34**	12	White square metal framework tower, black top; 69.	Seasonal.
12440 *C 3587*	Salacgriva Range, front.	57° 46.0′ N 24° 21.0′ E	**Iso.R.** period 2s	44 **13**	9	Red framework tower, white rectangular daymark, black stripe; 33.	Visible on range line only.
12444 *C 3587.1*	--Rear, about 146 meters 072°18′ from front.	57° 45.4′ N 24° 21.4′ E	**Iso.R.** period 4s	78 **24**	9	Red framework tower, white rectangular dayamrk, black stripe; 59.	Visible 000°-170°.
12448 *C 3590*	Ainazi.	57° 51.9′ N 24° 21.5′ E	**Iso.W.** period 4s	72 **22**	12	White octagonal tower, orange stripe; 59.	Seasonal.
			ESTONIA-GULF OF RIGA				
12452 *C 3594.5*	**Moisakula.**	58° 04.8′ N 24° 29.2′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	105 **32**	11	White quadrangular iron structure; 92.	Seasonal.
	PARNU:						
12456 *C 3606*	-Approach Range, front.	58° 23.0′ N 24° 28.0′ E	**Q.R.**	79 **24**	10	Red metal column, white rectangular daymark, black stripe; 72.	Visible on range line only.
12460 *C 3606.1*	--Rear, about 820 meters 023°54′ from front.	58° 23.1′ N 24° 28.3′ E	**Iso.R.** period 6s	121 **37**	11	Quadrangular metal framework structure, white rectangular daymark, black stripe; 112.	Visible on range line only. Synchronized with front.
12464 *C 3603*	-Manilaid, on S. end.	58° 12.0′ N 24° 06.0′ E	**Iso.W.R.G.** period 4s	29 **9**	W. 6 R. 3 G. 2	White round tower; 22.	W. 338°30′-011°, R.-075°, G.-102°, W.-125°30′, R.-154°, W.-229°30′, G.-257°, W.-266°30′, R.-310°, G.-338°30′. Seasonal.
12468 *C 3608*	-Outer Range, front.	58° 23.0′ N 24° 29.0′ E	**Fl.W.** period 3s	52 **16**	5	White square framework tower; 46.	Seasonal. Reserve light Iso.W. 2s 5M.
12472 *C 3608.1*	--Rear, 365 meters 039° from front.	58° 22.9′ N 24° 29.1′ E	**Fl.W.** period 3s	79 **24**	5	Red square framework tower; 75.	Seasonal. Reserve light Iso.W. 4s 5M.
12476 *C 3612*	-Inner Range, front.	58° 24.0′ N 24° 30.0′ E	**Iso.R.** period 3s	36 **11**	6	Framework tower, red rectangular daymark, black stripe; 35.	Visible on range line only. Seasonal.
12480 *C 3612.1*	--Rear, 220 meters 026°12′ from front.	58° 23.5′ N 24° 29.3′ E	**Iso.R.** period 3s	68 **21**	6	Framework tower, red rectangular daymark, black stripe; 46.	Visible on range line only. Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ESTONIA-GULF OF RIGA				
12484 *C 3611*	-E. mole, head.	58° 22.0′ N 24° 28.0′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	1	White mast, black bands, concrete base; 13.	Seasonal. **Radar reflector.**
12488 *C 3611.5*	-W. mole, head.	58° 22.1′ N 24° 27.7′ E	**Fl.Y.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	1	White mast, red bands, concrete base; 10.	Seasonal.
12492 *C 3605*	Kiriku Nina.	58° 17.0′ N 24° 16.0′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	99 **30**	5	White quadrangular iron structure; 92.	Seasonal.
12496 *C 3595*	Someri Poolsaar.	58° 21.0′ N 23° 44.4′ E	**Fl.W.** period 6s fl. 0.6s, ec. 5.4s	76 **23**	9	White octagonal concrete tower, balcony; 66.	Seasonal.
12500 *C 3596*	Kihnu, Pitkana Ots.	58° 05.8′ N 23° 58.3′ E	**Fl.(2)W.R.** period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 7.5s	95 **29**	W. 11 R. 7	White round metal tower, balcony; 92.	W. 262°-225°, R.-262°.
12504 *C 3598*	-E. side of island, pier, head.	58° 08.5′ N 24° 01.4′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	20 **6**	5	White round metal column on concrete base; 12.	Seasonal.
12508 *C 3602*	Sorgu Saar.	58° 11.0′ N 24° 12.0′ E	**Fl.(2)W.R.** period 9s fl. 1s, ec. 1s fl. 1s, ec. 6s	63 **19**	W. 7 R. 3	Red round brick tower; 53.	W. 101°-342°, R.-101°. Seasonal.
	MUHU VAIN:						
12512 *C 3631*	-Pooriatsa, W. of Oriku Laid.	58° 28.0′ N 23° 38.0′ E	**Fl.(4)W.R.G.** period 18s	46 **14**	W. 6 R. 3 G. 2	White round concrete tower; 43.	W. 007°-141°, R.-160°, W.-340°30′, G.-007°. Seasonal.
12516 *C 3636*	-Viirelaid, S. entrance to Muhu Vain.	58° 32.7′ N 23° 26.6′ E	**Fl.W.R.** period 8s fl. 1.5s, ec. 6.5s	56 **17**	W. 9 R. 7	Red round concrete tower, balcony; 43.	W. 163°-349°, R.-163°. Reserve light Fl.W.R. 4.5s 6/3M.
12520 *C 3632*	-Virtsu, W. point of peninsula.	58° 34.0′ N 23° 31.0′ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	63 **19**	12	Quadrangular concrete tower, lower half white, upper half red; 59.	Seasonal. Reserve light Fl.W. 4s 12M.
12522 *C 3634.5*	-Kuivastu.	58° 34.4′ N 23° 23.8′ E	**Q.R.**	26 **8**	2	Red metal column, balcony; 16.	
12524 *C 3632.6*	--Pier, head.	58° 34.6′ N 23° 30.5′ E	**Fl.W.R.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	W. 5 R. 3	Red post, balcony; 16.	W. 072°30′-099°, R. -072°30′.
12528 *C 3637*	-Kessu Range, front.	58° 38.0′ N 23° 25.0′ E	**Q.W.**	39 **12**	7	Red column, white rectangular daymark, red stripe; 30.	Visible 308°-125°. Shown Apr. 4 to Dec. 10.
12532 *C 3637.1*	--Rear, 730 meters 123° from front.	58° 37.7′ N 23° 25.5′ E	**Iso.W.** period 4s	74 **23**	7	Yellow square framework tower, white rectangular daymark, red stripe; 59.	Visible 088°-135°.
	-Muhu:						
12540 *C 3638*	**--Rauai** Range, front.	58° 39.0′ N 23° 20.0′ E	**Oc.W.** period 5s	82 **25**	**15**	Red iron framework tower, red square daymark; 78.	
12544 *C 3638.1*	---Rear, 525 meters 163° from front.	58° 38.9′ N 23° 18.8′ E	**Oc.W.** period 5s	122 **37**	**15**	Iron framework tower, red square daymark; 94.	
12548 *C 3639*	--Seanina Point, N. end of island.	58° 41.0′ N 23° 13.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	66 **20**	9	Black and white framework tower; 52.	
	VORMSIKURK:						
12552 *C 3646*	-Heltermaa Range, front.	58° 52.0′ N 23° 04.0′ E	**Q.R.**	33 **10**	9	White framework tower, white diamond daymark, black stripe; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ESTONIA-GULF OF RIGA				
12556 *C 3646.1*	--Rear, 311 meters 254°48′ from front.	58° 51.9′ N 23° 02.7′ E	**Oc.R.** period 4s	63 **19**	9	White framework tower, white diamond daymark, black stripe; 59.	
12560 *C 3758.5*	-Harilaid Range, front.	58° 58.0′ N 23° 06.0′ E	**Iso.W.** period 2s	20 **6**	8	Beacon, white rectangular daymark and white circle; 33.	
12564 *C 3758.51*	--Rear, 180 meters 330°18′ from front.	58° 58.1′ N 23° 05.2′ E	**Iso.W.R.G.** period 4s	38 **12**	W. 5 R. 3 G. 2	White round concrete tower; 33.	G. 250°30′-314°, W.-336°30′, R.-024°, W.-250°30′.
12571 *C 3653*	--Rohukula Range, front.	58° 54.5′ N 23° 25.7′ E	**Q.W.**	52 **16**	10	Triangular daymark on white truncated tower, black stripe; 33.	Visible on range line only.
12572 *C 3653.1*	---Rear, about 440 meters 090°06′ from front.	58° 54.5′ N 23° 26.2′ E	**Oc.W.** period 3s	79 **24**	10	Red framework tower, black diamond on white rectangular daymark; 62.	Visible on range line only.
	VORMSIKURK:						
12584 *C 3652.1*	-Rukkirahu, N. end of islet, rear, 213°42′ from front.	58° 54.2′ N 23° 21.0′ E	**Fl.(2)W.R.** period 6s fl. 0.3s, ec. 0.9s fl. 0.3s, ec. 4.5s	59 **18**	W. 7 R. 5	White round concrete tower, gallery; 52.	W. 014°-104°, R.-194°, W.-216°, R.-243°, W.-283°, R.-014°.
	VORMSIKURK:						
12588 *C 3652*	--Range, front, Hobulaid Island, S. end.	58° 55.9′ N 23° 23.2′ E	**Fl.W.R.** period 2.5s fl. 0.5s, ec. 2s	13 **4**	W. 5 R. 4	Red metal round tower, conical roof on white concrete base; 13.	Marks part of the dredged channel through the bay of Hapsal. W. 200°-325°, R. elsewhere.??Shown Apr. 20 to Dec. 10.
	VORMSIKURK:						
12588.1 *C 3652.1*	--Rukkirahu, N. end of islet, rear, 3706 meters 213°42′ from front.	58° 54.2′ N 23° 21.0′ E	**Fl.(2)W.R.** period 6s fl. 0.3s, ec. 0.9s fl. 0.3s, ec. 4.5s	59 **18**	W. 7 R. 5	White round concrete tower, gallery; 52.	W. 014°-104°, R.-194°, W.-216°, R.-243°, W.-283°, R.-014°.
	VORMSIKURK:						
12592 *C 3651*	-Paralep Range, front.	58° 56.0′ N 23° 29.0′ E	**Q.W.**	49 **15**	9	White round concrete tower, gallery; 49.	Visible on range line only. Shown Apr. 20 to Dec. 10.
12596 *C 3651.1*	--Rear, 790 meters 152°42′ from front.	58° 55.7′ N 23° 29.4′ E	**Iso.W.** period 4s	120 **37**	9	White round concrete tower, black and white bands; 102.	Visible on range line only. Shown Apr. 20 to Dec. 10.
	VOOSIKURK:						
12600 *C 3656*	-Haapsalu Range, front.	58° 57.2′ N 23° 30.8′ E	**Q.R.**	23 **7**	4	Metal column, red triangular daymark, black stripe; 26.	Visible on range line only. Shown Apr. 20 to Dec. 10.
12604 *C 3656.1*	--Rear, 603 meters 094°12′ from front.	58° 57.2′ N 23° 31.5′ E	**Iso.R.** period 3s	39 **12**	4	Metal framework pyramid, red triangular daymark, yellow stripe, yellow spherical daymark; 43.	Visible on range line only. Shown Apr. 20 to Dec. 10.
12606 *C 3657*	-Holmi Range, front.	58° 57.6′ N 23° 30.7′ E	**Q.G.**	26 **8**	2	Metal framework pyramid, white rectangular daymark, black stripe; 23.	Visible on range line only. Shown Apr. 20 to Dec. 10.
12606.1 *C 3675.1*	--Rear, 408 meters 73°12′ from front.	58° 57.6′ N 23° 31.1′ E	**Iso.G.** period 3s	46 **14**	3	Metal framework pyramid, white rectangular daymark, black stripe; 39.	Visible on range line only. Shown Apr. 20 to Dec. 10.
12608 *C 3650*	-Hobulaid Range, front.	58° 58.5′ N 23° 23.4′ E	**Q.W.**	46 **14**	6	Red metal framework tower, octagonal base, white rectangular daymark, black stripe; 39.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ESTONIA-GULF OF RIGA				
12612 *C 3650.1*	- -Rear, 185° from front.	58° 57.1′ N 23° 23.2′ E	**Iso.W.** period 3s	76 **23**	10	Red metal framework tower, white rectangular daymark, black stripe; 51.	Visible on range line only. Shown Apr. 20 to Dec. 10.
12614 *C 3759*	-Norrby Range, front.	59° 01.2′ N 23° 21.1′ E	**Iso.W.** period 2s	72 **22**	12	White round concrete tower, gallery; 72.	Visible on range line only. Shown Apr. 20 to Dec. 10.
12614.1 *C 3759.1*	- -Rear, 778 meters 192°24′ from front.	59° 00.7′ N 23° 20.9′ E	**Iso.W.** period 4s	115 **35**	12	Round concrete tower, upper part red, lower part white, gallery; 105.	Visible on range line only. Shown Apr. 20 to Dec. 10.
12616 *C 3759.5*	-Ramsholmi, on shore of Pashlepa Bay, front.	59° 01.1′ N 23° 26.0′ E	**Q.R.**	34 **10**	6	White round concrete tower; 32.	Visible about 4° each side of range line.
12620 *C 3759.51*	- -Rear, 540 meters 137°42′ from front.	59° 01.0′ N 23° 26.4′ E	**Oc.R.** period 2s	48 **15**	6	White round concrete tower; 43.	
	SAAREMAA:						
12636 *C 3630*	-Kubassaar.	58° 25.7′ N 23° 18.0′ E	**L.Fl.W.** period 9s fl. 2.5s, ec. 6.5s	66 **20**	11	Round concrete tower, upper part black, lower part white; 59.	Visible 228°-048°. Shown Apr. 10 to Dec. 20.
12648 *C 3628*	-Allirahu.	58° 18.0′ N 22° 58.2′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	60 **18**	7	Black and white framework tower; 52.	
12656 *C 3626*	- -N. end of island.	58° 09.7′ N 22° 47.2′ E	**Fl.(2)W.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 8.5s	39 **12**	7	Red round iron framework structure, balcony; 26.	
12658 *C 3627*	-Saaretuka.	58° 15.7′ N 22° 49.3′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	62 **19**	7	White concrete tower; 49.	
12659 *C 3616*	-Abruka Range, front.	58° 09.0′ N 22° 32.1′ E	**Q.W.**	72 **22**	8	Metal column, rectangular daymark, upper part red, lower part white; 69.	Visible on range line only. Shown Apr. 20 to Dec. 15.
12660 *C 3616.1*	- -Rear, 658 meters 259° 18' from front.	58° 09.0′ N 22° 32.0′ E	**Iso.W.** period 4s	126 **38**	9	Round concrete tower, black and white bands; 119.	Shown Apr. 20 to Dec. 15.
12664	-Roomassaare, S. end of pier.	58° 13.0′ N 22° 31.0′ E	**Q.W.R.G.**	46 **14**	10	White triangular beacon; 53.	W. 064°-356°, G.-024°, W.-043°, R.-064°.
12668 *C 3705.3*	-Kaavi.	57° 59.0′ N 22° 12.0′ E	**Fl.W.** period 2.5s	65 **20**	6	Red tower, white band; 49.	Shown Apr. 20 to Dec. 15.
12670 *C 3704.5*	-Montu Range, front.	57° 57.1′ N 22° 07.5′ E	**Q.W.**	46 **14**	6	Metal framework tower, white rectangular daymark, red stripe; 33.	Visible on range line only.
12671 *C 3704.51*	- -Rear, 201 meters 298° 30' from front.	57° 57.1′ N 22° 07.3′ E	**Iso.W.** period 4s	72 **22**	6	Metal framework tower, white rectangular daymark, red stripe; 49.	Visible on range line only.
12672 *C 3704*	**-Sorve Saar.**	57° 54.6′ N 22° 03.3′ E	**Fl.W.** period 15s fl. 0.5s, ec. 14.5s	171 **52**	**15**	Round concrete tower, black and white, balcony; 174.	Ice signals. Seasonal F.W. fishing lights shown at Kaunispe, Karrust, Tammuna, Tiriu, Oesor, Tamma and Ragundis on Sorve Poolsaar.
12674 *C 3704.2*	-Loode.	57° 58.3′ N 21° 59.0′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s		6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	ESTONIA-BALTIC SEA						
	SAAREMAA:						
12680 *C 3706.1*	-Ansekula.	58° 06.0′ N 22° 14.0′ E	**Fl.W.** period 1.5s	115 **35**	7	White square concrete tower, upper part black; 72.	
12684 *C 3714*	-Vilsandi Saar.	58° 23.3′ N 21° 49.3′ E	**Mo.(U)W.R.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 2s, ec. 7s	131 **40**	W. 12 R. 6	White round stone tower; red lantern; 122.	W. 212°-164°30′, R.-212°. F.W. fishing lights shown Sept. to Jan. at Munganin and Meldri, in Leo Bay.
12692	-Triigi, pier, head.	58° 35.0′ N 22° 44.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	6	Post; 18.	Visible 132°30′-222°30′.
12696 *C 3717*	Merise, N. extremity.	58° 30.0′ N 22° 09.0′ E	**Fl.W.** period 1.5s	65 **20**	6	White square, slatted, pyramid; 36.	
	HIIUMAA:						
12700 *C 3720*	-Emmaste Range, front.	58° 42.0′ N 22° 33.0′ E	**Q.W.**	36 **11**	10	White round concrete tower; 36.	
12704 *C 3720.1*	- -Rear, 1,070 meters 089°24′ from front.	58° 41.4′ N 22° 34.4′ E	**Iso.W.** period 4s	62 **19**	10	White square wooden framework; 62.	
12708 *C 3718*	-Soru, S. of Tohvri.	58° 42.5′ N 22° 29.5′ E	**Iso.W.R.G.** period 4s	62 **19**	W. 7 R. 4 G. 2	White round concrete tower; 56.	W. shore-003°, G.-044°, W.-074°30′, R.-086°30′, W.-shore.
12716 *C 3744*	-Ristna.	58° 56.4′ N 22° 03.3′ E	**L.Fl.W.R.** period 15s fl. 3s, ec. 12s	122 **37**	W. 12 R. 8	Red round concrete tower, balcony; 98.	W. 348°-192°, R.-348°.
12720 *C 3746*	**-Kopu,** on Andresemagi, near W. end of Hiumaa.	58° 55.2′ N 22° 12.3′ E	**Fl.(2)W.** period 10s	335 **102**	**26**	White square stone tower; 112.	Reserve light Fl.W. 4s.
12728 *C 3754*	-Takhuna Point.	59° 05.5′ N 22° 35.2′ E	**L.Fl.(2)W.** period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	140 **43**	12	White round metal tower, balcony; 140.	Visible 095°-253°30′.
12730	-Hiiessaare.	59° 00.1′ N 22° 50.3′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	62 **19**	7	White square concrete tower, stone base; 56.	
12732 *C 3644*	Oryaku Range, front.	58° 47.0′ N 22° 48.0′ E	**F.R.**	43 **13**	9	Pyramid, white square, black stripe; 33.	
12736 *C 3644.1*	-Rear, 80 meters 003°42′ from front.	58° 47.7′ N 22° 46.4′ E	**F.R.**	74 **23**	9	Pyramid, white square, black stripe; 48.	
	ESTONIA-GULF OF FINLAND						
12748 *C 3760*	Osmussaar.	59° 18.2′ N 23° 21.7′ E	**Fl.(2)W.** period 18s fl. 1s, ec. 2s fl. 2s, ec. 13s	128 **39**	11	Round concrete tower, black and white bands; 116.	
12752 *C 3764*	Poosaspea.	59° 14.0′ N 23° 32.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	55 **17**	6	Red iron framework structure; 52.	Fishing light.
12753 *C 3765*	Dirhami Range, front.	59° 12.5′ N 23° 30.2′ E	**Iso.G.** period 2s	30 **9**	3	Metal framework tower, white trapezoidal daymark, black stripe; 20.	Visible on range line only. Reserve light Q.W. 5M.
12753.1 *C 3765.1*	-Rear, 222 meters, 170°18′ from front.	59° 12.4′ N 23° 30.3′ E	**Iso.G.** period 2s	46 **14**	3	Metal framework tower, white trapezoidal daymark, black stripe; 26.	Synchronized with front. Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ESTONIA-GULF OF FINLAND				
12756 *C 3768*	Suur-Pakri.	59° 21.0′ N 23° 51.8′ E	**Fl.(2)W.** period 12s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s	39 **12**	5	Red framework tower, white base; 33.	
12758 *C 3769*	Väike-Pakri.	59° 21.4′ N 23° 58.7′ E	**Fl.G.** period 6s	112 **34**	2	Metal framework tower, red rectangle, white base, balcony; 52.	
12764 *C 3774*	Pakri neem.	59° 23.2′ N 24° 02.3′ E	**L.Fl.W.** period 15s fl. 5s, ec. 10s	240 **73**	12	Red round brick tower; 171.	Obscured 243°-011°.
12765 *C 3778*	Madise Range, front.	59° 17.6′ N 24° 07.0′ E	**Iso.W.** period 2s	72 **22**	7	Metal framework tower, white rectangle, black stripe; 65.	Visible on range line only.
12765.1 *C 3778.1*	-Rear, 600 meters, 320° from front.	59° 17.4′ N 24° 07.4′ E	**Iso.W.** period 4s	59 **18**	8	White tower, lantern; 49.	Visible on range line only. Synchronized with front.
12766 *C 3783*	Lohusalu Range, front.	59° 24.2′ N 24° 12.4′ E	**Iso.R.** period 2s	16 **5**	6	Metal pole, white rectangular daymark, white stripe; 11.	Visible on range line only.
12766.1 *C 3783.1*	-Rear, 1297.1 meters 233°18′ from front.	59° 24.1′ N 24° 12.3′ E	**Iso.R.** period 4s	20 **6**	6	Metal pole, white rectangular daymark, white stripe; 16.	Visible on range line only.
12767 *C 3786*	Suurupi Range, front.	59° 28.3′ N 24° 25.1′ E	**Iso.W.** period 3s	59 **18**	11	Truncated wooden pyramid, red roof; 49.	Visible 242°30′-250°. Reserve light range 10M.
12768 *C 3786.1*	-Rear, 1.2 miles 246°30′ from front.	59° 27.8′ N 24° 23.0′ E	**Oc.(2)W.** period 15s lt. 4.5s, ec. 1.5s lt. 4.5s, ec. 4.5s	217 **66**	**20**	White round stone tower; 72.	Visible 056°-261°30′. Ice signals. Reserve light range 10M.
12772 *C 3790*	**Naissaar,** on Pikasaare Ots.	59° 36.2′ N 24° 30.6′ E	**L.Fl.W.** period 10s fl. 3s, ec. 7s	154 **47**	**15**	White octagonal tower, red top, balcony; 147.	Visible 025°-335°.
12776	Hulgekari Ots.	59° 32.5′ N 24° 33.8′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	59 **18**	7	Square metal framework tower, white gallery; 49.	
12780 *C 3792*	-E. side, harbor.	59° 34.0′ N 24° 34.0′ E	**Fl.W.R.G.** period 2s fl. 0.3s, ec. 1.7s	32 **10**	W. 7 R. 5 G. 3	White round tower; 25.	G. shore-170°, W.-197°, R.-236°, G.-255°, W.-328°, R.-shore.
	KOPLI LAHT:						
12781 *C 3799*	- Kopli entrance Range, front.	59° 26.2′ N 24° 40.7′ E	**Iso.R.** period 4s	43 **13**	7	Metal round tower, red rectangular daymark, black stripe; 43	
12781.1 *C 3799.1*	- -Rear, 413 meters 133° from front.	59° 26.0′ N 24° 41.0′ E	**Iso.R.** period 4s	69 **21**	7	Metal framework tower, red rectangular daymark, black stripe; 69	
	TALLINN:						
12784 *C 3842*	-Tallinnamadal, on Tallina Madal Bank.	59° 42.7′ N 24° 43.9′ E	**Fl.(2)W.** period 15s fl. 1s, ec. 1s fl. 1s, ec. 12s	95 **29**	10	Red round metal tower, three galleries, red top, black base; 102.	Reserve light range 7M. **Radar reflector.**
	-RACON		**K(– • –)**				
12788 *C 3806*	-Aegna, on reef.	59° 36.0′ N 24° 44.0′ E	**Fl.W.R.** period 4s fl. 0.5s, ec. 3.5s	72 **22**	W. 6 R. 3	Gray metal tower, yellow rectangular daymark; 66.	R. 053°30′-101°, W.-053°30′.
12792 *C 3808*	- -Pier, S. side of island.	59° 34.0′ N 24° 46.0′ E	**Fl.W.R.G.** period 4s fl. 1s, ec. 3s	23 **7**	W. 4 R. 2 G. 1	Red round column; 6.	G. 288°-301°, R.-000°, W.-056°.
12793 *C 3805*	-Vahemadal.	59° 30.6′ N 24° 39.9′ E	**Fl.R.** period 10s fl. 1s, ec. 9s	46 **14**	6	Red tower, white bands.	**Whistle.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ESTONIA-GULF OF FINLAND				
12796 *C 3810*	**-Tallinn,** entrance Range, front.	59° 26.2′ N 24° 47.9′ E	**Iso.W.G.** period 3s	160 **49**	W. **19** G. 13	Octagonal truncated pyramid on low stone building; 59.	G. 143°-156°, W.-165°. Shown by day.
12800 *C 3810.1*	--Rear, 1,097 meters 159°06′ from front.	59° 25.7′ N 24° 48.3′ E	**Iso.W.** period 6s	264 **80**	**23**	White and black round tower; 132.	Visible 123°30′-187°30′. Reserve light Iso.W. 6s 14M.
12804 *C 3804*	-Viimsi Range, E. side of Tallinna Laht, front.	59° 30.9′ N 24° 48.9′ E	**Iso.W.** period 3s	128 **39**	14	Red framework tower, white rectangular daymark, red stripe; 112.	Reserve light Q.W. 9M.
12808 *C 3804.1*	--Rear, 1,407 meters 083°36′ from front.	59° 31.0′ N 24° 50.4′ E	**Iso.W.** period 3s	194 **59**	**15**	Red round concrete tower, gallery; 43.	Synchronized with front. Reserve light Iso.W. 3s.
12810 *C 3812*	-Kaubasadam.	59° 27.0′ N 24° 46.5′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Green metal structure; 16.	**Radar reflector.**
12812 *C 3817*	-Rybnoy gavani.	59° 27.0′ N 24° 46.0′ E	**Fl.W.** period 3s	33 **10**	3	Round metal column, white balcony; 30.	
	-Vana Sadam (Old Harbor):						
12816 *C 3812*	--N. entrance, N. side.	59° 27.0′ N 24° 47.0′ E	**Fl.W.** period 3s	26 **8**	3	Orange tower, gallery; 13.	
12828 *C 3815*	---S. side.	59° 26.8′ N 24° 46.5′ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Red tower, gallery; 7.	
	-Fishing Harbor:						
12832 *C 3818*	--Entrance Range, front, head of mole.	59° 27.8′ N 24° 44.9′ E	**Q.R.**	23 **7**	4	Round metal tower, red gallery; 16.	Visible on range line only.
12836 *C 3818.1*	---Rear, 125 meters 213°54′ from front.	59° 26.8′ N 24° 44.9′ E	**Iso.R.** period 3s	33 **10**	4	Framework tower, white rectangular daymark, black stripe; 33.	
12852 *C 3830*	--W. entrance, E. side.	59° 27.5′ N 24° 43.5′ E	**Fl.R.** period 2.5s fl. 0.3s, ec. 2.2s	23 **7**	7	White truncated pyramid; 13.	
12856 *C 3832*	---W. side.	59° 27.5′ N 24° 43.4′ E	**Fl.(3)W.R.G.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 **10**	W. 6 R. 4 G. 3	Red mast; 16.	W. 215°-275°, R.-065°, G.-215°.
12860 *C 3834*	-Karavani Sadam, breakwater, NW. head.	59° 28.0′ N 24° 44.0′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	23 **7**	3	Red framework, white base; 13.	
12864 *C 3837*	-New Fishing Harbor, Entrance Range, front.	59° 27.5′ N 24° 42.2′ E	**Iso.R.** period 6s	92 **28**	6	Metal framework tower, white diamond daymark; 82.	Visible on range line only. Reserve light Q.R. 5M.
12868 *C 3837.1*	--Rear, 210 meters 248°12′ from front.	59° 27.4′ N 24° 41.9′ E	**Iso.R.** period 6s	125 **38**	6	Metal framework tower, white diamond daymark; 115.	Visible on range line only. Reserve light Oc.R. 3s 5M.
12869 *C 3822*	-Lennusadama Harbor, E. mole.	59° 27.3′ N 24° 44.2′ E	**Fl.R.** period 3s	23 **7**	2	Red metal column with balcony; 16.	
12870 *C 3822.2*	--W. mole.	59° 27.3′ N 24° 44.1′ E	**Fl.G.** period 3s	16 **5**	2	Green metal column; 13.	
12873 *C 3841.84*	-N. basin.	59° 29.9′ N 24° 48.6′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	23 **7**	3	Red round metal structure; 16.	
12874 *C 3841.9*	-Miiduranna Harbor, Entrance Range, front.	59° 30.0′ N 24° 48.9′ E	**Fl.(2)Bu.** period 3s	43 **13**	2	Building, white rectangular daymark, black stripe; 36.	
12874.1 *C 3841.91*	--Rear, 185 meters 044°24′ from front.	59° 30.0′ N 24° 49.0′ E	**Oc.Bu.** period 5s	59 **18**	2	Building, white rectangular daymark, black stripe; 52.	
12876 *C 3841*	-Pirita, S. dam of Reka Pirita.	59° 28.2′ N 24° 49.0′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	1	Green metal column with gallery; 16.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ESTONIA-GULF OF FINLAND				
12876.5 *C 3841.2*	--N. breakwater, head.	59° 28.2′ N 24° 49.1′ E	**Fl.R.** period 3s	20 **6**	2	Red metal column, gallery; 16.	Seasonal.
12877 *C 3841.4*	-Merivalja pier, head.	59° 29.5′ N 24° 49.6′ E	**Fl.R.** period 3.5s fl. 0.5s, ec. 3s	20 **6**	2	Red metal column; 13.	Shown Apr. 15 to Jan. 20.
12878 *C 3841.6*	--Dolphin.	59° 29.8′ N 24° 48.2′ E	**Q.G.**	26 **8**	2	Gray metal column; 7.	
12879 *C 3841.8*	--S. pier head.	59° 29.9′ N 24° 48.9′ E	**Q.W.R.**	23 **7**	W. 4 R. 3	Orange tower, gallery; 16.	W. 320°-077°, R.-320°.
12879.1 *C 3854*	-Vkhodnoy Range, front.	59° 29.6′ N 24° 56.7′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	118 **36**	10	White round metal tower, black rectangular daymark, white stripe; 108.	Visible on range line only.
12879.2 *C 3854.1*	--Rear, 217°48′ from front.	59° 29.4′ N 24° 56.4′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	179 **54**	10	White round metal tower, black rectangular daymark, white stripe; 158.	Visible on range line only.
	PRANGLI SAAR:						
12880 *C 3846*	-NW. point.	59° 38.7′ N 24° 58.1′ E	**Q.(4)W.** period 15s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 11.5s	46 **14**	6	White round concrete tower; 39.	
12884 *C 3850*	-SE. point.	59° 36.9′ N 25° 02.2′ E	**Fl.(4)W.** period 24s	98 **30**	6	Black square framework tower, white base; 65.	
12896 *C 3844*	Keri.	59° 41.9′ N 25° 01.4′ E	**L.Fl.W.** period 15s fl. 2s, ec. 13s	102 **31**	11	Dark red round metal tower, brick base; 102.	
12900.5	Eksi.	59° 35.7′ N 25° 06.0′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	59 **18**	4	Black metal tower, 3 white cylinders on top; 50.	
12908 *C 3860*	Juminda Nina.	59° 38.8′ N 25° 30.6′ E	**L.Fl.(2)W.** period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	104 **32**	12	Round concrete tower, upper part black, lower white; 79.	Shown Apr. 1 to Dec. 20.
12912 *C 3868*	Mohni Saar.	59° 41.0′ N 25° 47.7′ E	**L.Fl.W.** period 20s fl. 4s, ec. 16s	108 **33**	10	Red round stone tower; 90.	Ice signals.
	VERGI:						
12920 *C 3872*	-Kaupa Island.	59° 36.0′ N 26° 06.0′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	W. 9 R. 5 G. 3	White round concrete tower; 36.	G. 085°-167°, W.-267°, R.-356°, W.-004°, obscured elsewhere.
12924 *C 3874*	Vainupaa.	59° 35.0′ N 26° 16.0′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	79 **24**	7	Framework tower, white rectangular daymark; 66.	Shown Apr. 1 to Dec. 20.
12928 *C 3876*	Vaindloo.	59° 49.0′ N 26° 21.6′ E	**Fl.W.R.** period 15s fl. 1s, ec. 14s	65 **20**	W. 11 R. 7	White round tower; 56.	W. 065°-319°, R.-065°. Ice signals.
12935 *C 3877*	Uhtju.	59° 40.6′ N 26° 30.7′ E	**Fl.W.** period 4s	56 **17**	6	Round metal tower, upper part red, lower part gray, gray cylinder daymark; 39.	
12940 *C 3884*	Letipea Neem, on extremity.	59° 33.0′ N 26° 36.0′ E	**Fl.(4)W.R.G.** period 18s	55 **17**	W. 7 R. 5 G. 2	White square tower; 42.	W. 050°-058°, G.-105°, W.-153°, R.-163°, G.-171°30′, W.-285°.
12944 *C 3888*	**Moldova.**	59° 26.0′ N 27° 03.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	278 **85**	**15**	White metal framework tower, black bands; 92.	Reserve light Fl.W. 3s 7M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ESTONIA-GULF OF FINLAND				
12948 *C 3890*	Valaste.	59° 27.0′ N 27° 22.0′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	229 **70**	7	Quadrangular framework tower, upper part slatted, red over white; 50.	
12956 *C 3894*	**-Narva entrance.**	59° 28.0′ N 28° 03.0′ E	**Mo.(N)W.** period 12s	110 **34**	**17**	White tower, black lantern, red band; 100.	
			RUSSIA-GULF OF FINLAND				
12960 *C 3938*	**Ostrov Bol'shoy-Tyuters.**	59° 51.2′ N 27° 11.4′ E	**Mo.(A)W.** period 14s fl. 1s, ec. 1s fl. 3s, ec. 9s	247 **75**	**20**	Hexagonal brick tower; 68.	Reserve light Fl.W. 4s 10M.
12964 *C 3940*	Vigrund.	59° 47.0′ N 27° 44.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	7	Red quadrangular slatted iron framework pyramidal structure; 66.	
12968 *C 3914*	Kiryamo.	59° 38.0′ N 28° 04.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	167 **51**	7	Quadrangular iron framework slatted tower, upper part black, lower part white; 95.	
12972 *C 3918*	**Kaybolovo.**	59° 44.0′ N 28° 02.0′ E	**Iso.W.** period 8s	199 **61**	**18**	White quadrangular iron framework slatted tower; 121.	**Radiobeacon.**
12980 *C 3962*	Rif Ostrovnoy.	59° 56.0′ N 27° 59.0′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	26 **8**	3	Red metal framework tower, concrete base; 18.	Shown May 15 to Jan. 15.
	LUZHSKAYA GUBA:						
12984 *C 3976*	-Mys Pikhlisar, W. side of bay.	59° 47.0′ N 28° 10.0′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	94 **29**	7	Red framework tower, white rectangular daymark; 83.	
12988 *C 3986*	**-Gorki.**	59° 48.0′ N 28° 30.0′ E	**Iso.W.** period 6s	595 **181**	**25**	Red truncated pyramidal structure; 135.	Reserve light range 9M.
12992 *C 3988*	Mys Kolgampya Range, near N. extremity, front.	59° 51.0′ N 28° 33.0′ E	**Q.W.**	79 **24**	7	Framework tower, white rectangular daymark, red stripe; 69.	
12996 *C 3988.1*	-Rear, 1,189 meters 190° from front.	59° 50.2′ N 28° 32.3′ E	**Iso.W.** period 4s	103 **31**	10	White truncated pyramidal beacon, black stripe; 50.	Visible on range line only.
13004 *C 4004*	**Mys Shepelevskiy.**	59° 59.0′ N 29° 08.0′ E	**L.Fl.(2)W.R.** period 16s	122 **37**	**17**	White round stone tower, red bands; 118.	R. 053°-100°, W.-265°, R.-280°, obsc.-053°. Reserve light Iso.W.R. 10s 10M.
13008 *C 4006*	**Krasnaya Gorka.**	59° 58.0′ N 29° 23.0′ E	**Iso.W.** period 3s	197 **60**	**15**	Red framework tower, red rectangle, white stripe; 125.	Reserve light Iso.W. 3s 8M.
13012 *C 4010*	**Tolbukhin.**	60° 03.0′ N 29° 33.0′ E	**L.Fl.W.** period 12s fl. 3s, ec. 9s	95 **29**	**16**	White round stone tower dwelling; 100.	
13016 *C 4012*	**-Kronshtadskiye** Range, front, Fort Kronshlot.	59° 58.7′ N 29° 45.0′ E	**Oc.W.** period 5.5s lt. 4s, ec. 1.5s	82 **25**	7	Red round tower; 82.	Visible 167°-047°.
			F.R.		**15**		Visible 047°-167°. Reserve light Fl.R. 6s 10M.
13020 *C 4012.1*	--**Naval Harbor**, rear, 2.4 kilometers 106°54′ from front.	59° 58.3′ N 29° 47.4′ E	**F.R.**	176 **54**	**15**	Octagonal gray concrete tower; 177.	Visible 047°-167°. Reserve light F.R. 13M visible 090°-120°.
	KRONSHTADT:						
13024 *C 4030*	-Pverekhodnive Range, front, E. of Fort Meushikov.	59° 59.0′ N 29° 46.0′ E	**Iso.R.** period 2s	33 **10**	3	White pyramid beacon, black stripe; 23.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA-GULF OF FINLAND				
13028 *C 4030.1*	--Rear, S. wall of Kupecheskaya Gavan, 120 meters 315°06′ from front.	59° 59.0′ N 29° 45.3′ E	**Iso.R.** period 2s	42 **13**	3	Framework tower, white trapezoid, black stripe; 36.	
13032 *C 4020*	-Kabotazhnaya Gavan Range, front.	59° 59.1′ N 29° 45.0′ E	**Fl.R.** period 1.5s fl. 0.5s, ec. 1s	52 **16**	6	Red framework tower, black stripe; 49.	Visible on range line only.
13036 *C 4020.1*	--Rear, E. wall Kupecheskaya Gavan′ 760 meters 091°12′ from front.	59° 59.0′ N 29° 45.7′ E	**Q.R.**	103 **31**	6	Red framework tower, black stripe; 95.	
	-Srednyaya Gavan:						
13040 *C 4036*	--Range, front.	59° 59.0′ N 29° 47.0′ E	**Q.R.**	33 **10**	3	Red hexagonal, iron framework tower, white facing range; 23.	Visible on range line only.
13044 *C 4036.1*	---Rear, 23 meters 109°06′ from front.	59° 58.6′ N 29° 46.7′ E	**Q.R.**	42 **13**	3	Red octagonal iron tower, white facing range; 33.	
	-Kronshlot Harbor:						
13048 *C 4014*	--Ostrov Kotlin, N. extremity.	59° 59.0′ N 29° 45.0′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	23 **7**	1	Red square iron skeleton structure; 10.	
	MORSKOY KANAL:						
13052 *C 4059*	-Morskoy Kanal Range, front.	59° 58.0′ N 29° 46.0′ E	**Q.W.**	62 **19**	12	Gray octagonal tower, white median stripe; 67.	
13056 *C 4059.1*	--Rear, about 2.2 km. 291°48′ from front	59° 58.6′ N 29° 44.0′ E	**L.Fl.W.** period 6s	130 **40**	13	Gray octagonal tower, black and white bands; 136.	
13064 *C 4069*	-Yuzhnaya Damba, NW. corner.	59° 53.4′ N 30° 12.4′ E	**Fl.W.** period 3s	29 **9**	2	Black round metal column, red bands.	
13068 *C 4070*	--SE. corner.	59° 53.3′ N 30° 12.7′ E	**Fl.R.** period 3s	29 **9**	2	Red column, white bands; 20.	
13072 *C 4062*	-Lesnoy mole Range, front.	59° 53.1′ N 30° 11.2′ E	**Oc.R.** period 3s lt. 2s, ec. 1s	69 **21**	10	Square metal framework tower, red top with black stripe; 59.	Visible on range line only. Reserve light Fl.(2) 8s 9M.
13074 *C 4062.1*	-Middle, 360 meters 111°54′ from front.	59° 53.0′ N 30° 11.4′ E	**Oc.G.** period 5s lt. 3s, ec. 2s	86 **26**	3	Black metal lattice tower; 79.	
13076 *C 4062.2*	--Rear, 1.9 km. 111°54′ from front	59° 52.7′ N 30° 12.8′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	249 **76**	10	Metal chimney, red and white bands, orange stripe; 239.	
13078 *C 4074.2*	Korabel'nyy Kanal.	59° 54.8′ N 30° 14.3′ E	**Dir.W.R.G.**		W. 12 R. 6 G. 6		G. 113°42′-115°12′, W.-115°48′, R.-117°12′.
13080 *C 5584*	**Stirsudden (Mys Seyveste).**	60° 11.0′ N 29° 02.0′ E	**Fl.(2)W.** period 15s	153 **47**	**21**	White round concrete tower, 2 red bands; 91.	
13081 *C 5586*	-Mys Flotskiy.	60° 10.0′ N 29° 09.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	79 **24**	7	Red framework tower, white rectangular daymark; 66.	
13084 *C 5582*	Kyurenniyemi.	60° 16.0′ N 28° 55.0′ E	**Fl.W.** period 3s	83 **25**	7	Red iron slatted framework structure, upper part white with black stripe; 70.	
13085 *C 5569*	-Range, front.	60° 17.5′ N 28° 51.1′ E	**Fl.W.** period 1.5s		10		
13086 *C 5569.1*	--Rear, 930 meters 030° from front.	60° 18.0′ N 28° 51.6′ E	**Oc.W.** period 3s		10		
13088 *C 5568*	Ostrov Syarkkyaluoto.	60° 18.0′ N 28° 48.0′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	3	Quadrangular iron house, rectangular daymark, painted black with white bands; 39.	

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			RUSSIA-GULF OF FINLAND				
13092 *C 5567*	Ostrov Dlinnoberezhnyy.	60° 18.0′ N 28° 43.0′ E	**Fl.W.R.G.** period 2s fl. 0.5s, ec. 1.5s	19 **6**	W. 7 R. 4 G. 2	Red and white stone square tower, stone base; 21.	G. 134°-139°, W.-275°, R.-280°, G.-285°, W.-316°, R.-344°.
13100 *C 5562*	Lotsmanskiy (Primorsk).	60° 21.0′ N 28° 38.0′ E	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	88 **27**	W. 7 R. 4 G. 2	Red truncated pyramid, white rectangular daymark, red stripe; 66.	G. 304°-310°, W.-316°, R.-035°, G.-105°, W.-115°, R.-150°, obsc.-304°.
13104 *C 5500*	Ostrov Rondo (Ruonti) Range, front.	60° 27.0′ N 28° 22.0′ E	**Fl.W.R.G.** period 1.5s fl. 0.5s, ec. 1s	47 **14**	W. 9 R. 6 G. 5	Red framework tower, white rectangular daymark, black stripe; 33.	G. 063°-068°, W.-077°, R.-128°, G.-162°, W.-183°, R.-201°, G.-214°, W.-234°, R.-252°, W.-063°.
13108 *C 5500.1*	-Rear, 072°42′ from front, N. end of Ostrov Severnyy Berezovyy (Plysari).	60° 27.8′ N 28° 26.3′ E	**L.Fl.W.R.G.** period 6s fl. 2s, ec. 4s	129 **39**	W. 9 R. 4 G. 2	White round framework tower, black stripe; 115.	W. 012°-089°, R.-114°, G.-168°, W.-174°, R.-274°.
	VYBORG APPROACH:						
13112 *C 5506*	-Ostrov Mayachnyy.	60° 35.0′ N 28° 26.0′ E	**Fl.W.R.G.** period 1.5s fl. 0.3s, ec. 1.2s	60 **18**	W. 7 R. 4 G. 2	White octagonal hut; 43.	G. shore-359°, W.-009°, R.-020°, G.-029°, W.-231°, G.-249°, W.-255°, R.-270°, obscured elsewhere.
13116 *C 5508*	-Ostrov Vikhrevov-Saari, SE. point.	60° 34.0′ N 28° 27.0′ E	**L.Fl.W.R.G.** period 6s fl. 2s, ec. 4s	16 **5**	W. 7 R. 3 G. 2	White octagonal hut; 10.	G. 163°-218°, W.-225°, R.-260°, obscured elsewhere.
13117 *C 5511*	-Ostrov Igrivyy Range, front.	60° 35.7′ N 28° 26.5′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	33 **10**	9	Red metal mast, white rectangular daymark, red stripe; 20.	Visible on range line only.
13118 *C 5511.1*	--Rear, 450 meters 041° from front.	60° 35.9′ N 28° 26.7′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	59 **18**	9	Red metal mast, white rectangular daymark, red stripe; 39.	Visible on range line only.
13120 *C 5514*	-Range, front, Banka Khalliviki.	60° 37.0′ N 28° 32.0′ E	**Fl.Y.** period 1.5s fl. 0.5s, ec. 1s	26 **8**	4	Round concrete beacon, white and black stripe; 14.	
13124 *C 5514.1*	--Rear, Mys Ostryy, 926 meters 043°18′ from front.	60° 36.9′ N 28° 32.3′ E	**Oc.Y.** period 3s lt. 2s, ec. 1s	66 **20**	4	Round concrete tower, white and black stripes; 53.	
13132 *C 5518*	-Vsotskiy-Yuzhnyy Range, front, head of S. breakwater.	60° 37.0′ N 28° 34.0′ E	**Fl.W.R.G.** period 1.5s fl. 0.5s, ec. 1s	26 **8**	W. 5 R. 4 G. 3	Mast, green square daymark, red stripe; 19.	G. 042°-063°48′, W.-067°12′, R.-087°, G.-097°, W.-111°, R.-153°, G.-201°, W.-229°, R.-266°.
13136 *C 5518.1*	--Rear, Pikhtovyy, 1,296 meters 064°54′ from front.	60° 37.0′ N 28° 34.4′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	82 **25**	5	White concrete tower, square dayamrk, black stripe; 52.	
13140 *C 5520*	-Malyy Vysotskiy, Yuzhnyy Range, front.	60° 37.8′ N 28° 33.6′ E	**Fl.W.** period 1.5s	20 **6**	5	Metal column, white rectangular daymark, green stripe; 16.	Visible on range line only.
13144 *C 5520.1*	--Rear, 205 meters 005°54′ from front.	60° 37.9′ N 28° 33.5′ E	**Iso.W.** period 2s	29 **9**	5	Metal column, white rectangular daymark, green stripe; 16.	
13148 *C 5521*	-Pinkeli.	60° 38.0′ N 28° 34.0′ E	**Fl.G.** period 3s	29 **9**	2	Green rectangular daymark.	
13152 *C 5524*	-Malyy Vysotskiy, Sevemyy Range, front.	60° 39.0′ N 28° 34.0′ E	**Fl.W.** period 1.5s	21 **6**	4	White rectangular daymark, red diamond; 15.	Visible 238°-346°.
13156 *C 5524.1*	--Rear, 135 meters 253°30′ from front.	60° 38.3′ N 28° 33.9′ E	**Iso.W.** period 4s	30 **9**	4	White rectangular daymark, red diamond; 15.	Visible on range line only.
13160 *C 5530*	-Ostrov Patteri Range, front.	60° 38.0′ N 28° 35.0′ E	**Q.W.**	42 **13**	8	White triangular daymark, red stripe, point up.	Visible on range line only.
13164 *C 5530.1*	--Rear, 222 meters 223°06′ from front.	60° 38.0′ N 28° 34.3′ E	**Iso.W.** period 4s	72 **22**	8	White round concrete tower, white triangular daymark, red stripe, point up; 52.	Visible on range line only.
13168 *C 5522*	-Khumallakhti Range, front.	60° 38.5′ N 28° 34.5′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	21 **6**	4	White metal post, white rectangular daymark, green stripe; 16.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA-GULF OF FINLAND				
13172 *C 5522.1*	--Rear, 154 meters 024°54′ from front.	60° 38.6′ N 28° 34.5′ E	**Fl.W.** period 3.5s fl. 1.5s, ec. 2s	46 **14**	4	Metal post, white rectangular daymark, green stripe; 16.	Visible on range line only.
13176 *C 5528*	-Ityapalu, E. end of channel, N. side.	60° 39.0′ N 28° 36.0′ E	**Fl.R.** period 3s	19 **6**	2	Red concrete beacon, white band; 10.	
13180 *C 5539.4*	-Dubovyy.	60° 40.2′ N 28° 38.9′ E	**Fl.G.** period 3s	19 **6**	2	Green column; 10.	
13184 *C 5539*	-Likhaniyemi.	60° 40.0′ N 28° 40.0′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	25 **8**	3	White square daymark, red stripe, on red column; 23.	Visible 214°24′-034°24′.
13188 *C 5534*	-Malyy Shchit Range, front.	60° 41.5′ N 28° 40.9′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	46 **14**	7	Red metal framework tower, red rectangle, black stripe; 32.	Visible on range line only.
13192 *C 5534.1*	--Rear, about 3 km. 043°06′ from front.	60° 42.9′ N 28° 43.7′ E	**F.W.**	151 **46**	7	Gray hexagonal tower, cupola; 243.	Visible on range line only.
13196 *C 5536*	-Ostrov Ukazatelnyy Range, front.	60° 41.1′ N 28° 41.4′ E	**Fl.W.R.G.** period 1.5s fl. 0.5s, ec. 1s	20 **6**	W. 3 R. 2 G. 1	White lantern on white square base, red stripe; 16.	W. 050°-063°, R.-090°, obsc.-166°, G.-210°, W.-215°, R.-221°.
13200 *C 5536.1*	--Rear, on Ostrov Kuposensari, 1020 meters 061°18′ from front.	60° 41.3′ N 28° 42.4′ E	**Iso.W.** period 2s	26 **8**	3	Lantern on concrete base, white square daymark, red stripe; 18.	
13208 *C 5542*	-Pikarluoto Range, common front.	60° 41.4′ N 28° 41.7′ E	**Q.R.**	20 **6**	2	White round concrete tower, red stripe; 10.	
13212 *C 5541.9*	--Mariankivi, rear, 1,111 meters 035° 30′ from front.	60° 41.9′ N 28° 42.4′ E	**Oc.W.R.** period 3s lt. 2s, ec. 1s	46 **14**	W. 4 R. 2	Red framework tower, red round daymark, white stripe; 36.	W. 150°-340°, R.-150°.
13216 *C 5542.1*	--Ostrov Zashcitnyy, rear, 600 meters 238°54′ from front.	60° 41.3′ N 28° 41.1′ E	**Oc.R.** period 3s lt. 2s, ec. 1s	36 **11**	2	Truncated pyramid, white daymark, red stripe; 23.	Visible on range line only.
13220 *C 5544*	-Saymenskiy Range, common front.	60° 41.9′ N 28° 42.7′ E	**Iso.Y.** period 2s	26 **8**	3	White column, red stripe; 12.	
13222 *C 5534.9*	--Sokolinsky, rear, 1740 meters 151°12′ from front.	60° 41.0′ N 28° 43.6′ E	**Iso.Y.** period 2s	62 **19**	5	Concrete column, white daymark; 56.	Visible on range line only. Shown Apr. 1 to Dec. 31.
13224 *C 5544.1*	--Vyborg Severnyy, rear, about 1,815 meters 039°36′ from front.	60° 42.6′ N 28° 44.0′ E	**Oc.R.** period 3s lt. 2s, ec. 1s	75 **23**	4	White concrete tower, white daymark, red stripe; 30.	Visible on range line only.
13228 *C 5546*	-Ostrov Kuposenkivi Range, front.	60° 41.6′ N 28° 42.4′ E	**Fl.W.R.** period 1.5s fl. 0.5s, ec. 1s	20 **6**	W. 4 R. 3	White round concrete beacon, red stripe; 10.	R. 011°-188°, W.-246°.
13232 *C 5546.1*	--Rear, 2.1 kilometers 051° from front.	60° 42.4′ N 28° 44.3′ E	**Q.R.**	58 **18**	3	White column, red stripe.	Visible on range line only.
13236 *C 5548*	-Emmyanpalu.	60° 41.9′ N 28° 43.1′ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	19 **6**	4	Red round concrete tower, white band, on piles; 12.	Visible 210°-095°. *Reported destroyed (1986).*
13248 *C 5552.4*	-Ostrov Kuposensari Range, front.	60° 41.3′ N 28° 42.7′ E	**Iso.R.** period 2s	23 **7**	2	White tower, white panel, black stripe; 16.	Visible on range line only.
13252 *C 5552.41*	--Rear, 66 meters 204°48′ from front.	60° 41.2′ N 28° 42.5′ E	**Iso.R.** period 2s	39 **12**	2	White tower, white panel, black stripe; 26.	Visible on range line only.
13254 *C 5553*	-Pier head Range, common front.	60° 42.7′ N 28° 43.2′ E	**F.R.**	23 **7**	1	White column, black bands; 7.	Visible on range line only. Shown Apr. 30 to Dec. 15.
13254.1 *C 5553.1*	--Rear, 620 meters 350°48′ from front.	60° 43.0′ N 28° 43.1′ E	**Oc.R.** period 3s lt. 2s, ec. 1s	33 **10**	2	White trapezoidal daymark, black stripe; 7.	Visible on range line only. Shown Apr. 30 to Dec. 15.
13254.2 *C 5552.9*	--Rear, 110 meters 057°48′ from front.	60° 42.7′ N 28° 43.3′ E	**F.R.**	30 **9**	1	White column, black bands; 20.	Visible on range line only. Shown Apr. 30 to Dec. 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA-GULF OF FINLAND				
13256 *C 5492*	Mys Krestovyy (Ristniemi).	60° 30.0′ N 28° 16.0′ E	**Fl.W.R.G.** period 3.5s fl. 0.5s, ec. 3s	46 **14**	W. 7 R. 3 G. 2	White concrete tower, black band; 46.	G. 074°-079°, W.-087°, R.-148°, G.-216°, W.-222°, R.-229°.
13258 *C 5505*	Vyborgskiy.	60° 31.6′ N 28° 22.7′ E	**Fl.(2)W.** period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	46 **14**	10	Octagonal tower, red and white bands, balcony; 33.	**Whistle.**
13260 *C 5490*	Landyshevvy Oritsari Range, front.	60° 31.0′ N 28° 10.0′ E	**Q.W.R.G.**	26 **8**	W. 5 R. 3 G. 2	White octagonal tower; 20.	G. 251°-278°, W.-310°, R.-345°, G.-018°, W.-045°, R.-082°, obscured elsewhere.
13261 *C 5490.1*	-Rear, 540 meters 036°30′ from front.	60° 30.5′ N 28° 10.3′ E	**Iso.W.** period 4s	66 **20**	8	Red metal framework tower, white rectangular daymark, black stripe; 56.	
13262 *C 5491*	-Range, front.	60° 32.9′ N 28° 09.9′ E	**Q.W.**	46 **14**	5	Red metal framework tower, white rectangular daymark, black stripe; 36.	Shown from April 25 to December 15.
13263 *C 5491.1*	- -Rear, 730 meters 329°42′ from front.	60° 32.9′ N 28° 09.1′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	85 **26**	5	Red metal framework tower, white rectangular daymark, black stripe; 53.	Shown April 25 to December 15.
13264 *C 5488*	Ostrov Malyy Fiskar, SW. point.	60° 29.0′ N 28° 06.0′ E	**Fl.W.R.G.** period 5s fl. 1s, ec. 4s	57 **17**	W. 6 R. 3 G. 2	Red and white framework tower; 43.	G. 240°-255°, W.-257°, R.-278°, G.-350°, W.-068°, R.-093°, obscured elsewhere.
13268 *C 5496*	Skala Khalli.	60° 24.2′ N 28° 08.2′ E	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s	52 **16**	9	Red slatted quadrangular iron pyramid; 40.	
13272 *C 3946*	**Ostrov Nerva.**	60° 14.8′ N 27° 57.4′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	144 **44**	**18**	Red quadrangular skeleton tower, white top, black band; 120.	Reserve light Fl.W. 8s 14M.
13276 *C 3944*	Ostrov Mayak.	60° 12.4′ N 27° 38.5′ E	**Fl.(2).W.** period 10s	174 **53**	14	Framework tower, red rectangular daymark, white band; 121.	Reserve light range 7M.
	OSTROV MOSHCHNYY (LAVENSAARI):						
13280 *C 3952*	**-Bashnya.**	60° 02.2′ N 27° 49.6′ E	**Fl.(3)W.** period 10s	98 **30**	**15**	Red octagonal metal framework tower; 95.	Reserve light Fl.W. 2s 7M.
13284 *C 3964*	Ostrov Malyy.	60° 02.0′ N 28° 01.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	122 **37**	7	Red metal truncated pyramid, white daymark, red stripe; 90.	
	OSTROV LESNOY (SEYSKARI):						
13288 *C 3968*	-NW. point.	60° 02.2′ N 28° 21.9′ E	**Fl.(2)W.** period 30s fl. 1s, ec. 6.5s fl. 1s, ec. 21.5s	97 **30**	**15**	Red round metal tower, lower part white; 100.	Visible 015°-330°.
13292 *C 3972*	-Pen Kheta-Stor, SE. point of island.	60° 00.5′ N 28° 24.0′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	85 **26**	7	Red quadrangular slatted metal framework tower, upper part white with black median stripe; 77.	Visible 170°-100°.
13296 *C 5482*	Arkhipelag Bol shoy Fiskar, E. island of reefs.	60° 25.0′ N 27° 57.0′ E	**Fl.(2)W.** period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	70 **21**	8	Red quadrangular brick tower, white band; 33.	
13300 *C 5476*	Khemminginletto.	60° 27.0′ N 27° 50.0′ E	**Fl.W.R.G.** period 3.5s fl. 0.5s, ec. 3s	23 **7**	W. 5 R. 3 G. 2	White octagonal lantern; 18.	G. 233°-267°, W.-287°, R.-014°, G.-074°30′, W.-078°, R.-098°.
13301 *C 5485*	-Ryabinnik Range, front.	60° 28.9′ N 27° 58.8′ E	**Iso.W.** period 2s	49 **15**	12	Red metal framework tower, white rectangular daymark, black stripe; 53.	Visible on range line only.
13302 *C 5485.1*	- -Rear, 1.9 miles 261°18′ from front.	60° 28.3′ N 27° 54.7′ E	**Iso.W.** period 4s	154 **47**	12	Red metal framework tower, white rectangular daymark, black stripe; 121.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA-GULF OF FINLAND				
13304 *C 5474*	Ostrov Kozlinyy (Pukkio).	60° 27.0′ N 27° 48.0′ E	**Fl.W.R.G.** period 5s	27 **8**	W. 7 R. 3 G. 1	Framework tower, white lantern, black stripe; 21.	G. 244°-266°, W.-274°, R.-308°, G.-340°, W.-001°, R.-021°, G.-050°, W.-072°, R.-080°, G.-094°, W.-100°, R.-105°.
13308 *C 5472*	Ostrov Kopytin (Kinnarit) Range, front.	60° 26.0′ N 27° 43.0′ E	**Q.W.**	72 **22**	11	Red framework tower, white rectangular daymark, black stripe; 52.	Visible on range line only.
13312 *C 5472.1*	-Rear, 550 meters 263°36′ from front.	60° 25.8′ N 27° 42.1′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	134 **41**	12	Red framework tower, white rectangular daymark, black stripe; 102.	

Section 9

South Coast of Finland and Aland Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
13316 *C 5470*	Huovari (Huovarinsaari).	60° 24.0′ N 27° 42.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	25 **8**	4	Concrete pillar; 8.	R. 029°-040°, W.-071°, G.-094°, W.-155°, R.-167°. Fishing light.
13320 *C 5468*	Parrio.	60° 27.0′ N 27° 43.0′ E	**Fl.(2)W.R.G.** period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	28 **9**	8	White octagonal hut, concrete base.	G. 316°-329°, W.-340°, R.-067°, G.-094°30′, W.-099°, R.-156°. Shown on request.
13324 *C 5466.1*	Jarviluoto Range, front.	60° 28.3′ N 27° 38.4′ E	**Q.W.**	28 **9**	5	White rectangular daymark, red stripe.	Visible 308°-316°.
13324.1 *C 5466.11*	-Rear, 600 meters 311° from front.	60° 28.6′ N 27° 37.8′ E	**L.Fl.W.** period 6s	62 **19**	5	Metal mast, red rectangular daymark, yellow stripe.	Visible 307°-315°.
13332 *C 5465.9*	Siikasaari Range, front.	60° 28.1′ N 27° 37.2′ E	**Q.W.**	36 **11**	6	White rectangular daymark, black stripe.	Visible 031°30′-035°30′.
13336 *C 5466*	-Lipra, rear, 1180 meters 033°30′ from front.	60° 28.6′ N 27° 37.7′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	68 **21**	9	White hut on concrete structure, white rectangular daymark, black stripe; 65.	Visible 031°30′-035°30′.
13340 *C 5465*	Pulteri Range, front.	60° 27.3′ N 27° 34.9′ E	**Q.W.**	12 **4**	6	Red rectangular daymark, yellow stripe.	Visible 260°-268°.
13344 *C 5465.1*	Vasikkapulteri, rear, 265° from front.	60° 28.5′ N 27° 30.0′ E	**Iso.W.** period 6s	29 **9**	5	Red rectangular daymark, yellow stripe.	Visible 260°-268°.
13348 *C 5464*	Mustamaa.	60° 25.7′ N 27° 32.5′ E	**Q.W.R.G.**	22 **7**	5	White octagonal hut on rock.	G. 282°-297°, W.-304°, R.-041°, G.-115°, W.-121°30′, R.-144°. Shown on request.
13352 *C 5456*	Lotouri.	60° 26.4′ N 27° 27.0′ E	**Fl.(2)W.R.G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	18 **5**	6	White octagonal hut, concrete base; 13.	G. 067°-084°, W.-088°, R.-140°, G.-184°, W.-258°, R.-274°. Shown on request.
13388 *C 5441.3*	Vaskonkari.	60° 27.0′ N 27° 19.0′ E	**V.Q.(5)G.** period 6s	13 **4**	2	Red pole, white band.	
13389 *C 5438.6*	Kuorsalo, Range front.	60° 27.2′ N 27° 22.6′ E	**Q.W.**	56 **17**	9	Red rectangular daymark, yellow stripe.	Visible 018°-026°.
13390 *C 5438.61*	-Rear, 022° from front.	60° 27.6′ N 27° 23.0′ E	**L.Fl.W.** period 6s	102 **31**	10	Red rectangular daymark, yellow stripe.	Visible 018°-026°.
13392 *C 5440*	Vasikkaluoto Range, front.	60° 26.0′ N 27° 20.7′ E	**Q.W.**	22 **7**	8	Yellow rectangular daymark, red stripe; 18.	Visible 260°-264°.
13393 *C 5440.1*	-Pitkakotka, rear, 1.2 miles 262° from front.	60° 25.9′ N 27° 18.3′ E	**L.Fl.W.** period 6s	45 **14**	9	Yellow rectangular daymark, red stripe.	Visible 260°-264°.
13394 *C 5438.8*	Houtere Range, front.	60° 26.7′ N 27° 20.8′ E	**Q.Y.**	49 **15**	6	Red rectangular daymark, yellow stripe.	Visible 118°30′-126°30′.
13396 *C 5438.81*	-Rear, 122°30′ from front.	60° 26.6′ N 27° 21.1′ E	**L.Fl.Y.** period 6s	79 **24**	7	Red rectangular daymark, yellow stripe.	Visible 118°30′-126°30′.
13398.2 *C 5438.7*	Vastari Range, front.	60° 24.9′ N 27° 23.8′ E	**Q.W.**	77 **23**	5	Red rectangular daymark, yellow stripe.	Visible 135°-143°.
13398.4 *C 5438.71*	-Rear, 139° from front.	60° 24.6′ N 27° 24.3′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	79 **24**	6	Red rectangular daymark, yellow stripe.	Visible 135°-143°.
13399.4 *C 5438.4*	Vatiniki Range, front.	60° 24.4′ N 27° 18.4′ E	**Q.Y.**	20 **6**	6	Red rectangular daymark, yellow stripe.	Visible 050°-054°.
13399.8 *C 5438.41*	-Rear, 052° from front.	60° 24.8′ N 27° 19.6′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	85 **26**	7	Red rectangular daymark, yellow stripe.	Visible 050°-054°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
13400 *C 5438*	Velperkari, N. side.	60° 22.3′ N 27° 16.5′ E	**Fl.W.R.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	6	White lantern on concrete base; 16.	G. 057°-064°30′, W.-072°, R.-082°, W.-225°.
13401 *C 5438.5*	Tammio Range, front.	60° 24.3′ N 27° 24.0′ E	**Q.W.**	16 **5**	8	Red rectangular daymark, yellow stripe.	Visible 069°-073°.
13401.5 *C 5438.51*	-Rear, 071° from front.	60° 24.4′ N 27° 24.5′ E	**L.Fl.W.** period 6s	66 **20**	9	Red rectangular daymark, yellow stripe.	Visible 069°-073°.
13402 *C 5438.58*	Sunholma.	60° 22.1′ N 27° 18.4′ E	**Q.(5)W.** period 6s	51 **16**	5	White cairn, red band.	Visible 200°-204°.
13404 *C 5412*	Veitkari.	60° 16.0′ N 27° 14.4′ E	**Fl.(2)W.R.G.** period 6s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4s	33 **10**	7	White lantern on concrete base; 15.	G. 132°-146°, W.-177°, R.-232°, G.-283°, W.-023°, R.-026°, G.-029°, W.-071°, R.-087°. **Radar reflector.**
	RACON		**T(–)** period 90s		10		
13408 *C 5413*	Luppi.	60° 14.0′ N 27° 02.0′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	6	Red hut.	G. 257°-274°, W.-048°30′, R.-074°. Fishing light.
13409 *C 5411*	Haapasaari, E. side.	60° 17.4′ N 27° 12.3′ E	**I.U.Q.Y.** period 6s	13 **4**	8	Column.	Visible 130°-310°.
13412 *C 5410*	Kivikari, on rock.	60° 18.0′ N 27° 12.0′ E	**Q.W.R.G.**	26 **8**	7	White hut on white base; 12.	G. 301°-314°, W.-321°, R.-008°, G.-135°, W.-146°, R.-162°.
13413 *C 5414*	Kuutal-Petajaimen Range, front.	60° 18.2′ N 27° 08.8′ E	**Q.W.**	39 **12**	8	Red rectangular daymark, yellow stripe.	Visible 180°30′-184°30′.
13413.5 *C 5414.1*	- -Vanhankylanmaa Rear, 182°30′ from front.	60° 17.4′ N 27° 08.7′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	92 **28**	9	Metal framework tower, red rectangular daymark, yellow stripe.	Visible 180°30′-184°30′.
13414 *C 5414.3*	Keskihallinkari.	60° 19.9′ N 27° 11.1′ E	**L.Fl.W.** period 6s	66 **20**	9	White steel tower, red band.	Visible 102°-106°. **Radar reflector.**
13414.3 *C 5396.8*	Satamasaari Range, front.	60° 24.9′ N 27° 02.8′ E	**Q.R.**	6 **2**	3	White rectangular daymark, black stripe.	Visible 310°-320°. On request.
13414.31 *C 5396.81*	-Pihlajakar, Rear, 835 meters 315° from front.	60° 25.2′ N 27° 02.1′ E	**Iso.R.** period 6s	26 **8**	3	White rectangular daymark, black stripe.	Visible 310°-320°. On request.
13416 *C 5415*	Suur Musta.	60° 27.4′ N 27° 09.4′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	7	Mast, white lantern, black band, on concrete base.	G. 036°-079°30′, W.-083°, R.-170°.
13420 *C 5396*	Vehkaluoto Range, front.	60° 27.0′ N 27° 06.0′ E	**Q.W.**	24 **7**	10	Red rectangular daymark, white stripe; 21.	Visible 112°30′-120°30′.
13424 *C 5396.1*	-Rear, 365 meters 116°30′ from front.	60° 26.9′ N 27° 06.5′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	46 **14**	10	Red rectangular daymark, yellow stripe.	Visible 112°30′-120°30′.
13425 *C 5416.4*	-Lopaskeri Range, front.	60° 26.2′ N 27° 09.9′ E	**Q.W.**	33 **10**	8	Mast, red rectangular daymark, yellow stripe.	Visible 157°-165°.
13425.5 *C 5416.41*	- -Rear, 0.6 mile 161° from front.	60° 25.8′ N 27° 10.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	52 **16**	8	Metal framework tower, red rectangular daymark, yellow stripe.	Visible 157°-165°.
13425.7 *C 5414.4*	Lopaskerinluoto Range front.	60° 26.1′ N 27° 09.5′ E	**Q.W.**	29 **9**	8	Mast, yellow rectangular daymark, red stripe.	Visible 000°30′-004°30′.
13425.71 *C 5414.41*	-Suur Musta, rear, 1.4 miles 002°30′ from front.	60° 27.4′ N 27° 09.6′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	69 **21**	9	Metal framework tower, yellow rectangular daymark, red stripe.	Visible 000°30′-004°30′.
13426 *C 5415.4*	-Einan Karinmatala,	60° 25.8′ N 27° 08.3′ E	**Q.W.**	23 **7**	7	Red round concrete tower.	**Radar reflector.**
	-RACON		**T(–)** period 90s		11		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
13427 *C 5418.4*	-Vehkaluoto Range, front.	60° 26.9′ N 27° 06.7′ E	**Q.W.**	26 **8**	5	Red rectangular daymark, yellow stripe.	Visible 194°30′-202°30′.
13427.5 *C 5418.41*	- -Martinkari rear, 0.7 miles 198°30′ from	60° 26.3′ N 27° 06.3′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	52 **16**	6	Mast, red rectangular daymark, yellow stripe.	Visible 194°30′-202°30′.
	HAMINA APPROACH:						
13428 *C 5420.4*	-Kaurakari.	60° 31.0′ N 27° 10.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	14 **4**	5	Yellow rectangular daymark, red border.	G. 054°-154°, W.-188°, R.-205°, G.-213°, W.-217°, R.-301°.
13432 *C 5418*	-Sovinnonmatala.	60° 28.0′ N 27° 09.0′ E	**V.Q.(5)W.** period 6s	46 **14**	7	Yellow column, blue top.	**Radar reflector.**
13433 *C 5416*	-Varvio Range, front.	60° 28.7′ N 27° 09.5′ E	**Q.W.**	46 **14**	8	Metal framework tower, red rectangular daymark, yellow stripe.	Visible 008°-016°.
13433.5 *C 5416.1*	- -Rear, 330 meters, 012° from front.	60° 28.8′ N 27° 09.6′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	69 **21**	8	Metal framework tower, red rectangular daymark, yellow stripe.	Visible 008°-016°.
13434 *C 5417*	Pakaskeri Range front.	60° 28.7′ N 27° 06.6′ E	**Q.Y.**	26 **8**	8	Red rectangular daymark, yellow stripe.	Visible 337°30′-345°30′.
13434.5 *C 5417.1*	-Kuutinki, rear, 1.5 miles, 341°30′ from front.	60° 30.1′ N 27° 05.7′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	88 **27**	11	Metal framework tower, red rectangular daymark, yellow stripe.	Visible 337°30′-345°30′.
13436 *C 5419.2*	-Saunamaa Range, front, on NE. point.	60° 31.0′ N 27° 07.0′ E	**Q.W.**	30 **9**	10	Red rectangular daymark, yellow stripe.	Visible 281°-289°.
13437 *C 5419.21*	- -Kuusimaa, rear, 285° from front.	60° 31.1′ N 27° 06.2′ E	**L.Fl.W.** period 6s	59 **18**	6	Red rectangular daymark, yellow stripe.	Visible 281°-289°.
13438 *C 5417.4*	-Matomaa Range, front.	60° 30.7′ N 27° 06.7′ E	**Q.W.**	23 **7**	8	Red rectangular daymark, yellow stripe.	Visible 337°-345°.
13438.5 *C 5417.41*	- -Saunamaa, rear, 600m 341° from front.	60° 31.0′ N 27° 06.5′ E	**Iso.W.** period 6s	56 **17**	8	Mast, red rectangular daymark, yellow stripe.	Visible 337°-345°.
13444 *C 5419.3*	-Helinginsaari Range, front.	60° 32.3′ N 27° 06.1′ E	**Q.R.**	13 **4**	6	Yellow rectangular daymark, red stripe.	Visible 334°-338°.
13448 *C 5419.31*	- -Rear, 336° from front.	60° 32.3′ N 27° 06.0′ E	**Q.R.**	26 **8**	6	Yellow rectangular daymark, red stripe.	Visible 334°-338°.
	HAMINA HAAPASAARI:						
13452 *C 5419.4*	-Summa Range, front.	60° 32.0′ N 27° 07.0′ E	**F.R.**	13 **4**		Red rectangular daymark, white triangle, point up.	Visible 335°-155°.
13456 *C 5419.41*	- -Rear, 065° from front.	60° 32.0′ N 27° 07.2′ E	**F.R.**	30 **9**		Red rectangular daymark, white triangle, point down.	Visible 335°-155°.
13460 *C 5419*	**-Hillonniemi Range,** front.	60° 31.2′ N 27° 09.5′ E	**Iso.W.** period 2s	69 **21**	**15**	Metal framework, red rectangular daymark, yellow strip; 10.	Visible 008°30′-028°30′.
13464 *C 5419.1*	- -Rear, 200 meters 018°30′ from front.	60° 31.4′ N 27° 09.6′ E	**Iso.W.** period 4s	95 **29**	**16**	Gray metal framework tower, red rectangular daymark, yellow stripe; 5.	Visible 008°30′-028°30′. Synchronized with front.
13465 *C 5438.9*	Ravaholma Range, front.	60° 30.2′ N 27° 11.1′ E	**Q.W.**	62 **19**	7	Metal mast, red rectangular daymark, yellow stripe.	Visible 304°30′-312°-30′.
13465.5 *C 5438.91*	- -Rear, 540 meters, 308°30′ from front.	60° 30.4′ N 27° 10.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	105 **32**	7	Metal mast, red rectangular daymark, yellow stripe.	Visible 304°30′-312°30′.
13466 *C 5422*	-Norskari.	60° 31.8′ N 27° 11.5′ E	**I.U.Q.W.** period 6s	18 **5**	5	Steel mast, red and white bands.	
13468 *C 5420*	-Kakarkari Range, front.	60° 32.0′ N 27° 12.0′ E	**Q.W.**	20 **6**	7	Yellow rectangular daymark, red border.	Visible 036°-058°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
13472 *C 5420.1*	- -Rear, Nurmilahti, 475 meters 045°30′ from front.	60° 32.0′ N 27° 12.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	33 **10**	6	Yellow rectangular daymark, red border; 30.	Visible 041°30′-049°30′.
13476 *C 5420.8*	-Palokangas Range, front.	60° 32.0′ N 27° 10.0′ E	**F.G.**	29 **9**	2	White square and red triangular daymark, point up.	Visible 335°-355°.
13480 *C 5420.81*	- -Rear, 344° from front.	60° 31.8′ N 27° 09.9′ E	**F.G.**	46 **14**	2	White square and red triangular daymark, point down.	Visible 335°-355°.
	HAMINA:						
13492 *C 5428*	-Suviluoto.	60° 32.3′ N 27° 11.6′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	10 **3**	5	Steel mast, yellow rectangular daymark, red stripe.	G. 342°-005°30′, W.-009°30′, R.-027°, G.-049°30′, W.-056°, R.-065°, G.-078°, W.-084°, R.-105°.
13496 *C 5421*	-Vilniemi.	60° 32.0′ N 27° 12.0′ E	**Q.W.R.G.**	13 **4**	5	White lantern; 5.	G. 088°-150°, W.-155°, R.-170°.
13500 *C 5425*	-Syvasatama Laituri Range, front.	60° 32.0′ N 27° 10.0′ E	**F.R.**	43 **13**	2	Post; 33.	Visible 264°-300°.
13504 *C 5425.1*	- -Rear, 76 meters 286° from front.	60° 32.3′ N 27° 10.1′ E	**F.R.**	59 **18**	2	Post; 44.	Visible 264°-300°.
13508 *C 5424*	-Syvasatama Range, front.	60° 32.0′ N 27° 10.0′ E	**Q.R.**	49 **15**	4	Post; 33.	Visible 301°-325°.
13512 *C 5424.1*	- -Rear, 107 meters 313° from front.	60° 32.4′ N 27° 10.4′ E	**Q.R.**	75 **23**	4	Post; 43.	Visible 301°-325°.
13514 *C 5435*	-Nuutiniemi Range, front.	60° 33.1′ N 27° 10.4′ E	**F.R.**	20 **6**	1	Red rectangular and white triangular daymark.	Visible 236°-256°.
13514.1 *C 5435.1*	- -Rear, about 90 meters 246° from front.	60° 33.1′ N 27° 10.3′ E	**F.R.**	36 **11**	1	Red rectangular and white triangular daymark.	Visible 236°-256°.
13516 *C 5430*	-Tervasaari Range, front.	60° 34.0′ N 27° 11.0′ E	**F.G.**	36 **11**	4	Column, red round and white triangular daymark, point up; 31.	Visible 355°-015°.
13520 *C 5430.1*	- -Rear, 90 meters 007° from front.	60° 33.8′ N 27° 10.9′ E	**F.G.**	46 **14**	4	Column, red round and white triangular daymark,point down; 41.	Visible 355°-015°.
13524 *C 5432*	-Railway embankment Range, front.	60° 33.7′ N 27° 11.0′ E	**F.R.**	26 **8**	2	Column, red round and white triangular daymark, point up; 26.	Visible 006°-026°.
13528 *C 5432.1*	- -Rear, 256 meters 016° from front.	60° 33.8′ N 27° 11.0′ E	**F.R.**	52 **16**	2	Column, red round and white triangular daymark, point down; 21.	Visible 006°-026°.
13532 *C 5434*	-Lepikonlinja Range, front.	60° 34.0′ N 27° 12.0′ E	**F.G.**	30 **9**	2	Red round and white triangular daymark, point up.	Visible 008°-040°.
13536 *C 5434.1*	- -Rear, 73 meters 023° from front.	60° 33.9′ N 27° 11.8′ E	**F.G.**	56 **17**	2	Red round and white triangular daymark, point down.	Visible 008°-040°.
13538 *C 5403*	-Varissaari Range, front.	60° 26.8′ N 26° 57.5′ E	**Q.W.**	26 **8**	3	Red rectangular daymark, yellow stripe.	Visible 226°-234°.
13538.5 *C 5403.1*	- -Rear, 260m 230° from front.	60° 26.7′ N 26° 57.1′ E	**Iso.W.** period 4s	39 **12**	3	Red rectangular daymark, yellow stripe.	Visible 226°-234°.
13540 *C 5406*	-Vahakari.	60° 20.0′ N 27° 04.0′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	6	White hut on concrete base; 13.	G. 112°-119°30′, W.-122°30′, R.-210°, G.-232°, W.-242°, R.-290°.
13542 *C 5408*	-Merikari.	60° 21.1′ N 27° 05.5′ E	**V.Q.(5)R.** period 6s	39 **12**	2	Mast.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
13544 *C 3932*	**Ostrov Rodsher.**	59° 58.2′ N 26° 40.8′ E	**Fl.(2)W.** period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	65 **20**	**15**	Red octagonal stone structure; 62.	Reserve light range 6M.
	RACON		**W(• – –)** period 75s		10		
13548 *C 3934*	Severnyy Virgin.	59° 57.0′ N 26° 52.0′ E	**Fl.W.** period 4s	41 **12**	6	Red 4-sided pyramid with conical top, with 2 balls under a cross daymark; 45.	
	OSTROV GOGLAND (SUURKELI):						
13552 *C 5378*	-Mys Lounatrivi (Paunat Revi).	60° 00.8′ N 27° 00.5′ E	**Fl.W.** period 6s	89 **27**	10	Red round brick tower; 84.	Visible 222°-113°. Reserve light range 8M. **Radiobeacon.**
13556 *C 5374*	-N. head.	60° 06.0′ N 26° 57.0′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	435 **133**	**26**	Red metal framework tower, 2 platforms; 75.	Visible 348°-324°. Reserve light range 10M.
			FINLAND-GULF OF FINLAND				
	KOTKA APPROACH:						
13560 *C 5380*	-Kotkan Majakka.	60° 10.3′ N 26° 39.2′ E	**Fl.(4)W.** period 30s	74 **23**	12	Yellow steel column, blue band. Helicopter platform.	
	-RACON		**K(– • –)**		12		
13561 *C 5380.5*	-Elo "2".	60° 14.2′ N 26° 47.7′ E	**V.Q.W.**	41 **12**	4	N. CARDINAL BY, beacon, topmark.	
13562 *C 5380.6*	-Kaakoniemi.	60° 16.6′ N 26° 52.1′ E	**V.Q.(3)W.** period 5s	41 **12**	4	E. CARDINAL BYB, beacon, topmark.	
13563 *C 5381*	-Kiviletto.	60° 17.6′ N 26° 56.9′ E	**Fl.W.** period 6s	62 **19**	8	White steel mast, orange band.	Visible 053°-057°. **Radar reflector.**
13564 *C 5386*	Rankki.	60° 22.0′ N 26° 58.0′ E	**Fl.(3)W.R.G.** period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 5.6s	36 **11**	6	Black round concrete tower.	G. 225°30′-288°, W.-295°, R.-048°, G.-096°, W.-101°, R.-127°.
13566 *C 5385*	-Rankin Kivikari, reef, N. end.	60° 21.2′ N 26° 57.4′ E	**U.Q.(5)W.** period 6s	33 **10**	3	White steel post, red band.	**Radar reflector.**
	-RACON		**T(–)** period 90s		11		
13568 *C 5387*	-Retonpaasi.	60° 22.0′ N 27° 01.0′ E	**U.Q.(5)W.** period 6s	33 **10**	2	White lantern on steel post.	**Radar reflector.**
13569 *C 5382*	-Harvasaari Range, front.	60° 24.7′ N 26° 51.6′ E	**Fl.W.** period 3s	32 **10**	12	Steel mast, red rectangular daymark, yellow stripe.	Visible 352°30′-357°30′.
13569.1 *C 5382.1*	- -Rear, 1.3 miles 355° from front.	60° 26.0′ N 26° 51.4′ E	**L.Fl.W.** period 12s	141 **43**	14	Steel mast, red rectangular daymark, yellow stripe.	Visible 352°30′-357°30′. Synchronized with front.
13570 *C 5382.5*	-Mussalo.	60° 25.2′ N 26° 54.2′ E	**Iso.W.R.G.** period 2s	36 **11**	3	Steel mast, red rectangular daymark, yellow stripe.	G. 010°-013°, W.-022°, R.-025°.Shown 24 hrs.
13571 *C 5383*	-Kukouri Range, front.	60° 25.8′ N 26° 56.9′ E	**Q.W.**	16 **5**	8	Steel mast, red rectangular daymark, yellow stripe.	Visible 047°30′-051°30′.
13571.1 *C 5383.1*	- -Rear, 1850 meters 049°30′ from front.	60° 26.5′ N 26° 58.5′ E	**L.Fl.W.** period 6s	58 **18**	9	Steel mast, red rectangular daymark, yellow stripe.	Visible 047°30′-051°30′. Synchronized with front.
13571.3 *C 5383.3*	-Viikarinsalmi.	60° 24.7′ N 26° 54.6′ E	**Fl.G.** period 3s	41 **12**	4	Beacon, green triangular daymark.	

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			FINLAND-GULF OF FINLAND				
13580 *C 5390*	-Hietakari.	60° 24.0′ N 27° 00.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	7	White lantern on white concrete base; 10.	G. 339°-355°, W.-014°, R.-102°, G.-115°30′, W.-120°, R.-134°.
13584 *C 5388*	-Lellerinsaaret.	60° 24.0′ N 26° 58.0′ E	**Fl.(2)W.R.G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 **5**	7	Octagonal hut on concrete base.	G. 144°-167°, W.-174°, R.-244°, G.-330°30′, W.-336°, R.-354°.
13588 *C 5392*	-Santakari Range, front.	60° 26.1′ N 26° 58.4′ E	**Q.Y.**	13 **4**	5	Red rectangular daymark, yellow stripe; 30.	Visible 054°-058°. Shown 24 hours.
13592 *C 5392.1*	--Rear, Laukkaanniemi, 2.2 km. 056° from front.	60° 26.8′ N 27° 00.4′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	75 **23**	10	Red rectangular structure, yellow stripe.	Visible 052°-060°.
13596 *C 5394.4*	-Lehmansaari Range, front.	60° 26.5′ N 26° 58.5′ E	**Q.W.**	46 **14**	5	Steel mast, red rectangular daymark, white stripe.	Visible 171°-179°.
13600 *C 5394.41*	--Rear, 175° from front.	60° 25.5′ N 26° 58.6′ E	**L.Fl.W.** period 6s	109 **33**	8	Steel mast, red rectangular daymark, white stripe.	Visible 171°-179°.
13604 *C 5394*	-Pirkoyri.	60° 28.0′ N 26° 59.0′ E	**Q.W.R.G.**	20 **6**	7	Red steel structure, white concrete base.	G. 000°-162°, W.-165°, R.-178°. **Radar reflector.**
13608 *C 5394.2*	-Pirkoyri Range, front.	60° 28.0′ N 26° 59.0′ E	**Q.Y.**	46 **14**	7	Red rectangular daymark, yellow stripe; 16.	Visible 014°-022°.
13612 *C 5394.21*	--Rear, 274 meters 017°30′ from front.	60° 27.8′ N 26° 58.7′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	75 **23**	7	Metal mast, red rectangular daymark, yellow stripe.	Visible 014°-022°.
	KOTKA:						
13624 *C 5397*	-Sunila Range, front.	60° 30.0′ N 26° 57.0′ E	**Q.Y.**	16 **5**	2	Red rectangular daymark, yellow stripe.	Visible 328°-336°.
13628 *C 5397.1*	--Rear, 146 meters 332° from front.	60° 29.7′ N 26° 56.5′ E	**Q.Y.**	39 **12**	2	Red rectangular daymark, yellow stripe.	Visible 328°-336°.
13632 *C 5396.9*	-Halla Range, front.	60° 28.6′ N 26° 58.3′ E	**Q.W.**	46 **14**	9	Red rectangular daymark, yellow stripe.	Visible 351°-359°.
13636 *C 5396.91*	--Rear, 355° from front.	60° 28.7′ N 26° 58.1′ E	**Q.W.**	66 **20**	9	Red rectangular daymark, yellow stripe.	Visible 351°-359°.
13638 *C 5405.6*	-Halla Range, front.	60° 28.9′ N 26° 58.5′ E	**F.Y.**	23 **7**	5	White rectangular daymark, red stripe.	Visible 291°30′-301°30′.
13638.1 *C 5405.61*	--Rear, about 120 meters 296°30′ from front.	60° 28.9′ N 26° 58.4′ E	**F.Y.**	59 **18**	7	White rectangular daymark, red stripe.	Visible 291°30′-301°30′.
13644 *C 5392.6*	-Patterinmaki Range, front.	60° 27.0′ N 26° 56.0′ E	**Q.G.**	52 **16**		Red rectangular daymark, yellow stripe.	Visible 356°-004°.
13648 *C 5392.61*	--Rear, 213 meters 000° from front.	60° 26.9′ N 26° 56.2′ E	**Iso.G.** period 4s	75 **23**		Red rectangular daymark, yellow stripe.	Visible 356°-004°.
13652 *C 5392.7*	-Puistolanranta Range, front.	60° 27.0′ N 26° 56.0′ E	**F.W.**	23 **7**	2	Red rectangular daymark, yellow stripe. Floodlit.	Visible 110°-290°.
13656 *C 5392.71*	--Rear, 020° from front.	60° 27.0′ N 26° 56.0′ E	**F.W.**	36 **11**	2	Red rectangular daymark, yellow stripe.	Visible 110°-290°.
13658 *C 5390.4*	-Tuohipollo Range, front.	60° 26.0′ N 26° 55.6′ E	**Q.W.**	23 **7**	8	Yellow rectangular daymark, red stripe.	Visible 318°-322°.
13658.1 *C 5390.41*	--Rear, 320° from front.	60° 26.2′ N 26° 55.1′ E	**L.Fl.W.** period 6s	41 **12**	8	Yellow rectangular daymark, red stripe.	Visible 318°-322°.
13660 *C 5393.4*	-Powerhouse Range, front.	60° 26.2′ N 26° 55.1′ E	**F.R.**	26 **8**	4	Steel pillar, white rectangular and red triangular daymarks, on concrete base.	Visible 164°-344°.
13660.1 *C 5393.41*	--Rear, 254° from front.	60° 26.2′ N 26° 54.8′ E	**F.R.**	32 **10**	4	Steel pillar, white rectangular and red triangular daymarks, on concrete base.	Visible 164°-344°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
13672 *C 5393*	-Oljysatama Range, front.	60° 27.0′ N 26° 56.0′ E	**Q.R.**	50 **15**	4	Steel mast, yellow rectangular daymark, red stripe.	Visible 339° -003°.
13676 *C 5393.1*	- -Rear, 160 meters 351° from front.	60° 27.1′ N 26° 55.9′ E	**Iso.R.** period 4s	72 **22**	4	Steel mast, yellow rectangular daymark, red stripe.	Visible 339°-003°.
13688 *C 5368*	Kaunissaari, N. extremity.	60° 22.0′ N 26° 46.0′ E	**Fl.W.R.G.** period 3s fl. 0.4s, ec. 2.6s	20 **6**	7	White concrete tower; 10.	G. 062°-080°, W.-088°30′, R.-116°, G.-143°, W.-241°, R.-300°. **Radar reflector.**
13692 *C 5356*	Viikari Range, front.	60° 24.4′ N 26° 55.4′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	8	Red rectangular daymark, yellow stripe.	Visible 067°30′-075°30′.
13696 *C 5356.1*	-Lehma, rear, 071°30′ from front.	60° 25.1′ N 26° 59.1′ E	**L.Fl.W.** period 6s	121 **37**	9	Red rectangular daymark, yellow stripe.	Visible 069°30′-073°30′.
13700 *C 5369*	-Verkkoniemi.	60° 20.6′ N 26° 46.9′ E	**Fl.W.R.** period 2.5s fl. 0.5s, ec. 2s	10 **3**	2	Post; 4.	R. 035°-087°, W.-035°. Fishing light.
13704 *C 5370*	-Keihassalmi Range, front.	60° 26.0′ N 26° 40.0′ E	**Q.W.**	13 **4**	5	Red rectangular daymark, yellow stripe; 4.	Visible 312°-320°.
13708 *C 5370.1*	-Rear, 316° from front.	60° 26.0′ N 26° 39.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	33 **10**	9	Red rectangular daymark, yellow stripe.	Visible 312°-320°.
13720 *C 5366*	Kalliokari.	60° 19.0′ N 26° 45.0′ E	**Fl.W.** period 3s fl., ec. 2.5s	23 **7**	2	Post; 8.	Fishing light.
13780 *C 5349*	Lalatta, NE. islet.	60° 17.2′ N 26° 33.3′ E	**Fl.(2)W.R.G.** period 6s	31 **9**	6	Black round concrete tower, black octagonal lantern; 26.	G. 082°-150°, W.-152°30′, R.-188°, G.-208°, W.-220°, R.-232°. **Radar reflector.**
	RACON		**T(–)** period 90s		10		
13816 *C 5324*	-Range, front.	60° 16.4′ N 26° 27.2′ E	**Q.W.**	52 **16**	14	Red rectangular concrete block, white stripe.	Visible 013°-033°.
	-RACON		**T(–)** period 90s		10		
13820 *C 5324.1*	- -Rear, 463 meters 023° from front.	60° 16.6′ N 26° 27.3′ E	**Q.W.**	82 **25**	14	Framework structure, red rectangular topmark, white stripe.	Visible 013°-033°. Synchronized with front.
13824 *C 5321*	Tainio, 6.0 kilometers 099°15′ from Hamnskar.	60° 12.8′ N 26° 24.8′ E	**Q.(5)W.** period 6s	57 **17**	6	Tower, black over white, red lantern on roof; 56.	**Radar reflector.**
	RACON		**T(–)** period 30s		12		
13828 *C 5328*	Skarven.	60° 17.8′ N 26° 20.7′ E	**Fl.W.R.G.** period 3s	22 **7**	4	Black octagonal hut, concrete base.	G. 051°-064°, W.-068°30′, R.-159°, G.-241°, W.-267°, R.-310°.
	RACON		**T(–)** period 90s		9		
13932 *C 5320*	Hamnskar, E. side.	60° 13.0′ N 26° 18.0′ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	4	Red structure.	W. 100°-210°, R.-288°, W.-050°, R.-100°.
13936 *C 5318*	Tiiskeri.	60° 10.0′ N 26° 16.0′ E	**Fl.(2)W.** period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	54 **16**	9	Black tower; 44.	
	RACON		**T(–)** period 90s		12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
13940 *C 5284*	Skarvgadderna Range, front.	60° 11.0′ N 26° 08.0′ E	**Fl.W.R.G.** period 2s	20 **6**	6	Lantern on masonry base, upper part black, lower part white.	G. 054°-070°, W.-074°, R.-110°, G.-182°, W.-195°, R.-210°. **Radar reflector.**
	RACON		**G(– – •)** period 30s		10		
13944 *C 5284.1*	-Vesikivi, rear, 5.2 km. 072°30′ from front.	60° 11.8′ N 26° 13.1′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	43 **13**	9	Metal mast, yellow rectangular daymark, red vertical stripe.	Visible 070°30′-074°30′. **Radar reflector.**
13958	Gasskvatten Beacon, RACON.	60° 11.0′ N 26° 03.0′ E	**T(–)** period 30s		10		
14072 *C 5268*	Aggskar, S. point.	60° 12.0′ N 25° 45.0′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	21 **6**	5	White hut; 10.	G. 223°-235°, W.-257°, R.-337°, G.-008°, W.-011°30′, R.-130°.
14084 *C 5239*	**Kalbadagrund.**	59° 59.0′ N 25° 36.0′ E	**L.Fl.(4)W.** period 30s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 13s	88 **27**	12	Red concrete tower, white field, helicopter platform on top; 82.	Visible 195°-180°.
	RACON		**K(– • –)** period 30s		13		
14086	Jaktgrund Beacon, RACON.	59° 59.9′ N 25° 33.3′ E	**T(–)** period 90s		10		
14088 *C 5239.4*	Porvoon Range, front.	60° 05.6′ N 25° 36.5′ E	**Iso.W.R.G.** period 2s	34 **10**	7	Red tower, black band; 33.	W. 004°-027°, R.-105°, G.-229°, W.-237°, R.-285°, G.-004°.
	RACON		**T(–)** period 30s		10		
14092 *C 5239.41*	-Larsskar, rear, 5.5 km. 016° from front.	60° 08.7′ N 25° 37.8′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	118 **36**	9	Red rectangular daymark, yellow stripe.	Visible 014°-018°.
14096 *C 5240.4*	Kolhallen.	60° 06.0′ N 25° 39.0′ E	**Fl.(3)W.R.G.** period 10s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 6s	34 **10**	3	Black tower, white band.	G. 028°-041°, W.-055°, R.-173°, G.-190°, W.-200°, R.-231°.
14112 *C 5240*	Brunskar Range, front.	60° 07.6′ N 25° 40.5′ E	**Q.Y.**	26 **8**	7	Red rectangular daymark, yellow stripe.	Visible 040°-044°.
14116 *C 5240.1*	-Rear, 430 meters 042° from front.	60° 07.7′ N 25° 40.8′ E	**L.Fl.W.Y.** period 6s fl. 2s, ec. 4s	41 **12**	W. 5	Red rectangular daymark, yellow stripe.	W. 156°30′-164°30′, Y. 040°-044°.
14144 *C 5235*	Pentarn.	60° 08.1′ N 25° 16.7′ E	**Fl.W.R.G.** period 2s fl. 0.5s, ec. 1.5s	33 **10**	6	Red hut; 10.	G. 230°-247°, W.-251°, R.-262°.
14224 *C 5227*	Tallorn Range, front.	60° 10.8′ N 25° 18.8′ E	**Q.(2)W.R.G.** period 3s fl. 0.2s, ec. 0.6s fl. 0.2s, ec. 2s	23 **7**	7	Red rectangular daymark, yellow stripe; 6.	W. 049°-154°, G.-226°, W.-230°, R.-243°.
14228 *C 5227.1*	-Rear, Graskar, N. point, 074° from front.	60° 11.6′ N 25° 24.8′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	54 **16**	9	Red rectangular daymark, yellow stripe; 24.	Visible 072°-076°.
14316 *C 5226.2*	Trutsten.	60° 08.9′ N 25° 16.5′ E	**V.Q.(2)Y.** period 3s fl. 0.2s, ec. 0.3s fl. 0.2s, ec. 2.3s	30 **9**	3	Metal mast, red and white triangular daymark, point down.	**Radar reflector.**
14320 *C 5224*	Torra Hasten (Kuiva Hevonen) NW. extremity.	60° 09.6′ N 25° 13.2′ E	**Fl.W.R.G.** period 5s fl. 1s, ec. 4s	26 **8**	7	White hut; 7.	G. 043°-059°, W.-061°30′, R.-106°, G.-243°30′, W.-245°30′, R.-268°.
14324 *C 5224.15*	Tirhall.	60° 09.7′ N 25° 12.5′ E	**V.Q.(6)+L.Fl.W.** period 10s	39 **12**	2	S. CARDINAL YB, beacon, topmark.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
14328 *C 5223*	Torra Hasten Range, front.	60° 09.3′ N 25° 13.7′ E	**Q.W.**	17 **5**	5	Framework tower, red rectangular daymark, yellow stripe.	Visible 077°-085°.
14332 *C 5223.1*	-Rear, 081° from front.	60° 09.4′ N 25° 13.7′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	42 **13**	5	Framework tower, red rectangular daymark, yellow stripe.	Visible 077°-085°.
14336 *C 5222*	Svarta Hasten, (Musta Hevonen) Range, front.	60° 10.4′ N 25° 14.3′ E	**Q.Y.**	19 **6**	4	Red rectangular daymark, yellow stripe; 12.	Visible 041°30′-049°30′.
14340 *C 5222.1*	-Rear, 365 meters 045°30′ from front.	60° 10.5′ N 25° 14.4′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	36 **11**	5	Red rectangular daymark, yellow stripe; 26.	Visible 041°30′-049°30′.
14344 *C 5220*	Villinginluoto Range, front.	60° 09.5′ N 25° 09.9′ E	**Q.W.**	28 **9**	5	Red rectangular daymark, yellow stripe; 13.	Visible 044°-052°.
14348 *C 5220.1*	-Rear, on Hattholmen about 833 meters 048° from front.	60° 09.9′ N 25° 10.5′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	43 **13**	6	Red rectangular daymark, yellow stripe; 33.	Visible 044°-052°.
14360 *C 5217*	Svartkubben Range, front.	60° 08.3′ N 25° 09.0′ E	**Q.Y.**	22 **7** 7 **2**	5	Yellow rectangular daymark, red stripe; 14.	Visible 065°-073°.
14364 *C 5217.1*	-Rear, on Maraskrin, 069° from front.	60° 08.5′ N 25° 09.8′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	43 **13**	6	Yellow rectangular daymark, red stripe; 34.	Visible 065°-073°.
14368 *C 5216.4*	Maraskrin Range, front	60° 08.8′ N 25° 11.0′ E	**Q.Y.**	23 **7**	4	Red rectangular daymark, yellow stripe.	Visible 221°30′-229°30′.
14372 *C 5216.41*	-Rear, 185 meters 225°30′ from front.	60° 08.8′ N 25° 10.8′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	34 **10**	5	Red rectangular daymark, yellow stripe.	Visible 221°30′-229°30′.
14380 *C 5216*	Trutholmen Range, front.	60° 08.9′ N 25° 07.2′ E	**Q.W.**	26 **8**	7	Red rectangular daymark, yellow stripe; 13.	Visible 256°-264°.
14384 *C 5216.1*	-Rear, 275 meters 261° from front.	60° 08.8′ N 25° 06.7′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	42 **13**	7	Red rectangular daymark, yellow stripe; 21.	Visible 256°-264°.
14388 *C 5214*	Jungfruholmen (Neitsytsaari).	60° 09.1′ N 25° 06.1′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	5	White hut on concrete base; 5.	G. 081°-099°, W.-106°, R.-195°, G.-279°, W.-281°, R.-307°.
	HELSINKI (HELSINGFORS) APPROACH:						
14396 *C 5212*	-Koholmen, (Lehmasaari) N. point.	60° 09.4′ N 25° 03.8′ E	**Q.W.R.G.** period 3s	8 **2**	5	White hut; 5.	G. 085°-098°30′, W.-103°30, R.-232°, G.-285°30′, W.-290°, R.-301°, obscured elsewhere.
14400 *C 5210*	-Hastnas Channel, S. side.	60° 09.5′ N 25° 03.1′ E	**V.Q.(5)W.** period 6s	14 **4**	9	White lantern.	Visible 038°-289°.
14404 *C 5208*	Bjorkholmen (Koivusaari), S. point.	60° 09.3′ N 25° 01.7′ E	**Q.W.R.G.**	9 **3**	5	White hut; 8.	G. 236°-256°, W.-268°, R.-282°, G.-290°, W.-293°, R.-340°, G.-007°, W.-011°, R.-056°, G.-122°, W.-124°, R.-146°.
14406 *C 5203*	-Soberudden Range, front.	60° 08.1′ N 25° 01.9′ E	**Q.Y.**	30 **9**	5	Yellow rectangular daymark, red band.	Visible 135°-143°.
14406.1 *C 5203.1*	--Rear, 139° from front.	60° 08.1′ N 25° 01.9′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	46 **14**	4	Yellow rectangular daymark, red band.	Visible 135°-143°.
14407 *C 5203.4*	-Notholmen Range, front.	60° 08.4′ N 25° 01.7′ E	**Q.Y.**	20 **6**	4	Yellow rectangular daymark, red band.	Visible 351°-359°.
14407.1 *C 5203.41*	--Rear, 355° from front.	60° 08.5′ N 25° 01.7′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	33 **10**	5	Yellow rectangular daymark, red band.	Visible 351°-359°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
14408 *C 5154*	-Trutkobben Range, front.	60° 05.8′ N 24° 52.8′ E	**Q.Y.**	14 **4**	7	Red rectangular board, yellow striped steel post.	Visible 073°-077°.
14412 *C 5154.1*	--Hamngrund, 075° from front.	60° 06.2′ N 24° 55.2′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	79 **24**	5	Red rectangular daymark, yellow stripe.	Visible 071°-079°.
14416 *C 5154.4*	-Trutkubbsklackarna Rysakivi.	60° 06.1′ N 24° 51.5′ E	**V.Q.(3)Y.** period 3s	33 **10**	2	Black steel pole, white bands.	
14418 *C 5155.4*	-Koirasaari Hudoren Range, front.	60° 05.2′ N 24° 51.0′ E	**Q.W.**	20 **6**	8	Red rectangular daymark, yellow stripe.	Visible 327°30′-331°30′.
14418.1 *C 5155.41*	--Rysakouri, rear, about 1300 meters from front.	60° 06.0′ N 24° 49.9′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	89 **27**	9	Red rectangular daymark, yellow stripe.	Visible 327°30′-331°30′.
14419 *C 5158*	-Outer Melkohallen Range, front.	60° 07.7′ N 24° 54.1′ E	**Q.W.**	18 **5**	5	Yellow rectangular daymark, red stripe.	Visible 040°-044°.
14420 *C 5158.1*	--Lantinen Pihlajasaari, rear 042° from front.	60° 08.2′ N 24° 54.9′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	44 **13**	7	Yellow rectangular daymark, red stripe.	Visible 038°-046°.
14428 *C 5156*	-Koirakari (Hundskar),	60° 07.5′ N 24° 54.8′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	20 **6**	7	White tower, black band.	G. 063°-166°, R.-198°, G.-225°, W.-228°, R.-243°.
14432 *C 5157*	Hundskar Range, front.	60° 07.4′ N 24° 54.7′ E	**Iso.W.** period 5s	13 **4**	11	Red rectangular daymark, yellow stripes.	Visible 002°-022°. F.W. by day.
14436 *C 5157.1*	-Ronnskar, rear, 1400 meters 012° from front.	60° 08.2′ N 24° 55.1′ E	**Oc.W.** period 10s	59 **18**	11	Red rectangular daymark, yellow stripes.	Visible 002°-022°. F.W. by day.
14440 *C 5160*	-Tiirakari (Tirgrund).	60° 07.7′ N 24° 55.8′ E	**U.Q.(2)W.R.G.** period 3s fl. 0.2s, ec. 0.3s fl. 0.2s, ec. 2.3s	20 **6**	7	White tower.	G.040°-070°30′, W.-073°30′, R.-114°, G.-183°, W.-210°, R.-245°. In line 072° with Lukkiluoto light.
14444 *C 5175.5*	-Ronnskar East Range, front.	60° 08.3′ N 24° 55.5′ E	**Q.Y.**	20 **6**	2	Red rectangular and yellow triangular daymark, point up.	Visible 248°-256°.
14448 *C 5175.51*	--Rear, 280 meters 252° from front.	60° 08.2′ N 24° 55.1′ E	**U.Q.(5)Y.** period 6s	33 **10**	2	Red rectangular and yellow triangular daymark, point down.	Visible 248°-256°.
	HELSINKI (HELSINGFORS) APPROACH:						
14452 *C 5162*	-Rantan Range, S. of Langorn, front.	60° 07.2′ N 24° 57.9′ E	**Q.W.**	30 **9**	5	Red rectangular daymark, yellow stripe; 11.	Visible 267°-275°.
14456 *C 5162.1*	--Rear, on islet 880 meters 271° from front.	60° 07.2′ N 24° 56.8′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	51 **16**	6	Red rectangular daymark, yellow stripe; 20.	Visible 267°-275°.
14460 *C 5168*	-Sarkka (Langorn).	60° 09.1′ N 24° 58.2′ E	**Fl.W.R.G.** period 2s fl. 0.5s, ec. 1.5s	7 **2**	6	White structure, red band; 5.	G. 175°-186°, W.-191°, R.-280°.
14464 *C 5167*	--Harakka Range, front.	60° 08.9′ N 24° 57.9′ E	**Q.W.**	20 **6**	5	Yellow rectangular and yellow triangular daymark, point up.	Visible 042°30′-050°30′.
14468 *C 5167.1*	---Rear, 330 meters 046°30′ from front.	60° 09.0′ N 24° 58.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	31 **9**	5	Yellow rectangular and red triangular daymark, point down.	Visible 042°30′-050°30′.
14472 *C 5166*	-Mustassari (Vastra Svarto), W. side.	60° 08.8′ N 24° 58.6′ E	**Oc.W.R.G.** period 2s lt. 1.5s, ec. 0.5s	20 **6**	10	White lantern, red band.	G. 327°-333°, W.-345°, R.-048°30′, G.-066°, W.-079°, R.-128°.
14476 *C 5170*	-Blekholm Range, front.	60° 09.6′ N 24° 58.2′ E	**Q.R.**	7 **2**	6	White lantern, red band; 7.	Visible 286°-018°.
14480 *C 5170.1*	--Rear, 240 meters 356°30′ from front.	60° 09.7′ N 24° 58.1′ E	**Iso.W.R.G.** period 4s	23 **7**	7	White lantern, red band.	W. 135°-213°, G.-237°, W.-260°, R.-271°, G.-283°, W.-293°, R.-006°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
14488 *C 5172*	-Korkeasaari.	60° 10.5′ N 24° 58.9′ E	**Q.W.**	26 **8**	5	Red square daymark, white triangle; 12.	
14492 *C 5173*	-Sornamen Range, front.	60° 10.9′ N 24° 57.9′ E	**Iso.R.** period 6s	23 **7**	2	White square daymark, red median stripe.	Visible 320°-332°.
14496 *C 5173.1*	--Rear, 275 meters 326° from front.	60° 11.0′ N 24° 57.7′ E	**Iso.R.** period 6s	36 **11**	2	White house, white square daymark, red median stripe.	Visible 320°-332°.
14516 *C 5184*	-Helsinki.	59° 56.9′ N 24° 55.6′ E	**L.Fl.W.** period 12s fl. 3s, ec. 9s	82 **25**	12	Red and white round tower; 82. Helicopter platform.	
	-RACON		**T(–)** period 90s		13		(3 & 10 cm)
14518 *C 5185*	-Ulkomatala.	59° 59.5′ N 24° 53.6′ E	**V.Q.(3)W.** period 5s	39 **12**	4	E. CARDINAL BYB, beacon, topmark.	
14520 *C 5186*	-Graskarsbadan, on Vostochnoi Rock.	60° 02.2′ N 24° 53.6′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	6	Red concrete column.	G. 153°-175°12′, W.-180°, R.-153°.
14528 *C 5190*	**--Harmaja** Range, front.	60° 06.3′ N 24° 58.7′ E	**Oc.W.R.G.** period 6s lt. 4s, ec. 2s	78 **24**	W. 14	Red round tower, white band, square base.	W. 004°30′-010°30′, R.-168°, G.-187°, W.-193°, R.-212°, W.-250°, R.-260°, W.-312°, G.-004°30′. Pilot station.
	--RACON		**NR(– • • – •)**		13		(3 & 10 cm)
14532 *C 5190.1*	---Suomenlinna, rear, on church, 4.82 km. 007° from Harmaja.	60° 08.9′ N 24° 59.2′ E	**Fl.(4)W.** period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	177 **54**	**20**	Cupola on church tower.	
	---RACON		**M(– –)**		**16**		
14536 *C 5190.5*	-Uusimatala shoal, about 1296 meters 173° from Harmaja.	60° 05.5′ N 24° 58.9′ E	**V.Q.(9)W.** period 10s	39 **12**	4	W. CARDINAL YBY, structure, topmark.	**Radar reflector.**
14540 *C 5190.4*	-Flathallagrund Shoal, about 2.6 km. from Harmaja.	60° 05.0′ N 24° 58.1′ E	**V.Q.(3)W.** period 5s	39 **12**	4	E. CARDINAL BYB, beacon, topmark.	**Radar reflector.**
14544 *C 5188.1*	-Lokkiluoto Range, front.	60° 07.9′ N 24° 56.8′ E	**Q.W.**	17 **5**	5	Black rectangular concrete structure, white stripe.	Visible 130°-158°, 068°-076°. In line 072° with Tiirakari Light.
14548 *C 5188*	--Abrahaminluoto, rear, 1,204 meters 142°30′ from front.	60° 07.3′ N 24° 57.6′ E	**Iso.W.** period 3s	33 **10**	6	White lantern on red tower, red rectangular daymark, yellow stripe facing Lokkiluoto.	Visible 132°-159°.
14552 *C 5165*	-Husunkivi.	60° 08.4′ N 24° 57.8′ E	**V.Q.(5)R.** period 6s	23 **7**	4	White and red steel mast, concrete base.	**Radar reflector.**
14556 *C 5171*	-Lansi Mustasaari Range, front.	60° 08.9′ N 24° 58.6′ E	**Q.R.**	37 **11**	3	Red board, white triangular daymark; 33.	Visible 147°-155°.
14560 *C 5171.1*	--Rear, 107 meters 151° from front.	60° 08.9′ N 24° 58.5′ E	**Q.R.**	49 **15**	3	Red board, white triangular daymark; 10.	Visible 147°-155°.
	-Gustafsund:						
14564 *C 5196*	--Kustaanmiekka (Gustavssvard) Range, front.	60° 08.3′ N 24° 59.6′ E	**Q.W.R.**	27 **8**	11	Red rectangular board, white stripe.	W. 191°-026°, R.-067°.
14568 *C 5196.1*	--Rear, 593 meters 010° from front.	60° 08.6′ N 24° 59.6′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	62 **19**	8	Work structure, red rectangular daymark, white stripe; 32.	Visible 006°-014°.
14572 *C 5195*	--Remmarholmen.	60° 07.9′ N 24° 59.7′ E	**Q.(2)W.R.G.** period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	36 **11**	5	Red round concrete tower, white top; 7.	G. 328°-347°, W.-359°, R.-007°, G.-031°, W.-044°, R.-077°, G.-121°, W.-141°, R.-198°.

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			FINLAND-GULF OF FINLAND				
14584 *C 5200*	-Kuivassaari, N. part of Mjolokneckten.	60° 06.3′ N 25° 01.4′ E	**Q.(2)W.R.G.** period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	20 **6**	7	White lantern, stone base.	W. 064°-089°, obsc.-141°, G.-146°, W.-149°, R.-197°, G.-235°30′, W.-241°, R.- 268°.
14588 *C 5202*	-Isosaari Range, front.	60° 06.3′ N 25° 03.8′ E	**F.R.**	7 **2**	2	White rectangular daymark, red stripe.	Visible 135°-143°. Fishing light.
14592 *C 5202.1*	- -Rear, 139° from front.	60° 06.3′ N 25° 03.9′ E	**F.R.**	23 **7**	2	White rectangular daymark, red stripe.	Visible 135°-143°. Fishing light.
14596 *C 5206*	-Vasikkasaari (Kalvholm), W. side.	60° 09.1′ N 25° 00.8′ E	**Fl.W.R.G.** period 2s fl. 0.3s, ec. 1.7s	16 **5**	5	White hut; 5.	G. 108°-116°30′, W.-119°, R.-126°, G.-136°30′, W.-143°, R.-151°.
14598 *C 5206.5*	- -Neljanviitankari.	60° 09.8′ N 24° 59.8′ E	**V.Q.(5)W.** period 6s	39 **12**	1	Mast.	**Radar reflector.**
14600 *C 5153.5*	Gasgrundet Range, front.	60° 05.2′ N 24° 44.6′ E	**Q.W.**	13 **4**	3	Red rectangular steel mast, yellow stripe.	Visible 039°18′-047°18′.
14604 *C 5153.51*	-Rear, 043°18′ from front.	60° 05.6′ N 24° 45.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	42 **13**	4	Red rectangular steel mast, yellow stripe.	Visible 039°18′-047°18′.
14608 *C 5153*	Kyto, NW. point.	60° 04.4′ N 24° 43.6′ E	**V.Q.(5)W.** period 6s	29 **9**	7	White hut; 10.	
14612 *C 5147*	-Kyto Range, front.	60° 03.8′ N 24° 42.9′ E	**Q.W.**	52 **16**	6	Red rectangular steel mast, yellow stripe.	Visible 055°30′-059°30′.
14616 *C 5147.1*	- -Rear, 057°30′ from front.	60° 03.9′ N 24° 03.9′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	79 **24**	6	Red rectangular steel mast, yellow stripe.	Visible 055°30′-059°30′.
14656 *C 5130*	Porkkala Kallbada.	59° 52.2′ N 24° 18.4′ E	**L.Fl.(3)W.R.G.** period 20s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	70 **21**	12	Tower on corner of red 2-story house; 67.	R. 070°-120°, G.-195°, W.-070°. **Radiobeacon.**
14657	-Inkoo RACON	59° 51.9′ N 24° 11.1′ E	**K(– • –)**		9		
14660 *C 5121*	Makiluoto Range, front.	59° 55.0′ N 24° 20.0′ E	**Q.W.**	26 **8**	5	Red rectangular daymark, white stripe; 6.	Visible 029°-037°.
14664 *C 5121.1*	-Rear, 1,482 meters 033° from front.	59° 55.0′ N 24° 21.0′ E	**L.Fl.W.** period 6s	62 **19**	6	White lantern, on red rectangular board, white stripe.	Visible 029°-037°.
14712 *C 5131.4*	Oxhornen Range, front.	59° 57.6′ N 24° 16.6′ E	**Fl.W.** period 2s	19 **6**	8	Red rectangular daymark, yellow field.	Visible 029°30′-033°30′.
	RACON		**T(-)** period 90s		10		
14716 *C 5131.41*	-Rear, 031°30′ from front.	59° 59.1′ N 24° 18.4′ E	**L.Fl.W.** period 6s	102 **31**	12	Red rectangular daymark, yellow field.	Visible 029°30′-033°30′.
14892 *C 4980*	Jussaro, Sundharvn islet.	59° 47.0′ N 23° 33.0′ E	**Fl.W.** period 12s fl. 1.2s, ec. 10.8s	98 **30**	12	White rectangular tower, red band; 79.	**Radar reflector.**
	EKENAS (TAMMISAARI):						
14944 *C 4991.6*	-Langden.	59° 46.6′ N 23° 15.1′ E	**Fl.(3)W.R.G.** period 15s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 7.5s	55 **17**	13	White masonry tower, two red bands.	G. 128°-200°, W.-206°, R.-220°, G.-358°, W.-014°, R.-056°.
	-RACON		**M(– –)** period 30s		10		
14946 *C 4991.7*	Ajax.	59° 43.6′ N 23° 12.8′ E	**Q.(5)Y.** period 6s	39 **12**	5	White mast, red band.	**Radar reflector.**

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			FINLAND-GULF OF FINLAND				
15124 *C 4932*	Kummelskar Range, front.	59° 49.0′ N 23° 06.0′ E	**Q.W.**	40 **12**	6	Red rectangular daymark, yellow field.	Visible 047°-061°.
15128 *C 4932.1*	-Rear, 055° from front.	59° 49.0′ N 23° 07.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	85 **26**	6	Red rectangular daymark, yellow field.	Visible 047°-061°.
15132 *C 4930*	Mulan Islet Range, front.	59° 48.0′ N 23° 04.0′ E	**Q.W.**	16 **5**		White rectangular board, red vertical stripe.	Visible 273°-281°.
15136 *C 4930.1*	-Rear, 277° from front.	59° 48.4′ N 23° 03.8′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	39 **12**		White rectangular board, red vertical stripe.	Visible 273°-281°.
15140 *C 4931*	Mulan Islet.	59° 48.4′ N 23° 03.9′ E	**Fl.W.R.G.** period 4s	36 **11**	3	Red rectangular daymark on hut.	G. 069°-082°, W.-089°, R.-140°, W.-260°.
15142	Inre Vasterlandet, RACON.	59° 47.7′ N 23° 03.1′ E	**T(–)** period 90s		12		
15144 *C 4928*	Grisselklubb.	59° 49.0′ N 23° 02.0′ E	**Fl.(2)W.R.G.** period 4s	19 **6**	4	White shed, black stripe.	G. 275°-288°, W.-290°, R.-347°.
15148 *C 4916*	Norr Andalskar Range, front.	59° 48.7′ N 23° 00.7′ E	**Q.W.**	30 **9**	3	Column in front of wall, white square daymark, black stripe.	Visible 302°-306°.
15148.1 *C 4916.1*	-Graskar, 400 meters 304° from front.	59° 48.8′ N 23° 00.3′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	51 **16**	4		Visible 302°-306°.
15152 *C 4918*	Andalskar.	59° 48.0′ N 23° 01.0′ E	**L.Fl.W.R.G.** period 6s	15 **5**	6	White hut; 8.	W. 109°-218°, R.-261°, G.-272°, W.-281°, R.-286°.
15164 *C 4919*	-Ryssokobb Range, front.	59° 48.0′ N 22° 57.0′ E	**Q.W.**	36 **11**	6	Red rectangular daymark, yellow stripe.	Visible 260°30′-270°30′.
15168 *C 4919.1*	- -Rear, 490 meters 266° from front.	59° 47.6′ N 22° 56.1′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	104 **32**	7	Red rectangular daymark, yellow stripe.	Visible 260°30′-270°30′.
15172 *C 4918.4*	Gustavsvarn.	59° 48.0′ N 22° 56.6′ E	**Fl.(2)W.R.G.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	59 **18**	14	Round tower, red lantern, green roof; 33. Floodlit.	G. 113°-154°, W.-167°, R.-237°, G.-313°, W.-322°, R.-337°.
15176 *C 4915.7*	Abertsklackarna Range, front.	59° 47.0′ N 22° 54.0′ E	**Q.W.**	25 **8**		Red rectangular daymark, yellow stripe.	Visible 271°-275°.
15180 *C 4915.71*	-Rear, 273° from front.	59° 46.9′ N 22° 53.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	48 **15**		Red rectangular daymark, yellow stripes.	Visible 271°-275°.
15184 *C 4915.3*	Albertsklackarna.	59° 47.0′ N 22° 54.0′ E	**Fl.W.R.G.** period 3s	33 **10**		Steel pole.	G. 130°-141°, W.-143°30′, R.-160°.
15188 *C 4888*	Tulliniemi Range, front.	59° 49.0′ N 22° 55.0′ E	**Q.Y.**	35 **11**	5	Red rectangular daymark, yellow stripe.	Visible 058°-062°. Pilot station.
15192 *C 4888.1*	-Rear, 060° from front.	59° 48.7′ N 22° 55.1′ E	**Q.Y.**	56 **17**	5	Red rectangular daymark, yellow stripe.	Visible 058°-062°.
15196 *C 4892*	Hangoudd Range, front, about 686 meters 061° from light on head of breakwater.	59° 49.0′ N 22° 55.0′ E	**Q.W.**	23 **7**	5	Yellow rectangular beacon, red stripe; 8.	Visible 270°30′-278°30′.
15200 *C 4892.1*	-Rear, 730 meters 274°30′ from front.	59° 48.8′ N 22° 54.0′ E	**L.Fl.W.** period 6s	60 **18**	8	Red rectangular daymark, yellow stripe.	Visible 264°30′-283°30′.
15204 *C 4915.6*	Norrkoben Range, front.	59° 47.0′ N 22° 55.0′ E	**Q.Y.**	30 **9**		Red rectangular daymark, yellow stripes.	Visible 119°-123°.
15208 *C 4915.61*	Russaro, rear 121° from front.	59° 46.4′ N 22° 56.0′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	55 **17**		Red rectangular daymark. yellow stripes.	Visible 119°-123°.
15210 *C 4919.4*	Hango, No. “1".	59° 44.1′ N 23° 02.5′ E	**V.Q.(3)W.** period 5s	39 **12**	4	E. CARDINAL BYB, post, topmark.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF FINLAND				
15212 *C 4912*	**-Russaro.**	59° 46.0′ N 22° 57.0′ E	**Fl.(4)W.** period 45s fl. 1.4s, ec. 6.1s fl. 1.4s, ec. 6.1s fl. 1.4s, ec. 6.1s fl. 1.4s, ec. 21.1s	112 **34**	**17**	Red octagonal tower; 70.	Visible 174°-115°. Reserve light range 16M.
15216 *C 4915.8*	Lindskar Range, front.	59° 46.0′ N 22° 58.0′ E	**Q.W.**	38 **12**		Red rectangular daymark, yellow stripes.	Visible 233°-237°.
15220 *C 4915.81*	Vasterbadan, 235° from front.	59° 45.2′ N 22° 56.3′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	71 **22**		Red rectangular daymark, yellow stripes.	Visible 233°-237°.
15224 *C 4910*	-Lilla Tarnskar.	59° 45.2′ N 22° 58.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	34 **10**	8	Black concrete structure; 10.	
	-RACON		**T(–)** period 30s		11		
15228 *C 4914*	-Masskar Range, front.	59° 48.0′ N 22° 55.0′ E	**Q.W.**	31 **9**	9	Yellow rectangular structure, red stripe.	Visible 357°-005°. Occasional.
15232 *C 4914.1*	- -Rear, 463 meters 001° from front.	59° 47.8′ N 22° 55.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	58 **18**	9	White rectangular daymark, red stripe.	Visible 357°-005°. Occasional.
15236 *C 4915*	-Granskarsgrund Range, front.	59° 48.0′ N 22° 54.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	24 **7**		Lantern on roof of warehouse, SE. side painted black, white stripe; 16.	G. 079°-092°, W.-096°30′, R.-137°, W.-316°. Occasional.
15240 *C 4915.1*	- -Kistskar, rear, about 833 meters 311°30′ from front.	59° 48.2′ N 22° 52.9′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	36 **11**	9	Black rectangular board, white stripe.	Visible 308°-316°. Occasional.
15244 *C 4920.2*	-Djupkobben Range, front.	59° 48.4′ N 22° 58.1′ E	**Fl.W.** period 3s	26 **8**	10	Mast, red rectangular daymark, yellow stripe.	Visible 324°30′-329°30′.
15248 *C 4920.21*	- -Rear, about 1.6 km. 327° from front.	59° 49.1′ N 22° 57.0′ E	**Iso.W.** period 12s	72 **22**	14	Mast, red rectangular daymark, yellow stripe.	Visible 324°30′-329°30′.
15252 *C 4922*	-Hogholm (Hanko), mole, head.	59° 49.0′ N 22° 57.0′ E	**Q.W.R.G.**	13 **4**	2	White hut.	G. 024°-037°, W.-049°, R.-060°, G.-070°, W.-083°, R.-110°, W.-260°.
15256 *C 4924*	-Hanko Range, front.	59° 49.0′ N 22° 58.0′ E	**F.R.**	19 **6**	6	Yellow rectangular daymark, red stripe.	Visible 240°-060°.
15260 *C 4924.1*	- -Rear, 238 meters 330° from front.	59° 49.3′ N 22° 57.9′ E	**F.R.**	39 **12**	6	Yellow rectangular daymark, red stripe.	Visible 240°-060°.
15264 *C 4920.4*	-Hakoniemi Range, front.	59° 49.3′ N 22° 55.6′ E	**Q.Y.**	56 **17**	6	Framework tower, red rectangular tower, yellow stripe.	Visible 315°-323°.
15264.1	- -Rear, 0.3km 319° from front.	59° 49.4′ N 22° 55.2′ E	**L.Fl.Y.** period 6s	88 **27**	9	Mast, red rectangular daymark, yellow stripe.	Visible 315°-323°.
15268 *C 4906*	-Bengtskar.	59° 43.0′ N 22° 30.0′ E	**Fl.(3)W.** period 20s	167 **51**	10	Granite tower on house; 150.	
15284 *C 4915.5*	Lilla Grankskarsharun Range, front.	59° 48.0′ N 22° 52.0′ E	**Q.Y.**	38 **12**		Red rectangular daymark, yellow stripes.	Visible 299°-303°.
15288 *C 4915.51*	Grankskarsharun, rear 301° from front.	59° 47.8′ N 22° 51.5′ E	**L.Fl.Y.** period 6s	55 **17**		Red rectangular daymark, yellow stripes.	Visible 299°-303°.
15289 *C 4915.54*	Granskar.	59° 47.3′ N 22° 52.9′ E	**V.Q.(3)W.** period 5s	40 **12**	4	E. CARDINAL BYB, beacon, topmark.	
15290 *C 4915.57*	Vasteristron.	59° 47.1′ N 22° 53.9′ E	**V.Q.(6)+L.Fl.W.** period 10s	40 **12**	4	S. CARDINAL YB, beacon, topmark.	
15292 *C 4884*	Granskarsharun.	59° 47.8′ N 22° 51.9′ E	**Iso.W.R.G.** period 2s	25 **8**	6	White concrete tower, red band.	G. 137°-148°, W.-156°, R.-210°, G.-239°, W.-242°30′, R.-272°.
	RACON		**T(–)** period 90s		9		

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			FINLAND-GULF OF FINLAND				
15296 *C 4881*	Utterklint.	59° 49.0′ N 22° 51.0′ E	**V.Q.(2)W.** period 3s	33 **10**	4	Red wooden structure.	Visible 256°-191°.
15300 *C 4885*	Kajgrund.	59° 48.0′ N 22° 54.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	14 **4**		White hut, red band.	G. 250°-270°, W.-274°, R.-295°, G.-003°, W.-011°, R.-070°.
15304 *C 4915.2*	Dodoren Range, front.	59° 49.0′ N 22° 50.0′ E	**Q.Y.**	24 **7**	5	Red rectangular daymark, yellow stripes.	Visible 224°-228°.
15308 *C 4915.21*	Stenskarskobben, rear, 1,667 meters 226° from front.	59° 48.2′ N 22° 48.7′ E	**L.Fl.Y.** period 6s	45 **14**		Red rectangular daymark, yellow stripes.	Visible 224°-228°.
15312 *C 4915.4*	Norrgardskobben Range, front.	59° 49.0′ N 22° 50.0′ E	**Q.W.**	38 **12**	6	Red rectangular daymark, yellow stripes.	Visible 319°-323°.
15316 *C 4915.41*	Klockarlandet, rear, 1,741 meters 321° from front.	59° 50.2′ N 22° 48.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	61 **19**	6	Red rectangular daymark, yellow stripes.	Visible 319°-323°.
15320 *C 4886*	Tullholm, N. point.	59° 48.0′ N 22° 55.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	6	White hut; 14.	G. 063°-073°, W.-090°, R.-194°, G.-263°30′, R.-283°, obscured elsewhere. **Radar reflector.**
15322 *C 4876*	-Smorsten N.	59° 50.0′ N 22° 51.0′ E	**Fl.G.** period 3s	39 **12**	4	STARBOARD (A) G, beacon. Floodlit.	**Radar reflector.**
15323 *C 4876.5*	--Smorsten S.	59° 50.0′ N 22° 51.0′ E	**Fl.R.** period 3s	39 **12**	4	PORT (A) R, beacon. Floodlit.	**Radar reflector.**
	JUNGFRUSUND:						
15324 *C 4878*	-Lillklippingsgrund.	59° 50.0′ N 22° 52.0′ E	**L.Fl.W.R.G.** period 6s fl. 2s, ec. 4s	17 **5**	7	Round tower on concrete base. Floodlit.	G. 012°-047°30′, W.-051°, R.-102°.
15332 *C 4873.5*	-Koppnas Range, front.	59° 51.0′ N 22° 58.0′ E	**Iso.Y.** period 2s	65 **20**		Red rectangular sign, white stripe mounted on mast; 55.	Visible 096°-104°.
15336 *C 4873.51*	--Rear, 330 meters 099°30′ from front.	59° 50.9′ N 22° 58.4′ E	**Iso.Y.** period 2s	76 **23**		Red rectangular sign, white stripe mounted on mast; 66.	Visible 096°-104°.
15340 *C 4874.4*	-Krakudden Fishing Range, front.	59° 50.0′ N 22° 56.0′ E	**F.R.**	14 **4**		Post.	Shown on request.
				4 **1**			
15344 *C 4874.5*	--Rear, about 34 meters 214° from front.	59° 50.1′ N 22° 55.5′ E	**F.R.**	21 **6**		Post.	Shown on request.
15348 *C 4873*	-Hamnholm Range, front.	59° 50.0′ N 22° 56.0′ E	**Q.Y.**	31 **9**	11	Red rectangular daymark, yellow stripe.	Visible 116°-133°.
15352 *C 4873.1*	--Rear, Kasberget, 457 meters 123°30' from front.	59° 50.2′ N 22° 55.9′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	66 **20**	13	Red rectangular daymark, yellow stripe.	Visible 116°-133°.
15356 *C 4874*	-Valnas Range, front.	59° 50.0′ N 22° 56.0′ E	**F.R.**	17 **5**		Post.	Fishing light, shown on request.
15360 *C 4874.1*	--Rear, about 57 meters 135° from front.	59° 50.3′ N 22° 56.0′ E	**F.R.**	24 **7**		Post.	Fishing light.
15364 *C 4872*	-Flackgrund Range, front.	59° 52.0′ N 22° 50.0′ E	**Q.(2)W.R.G.** period 3s	19 **6**		Red rectangular daymark, yellow stripe in center.	G. 270°-307°, W.-314°, R.-020°, G.-112°, W.-115°, R.-119°, G.-170°, R.-270°.
15368 *C 4872.1*	--Rear, 3.7 kilometers 113°30′ from front on islet.	59° 51.6′ N 22° 53.9′ E	**Iso.W.** period 6s	75 **23**	8	Red rectangular structure, white stripe.	Visible 111°-115°30′.
15372 *C 4871*	-Maltskar Range, front.	59° 51.4′ N 22° 47.3′ E	**Q.W.**	24 **7**	5	Red rectangular daymark, yellow stripe.	Visible 200°-208°.

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			FINLAND-GULF OF FINLAND				
15376 *C 4871.1*	--Rear, about 1,426 meters 204° from front.	59° 50.8′ N 22° 46.7′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	51 **16**	6	Red rectangular daymark, yellow stripe.	Visible 200°-208°.
15384 *C 4869*	-Stubbkal.	59° 57.0′ N 22° 48.0′ E	**Fl.W.R.G.** period 5s	42 **13**	7	White square hut, black borders; 13.	G. 166°30′-176°30′, W.-178°30′, R.-339°.
15388 *C 4868.5*	-Lerharu.	59° 55.0′ N 22° 40.0′ E	**Fl.W.R.G.** period 3s	39 **12**	7	Steel tower, red and white.	G. 256°-292°, W.-294°30′, R.-006°, G.-100°30′ W.-102°30′, R.-120°. **Radar reflector.**
15392 *C 4868*	-Galtarna.	59° 55.0′ N 22° 37.0′ E	**V.Q.(5)Y.** period 6s	23 **7**	2	White shed on white concrete base.	**Radar reflector.**
15396 *C 4866*	-Matlosharun Range, common front.	59° 55.0′ N 22° 35.0′ E	**Q.Y.**	40 **12**	4	Red rectangular daymark, yellow stripe.	Visible 063°-071°.
			Q.W.	33 **10**	5		Visible 285°-293°.
15398 *C 4865.9*	--Rear, 067° from common front.	59° 56.0′ N 22° 37.4′ E	**L.Fl.Y.** period 6s	105 **32**	5	Red rectangular daymark, yellow stripe.	Visible 063°-071°.
15400 *C 4866.1*	--Rear, 289° from common front.	59° 55.8′ N 22° 32.8′ E	**L.Fl.W.** period 6s	110 **34**	7	Red rectangular daymark, yellow stripe.	Visible 287°-291°.
15404 *C 4867*	-Flackskarsgrund Range, front.	59° 55.0′ N 22° 38.0′ E	**Q.W.**	26 **8**	3	Red rectangular daymark, yellow stripe.	Visible 067°30′-097°30′.
15408 *C 4867.1*	--Rear, 082°30′ from front.	59° 55.4′ N 22° 38.4′ E	**L.Fl.W.** period 6s	58 **18**	3	Red rectangular daymark, yellow stripe in center.	Visible 067°30′-097°30′.
15412 *C 4861*	-Idskar.	59° 55.0′ N 22° 32.0′ E	**V.Q.(5)R.** period 6s	20 **6**	3	White hut.	
15416 *C 4864*	-Killingskar Range, common front.	59° 55.0′ N 22° 32.0′ E	**Q.W.**	42 **13**	3	Red rectangular daymark, yellow stripe in center.	Visible 050°-058°, 258°30′-266°30′.
15418 *C 4863.9*	--Rear, 054° from common front.	59° 55.2′ N 22° 32.6′ E	**L.Fl.W.** period 6s	95 **29**	3	Red rectangular daymark, yellow stripe in center.	Visible 050°-058°.
15420 *C 4864.1*	--Rear, 262°30′ from common front.	59° 54.9′ N 22° 31.3′ E	**L.Fl.W.** period 6s	72 **22**	8	Red rectangular daymark, yellow stripe in center.	Visible 258°30′-266°30′.
15432 *C 4865*	-Batskar Range, front.	59° 54.0′ N 22° 30.0′ E	**Q.Y.**	12 **4**	3	Red rectangular daymark, yellow stripe in center.	Visible 243°-251°.
15436 *C 4865.1*	--Rear, 247° from front.	59° 54.2′ N 22° 29.1′ E	**L.Fl.Y.** period 6s	36 **11**	4	Red rectangular daymark, yellow stripe in center.	Visible 243°-251°.
15448 *C 4862*	-Idskarskubb.	59° 55.0′ N 22° 32.0′ E	**Q.(5)G.** period 6s	20 **6**	2	White hut, black band.	**Radar reflector.**
15452 *C 4860*	-Jarngrynnan.	59° 54.0′ N 22° 28.0′ E	**V.Q.(5)Y.** period 6s	23 **7**	2	White concrete shed, red band.	**Radar reflector.**
15456 *C 4858*	-Fungskar Range, front.	59° 54.0′ N 22° 26.0′ E	**Q.W.**	50 **15**	4	Steel mast, red rectangular daymark, yellow field.	Visible 144°-152°.
15460 *C 4858.1*	--Rear, 148° from front.	59° 53.7′ N 22° 25.9′ E	**L.Fl.W.** period 6s	85 **26**	5	Steel mast, red rectangular daymark, yellow field.	Visible 144°-152°.
15464 *C 4856*	-Pervetsgrund (Pervittenskar) Range, front.	59° 54.0′ N 22° 25.0′ E	**Q.W.**	20 **6**	3	Yellow rectangular daymark, red stripe.	Visible 286°-318°.
15468 *C 4856.1*	--Aggaskar, rear, about 500 meters 302° from front.	59° 54.4′ N 22° 24.4′ E	**L.Fl.W.** period 6s	34 **10**	3	Yellow rectangular daymark, red stripe.	Visible 286°-318°.
15470 *C 4855*	-Kalholm.	59° 55.0′ N 22° 24.0′ E	**Q.(2)W.R.G.** period 3s	21 **6**	6	White steel mast, red band.	G. 092°-169°, W.-171°, R.-272°, G.-314°.
15472 *C 4854*	-Onholm, S. side.	59° 56.0′ N 22° 23.0′ E	**Fl.W.R.G.** period 2s	23 **7**	5	Steel mast.	G. 296°-326°30′, W.-238°30′, R.-340°30′.
15474 *C 4853*	-Hogsara.	59° 57.0′ N 22° 23.0′ E	**Fl.(3)W.R.G.** period 6s	23 **7**	6	Steel mast, red bands.	G. 137°-184°30′, W.-186°, R.-245°, G.-010°.

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			FINLAND-GULF OF FINLAND				
15476 *C 4852*	-Kuggor, W. side.	59° 58.0′ N 22° 23.0′ E	**Fl.W.R.G.** period 3s	10 **3**	7	White hut; 7.	G. 342°-352°, W.-356°, R.-051°, G.-189°. Pilot station.
15480 *C 4746.8*	-Hallsten.	59° 53.0′ N 22° 25.0′ E	**Fl.(2)W.R.G.** period 3s	16 **5**	5	Lantern on roof of red concrete shed.	R. 205°-236°, G.-027°, W.-203°, R.-110°. **Radar reflector.**
15484 *C 4863*	-Hamnholmarna Range, front.	59° 53.0′ N 22° 25.0′ E	**Q.W.**	25 **8**	3	Red rectangular daymark, yellow stripe in center.	Visible 244°30′-276°30′.
15488 *C 4863.1*	--Rear, about 926 meters 260°30′ from front.	59° 53.7′ N 22° 23.5′ E	**L.Fl.W.** period 6s	49 **15**	3	Red rectangular daymark, yellow stripe in center.	Visible 244°30′-276°30′.
15492 *C 4863.5*	-Kalvholm Range, front.	59° 52.0′ N 22° 25.0′ E	**Q.W.**	24 **7**	4	Red rectangular daymark, yellow stripe in center.	Visible 230°-238°.
15496 *C 4863.51*	--Rear, 234° from front.	59° 52.2′ N 22° 24.1′ E	**L.Fl.W.** period 6s	59 **18**	5	Red rectangular daymark, yellow stripe in center.	Visible 230°-238°.
15500 *C 4746*	Angskar Range, front.	59° 53.0′ N 22° 23.0′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	36 **11**	10	Red daymark, yellow stripe.	Visible 086°30′-090°30′.
15504 *C 4746.1*	-Rear, 088°30′ from front.	59° 53.4′ N 22° 24.1′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	119 **36**	11	Red daymark, yellow stripe.	Visible 086°30′-090°30′.
15508 *C 4746.2*	Fjardskar, bank S. of Fjardskar.	59° 53.0′ N 22° 24.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	17 **5**	5	White lantern on white concrete hut, red band.	G. 275°-288°, W.-295°, R.-013°, G.-096°, W.-105°, R.-122°.
15509 *C 4745.74*	Hemoren.	59° 53.0′ N 22° 13.4′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	2	Green metal structure, triangular daymark.	
15510 *C 4745.76*	Tjuforn.	59° 54.3′ N 22° 13.2′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	2	Green metal structure, triangular daymark.	
15512 *C 4745.8*	Vitgrund Range, front.	59° 54.0′ N 22° 20.0′ E	**Q.W.**	20 **6**	4	Red dayamrk, yellow stripe.	Visible 282°-300°.
15516 *C 4745.81*	-Rear, 286° from front.	59° 53.8′ N 22° 19.0′ E	**L.Fl.W.** period 6s	62 **19**	5	Red daymark, yellow stripe.	Visible 282°-300°.
15520 *C 4746.6*	Laderklobb Range, front.	59° 54.0′ N 22° 10.0′ E	**Q.Y.**	26 **8**	8	Red daymark, yellow stripe.	Visible 076°30′-080°30′.
15524 *C 4745.61*	-Rear, 079° from front.	59° 53.8′ N 22° 11.4′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	96 **29**	9	Red daymark, yellow stripe.	Visible 076°30′-080°30′.
			FINLAND-AHVENANMAA (ALAND ISLANDS)				
15780 *C 4732*	Lillharun.	59° 43.6′ N 21° 24.2′ E	**Fl.W.R.G.** period 7s	55 **17**	10	Black concrete tower; 31.	G. 262°-340°, W.-045°, R.-101°, G.-148°, W.-156°, R.-172°. **Radar reflector.**
	RACON		**T(–)** period 90s		12		
15800 *C 4736*	**Uto.**	59° 47.0′ N 21° 22.0′ E	**Fl.(2)W.** period 12s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 8.2s	130 **40**	**17**	Square granite tower, red and white stripes; 78.	Visible 235°-100°. Pilot station.
			F.W.	125 **38**	**17**		Visible 163°-253°.
15804 *C 4725*	Kokarsoren.	59° 46.0′ N 21° 01.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	79 **24**	8	Red metal framework structure; 36.	Visible 262°-217°.

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	FINLAND-AHVENANMAA (ALAND ISLANDS)						
	UTO:						
15808 *C 4734*	-Approaching Range, front.	59° 47.0′ N 21° 22.0′ E	**Q.W.R.G.Y.**	43 **13**	14	Red rectangular board, yellow stripe, red lantern.	Y. 335°-000°, Y. (intensified)-019°, Y.-090°, G.-156°, W.-165°30′, R.-176°, G.-242°.
15812 *C 4734.1*	- -Rear, 630 meters 009°30′ from front.	59° 47.3′ N 21° 21.8′ E	**Iso.Y.** period 6s	85 **26**	**15**	Red rectangular board, yellow stripe.	Visible 000°-019°.
15852 *C 4739*	Skataskar Range, front.	59° 51.0′ N 21° 20.0′ E	**Q.W.**	46 **14**	7	Red rectangular daymark, white stripe.	Visible 347°30′-355°30′.
15856 *C 4739.1*	-Rear, 365 meters 351°30′ from front.	59° 51.3′ N 21° 19.5′ E	**L.Fl.W.** period 8s	102 **31**	7	Red rectangular daymark, white stripe.	Visible 347°30′-355°30′.
15860 *C 4743.2*	Bokullankivi.	59° 50.8′ N 21° 25.4′ E	**Fl.W.R.G.** period 5s	30 **9**	9	White structure with black center band; 28.	G. 009°-050°, W.-054°, R.-165°, G.-232°30′, W.-236°30′, R.-009°.
	RACON		**T(–)** period 90s		10		
16092 *C 4486*	Bogskar, on W. rock.	59° 30.3′ N 20° 21.0′ E	**Fl.(2+1)W.** period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s fl. 0.5s, ec. 8.5s	91 **28**	9	White tower, blue stripe. Helicopter platform.	
	RACON		**T(–)** period 90s		14		
16094 *C 4487*	Suomen Leijona.	59° 28.3′ N 20° 49.0′ E	**Fl.W.** period 12s fl. 0.3s, ec. 11.7s	75 **23**	8	Black round tower, white stripes. Wind generator. Helicopter platform.	
	RACON		**T(–)** period 30s		12		
16096 *C 4480*	Lagskar, N. point.	59° 50.5′ N 19° 55.1′ E	**Fl.W.** period 12s	138 **42**	11	Red tower.	
16100 *C 4482*	Flothan (Flotjan).	59° 48.4′ N 19° 47.4′ E	**Fl.(2)W.** period 20s fl. 0.9s, ec. 1.6s fl. 0.9s, ec. 16.6s	85 **26**	10	Red tower, white band.	
	RACON		**T(–)** period 90s		13		
16106 *C 4485*	Salkobb.	59° 54.2′ N 20° 05.0′ E	**Fl.W.R.G.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	4	Red lantern.	W. 003°-022°, R.-090°, G.-166°, W.-178°, R.-270°, G.-320°, W.-328°, R.-337°, G.-003°. Fishing light.
16124 *C 4530*	Nyhamn, Lilla Batskar.	59° 58.0′ N 19° 58.0′ E	**Fl.(2)W.** period 6s	140 **43**	8	Round tower, white lantern; 113.	Visible 235°-152°, Range lights in line 209°, both Q.R. visible 203°-215° located close by. Pilot station.
16144 *C 4542*	Ledskar, N. point.	59° 58.0′ N 20° 10.0′ E	**Fl.(2)W.R.G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 **9**	8	White octagonal hut; 5. Floodlit.	R. 068°-080°, G.-095°, W.-105°30′, R.-120°, G.-177°, R.-217° G.-254°, W.-260°, R.-275°.
16158 *C 4546*	Fastorna.	59° 51.3′ N 20° 20.8′ E	**Fl.W.R.G.** period 5s fl. 0.5s, ec. 4.5s	62 **19**	7	Red truncated wooden tower.	G. 193°-234°, W.-244°, R.-303°, G.-333°, W.-037°, R.-074°, G.-090°, W.-103°, R.-120°, G.-164°, W.-180°, R.-193°. Fishing light.
	RACON		**T(–)** period 90s		13		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-AHVENANMAA (ALAND ISLANDS)				
16476 *C 4626*	Kalkskarskobb.	60° 00.0′ N 21° 05.0′ E	**Fl.W.R.G.** period 5s	23 **7**	9	Red lantern on white concrete base.	G. 355°-043°, W.-048°, R.-087°, G.-145°, W.-155°, R.-185°, G.-222°, W.-227°, R.-289°, G.-306°, W.-309°, R.-355°.
	RACON		**T(–)**		11		
16480 *C 4630*	Kihti.	60° 04.6′ N 21° 08.5′ E	**Fl.(3)W.R.G.** period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	36 **11**	8	Black concrete tower; 36.	G. 083°-092°, W.-095°, R.-173°, G.-239°, W.-244°, R.-268°. **Radar reflector.**
	RACON		**T(–)** period 90s		11		
	MARIEHAMN(MAARIANHAMINA):						
16668 *C 4506*	-N. of town, AVIATION LIGHT.	60° 08.0′ N 19° 56.0′ E	**Fl.W.** period 4s fl. 0.1s, ec. 3.9s	266 **81**	**28**	Concrete structure; 49.	Shown on request.
16744 *C 4496*	-Korso Range, SW. point of Yttre Korso, common front.	60° 02.0′ N 19° 54.0′ E	**Iso.W.R.G.** period 2s	23 **7**	8	Red rectangular daymark, yellow stripe.	G. 318°-003°, W.-009°, R.-032°30′, G.-062°30′, W.-075°, R.-179°30′.
	-RACON		**T(–)**		9		
16748 *C 4496.1*	--Rear, 180 meters 066° from common front.	60° 02.4′ N 19° 54.2′ E	**L.Fl.W.** period 6s	56 **17**	**15**	Red rectangular daymark, yellow stripe.	Visible 062°-070°.
16752 *C 4495.9*	--Rear, 100 meters 052° from front.	60° 02.4′ N 19° 54.1′ E	**L.Fl.G.** period 6s	69 **21**	11	Red rectangular daymark, yellow stripe.	Visible 046°-058°.
16756 *C 4494*	Tvibenan, E. side.	60° 02.0′ N 19° 53.0′ E	**Q.W.R.G.**	20 **6**	5	Post, white base.	G. 184°-210°, W.-213°, R.-273°30′, G.-330°, W.-341°30′, R.-070°, obscured-184°.
16760 *C 4490*	Marhallan.	60° 01.9′ N 19° 52.5′ E	**Q.(3)W.R.G.** period 6s	47 **14**	9	Black and red striped round tower; 36. Floodlit.	W. 007°-120°, R.-175°, G.-219°, W.-244°, R.-333°, G.-007°.
16770 *C 4479*	Utbadan.	60° 04.9′ N 19° 42.5′ E	**Fl.W.** period 3s fl. 0.2s, ec. 2.8s	23 **7**	4	Column; 19.	**Radar reflector.**
16774 *C 4473.5*	Solovjeva.	60° 11.2′ N 19° 10.4′ E	**Fl.(4)W.** period 8s	65 **20**	6	White mast, red bands. Helicopter platform.	**Radar reflector.**
16788 *C 4478*	Tollingbadan.	60° 11.0′ N 19° 27.0′ E	**Q.(2)W.R.G.** period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	26 **8**	6	Orange concrete shed; 15.	W. 320°-055°, R.-088°, G.-106°, W.-109°, R.-140°, G.-179°, W.-182°30′, R.-195°, G.-205°, W.-234°, R.-307°, G.-320°. **Radar reflector.**
16792 *C 4472*	Market.	60° 18.1′ N 19° 08.0′ E	**Fl.W.** period 5s	55 **17**	7	Tower, white and red bands; 47.	
16796 *C 4468*	Adskar.	60° 21.0′ N 19° 31.0′ E	**Fl.W.R.G.** period 3s	33 **10**	5	Lantern on red structure.	G. 090°-170°, W.-178°, R.-270°, G.-005°, W.-009°, R.-090°. Occasional.
16800 *C 4466*	Sodra Salskar, W. side of S. islet.	60° 25.0′ N 19° 36.0′ E	**Fl.(2)W.** period 12s	145 **44**	12	White round brick tower; 101.	
16808 *C 4465.4*	Kallan.	60° 27.0′ N 19° 44.0′ E	**Q.W.R.G.**	26 **8**	4	Hut, concrete base; 10.	W. 117°30′-148°30′, R.-178°30′, G.-199°, W.-216°, R.-349°, G.-117°30′. Occasional.
16812 *C 4465*	Koksnan.	60° 28.1′ N 19° 56.4′ E	**Fl.W.** period 5s	69 **21**	5	Lattice mast, red and white lantern.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-AHVENANMAA (ALAND ISLANDS)				
16814 *C 4464.4*	Ranno.	60° 31.7′ N 20° 12.0′ E	**Q.(2)W.** period 5s	66 **20**	5	Wooden building.	Fishing light.
	RACON		**T(–)** period 90s		13		
16948 *C 4462.6*	Inre Bredan.	60° 35.0′ N 20° 43.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	31 **9**	5	Masonry tower; 15.	W. 169°-179°, R.-256°, G.-325°, W.-330°, R.-354°, G.-169°. Occasional.
16952 *C 4450.4*	Sandbacks Sodra, on Sandbacks Norra.	60° 45.9′ N 20° 44.7′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	42 **13**	8	Orange tower; 33.	
	RACON		**T(–)**		11		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
16956 *C 4453.3*	Ljungbergsinkivi.	60° 43.0′ N 20° 56.0′ E	**V.Q.W.**	41 **12**	3	N. CARDINAL BY, beacon, topmark.	**Radar reflector.**
16960 *C 4453.4*	Isokari W.	60° 43.0′ N 20° 59.0′ E	**Q.(5)Y.** period 6s	41 **12**	2	Steel mast, red and white.	**Radar reflector.**
16968 *C 4450*	**Isokari,** rear, 370 meters 342° from front.	60° 43.2′ N 21° 00.8′ E	**F.L.Fl.W.** period 20s fl. 2.3s, ec. 17.7s	162 **49**	**19**	White tower, red bands; 122.	Pilot station.
16972 *C 4453*	Keskikallio.	60° 42.0′ N 21° 04.0′ E	**Fl.(4)W.R.G.** period 6s	70 **21**	W. 7	White octagonal concrete tower, upper part black; 51.	G. 099°-117°, W.-119°, R.-292°, G.-300°, W.-302°, R.-311°.
16984 *C 4454*	Iso Hauteri Range, front.	60° 39.9′ N 21° 04.4′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	37 **11**	10	Red rectangular daymark, white stripe.	Visible 132°30′-136°30′.
	RACON		**T(–)** period 90s		11		
16988 *C 4454.1*	-Vaha Hauteri, rear, about 1, 611 meters 134°30′ from front.	60° 39.4′ N 21° 05.6′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	60 **18**	11	Red rectangular daymark, white stripe.	Visible 132°30′-136°30′.
17192 *C 4447.6*	Sammo Range, front.	60° 50.0′ N 21° 07.0′ E	**Q.W.**	11 **3**	5	Red rectangular daymark, white stripe; 8.	Visible 341°30′-349°30′.
17196 *C 4447.61*	-Rear, 2.5 km. 345°30′ from front.	60° 51.1′ N 21° 06.0′ E	**L.Fl.W.** period 6s	59 **18**	6	Red rectangular daymark, red stripe.	Visible 341°30′-349°30′. Same structure as Sammo light.
	UUSUIKAUPUNKI APPROACH:						
17208 *C 4457.7*	-Vilissalo Range, front.	60° 48.0′ N 21° 23.0′ E	**Q.W.**	19 **6**	14	Yellow rectangular daymark, red field.	Visible 049°-069°.
17212 *C 4457.71*	- -Rear, 059° from front.	60° 47.7′ N 21° 23.7′ E	**L.Fl.W.** period 6s	49 **15**	**15**	Yellow rectangular daymark, red field.	Visible 049°-069°.
17216 *C 4460*	Hepokari Range, front.	0° 00.0′ 0° 00.0′					*Remove from list.*
17220 *C 4460.1*	-Rear, about 32 meters	0° 00.0′ 0° 00.0′					*Remove from list.*
17224 *C 4445.5*	Nurminen Range, front.	60° 53.0′ N 21° 10.0′ E	**Q.W.**	26 **8**	6	Yellow rectangular daymark, red stripe.	Visible 172°-176°.
17228 *C 4445.6*	-Rear, 1,111 meters 174° from front.	60° 52.2′ N 21° 10.0′ E	**L.Fl.W.** period 6s	52 **16**	7	Yellow rectangular daymark, red stripe.	Visible 172°-176°.
17246 *C 4444.3*	-Santakarinluoto Range, front.	60° 57.3′ N 21° 08.5′ E	**Q.Y.**	10 **3**	4	Red rectangular daymark, yellow field.	Visible 194°-202°.
17246.1 *C 4444.31*	- -Rear, 198° from front.	60° 56.6′ N 21° 08.0′ E	**L.Fl.W.** period 6s	39 **12**	5	Red rectangular daymark, yellow field.	Visible 194°-202°.
17248 *C 4445*	Hylkkari.	60° 57.0′ N 21° 10.0′ E	**Q.(2)W.R.G.** period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	20 **6**	6	Red round concrete tower, white band; 12.	G. 305°-320°, W.-324°, R.-334°, G.-356°, W.-009°, R.-111°, G.-126°, W.-143°, R.-173°.
17252 *C 4440*	Kajakulma Range, front.	60° 59.9′ N 21° 11.0′ E	**Fl.W.R.G.** period 2s	39 **12**	W. 7	White round concrete tower, red rectangular daymark, yellow stripe.	R. 061°-097°, G.-125°, W.-137°, R.-178°, G.-191°, obsc.-242°, G.-280°, W.-282°, R.-284°. Occasional. **Radar reflector.**
	RACON		**T(–)** period 90s		12		

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			FINLAND-GULF OF BOTHNIA				
17256 *C 4440.1*	-Laitakari, rear, 2.2 kilometers 132° from front.	60° 59.1′ N 21° 12.6′ E	**Iso.W.** period 6s	72 **22**	6	Red rectangular daymark, yellow stripe; 34.	Visible 128°-136°. Occasional.
17257 *C 4444.4*	-Kajaniemi Range, front.	60° 59.6′ N 21° 10.3′ E	**Q.W.**	20 **6**	5	Red rectangular daymark, yellow stripe.	Visible 031°-039°. Occasional.
17257.1 *C 4444.41*	--Rear, 035° from front.	60° 59.9′ N 21° 10.8′ E	**L.Fl.W.** period 6s	39 **12**	6	White round concrete tower.	Visible 031°-039°. Same structure as Kajakulma light. Occasional.
17260 *C 4447*	Sammo.	60° 51.0′ N 21° 06.0′ E	**Fl.W.R.G.** period 5s	69 **21**	9	Tower, raised platform; 26.	G. 050°-102°, W.-105°, R.-164°, G.-201°, W.-207°, R.-230°, G.-261°, W.-272°, R.-305°.
17264 *C 4442*	Laitakari, E. side.	61° 03.0′ N 21° 13.0′ E	**Fl.W.R.G.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	4	Framework tower; 26.	G. 065°-110°, W.-140°, R.-156°, G.-211°, W.-216°, R.-238°, G.-252°, R.-266°, G.-269°, W.-271°, R.-278°, G.-288°, W.-293°, R.-330°. Fishing light.
	RAUMA:						
17268 *C 4417*	-Main.	61° 08.9′ N 21° 09.8′ E	**Fl.(2)W.R.G.** period 10s	72 **22**	11	Helicopter platform, red caisson.	R. 180°-243°, G.-317°, W.-332°, R.-356°30′, G.-065°, W.-180°. Reduced intensity 336°-345°.
	-RACON		**T(–)** period 90s		13		
	-Nine Meter Channel:						
17272 *C 4418*	--Rihtniemi Range, front.	61° 05.6′ N 21° 16.9′ E	**Iso.W.** period 4s	45 **14**	9	Red rectangular daymark, yellow stripe.	Visible 115°-123°.
17276 *C 4418.1*	---Rear, 1380 meters 119° from front.	61° 05.3′ N 21° 18.2′ E	**Iso.W.** period 12s	85 **26**	9	Red rectangular daymark, yellow stripe.	Visible 115°-123°.
17280 *C 4418.3*	--Urmluoto Range, front.	61° 05.2′ N 21° 21.0′ E	**Iso.W.** period 2s	58 **18**	8	Red rectangular daymark, yellow field.	Visible 106°30′-114°30′.
17284 *C 4418.31*	---Rear, 1250 meters 110°30′ from front.	61° 05.0′ N 21° 22.3′ E	**Iso.W.** period 6s	110 **34**	8	Red rectangular daymark, yellow stripe.	Visible 106°30′-114°30′.
17288 *C 4418.5*	--No. "1".	61° 06.0′ N 21° 16.0′ E	**Fl.R.** period 3s	39 **12**	4	PORT (A) R, tower, topmark.	**Radar reflector.**
17292 *C 4418.6*	--No. "2".	61° 06.1′ N 21° 15.8′ E	**Fl.G.** period 3s	39 **12**	4	STARBOARD (A) G, tower, topmark.	**Radar reflector.**
17296 *C 4418.7*	--No. "3".	61° 06.0′ N 21° 17.0′ E	**Fl.R.** period 3s	39 **12**	2	PORT (A) R, tower, topmark.	**Radar reflector.**
17300 *C 4418.8*	--No. "4".	61° 05.9′ N 21° 16.9′ E	**Fl.G.** period 3s	39 **12**	2	STARBOARD (A) G, tower, topmark.	**Radar reflector.**
17304 *C 4418.9*	--No. "5".	61° 06.0′ N 21° 18.0′ E	**Fl.R.** period 3s	39 **12**	4	PORT (A) R, tower, topmark.	**Radar reflector.**
17308 *C 4419*	--Iso Jarviluoto Range, front.	61° 07.1′ N 21° 25.8′ E	**Q.W.**	43 **13**	13	Red rectangular daymark, yellow stripe.	Visible 066°-071°.
17312 *C 4419.1*	---Rear, 1100 meters 068°30′ from front.	61° 07.3′ N 21° 26.9′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	116 **35**	14	Red rectangular daymark, yellow stripe.	Visible 066°-071°.
17316 *C 4419.3*	--No. "6".	61° 06.0′ N 21° 20.0′ E	**Fl.G.** period 3s	39 **12**	2	STARBOARD (A) G, tower, topmark.	**Radar reflector.**
17320 *C 4419.4*	--No. "8".	61° 06.0′ N 21° 21.0′ E	**Fl.G.** period 3s	39 **12**	3	STARBOARD (A) G, tower, topmark.	**Radar reflector.**
17321 *C 4419.7*	-Hakuni Range, front.	61° 07.6′ N 21° 25.8′ E	**Q.W.**	62 **19**	5	Yellow rectangular daymark, red stripe.	Visible 024°-054°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
17321.5 *C 4419.2*	-Metsa-Rauma Range, front.	61° 06.9′ N 21° 27.3′ E	**Q.R.**	43 **13**	6		Visible 082°30′-090°30′.
17321.5 *C 4419.71*	--Rear, about 600 meters 039° from front.	61° 07.9′ N 21° 26.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	79 **24**	6	Yellow rectangular daymark, red stripe.	Visible 024°-054°.
17321.51 *C 4419.21*	--Rear, 230 meters 086°30′ from front.	61° 06.9′ N 21° 27.6′ E	**L.Fl.R.** period 6s	62 **19**	6		Visible 082°30′-090°30′.
17324 *C 4421.6*	-Kalapuda.	61° 08.0′ N 21° 16.0′ E	**Q.(5)Y.** period 6s	39 **12**	2	White steel mast, upper part red.	**Radar reflector.**
17328 *C 4421*	**-Kylmapihlaja.**	61° 09.0′ N 21° 18.0′ E	**Fl.(4)W.** period 45s fl. 1s, ec. 3.5s fl. 1s, ec. 3.5s fl. 1s, ec. 3.5s fl. 1s, ec. 30.5s	118 **36**	**27**	Red and white tower; 105.	Pilot station.
17329 *C 4421.4*	--Range, front.	61° 08.6′ N 21° 18.4′ E	**Q.W.**	10 **3**	3	Yellow rectangular daymark, red stripe.	
17329.1 *C 4421.41*	---Rear, about about 100 meters 207° from front.	61° 08.5′ N 21° 18.4′ E	**Iso.W.R.G.** period 3s	23 **7**	2	Mast.	G. 028°-072°, W.-310°, R.-028°
17330 *C 4421.5*	--Range, front.	61° 08.6′ N 21° 18.1′ E	**Iso.W.** period 2s	20 **6**	10	Yellow rectangular daymark, red stripe.	Visible 059°-067°.
17330.1 *C 4421.51*	--Rear, about 260 meters 063° from front.	61° 08.7′ N 21° 18.3′ E	**Iso.W.** period 2s	46 **14**	11	Yellow rectangular daymark, red stripe.	Visible 059°-067°.
17332 *C 4437.11*	-Kuuskajaskari Range, common front.	61° 08.0′ N 21° 22.0′ E	**F.W.**	13 **4**	10	Red rectangular daymark.	Visible 260°-271°. In range 265°30′ with F.W. rear light.
			F.R.	13 **4**	3		In range 305°30′ with F.R. rear light.
17336 *C 4437.1*	--Rear, 265°30′ from front.	61° 08.2′ N 21° 22.0′ E	**F.W.**	13 **4**	10	Red square wall of shed; 8.	Visible 260°-271°.
17340 *C 4438.1*	--Rear, 305°30′ from front.	61° 08.3′ N 21° 22.0′ E	**F.R.**	20 **6**	3	Red rectangular daymark.	
17344 *C 4421.7*	-Kloppi.	61° 08.8′ N 21° 18.9′ E	**Fl.W.R.G.** period 2s	26 **8**	5	On roof of storage shed; 10.	G. 046°-007°, W.-015°, R.-046°.
17346 *C 4421.8*	-Katavalouttu Range, front.	61° 08.3′ N 21° 19.5′ E	**Q.W.**	26 **8**	3	Yellow rectangular daymark, red stripe.	Visible 091°30′-121°30′.
17346.1 *C 4421.81*	--Rear, about 170 meters 106°30′ from front.	61° 08.3′ N 21° 19.6′ E	**L.Fl.W.** period 6s	46 **14**	3	Yellow rectangular daymark, red stripe.	Visible 091°30′-121°30′.
17348 *C 4422*	-Nurmes.	61° 12.0′ N 21° 20.0′ E	**Fl.W.R.G.** period 6s fl. 0.6s, ec. 5.4s	62 **19**	9	White metal framework structure; 33.	G. 331°-016°, R.-035°, G.-063°, W.-089°, R.-196°.
17352 *C 4425*	-Pihlus Range, front.	61° 10.5′ N 21° 21.0′ E	**Q.W.**	27 **8**	3	Red rectangular daymark, yellow stripe.	Visible 319°-349°.
17356 *C 4425.1*	--Rear, 333° from front.	61° 10.6′ N 21° 21.0′ E	**Iso.W.** period 6s	36 **11**	4	Red rectangular daymark, yellow stripe.	Visible 319°-349°.
17358 *c 4437*	-Pajukari Range, front.	61° 08.1′ N 21° 23.5′ E	**Q.W.**	38 **12**	4		Visible 149°-157°.
17358.1 *c 4437.01*	--Rear, 280 meters 153° from front.	61° 08.0′ N 21° 23.7′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	58 **18**	5		Visible 149°-157°.
17360 *C 4424*	-Suokari Range, front.	61° 09.7′ N 21° 23.2′ E	**Q.Y.**	27 **8**	8	Yellow rectangular daymark, red stripe.	Visible 099°-107°.
17364 *C 4424.1*	--Rear, 103° from front.	61° 09.5′ N 21° 24.8′ E	**L.Fl.Y.** period 8s	70 **21**	8	Yellow rectangular daymark, red stripe.	Visible 099°-107°.
17368 *C 4430*	-Valkeakari Range, front.	61° 09.5′ N 21° 21.8′ E	**Q.W.**	16 **5**	3	Red rectangular daymark, yellow stripe.	Visible 294°-324°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
17372 *C 4430.1*	- -Rear, on rock, 310° from front.	61° 09.6′ N 21° 21.7′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	33 **10**	3	Red rectangular daymark, yellow stripe.	Visible 294°-326°.
17392 *C 4432.3*	-Petajas Range, front.	61° 08.0′ N 21° 27.0′ E	**Q.W.**	19 **6**	8	Yellow rectangular daymark, red stripe.	Visible 098°-106°.
17396 *C 4432.31*	- -Rear, 102° from front.	61° 08.1′ N 21° 26.7′ E	**Fl.W.** period 6s	46 **14**	8	Yellow rectangular daymark, red stripe.	Visible 098°-106°.
17406 *C 4434*	-Satama Range, front.	61° 07.6′ N 21° 27.6′ E	**F.R.**	62 **19**	1	Metal mast.	Visible 347°30′-157°30′.
17406.1 *C 4434.1*	- -Rear, about 210 meters 072°30′ from front.	61° 07.7′ N 21° 27.9′ E	**F.R.**	98 **30**	1	Metal mast.	Visible 167°30′-337°30′.
17407 *C 4435*	-Martinkarta.	61° 07.6′ N 21° 28.0′ E	**F.G.**	16 **5**	1	Post, green triangular daymark, point up.	
17407.5 *C 4435.3*	-Svoja Range, front.	61° 07.6′ N 21° 28.6′ E	**F.R.**	30 **9**	1	Mast.	Visible 001°30′-171°30′.
17407.51 *C 4435.31*	- -Rear, about 180 meters 086° from front.	61° 07.6′ N 21° 28.8′ E	**F.R.**	46 **14**	1	Mast.	Visible 001°30′-171°30′.
17408 *C 4436*	-Rounakari Range, front.	61° 08.0′ N 21° 22.0′ E	**Q.W.**	20 **6**	3	Red rectangular daymark, white stripe; 12.	Visible 225°-257°.
17412 *C 4436.1*	- -Rear, 241° from front.	61° 07.6′ N 21° 21.1′ E	**Iso.W.** period 5s	33 **10**	3	Red rectangular daymark, white stripe; 19.	Visible 225°-257°.
17436 *C 4406*	Kalla.	61° 16.1′ N 21° 21.2′ E	**Fl.W.R.G.** period 5s	34 **10**	7	Grey tower.	R. 007°-036°, G.-093°, W.-184°, R.-215°, G.-256°, W.-007°.
17438 *C 4404*	Fransinkari Range, front.	61° 21.7′ N 21° 25.2′ E	**Q.W.**	16 **5**	4	Mast, white rectangular dayamrk, red stripe.	Visible 058°-066°.
17438.1 *C 4404.1*	-Rear, 062° from front.	61° 22.0′ N 21° 25.8′ E	**L.Fl.W.** period 6s	53 **16**	5	Mast, white rectangular daymark, red stripe.	Visible 058°-066°.
17440 *C 4399*	Viasvesi Range, front.	61° 28.0′ N 21° 34.0′ E	**F.W.**	13 **4**	8	Post.	Fishing light.
17444 *C 4399.1*	-Rear, 366 meters 096°30′ from front.	61° 27.8′ N 21° 34.6′ E	**F.W.**	31 **9**	11	Post.	Visible 85°-115°. Fishing light.
17448 *C 4398*	Sappi.	61° 28.6′ N 21° 20.8′ E	**Fl.(2+1)W.** period 30s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 12.7s fl. 0.4s, ec. 12.7s	114 **35**	10	White round tower; 102.	
17452 *C 4374*	Kaijakari.	61° 37.0′ N 21° 22.0′ E	**Fl.(2)W.** period 20s	65 **20**	10	Metal framework tower, white lantern.	Intensified 350°-115°.
17456 *C 4376*	Kallo Range, front.	61° 35.7′ N 21° 28.0′ E	**Iso.W.R.G.** period 2s	36 **11**	9	White tower.	G. 106°-123°, W.-128°, R.-155°, G.-195°, W.-208°, R.-264°. **Radiobeacon** , about 183 meters SSW.
17460 *C 4376.1*	-Uniluoto, Pori approach, rear, 792 meters 124°30′ from front.	61° 35.4′ N 21° 28.5′ E	**Iso.W.** period 4s	85 **26**	5	Steel framework mast, yellow rectangular daymark, red stripe.	Visible 108°30′-140°30′.
17462 *C 4382*	Morris.	61° 34.8′ N 21° 24.7′ E	**Fl.(2)R.** period 6s	43 **13**	4	PORT (A) R, mast, topmark.	
	RACON		**T(–)** period 30s		10		
17463	Levo Range, front.	61° 35.3′ N 21° 30.1′ E	**Iso.W.** period 4s	28 **9**	14	Steel mast.	Visible 070°30′-074°30′. By day: range 7M, visible 067°-077°.
17463.1	-Rear, 800 meters 072°30′ from front.	61° 35.4′ N 21° 31.0′ E	**Iso.W.** period 12s	87 **27**	14	Steel mast.	Visible 070°30′-074°30′. By day: range 8M, visible 067°-077°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
17464 *C 4388*	Vassikkaniemi (Mantyluoto) Range, front.	61° 36.0′ N 21° 30.0′ E	**Q.Y.**	47 **14**	8	White rectangular daymark, red field.	Visible 108°-145°.
17468 *C 4388.1*	-Rear, about 305 meters 126°30′ from front.	61° 35.6′ N 21° 29.6′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	77 **23**	8	White rectangular daymark, red stripe.	Visible 108°-145°.
17472 *C 4390*	-Kirrinsanta Range, front.	61° 36.0′ N 21° 30.0′ E	**F.R.**				
17476 *C 4390.1*	- -Rear, 350 meters 090° from front.	61° 35.8′ N 21° 30.5′ E	**F.R.**				
	REPOSAARI:						
17480 *C 4378*	-Rafso.	61° 36.3′ N 21° 27.4′ E	**Q.(4)W.R.G.** period 6s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 3.3s	32 **10**	9	White lantern on metal framework structure.	G. 291°-085°30′, W.-091°, R.-111°.
17484 *C 4394*	-Commercial Harbor Range, front.	61° 37.0′ N 21° 27.0′ E	**F.R.**	44 **13**	4	Steel structure, red stripe, white triangular daymark.	Visible 215°30′-035°30′. The channel to Bjorneborg is marked by 3 F.R. lights on the N. and E. sides, and 3 F.W. lights on the S. and W. sides.
17488 *C 4394.1*	- -Naval Harbor, rear, on quay, 685 meters 305°30′ from front.	61° 37.1′ N 21° 26.0′ E	**F.R.**	77 **23**	4	Lantern on chimney.	Visible 215°30′-035°30′.
17492 *C 4369*	Kupeli.	61° 38.1′ N 21° 20.2′ E	**Fl.W.R.G.** period 5s	36 **11**	7	White mast, red stripe.	W. 000°-090°, R.-222°, G.-247°, W.-253°, R.-324°, G.-000°. **Radar reflector.**
	RACON		**T(–)** period 90s		11		
17496 *C 4384*	Kallo-Tiepenger Range, front.	61° 36.0′ N 21° 28.0′ E	**Q.W.**	32 **10**	9	Red rectangular daymark, yellow stripe.	Visible 047°-055°.
17500 *C 4384.1*	-Rear, 051° from front.	61° 36.9′ N 21° 30.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	94 **29**	12	Red rectangular daymark, yellow stripe.	Visible 049°-053°.
17504 *C 4385*	Kooshaka Range, front.	61° 37.0′ N 21° 29.0′ E	**Q.Y.**	17 **5**	7	Red rectangular daymark, yellow stripe.	Visible 029°-039°.
17508 *C 4385.1*	-Rear, 033° from front.	61° 37.3′ N 21° 29.4′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	43 **13**	7	Red rectangular daymark, yellow stripe.	Visible 016°-050°.
17510 *C 4366*	**Tahkoluoto** Range, front.	61° 38.3′ N 21° 24.0′ E	**Iso.W.** period 2s	43 **13**	**17**	Steel framework mast, red rectangular daymark, yellow stripes.	Visible 129°-138°.
17510.1 *C 4366.1*	-Rear, 133°30′ from front.	61° 38.0′ N 21° 24.5′ E	**L.Fl.W.** period 6s	105 **32**	**18**	Steel framework mast, red rectangular daymark, yellow stripe.	Visible 129°-138°.
17534 *C 4365*	Porin Majakka.	61° 42.4′ N 21° 13.9′ E	**Fl.W.** period 12s fl. 0.5s, ec. 11.5s	60 **18**	10	Steel caisson, yellow and black.	
	RACON		**T(–)** period 90s		12		
17544 *C 4356*	Stakki Range, front.	61° 51.0′ N 21° 19.0′ E	**Q.W.**	35 **11**	5	White rectangular daymark, red stripe.	Visible 076°30′-092°30′. Shown on request.
17548 *C 4356.1*	-Rear, 084°30′ from front.	61° 51.2′ N 21° 19.6′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	53 **16**	6	White rectangular daymark, red stripe.	Visible 076°30′-092°30′. Shown on request.
17600 *C 4352*	Malskeri Range, front.	61° 55.0′ N 21° 21.0′ E	**Q.W.**	23 **7**	6	Red rectangular daymark, yellow field.	Visible 024°-032°. **Radar reflector.**

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			FINLAND-GULF OF BOTHNIA				
17604 *C 4352.1*	-Rear, about 914 meters 028° from front.	61° 55.4′ N 21° 21.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	66 **20**	7	Red rectangular daymark, yellow field.	Visible 024°-032°.
17608 *C 4350*	Kasala Range, front.	61° 56.5′ N 21° 21.1′ E	**Q.W.**	49 **15**	8	Red rectangular daymark, yellow stripe.	Visible 086°-090°.
17610 *C 4350.1*	-Rear, 088° from front.	61° 56.6′ N 21° 21.6′ E	**L.Fl.W.** period 6s	102 **31**	9	Red rectangular daymark, yellow stripe.	Visible 086°-090°.
17612 *C 4351*	-Merikarvia.	61° 55.8′ N 21° 16.8′ E	**Fl.(2)W.** period 20s	52 **16**	7	Red steel mast, two white bands.	**Radar reflector.**
	-RACON		**T(–)** period 30s		10		
17616 *C 4348*	**Yttergrund.**	61° 59.0′ N 21° 18.0′ E	**L.Fl.(3)W.** period 30s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 17.5s	143 **44**	**16**	White round tower, upper part red; 134.	Visible 336°-180°.
17628 *C 4340*	Sandskar-Idgrund Range, front.	62° 08.0′ N 21° 18.0′ E	**Q.R.**	31 **9**	9	Post.	Visible 083°-097°. Fishing light.
17632 *C 4340.1*	-Rear, 090° from front.	62° 08.0′ N 21° 17.7′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	44 **13**	9	Post.	Visible 083°-097°. Fishing light.
	KRISTINESTAD APPROACH:						
17648 *C 4330*	-Harkmeri Range, front.	62° 11.5′ N 21° 20.0′ E	**Q.W.**	56 **17**	7	White square concrete tower, red rectangular daymark, yellow stripe.	Visible 067°-075°.
17652 *C 4330.1*	- -Rear, 071° from front.	62° 12.0′ N 21° 23.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	80 **24**	8	White square masonry tower, red rectangular daymark, yellow stripe.	Visible 067°-075°.
17662 *C 4328.3*	-Norra Storbadan.	62° 13.3′ N 21° 15.3′ E	**Q.(5)W.** period 6s	43 **13**	4	White steel mast, red band, on concrete base.	
17663 *C 4328.2*	-Kristiiankaupunki.	62° 12.2′ N 21° 10.4′ E	**Fl.(2)W.** period 20s	75 **23**	12	Yellow steel mast, black top.	
	-RACON		**T(–)** period 30s		13		
17680 *C 4328*	-Batskar Range, front.	62° 14.7′ N 21° 18.6′ E	**Q.W.**	47 **14**	10	Steel mast, red rectangular daymark, yellow stripe.	Visible 056°-062°.
17684 *C 4328.1*	- -Rear, 059° from front.	62° 15.1′ N 21° 19.4′ E	**L.Fl.W.** period 6s	108 **33**	11	Steel mast, red rectangular daymark, yellow stripe.	Visible 056°-062°.
17704 *C 4326*	Gasberget, S. point of islet.	62° 17.0′ N 21° 18.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	31 **9**	7	White octagonal hut, concrete base.	W. 223°-013°, G.-045°, W.-074°, R.-088°, W.-092°, R.-103°, W.-163°. Occasional.
17708 *C 4318*	**Salgrund.**	62° 20.0′ N 21° 12.0′ E	**L.Fl.W.** period 30s fl. 3.2s, ec. 26.8s	99 **30**	**16**	White round stone tower, red bands; 83.	Storm signals. Pilot station.
17720 *C 4321.5*	-Storremmargrund.	62° 19.8′ N 21° 12.8′ E	**F.W.**	24 **7**	2	White tower, red stripe. Floodlit.	**Radar reflector.**
	-RACON		**T(–)** period 30s		10		
17760 *C 4316*	Rovargrund.	62° 28.1′ N 21° 08.1′ E	**Fl.W.R.G.** period 5s	33 **10**	4	White tower, red base.	G. 010°-059°, W.-100°, R.-145° Fishing light.
17768 *C 4312*	Gashallan.	62° 35.0′ N 21° 03.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	4	Post; 8.	W. 009°-057°, R.-096°, G.-128°, W.-133°, R.-230°, G.-311°, W.-317°, R.-343°, G.-009°. Fishing light.

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			FINLAND-GULF OF BOTHNIA				
17769 *C 4298.5*	Ytterstgrund Range, front.	62° 40.1′ N 21° 05.2′ E	**Q.W.**	18 **5**	6	Tripod, red rectangular daymark, yellow stripe.	Visible 128°30′-136°30′.
17769.1 *C 4298.51*	-Rear, 132°30′ from front.	62° 40.7′ N 21° 05.8′ E	**L.Fl.W.**	66 **20**	7	Tripod, red rectangular daymark, yellow stripe.	Visible 128°30′-136°30′.
17770 *C 4298.6*	Halgrund Range, front.	62° 41.6′ N 21° 05.3′ E	**Q.Y.**	24 **7**	4	Tripod, yellow rectangular daymark, red stripe.	Visible 051°30′-063°30′.
17770.1 *C 4298.61*	-Rear, 057°30′ from front.	62° 41.6′ N 21° 05.5′ E	**L.Fl.Y.** period 6s fl. 2s, ec. 4s	46 **14**	5	Tripod, yellow rectangular daymark, red stripe.	Visible 051°30′-063°30′.
17772 *C 4299*	Utstenarna Range, front.	62° 44.0′ N 21° 08.0′ E	**Q.Y.**	12 **4**	6	Yellow rectangular beacon, red stripe.	Visible 125°-131°. Occasional.
17776 *C 4299.1*	-Rear, 128° from front.	62° 43.9′ N 21° 09.2′ E	**Fl.Y.** period 6s	26 **8**	6	Yellow rectangular beacon, red stripe.	Visible 125°-131°. Occasional.
17780 *C 4299.2*	Palnasgrynnan Range, front.	62° 45.0′ N 21° 08.0′ E	**Q.W.**	13 **4**	6	Yellow rectangular beacon, red stripe.	Visible 098°-104°. Occasional.
17784 *C 4299.21*	-Rear, 101° from front.	62° 45.2′ N 21° 08.9′ E	**Fl.W.** period 6s	26 **8**	7	Yellow rectangular beacon, red stripe.	Visible 098°-104°. Occasional.
17800 *C 4300*	Lillgrund.	62° 49.0′ N 21° 05.0′ E	**Q.W.**	47 **14**	5	Structure; 40.	Fishing light.
17804 *C 4302*	Svettgrund.	62° 52.0′ N 21° 04.0′ E	**Fl.W.R.G.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	5	Pyramidal beacon; 24.	W. 200°-024°, R.-056°, G.-084°, W.-097°, R.-200°.
17808 *C 4302.02*	Norra Salhuvudet.	62° 54.0′ N 21° 06.0′ E	**Fl.W.R.G.** period 3s	13 **4**	4	White shed.	G. 337°-007°, W.-010°, R.-040°, G. 153°-183°, W.-186°, R.-216°.
17812 *C 4302.4*	Tredjedelssternarna.	62° 55.0′ N 21° 07.0′ E	**Fl.W.R.G.** period 3s	13 **4**	4	White shed on rock.	G. 114°-144°, W.-147°, R.-177°.
17816 *C 4302.6*	Moikipaagrund.	62° 56.0′ N 21° 06.0′ E	**Fl.W.R.G.** period 3s	16 **5**	5	White shed.	G. 152°-182°, W.-186°, R.-216°.
17820 *C 4294*	Strommingbadan, on Norra Kallan.	62° 58.8′ N 20° 44.3′ E	**L.Fl.(4)W.R.** period 20s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 6s	53 **16**	13	White round tower, upper part red; 45.	W. 000°-170°, R.-200°, W. (unintensified)-310°, R.-000°.
	VAASA-RITGRUND APPROACH:						
17824 *C 4224*	-Ritgrund Beacon.	63° 26.0′ N 21° 31.0′ E	**Fl.(2)W.R.G.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 **25**	9	Red conical tower; 60.	W. 004°-065°, G.-115°, W.-180°, R.-245°, G.-004°.
17828 *C 4238*	-Truthallan Range, front.	63° 17.1′ N 21° 32.0′ E	**Q.W.**	39 **12**	8	Red rectangular beacon, white stripe.	Visible 169°-173°.
17832 *C 4238.1*	--Grillskar, rear, 1.1 km. 171° from front.	63° 16.6′ N 21° 32.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	73 **22**	9	Red rectangular beacon, white stripe.	Visible 169°-173°.
17836 *C 4241*	-Holmgrund Range, front.	63° 14.0′ N 21° 27.9′ E	**Q.W.**	35 **11**	7	Yellow rectangular beacon, red stripe.	Visible 191°-199°.
17840 *C 4241.1*	--Replot, rear, about 1,574 meters 195° from front.	63° 12.8′ N 21° 27.2′ E	**L.Fl.W.** period 6s	63 **19**	8	Yellow rectangular beacon, red stripe.	Visible 191°-199°.
17844 *C 4242*	-Storgrund-Skjutskar Range, front.	63° 13.0′ N 21° 30.0′ E	**Q.W.**	19 **6**	4	Yellow rectangular beacon, red stripe.	Visible 149°-179°.
17848 *C 4242.1*	--Fjallskar Norre, rear, 1,667 meters 164° from front.	63° 12.3′ N 21° 29.3′ E	**L.Fl.W.** period 6s	39 **12**	4	Yellow rectangular beacon, red stripe.	Visible 149°-179°.
17852 *C 4243*	-Ledsten Range, front.	63° 12.5′ N 21° 28.9′ E	**Q.W.**	16 **5**	5	Yellow rectangular daymark, red stripe.	Visible 172°-204°.

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			FINLAND-GULF OF BOTHNIA				
17856 *C 4243.1*	--Margetor rear, about 2.0 kilometers 188° from front.	63° 11.3′ N 21° 28.5′ E	**L.Fl.W.** period 6s	35 **11**	6	Yellow rectangular daymark, red stripe.	Visible 184°-192°.
17860 *C 4244*	-Kuisa Range, front.	63° 09.7′ N 21° 26.6′ E	**Q.W.**	25 **8**	4	Yellow rectangular beacon, red stripe.	Visible 183°30′-215°30′.
17864 *C 4244.1*	--Harmi, rear, 3.7 kilometers 199°30′ from front light.	63° 07.8′ N 21° 25.2′ E	**L.Fl.W.** period 6s	58 **18**	7	Yellow rectangular beacon, red stripe.	Visible 195°30′-203°30′.
17868 *C 4245*	-Berggrund Range, front.	63° 12.0′ N 21° 28.0′ E	**Q.W.**	15 **5**	5	Yellow rectangular beacon, red stripe.	Visible 020°-050°.
17872 *C 4245.1*	-Fjallskar, rear, about 1,574 meters 035° from front.	63° 12.3′ N 21° 29.6′ E	**L.Fl.W.** period 6s	36 **11**	5	Yellow rectangular beacon, red stripe.	Visible 020°-050°.
17876 *C 4246*	-Vintervagsgrund Range, front.	63° 10.2′ N 21° 25.4′ E	**Q.W.**	13 **4**	5	Yellow rectangular beacon, red stripe.	Visible 344°-015°.
17880 *C 4246.1*	--Rear, Espskar, about 2.6 kilometers 359° from front.	63° 11.6′ N 21° 25.3′ E	**L.Fl.W.** period 6s	37 **11**	6	Yellow rectangular beacon, red stripe.	Visible 355°-003°.
17884 *C 4264.5*	Stigelskar Range, front.	63° 09.0′ N 21° 25.0′ E	**Q.Y.**	19 **6**	10	Red rectangular daymark, yellow stripe.	Visible 070°30′-078°30′.
17888 *C 4264.51*	-Rear, about 2,870 meters 074°30′ from front.	63° 09.1′ N 21° 27.7′ E	**L.Fl.Y.** period 6s	108 **33**	11	Red rectangular daymark, yellow stripe.	Visible 071°-078°.
17892 *C 4269.3*	Furugrund Range, front.	63° 10.0′ N 21° 16.0′ E	**Q.Y.**	13 **4**	3	Yellow triangular daymark, point upward, red stripe.	Visible 009°-023°.
17896 *C 4269.31*	-Rear, 016° from front.	63° 09.8′ N 21° 15.9′ E	**Q.Y.**	21 **6**	3	Yellow triangular daymark, point downward, red stripe.	Visible 009°-023°.
17900 *C 4264.3*	Storkobben Range, front.	63° 06.1′ N 21° 17.0′ E	**Fl.Y.** period 2s	16 **5**	7	Red rectangular daymark, yellow stripe.	Visible 106°-114°.
17904 *C 4264.31*	-Rear, about 1620 meters 110° from front.	63° 05.7′ N 21° 18.8′ E	**L.Fl.Y.** period 8s	64 **20**	8	Red rectangular daymark, yellow stripe.	Visible 106°-114°.
17908 *C 4252*	-Ostra Norrskar, S. side of NE. point of island.	63° 15.0′ N 20° 42.0′ E	**Fl.(4)W.R.G.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	39 **12**	7	Square black concrete tower, white octagonal lantern; 28.	G. 342°-004°, W.-014°, R.-110°, G.-139°, W.-206°, R.-218°, G.-233°, W.-317°, R.-342°.
	VAASA-WEST APPROACH:						
17912 *C 4250*	**-Norrskar.**	63° 14.0′ N 20° 36.3′ E	**L.Fl.(1+2)W.** period 60s fl. 6s, ec. 21s fl. 3s, ec. 6s fl. 3s, ec. 21s	105 **32**	**16**	Black octagonal tower, white band.	
17912.5	-Lotsgrund.	63° 11.1′ N 20° 43.0′ E	**Q.W.**	41 **12**	4	N. CARDINAL BY, beacon.	
	-RACON		**T(–)**				
17913 *C 4250.5*	--Range, front.	63° 13.7′ N 20° 40.5′ E	**Fl.W.** period 2s	38 **12**	9	Red rectangular daymark, yellow stripe.	Visible 278°30′-282°30′.
17913.5 *C 4250.51*	---Rear, 280°30′ from front.	63° 14.0′ N 20° 36.4′ E	**L.Fl.W.** period 6s	105 **32**	9	Black octagonal tower, white stripe.	Visible 278°30′-282°30′.
17916 *C 4251*	-Norkallan.	63° 14.2′ N 20° 35.5′ E	**Fl.W.R.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	7	Red, round concrete tower.	R. 215°-327°, G.-354°, W.-215°. **Radar reflector.**
17920 *C 4253*	-Fletagrund Range, N. side of islet close E. of Norrskaret, front.	63° 14.0′ N 20° 37.0′ E	**Q.W.**	19 **6**	6	White square daymark, red stripe.	Visible 166°-172°. Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
17924 *C 4253.1*	--Rear, about 68 meters 169° from front.	63° 14.1′ N 20° 37.4′ E	**L.Fl.W.R.G.** period 6s	33 **10**	5	Yellow rectangular daymark, red stripe.	G. 006°-025°, W.-035°, R.-059°30′, obsc.-079°30′, R.-111°, obsc.-134°, G.-159°, W.-174°, R.-182°, obsc.-339°, G.-347°, W.-352°, R.-006°.
17928 *C 4261*	-Vaasa.	63° 14.4′ N 20° 55.7′ E	**Fl.(2)W.R.G.** period 10s	52 **16**	12	White round caisson, upper part red; 65.	R. 354°-055°, G.-061°, W.-065°, R.-105°, G.-116, W.-354°.
	-RACON		**T(–)** period 90s		11		
17932 *C 4253.8*	-Dersiskargrund.	63° 04.0′ N 20° 49.0′ E	**Fl.W.R.G.** period 3s	20 **6**	5	White hut, red stripe; 12.	G. 356°-018°, W.-021°, R.-030°.
17937 *C 4254*	-Ronnskarbaden Range, front.	63° 04.4′ N 20° 49.3′ E	**Q.W.**	26 **8**	7	Steel mast, red rectangular daymark, yellow stripe.	Visible 057°30′-065°30′.
17937.1 *C 4254.1*	--Rear, 061°30′ from front.	63° 04.6′ N 20° 50.3′ E	**L.Fl.W.**	33 **10**	7	Steel mast, red rectangular daymark, yellow stripe.	Visible 057°30′-065°30′.
	--Auxiliary light.		**Fl.W.R.G.** period 3s	33 **10**	3	Same structure.	G.-002°-017°, W.-027°, R.-044°.
17940 *C 4292*	-Tummelso Range, front.	63° 04.0′ N 20° 51.0′ E	**Q.R.**	11 **3**	2	Red rectangular shape, yellow stripe.	Visible 086°-117°.
17944 *C 4292.1*	--Rear, 213 meters 101°30′ from front.	63° 04.1′ N 20° 51.0′ E	**Iso.R.** period 4s	24 **7**	2	Red rectangular shape, yellow stripe.	Visible 086°-117°.
17946 *C 4258*	-Medelbadan Range, front.	63° 05.7′ N 20° 50.3′ E	**Q.W.**	20 **6**	7	Steel mast, red rectangular daymark, yellow stripe.	Visible 258°30′-266°30.
17946.1 *C 4258.1*	--Rear, 262°30′ from front.	63° 05.5′ N 20° 46.0′ E	**L.Fl.W.** period 8s	92 **28**	9	Steel mast, red rectangular daymark, yellow stripe.	Visible 258°-268°.
17948 *C 4256*	-Djupskar Range, front.	63° 06.0′ N 20° 49.0′ E	**Q.W.R.G.**	7 **2**	5	White hut; 6.	G. 290°30′-307°, W.-314°, R.-332°, W.-044°.
17952 *C 4256.1*	--Rear, Lilla Svartbadan, 021° from front.	63° 06.9′ N 20° 49.9′ E	**L.Fl.W.R.G.** period 6s	21 **6**	6	White octagonal hut; 19.	R. 317°30′-329°, G.-349°, W.-045°, obsc.-178°30′, W.-223°30′.
17964 *C 4259*	-Veckargrund.	63° 06.0′ N 20° 50.0′ E	**Fl.W.R.G.** period 3s	23 **7**	4	White hut on concrete base, red on E. side.	W. 026°-059°, obsc.-065°, G.-075°, W.-086°, R.-103°, G.-108°, W.-193°.
17968 *C 4291*	-Svartsen.	63° 06.0′ N 20° 53.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	17 **5**	4	Red tower; 9.	G. 071°-098°, W.-099°, R.-133°30′, W.-161°30′.
17970	-Skvattan, RACON.	63° 07.8′ N 20° 49.8′ E	**T(–)** period 90s		13		
17972 *C 4265*	--Tjarnbadan.	63° 03.0′ N 21° 18.0′ E	**Fl.Y.** period 3s	85 **26**	4	White square framework structure, upper part red; 78.	Fishing light.
17976 *C 4264*	-Gasgrund Range, front.	63° 06.5′ N 21° 10.7′ E	**Fl.W.** period 2s	18 **5**	7	Concrete tower, red rectangular daymark, yellow stripe.	Visible 134°-142°.
	-RACON		**T(–)** period 90s		10		
17980 *C 4264.1*	--Rear, 4.1 km. 138° from front.	63° 05.1′ N 21° 13.3′ E	**L.Fl.W.** period 8s	106 **32**	9	Red rectangular daymark, yellow stripe in center.	Visible 134°-142°.
			Fl.Y. period 3s	39 **12**	4		Visible 225°-090°. Fishing light.
17984 *C 4268*	-Malvetungsgrynnan.	63° 10.0′ N 21° 11.0′ E	**Q.W.R.G.**	19 **6**	4	Wooden framework tower, white hut.	G. 030°-119°, W.-125°, R.-200°, G.-286°, W.-289°, R.-299°, G.-310°, W.-317°, R.-030°.
18012 *C 4270*	-Sundbadan.	63° 10.0′ N 21° 15.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	32 **10**	4	Mast; 15.	G. 170°-200°, W.-209°, R.-230°, G.-304°, W.-307°, R.-323°, G.-338°, W.-349°, R.-000°, G.-007°, W.-021°, R.-063°, G.-072°, W.-080°, R.-170°. Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
18016 *C 4272.5*	Graskal.	63° 08.0′ N 21° 20.0′ E	**Fl.G.** period 3s fl. 0.2s, ec. 2.8s	39 **12**	3	Tower, green triangular daymark.	
18020 *C 4272*	-Fagelskar.	63° 08.6′ N 21° 20.5′ E	**V.Q.(5)W.** period 6s	18 **5**	4	White lantern on roof of square concrete hut.	
18024 *C 4273*	Stengrund.	63° 07.0′ N 21° 21.0′ E	**Fl.R.** period 3s	39 **12**	3	Tower, red rectangular daymark.	
18028 *C 4275*	Kopparfuruskar Range, front.	63° 08.0′ N 21° 26.0′ E	**Q.W.**	57 **17**	11	Steel framework mast, yellow rectangular daymark, red stripe.	Visible 077°-085°.
18032 *C 4275.1*	-Rear, 1,019 meters 081° from front.	63° 08.2′ N 21° 26.8′ E	**L.Fl.W.** period 6s	114 **35**	12	Steel framework mast, yellow rectangular daymark, red stripe.	Visible 077°-085°.
18036 *C 4275.5*	-Norra Hasten.	63° 07.0′ N 21° 22.6′ E	**Fl.R.** period 3s	19 **6**	4	Round red concrete tower.	Visible 272°30′-137°30′. **Radar reflector.**
18040 *C 4276*	-Nagelprick Range, front.	63° 07.0′ N 21° 22.0′ E	**Q.Y.**	21 **6**	5	Round concrete tower, red rectangular daymark, yellow field.	Visible 096°-128°.
	-Storhasten.		**Fl.G.** period 3s	28 **9**	2	Same structure.	Visible 128°-096°.
18044 *C 4276.1*	- -Rear, Nagelprick, on submerged rock, 111°30′ from front.	63° 06.0′ N 21° 27.0′ E	**L.Fl.W.Y.** period 6s	85 **26**	9	Steel mast, round white concrete tower, red rectangular daymark, yellow field.	Y. 096°30′-126°30′, W.-096°30′.
18045 *C 4275.2*	-Storhasten Range, front.	63° 06.7′ N 21° 22.0′ E	**Q.W.**	13 **4**	4	Red rectangular daymark, yellow stripe.	Visible 125°-157°.
18045.1 *C 4275.3*	- -Rear, 510 meters 141° from front.	63° 06.5′ N 21° 22.4′ E	**L.Fl.W.** period 6s	36 **11**	5	Red rectangular daymark, yellow stripe.	Visible 125°-157°.
18048 *C 4280.3*	Jussi.	63° 04.9′ N 21° 34.4′ E	**Fl.(2)W.R.** period 3s	25 **8**	5	Steel mast on concrete base.	W. 109°-113°, R.-118°.
18052 *C 4280*	-Edvard Range, front.	63° 05.0′ N 21° 33.0′ E	**Q.W.**	15 **5**	4	White hut.	Visible 128°-255°.
18056 *C 4280.1*	- -Nikolai, N. side of Sundomland, rear, 366 meters 187°30′ from front.	63° 04.7′ N 21° 32.8′ E	**L.Fl.W.** period 6s	19 **6**	4	White lantern on white round beacon, red border.	Visible 155°-255°.
18060 *C 4284*	-Vaasa Range, front.	63° 06.0′ N 21° 36.0′ E	**F.R.**	36 **11**		Post, white triangular daymark.	Visible 100°-145°.
18064 *C 4284.1*	- -Rear, 76 meters 118° from front.	63° 05.9′ N 21° 36.3′ E	**F.R.**	53 **16**		Post, white triangular daymark, point down.	Visible 100°-145°. Shown from Aug. 15 to close of navigation. F.R. lights are shown at Eklund and Ostman, in range, 155°.
18068 *C 4282*	-Emilia Range, front.	63° 06.6′ N 21° 35.2′ E	**F.R.**	20 **6**	7	Post, white triangular daymark, red sides, point down; 16.	Visible 040°-050°.
18072 *C 4282.1*	- -Bradpo, Kasten, rear, 122 meters 045° from front.	63° 07.0′ N 21° 35.0′ E	**F.R.**	40 **12**	7	Post, white triangular daymark, red sides; 27.	Visible 040°-050°.
18076 *C 4262*	-Norra Gloppsten.	63° 10.0′ N 21° 03.0′ E	**Fl.W.R.G.** period 2s fl. 0.5s, ec. 1.5s	52 **16**	7	White concrete tower, red band.	R. 009°-117°, G.-143°, W.-147°, R.-255°30′, G.-316°, W.-319°30′, R.-331°30′, G.-009°. **Radar reflector.**
18080 *C 4236*	Korso.	63° 11.3′ N 21° 08.9′ E	**Fl.W.R.G.** period 5s fl. 0.5s, ec. 4.5s	85 **26**	12	White octagonal hut on black round concrete tower, white base; 34.	R. 328°-035°, G.-098°, W.-102°, R.-110°, G.-143°, R.-178°.
18084 *C 4271*	Lillhamnen Range, front.	63° 13.0′ N 21° 09.0′ E	**Oc.W.** period 2s	58 **18**	6	Mast, yellow rectangular daymark, red stripe.	Visible 026°-059°.
18088 *C 4271.1*	-Rear, 042°30′ from front.	63° 12.7′ N 21° 08.9′ E	**L.Fl.W.** period 6s	85 **26**	6	Mast, red rectangular daymark, yellow field.	Visible 026°-059°.

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			FINLAND-GULF OF BOTHNIA				
18092 *C 4271.3*	Lustsiasema (pilot station), front.	63° 12.7′ N 21° 08.7′ E	**Q.Y.**	17 **5**	3	Steel mast on concrete base.	Visible 006°-039°.
18096 *C 4271.31*	-Rear, 022°30′ from front.	63° 12.7′ N 21° 08.7′ E	**Fl.Y.** period 6s	30 **9**	4	Steel mast on concrete base.	Visible 006°-039°.
18100 *C 4271.4*	Aallonmurtaja (jetty) Range, front.	63° 12.7′ N 21° 08.6′ E	**Q.W.**	19 **6**	5	Mast, yellow rectangular daymark, red field.	Visible 112°30′-145°30′.
18104 *C 4271.41*	-Rear, 129° from front.	63° 12.7′ N 21° 08.7′ E	**Fl.W.** period 6s	36 **11**	6	Mast, yellow rectangular daymark, red field.	Visible 112°30′-145°30′.
18108 *C 4233*	Klubbhallan.	63° 20.0′ N 21° 01.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	29 **9**	4	Latticework structure.	W. 001°-013°, R.-038°, G.-074°, W.-142°, R.-282°, G.-312°, W.-322°, R.-352°, G.-001°. Occasional.
18112 *C 4235.5*	Klubbskat fishing harbor Range, front.	63° 18.0′ N 21° 06.0′ E	**F.R.**	19 **6**	4	Yellow triangular daymark, red stripe, point up.	Visible 052°-232°. Fishing light.
18116 *C 4235.51*	-Rear, 73 meters 142° from front.	63° 18.3′ N 21° 06.1′ E	**F.R.**	28 **9**	4	Yellow triangular daymark, red stripe, point down.	Visible 052°-232°. Fishing light.
18120 *C 4234.5*	Radskarsbadan Range, front.	63° 19.0′ N 21° 06.0′ E	**Q.W.**	18 **5**	7	Yellow rectangular daymark, red stripe.	Visible 044°-050°. Fishing light.
18124 *C 4234.51*	-Rear, 1,259 meters 047° from front.	63° 19.8′ N 21° 07.6′ E	**Fl.W.** period 6s	33 **10**	7	Yellow rectangular daymark, red field.	Visible 044°-050°. Fishing light.
18128 *C 4235*	Klubbskat.	63° 18.0′ N 21° 05.0′ E	**Q.W.R.G.**	32 **10**	4	White hut; 22.	G. 013°-069°, W.-090°, R.-193°. Fishing light.
	BJORKOBY:						
18136 *C 4231*	-Lill Svartbadan.	63° 22.0′ N 21° 18.0′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	19 **6**	4	Latticework structure.	G. 220°-238°, W.-242°, R.-258°. Fishing light.
18140 *C 4230*	-Ytterstoren Range, front.	63° 23.0′ N 21° 17.0′ E	**Q.W.**	19 **6**	6	Red rectangular daymark, yellow stripe.	Visible 161°-167°.
18144 *C 4230.1*	- -Rear, Svartbadan 1.6 km. 164° from front.	63° 21.7′ N 21° 17.7′ E	**Iso.W.** period 4s	52 **16**	7	Red rectangular daymark, yellow stripe.	Visible 161°-167°.
18148 *C 4226*	Valassaaret, W. side of Storskaret.	63° 25.0′ N 21° 04.0′ 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	124 **38**	10	Red conical framework tower; 118.	
18152 *C 4227*	Ebbskar Range, front.	63° 26.2′ N 21° 04.1′ E	**Q.W.**	13 **4**	7	Red rectangular daymark, yellow stripe.	Visible 118°-126°.
18156 *C 4227.1*	-Rear, 302 meters 122° from front.	63° 26.1′ N 21° 04.5′ E	**L.Fl.W.** period 6s	36 **11**	6	Red rectangular daymark, yellow stripe.	Visible 118°-126°.
18160 *C 4228*	Norra Storon Range, front.	63° 26.0′ N 21° 04.0′ E	**Q.W.**	16 **5**	6	Red rectangular daymark, yellow stripe.	Visible 102°30′-108°30′.
18164 *C 4228.1*	-Rear, 210 meters 102° from front.	63° 26.2′ N 21° 04.7′ E	**L.Fl.W.** period 6s	29 **9**	7	Red rectangular daymark, yellow stripe.	Visible 102°30′-108°30′.
18168 *C 4229*	Stora Nikersgrund.	63° 23.0′ N 21° 10.0′ E	**Fl.W.R.G.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	4	Masonry structure.	G. 093°-105°, W.-115°, R.-093°. Fishing light.
18172 *C 4248*	Utgrynnan.	63° 21.0′ N 20° 46.0′ E	**L.Fl.W.R.G.** period 12s fl. 3s, ec. 9s	79 **24**	13	Round concrete tower, white and red bands.	R. 029°-037°, G.-044°, W.-056°, R.-063°, G.-069°, W.-158°, R.-338°, G.-355°, W.-029°.
	RACON		**T(–)** period 90s		13		
18174 *C 4222*	Malon.	63° 18.2′ N 21° 52.3′ E	**Fl.W.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	4	Column.	R. 157°-162°, W. 162°-157°. Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
18176 *C 4219*	Stubben, center of Lillskar Islet.	63° 32.0′ N 22° 10.0′ E	**L.Fl.(3)W.** period 30s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 17.5s	70 **21**	11	On roof of Pilot house, top black, bottom white.	Visible 346°-302°.
18180 *C 4220*	Remsan.	63° 31.0′ N 22° 17.0′ E	**Fl.W.R.G.** period 4s fl. 0.5s, ec. 3.5s	25 **8**	4	Red metal framework structure.	R. 008°-029°, G.-149°, W.-159°, R.-192°, G.-328°, W.-008°. Fishing light.
18184 *C 4217*	-Grisselo.	63° 37.0′ N 22° 29.0′ E	**Fl.W.R.G.** period 4s fl. 0.5s, ec. 3.5s	14 **4**	4	Red metal structure.	G. 055°-090°, W.-097°, R.-104°, W.-169°, R.-177°, G.-185°, W.-055°. Occasional.
18188 *C 4218*	Hallgrund.	63° 38.7′ N 22° 25.4′ E	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	45 **14**	W. 6 R. 4 G. 4	White metal framework structure.	W. 119°-189°, R.-192°, G.-196°, W.-203°, R.-312°, G.-345°, W.-013°.
	JAKOBSTAD APPROACH:						
18192 *C 4216.7*	-Nummersten.	63° 41.0′ N 22° 34.0′ E	**Q.W.**	13 **4**	4	Metal structure.	Occasional.
18196 *C 4214*	-Kallan.	63° 45.1′ N 22° 31.4′ E	**Fl.(2)W.R.G.** period 6s	75 **23**	10	Red concrete tower, white band; 62.	G. 342°-047°, W.-160°, R.-209°. Pilot station.
18197 *C 4214.3*	-Pietarsaari.	63° 44.6′ N 22° 31.8′ E	**Fl.W.** period 12s	56 **17**	13	Yellow concrete tower, black top.	
	-RACON		**T(–)** period 90s		11		
18200 *C 4212*	-Rummelgrund Range, front.	63° 45.0′ N 22° 35.0′ E	**Q.W.**	36 **11**	9	Metal skeleton structure, red rectangular daymark, yellow stripe; 10.	Visible 085°-093°.
18204 *C 4212.1*	- -Rear, Bredhallan, N. side, 089° from front.	63° 44.7′ N 22° 35.4′ E	**L.Fl.W.** period 6s	72 **22**	10	Red tower, white lantern, red rectangular daymark, yellow stripe; 26.	Visible 085°-093°.
18206 *C 4215*	-Adon Range, front.	63° 43.0′ N 22° 37.0′ E	**Q.Y.**	26 **8**	5	Red rectangular structure, yellow stripe.	Visible 112°-128°.
18207 *C 4215.1*	- -Rear 130 meters 120° from front.	63° 43.4′ N 22° 37.4′ E	**L.Fl.Y.** period 6s	52 **16**	6	Red rectangular structure, yellow stripe.	Visible 112°-128°.
18208 *C 4216*	-Borgmastargrund Range, front.	63° 43.0′ N 22° 42.0′ E	**Q.R.**	29 **9**	9	Red rectangular daymark, yellow stripe.	Visible 105°-109°.
18212 *C 4216.1*	- -Rear, Halloren, N. extremity of Alholm, about 1.1 km. 107° from front.	63° 43.0′ N 22° 42.7′ E	**L.Fl.R.** period 6s	66 **20**	10	Red rectangular daymark, yellow stripe.	Visible 105°-109°.
18216 *C 4216.4*	-Alholm Range, front.	63° 42.0′ N 22° 41.0′ E	**F.R.**	21 **6**	9	White triangular daymark, red stripe.	Visible 156°-186°.
18220 *C 4216.5*	- -Rear, 171° from front.	63° 42.4′ N 22° 41.4′ E	**F.R.**	31 **9**	9	White triangular daymark, red stripe.	Visible 156°-186°.
	YKSPIHLAJA:						
18224 *C 4200*	**-Tankar.**	63° 57.0′ N 22° 51.0′ E	**Fl.W.** period 3.5s fl. 0.5s, ec. 3s	124 **38**	**27**	Red round metal tower, white band; 97.	Pilot station.
18228 *C 4201*	-Tankar, E. side of island.	63° 57.0′ N 22° 51.0′ E	**Iso.G.** period 2s	23 **7**	8	White rectangular daymark, red stripe.	Visible 282°-296°. Shown on request.
18232 *C 4202*	-Range, front.	63° 57.0′ N 22° 51.0′ E	**Iso.W.** period 2s	42 **13**	6	White hexagonal structure; 12.	Visible 108°-198°.
18236 *C 4202.1*	- -Rear, 153° from front.	63° 57.0′ N 22° 51.0′ E	**Iso.W.** period 6s	66 **20**	9	Located on lower window of tower of Tankar Light; 42.	Visible 147°-159°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
18237 *C 4202.4*	-Tankarin Range, front.	63° 57.0′ N 22° 51.0′ E	**Q.G.**	23 **7**	5	Perch.	Visible 179°-183°.
18237.1 *C 4202.41*	--Rear, 181° from front.	63° 57.0′ N 22° 51.2′ E	**L.Fl.G.** period 6s	33 **10**	5	Perch.	Visible 179°-183°.
18238	-Bergbadan, RACON.	63° 57.8′ N 22° 53.7′ E	**T(–)** period 90s		11		
18240 *C 4203*	-Kokkola.	63° 59.8′ N 22° 51.8′ E	**Fl.(2)W.R.G.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	73 **22**	12	Red and white tower; 75. Helicopter platform.	W. 065°-199°, R.-327°, G.-065°. Channel to Kokkola marked by lighted beacons and buoys.
	-RACON		**T(–)** period 30s		13		
18242 *C 4203.2*	-Pietarinkanta.	63° 59.2′ N 22° 51.4′ E	**V.Q.(5)W.** period 6s		4		**Radar reflector.**
18244 *C 4205*	-Repskar Range, front.	63° 55.9′ N 22° 56.7′ E	**Q.W.**	30 **9**	11	Red rectangular daymark, yellow stripe.	Visible 147°-167°.
18248 *C 4205.1*	--Rear, 1,500 meters 157° from front.	63° 55.2′ N 22° 57.5′ E	**L.Fl.W.** period 8s	62 **19**	11	Red rectangular daymark, yellow stripe.	Visible 147°-167°.
18252 *C 4204*	-Santapankki Range, front.	63° 56.9′ N 22° 56.4′ E	**Fl.Y.** period 2s	16 **5**	8	Steel pillar, red rectangular daymark, yellow stripe.	Visible 136°30′-144°30′.
18256 *C 4204.1*	--Rear, about 1,900 meters 140°30′ from front.	63° 56.1′ N 22° 57.9′ E	**L.Fl.Y.** period 8s	69 **21**	8	Steel pillar, red rectangular daymark, yellow stripe.	Visible 136°30′-144°30′.
18258 *C 4203.4*	-Trullevin Range, front.	63° 54.8′ N 23° 04.5′ E	**Q.W.**	13 **4**	6	White triangular daymark, point up, on base.	Visible 141°30′-151°30′.
18258.1 *C 4203.41*	--Rear, 146°30′ from front.	63° 54.7′ N 23° 04.7′ E	**L.Fl.W.** period 6s	23 **7**	7	White triangular daymark, point down, on base.	Visible 141°30′-151°30′.
18260 *C 4206*	-Kladesklippan Range, front.	63° 54.0′ N 23° 01.1′ E	**Iso.Y.** period 2s	23 **7**	10	Steel framework mast, red rectangular daymark, yellow stripe.	Visible 132°30′-143°30′.
18264 *C 4206.1*	--Rear, 1111 meters 138° from front.	63° 53.6′ N 23° 01.9′ E	**L.Fl.Y.** period 6s	62 **19**	**16**	Steel framework mast, red rectangular daymark, yellow stripe.	Visible 132°30′-143°30′.
18268 *C 4207*	-Taulukari Range, front.	63° 51.5′ N 23° 01.0′ E	**Iso.Y.** period 2s	69 **21**	10	Steel mast on concrete tower, red rectangular daymark, yellow stripe.	Visible 151°-171°.
18272 *C 4207.1*	--Rear, 1,436 meters 161° from front.	63° 50.8′ N 23° 01.6′ E	**Iso.Y.** period 6s	98 **30**	10	Steel framework mast, red rectangular daymark, yellow stripe.	Visible 151°-171°.
18274 *C 4211.5*	Outokumpu Range, front.	63° 51.6′ N 23° 02.5′ E	**F.R.**	37 **11**	5	Tripod, white rectangular daymark, red stripe.	Visible 054°30′-184°30′.
18275 *C 4211.51*	--Rear, 119°30′ from front.	63° 51.6′ N 23° 02.8′ E	**F.R.**	58 **18**	5	Tripod, white rectangular daymark, red stripe.	Visible 054°30′-184°30′.
18276 *C 4208*	-Krakholm Range, front.	63° 51.0′ N 23° 00.0′ E	**Q.W.**	20 **6**	12	Red rectangular daymark, yellow stripe.	Visible 193°30′-198°30′.
18280 *C 4208.1*	--Rear, about 370 meters 196°.	63° 50.2′ N 22° 59.5′ E	**L.Fl.W.** period 6s	49 **15**	8	Steel lattice mast, red rectangular daymark, yellow stripe.	Visible 192°30′-199°30′.
18292 *C 4211*	-Private harbor Range, front.	63° 49.8′ N 23° 02.4′ E	**F.R.**	26 **8**	3	White rectangular daymark, red stripe.	
18296 *C 4211.1*	--Rear, about 229 meters 144° from front.	63° 49.7′ N 23° 02.5′ E	**F.R.**	42 **13**	4	White rectangular daymark, red stripe.	
18300 *C 4209*	-Breakwater, head.	63° 51.2′ N 23° 00.3′ E	**F.Y.**	17 **5**	3	White structure, black top. Floodlit.	Visible 320°-260°.
18304 *C 4199*	Poroluodonkari.	63° 59.0′ N 23° 09.0′ E	**F.W.**	39 **12**		Hut; 13.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
18308 *C 4194*	Ohtakari.	64° 05.0′ N 23° 25.0′ E	**F.W.**	59 **18**	4	Skeleton structure.	Occasional.
18312 *C 4195*	Ruoppausvayla Range.	64° 04.0′ N 23° 38.0′ E	**F.R.**	13 **4**		White rectangular daymark; 10.	Visible 018°-198°.
18316 *C 4195.1*	-Rear, 108° from front.	64° 04.4′ N 23° 38.4′ E	**F.R.**	22 **7**		White rectangular daymark; 15.	Visible 018°-198°.
18320 *C 4197*	Akolanpera Range, front.	64° 04.0′ N 23° 38.0′ E	**F.R.**	20 **6**	4	White rectangular daymark.	Visible 031°-211°.
18324 *C 4197.1*	-Rear, 123° from front.	0° 00.0′ 0° 00.0′	**F.R.**	30 **9**	4	White rectangular daymark.	Visible 031°-211°.
18328 *C 4198*	Jokivayla Range, front.	64° 04.0′ N 23° 38.0′ E	**F.R.**	10 **3**		White rectangular daymark; 9.	Visible 042°-222°.
18332 *C 4198.1*	-Rear, 133° from front.	64° 04.0′ N 23° 38.5′ E	**F.R.**	20 **6**	1	White rectangular daymark; 16.	Visible 042°-222°.
18334 *C 4196*	Mansikkakari Range, front.	64° 05.4′ N 23° 35.4′ E	**Q.W.**	26 **8**	9	White column, red stripe.	Visible 111°-115°.
18334.1 *C 4196.1*	-Rear, 113° from front.	64° 05.3′ N 23° 35.6′ E	**Fl.W.** period 3s	47 **14**	10	White column, red stripe.	Visible 111°-115°.
18336 *C 4193.2*	Piekko Range, front.	64° 13.0′ N 23° 44.0′ E	**Q.W.**	23 **7**	8	Red rectangular daymark, yellow stripe.	Visible 159°-167°.
18340 *C 4193.21*	-Rear, 163° from front.	64° 13.3′ N 23° 43.9′ E	**L.Fl.W.** period 6s	42 **13**	9	Red rectangular daymark, yellow stripe.	Visible 159°-167°.
18342	-Aijankallio RACON	64° 14.2′ N 23° 36.6′ E	**T(–)** period 90s		10		
18343 *C 4192.5*	Lepanen Range, front.	64° 14.2′ N 23° 38.9′ E	**Q.W.**	40 **12**	8	Red rectangular daymark, yellow stripe.	Visible 112°30′-116°30′.
18343.1 *C 4192.51*	-Rear, 114°30′ from front.	64° 14.0′ N 23° 40.1′ E	**L.Fl.W.** period 8s	85 **26**	8	Red rectangular daymark, yellow stripe.	Visible 112°30′-116°30′.
18345 *C 4193.3*	Rahja Range, front.	64° 14.0′ N 23° 42.0′ E	**Fl.W.** period 2s	69 **21**	5	Metal mast.	Visible 196°-211°.
18346 *C 4193.31*	-Rear, 203°30′ from front.	64° 13.2′ N 23° 42.8′ E	**L.Fl.W.** period 6s	98 **30**	5	Metal mast.	Visible 196°-211°.
18349 *C 4192.7*	Keskuskari Range, front.	64° 14.0′ N 23° 47.0′ E	**Q.Y.**	33 **10**	9	Steel mast, red and yellow rectangular daymark.	Visible 099°30′-107°30′.
18350 *C 4192.71*	- -Rear, 104° from front.	64° 14.1′ N 23° 48.2′ E	**L.Fl.Y.** period 6s	79 **24**	10	Steel mast, red and yellow rectangular daymark.	Visible 099°30′-107°30′.
18356 *C 4192.6*	Vihaspauha Range, front.	64° 16.0′ N 23° 50.0′ E	**Q.W.**	49 **15**	13	Steel mast, red and yellow striped rectangular daymark.	Visible 078°30′-084°30′.
18358	Poima.	64° 14.8′ N 23° 41.1′ E	**Q.W.**	41 **12**	4	N. CARDINAL BY, beacon.	
	RACON		**T(–)**				
18360 *C 4192.61*	- -Rear, 1,111 meters 081°30′ from front.	64° 16.0′ N 23° 51.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	108 **33**	**15**	Steel mast, red and yellow striped rectangular daymark.	Visible 078°30′-084°30′.
18364 *C 4191*	Kalajoki Range, front.	64° 17.0′ N 23° 55.0′ E	**F.W.**	14 **4**	2	Post.	Visible 092°-172°. Occasional.
18368 *C 4191.1*	-Rear, 180 meters 138° from front.	64° 17.1′ N 23° 55.4′ E	**F.W.**	33 **10**	2	Post.	Visible 092°-172°. Occasional.
18372 *C 4192.2*	Maakalla.	64° 19.0′ N 23° 31.0′ E	**F.W.**	43 **13**	4	Wooden structure.	Visible 083°-023°. Occasional.
18376 *C 4193.6*	Pirttikarvo Range, front.	64° 12.7′ N 23° 39.7′ E	**Q.W.**	20 **6**	9	Red and white rectangular daymark.	Visible 153°30′-157°30′.

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			FINLAND-GULF OF BOTHNIA				
18380 *C 4193.61*	-Rear, about 185 meters 155°30′ from front.	64° 12.6′ N 23° 39.8′ E	**Fl.W.** period 3s	33 **10**	10	Red and white rectangular daymark.	Visible 153°30′-157°30′.
18384 *C 4193.7*	Kuusimalla Range, front.	64° 12.4′ N 23° 40.7′ E	**Q.W.**	23 **7**	9	Red and white rectangular daymark.	Visible 143°-147°.
18388 *C 4193.71*	-Rear, about 700 meters 144°30′ from front.	64° 12.1′ N 23° 41.2′ E	**Fl.W.** period 3s	39 **12**	10	Red and white rectangular daymark.	Visible 143°-147°.
18392 *C 4192*	**Ulkokalla.**	64° 19.8′ N 23° 27.0′ E	**Fl.(3)W.** period 20s	55 **17**	7	Black round tower, white band; 39.	
18396 *C 4190*	Iso Klippi.	64° 21.0′ N 23° 57.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	4	Lantern on 4 steel posts; 13.	Occasional.
18398 *C 4189*	Yppari.	64° 25.0′ N 24° 05.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Wooden structure.	Occasional.
18400 *C 4188*	**Nahkiainen.**	64° 36.6′ N 23° 54.0′ 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	92 **28**	**16**	Tower, red top and white base; 79. Helicopter landing platform.	
	RACON		**T(–)** period 90s		13		
18402 *C 4188.4*	Lannennokka Range, front.	64° 34.0′ N 24° 21.9′ E	**Q.W.**	10 **3**	7	Red rectangular daymark, white stripe.	Visible 136°-140°.
18402.1 *C 4188.41*	-Rear, 138° from front.	64° 33.8′ N 24° 21.6′ E	**Fl.W.** period 3s	20 **6**	8	Red rectangular daymark, white stripe.	Visible 136°-140°.
18404 *C 4183*	Raahe.	64° 39.1′ N 24° 13.6′ E	**Fl.(2)W.R.** period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 7.5s	72 **22**	13	White round masonry tower, red band; 79.	W. 087°-110°, R.-087°.
	RACON		**T(–)** period 90s		13		
18408 *C 4184.4*	-Virpipera Range, front.	64° 40.0′ N 24° 25.0′ E	**Q.Y.**	59 **18**	12	Red rectangular daymark, yellow band.	Visible 059°30′-064°30′.
18412 *C 4184.5*	--Rear, 062° from front.	64° 40.2′ N 24° 25.4′ E	**Iso.Y.** period 6s	105 **32**	12	Red rectangular daymark, yellow band.	Visible 059°30′-064°30′.
18420 *C 4184*	Heikinkari Range, front.	64° 39.1′ N 24° 21.2′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	23 **7**	10	White tower, red rectangular daymark, yellow stripe.	Visible 081°-090°.
	RACON		**T(–)**		9		
18424 *C 4184.1*	**-Elko,** rear, 085°30′ from front.	64° 39.2′ N 24° 23.9′ E	**Iso.W.** period 4s	82 **25**	**22**	Latticework mast, red rectangular daymark, yellow stripe.	Visible 081°-090°.
18428 *C 4185*	Haaga Range, front.	64° 40.0′ N 24° 25.0′ E	**F.G.**	30 **9**	8	White rectangular daymark, red stripe.	Visible 076°-084°.
18432 *C 4185.1*	-Rear, 080° from front.	64° 39.9′ N 24° 25.0′ E	**Q.G.**	30 **9**	6	White rectangular daymark, red stripe.	Visible 075°30′-088°30′.
18436 *C 4186*	Rojuniemi Range, front.	64° 39.0′ N 24° 25.0′ E	**Fl.R.** period 3s	79 **24**	14	Red rectangular daymark, yellow stripe.	Visible 120°-131°.
18440 *C 4186.1*	-Rear, 125°30′ from front.	64° 39.3′ N 24° 25.3′ E	**Iso.R.** period 3s	118 **36**	14	Red rectangular daymark, yellow stripe.	Visible 120°-131°.
18444 *C 4172*	Tauvo (Haikaraki).	64° 49.0′ N 24° 33.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	111 **34**	8	Framework tower, black rectangle; 98.	Visible 011°-191°.
18444.5 *C 4173*	-Fishing.	64° 48.3′ N 24° 32.9′ E	**Q.(5)W.** period 6s	16 **5**	3	Mast.	Fishing light.

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			FINLAND-GULF OF BOTHNIA				
18444.7 *C 4174*	Rautakallio.	64° 53.8′ N 24° 45.5′ E	**Q.R.**	20 **6**	6	Red framework tower.	Fishing light.
18445 *C 4170.6*	Varjakka Range, front.	64° 55.2′ N 25° 06.4′ E	**Q.W.**	10 **3**	7	Steel frame, red rectangular daymark, yellow stripe.	Visible 177°-181°. Fishing light.
18445.5 *C 4170.61*	-Rear, 179° from front.	64° 55.1′ N 25° 06.4′ E	**Fl.W.** period 3s	29 **9**	8	Steel frame, red rectangular daymark, yellow stripe.	Visible 177°-181°. Fishing light.
	OULU APPROACH:						
18452 *C 4142.1*	**-Marjaniemi.**	65° 02.4′ N 24° 33.9′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 16.8s	99 **30**	**16**	White round tower; 82.	Visible 022°-225°. Pilot station.
18456 *C 4143*	-Marjaniemi Range, front.	65° 02.4′ N 24° 33.8′ E	**Q.R.**	20 **6**	5	Concrete support, yellow rectangular daymark, red stripe.	Visible 103°-111°. Occasional.
18460 *C 4143.1*	- -Rear, about 64 meters 107°30′ from front.	65° 02.4′ N 24° 33.9′ E	**Q.(5)R.** period 6s	31 **9**	5	Concrete support, yellow rectangular daymark, red stripe.	Visible 103°-111°. Occasional.
18470 *C 4145.4*	-Oulu Portti.	65° 11.1′ N 24° 22.4′ E	**Fl.R.** period 3s	39 **12**	4	PORT (A) R, pile, topmark.	
18472 *C 4145*	-Oulu No. "1".	65° 11.6′ N 24° 30.4′ E	**Fl.W.R.G.** period 5s	72 **22**	11	Black round concrete tower, white band; 79.	G. 041°-057°, W.-149°, R.-190°, G.-288°, W.-290°, R.-041°.
	-RACON		**T(–)** period 90s		13		
18476 *C 4146*	-Oulu No. "2".	65° 10.0′ N 24° 36.0′ E	**Fl.(2)W.R.G.** period 6s fl. 1s, ec. 0.5s fl. 1s, ec. 3.5s	72 **22**	8	White masonry tower, black band; 79.	R. 005°-060°, G.-119°, W.-125°, R.-185°, G.-314°, W.-319°, R.-333°, G.-000° W.-005°.
18478 *C 4146.5*	-Valitamala.	65° 08.8′ N 24° 32.7′ E	**Fl.(4)Y.** period 20s	39 **12**	1	White steel mast, red band.	**Radar reflector.**
18480 *C 4147*	-Oulu No. "3".	65° 09.0′ N 24° 40.0′ E	**Fl.(3)W.R.G.** period 10s	72 **22**	8	White round masonry tower, red band; 79.	G. 036°-135°, W.-136°, R.-216°, G.-296°, W.-298°, R.-036°.
18480.5 *C 4147.1*	-Kotalahti Range, common front.	65° 07.2′ N 24° 47.2′ E	**Q.W.**	38 **12**	5	White steel mast, red rectangular daymark, white stripe.	Visible 233°30′-249°30′ and 107°-123°.
18480.51 *C 4147.11*	- -W. rear, 1.2 miles 241°30′ from common front.	65° 06.6′ N 24° 44.6′ E	**L.Fl.W.** period 6s	83 **25**	5	White steel mast, red rectangular daymark, white stripe.	Visible 237°30′-249°30′.
18480.52 *C 4147.09*	- -E. rear, 1.2 miles 115° from common front.	65° 06.7′ N 24° 49.9′ E	**L.Fl.W.** period 6s	90 **27**	5	White steel mast, red rectangular daymark, white stripe.	Visible 111°-119°.
18481 *C 4147.15*	-Liberta.	65° 08.1′ N 24° 42.5′ E	**Fl.G.** period 3s	39 **12**	4	STARBOARD (A) G, pile, topmark.	
18482 *C 4147.2*	-Oulu No. "4".	65° 08.0′ N 24° 47.0′ E	**Fl.R.** period 3s	46 **14**	4	PORT (A) R, pile, topmark.	
18484 *C 4147.3*	-Oulu No. "5".	65° 08.0′ N 24° 51.0′ E	**Fl.G.** period 3s	39 **12**	4	STARBOARD (A) G, topmark.	
18485 *C 4147.5*	-Hammasmatala.	65° 08.5′ N 24° 53.3′ E	**Fl.G.** period 3s	39 **12**	4	STARBOARD (A) G, pile, topmark.	
18488 *C 4148*	-Hoikka Range, front.	65° 06.0′ N 25° 01.9′ E	**Q.W.**	17 **5**	8	Red rectangular daymark, yellow stripe.	Visible 146°-153°.
18492 *C 4148.1*	- -Rear, 149°30′ from front.	65° 05.7′ N 25° 02.3′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	33 **10**	9	Red rectangular daymark, yellow stripe.	Visible 146°-153°.
18496 *C 4150*	-Luodematala Range, front.	65° 10.1′ N 24° 59.7′ E	**Q.W.**	31 **9**	8	Red tower; 23.	Visible 059°-065°.
	-RACON		**T(–)** period 90s		11		

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	FINLAND-GULF OF BOTHNIA						
18496.1 *C 4150.1*	--Lansiletto, rear, about 2780 meters 062° from front.	65° 10.8′ N 25° 02.9′ E	**L.Fl.W.** period 8s	63 **19**	9	Red square concrete tower; 49.	Visible 059°-065°.
18498 *C 4106*	-Nimeton Range, front.	65° 12.3′ N 25° 02.1′ E	**Q.W.**	33 **10**	6	Mast, red rectangular daymark, yellow stripe.	Visible 165°30′-169°30′.
18499 *C 4106.1*	--Rear, about 1.5 miles 167°30′ from front.	65° 10.8′ N 25° 02.9′ E	**L.Fl.W.** period 8s	116 **35**	8	Metal framework tower, red rectangular daymark, yellow visible stripe.	Visible 165°30′-169°30′. Adjacent to Lansiletto rear.
18504 *C 4152*	-Kattilankalla Range, front.	65° 08.3′ N 24° 59.6′ E	**Q.Y.**	25 **8**	7	Red rectangular daymark, yellow stripe.	Visible 093°30′-097°30′.
18508 *C 4152.1*	--Rear, 2.6 kilometers 095°30′ from front.	65° 07.8′ N 25° 03.2′ E	**L.Fl.Y.** period 8s	70 **21**	9	Red rectangular daymark, yellow stripe.	Visible 093°30′-097°30′.
18520 *C 4153*	-Loyha Range, front.	65° 06.1′ N 25° 08.3′ E	**Q.W.**	47 **14**	7	Red rectangular daymark, yellow stripe.	Visible 108°30′-112°30′.
18524 *C 4153.1*	--Rear, 305 meters 110°30′ from front.	65° 06.0′ N 25° 09.1′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	92 **28**	9	Red rectangular daymark, yellow stripe.	Visible 108°30′-112°30′.
18527 *C 4109*	-Olli Range, front.	65° 07.2′ N 25° 05.9′ E	**Q.Y.**	33 **10**	4	Mast, yellow rectangular daymark, red stripe.	Visible 256°-286°.
18527.1 *C 4109.1*	--Rear, 270°30′ from front.	65° 07.2′ N 25° 04.8′ E	**L.Fl.Y.** period 8s fl. 2s, ec. 6s	63 **19**	6	Mast, yellow rectangular daymark, red stripe.	Visible 256°-286°.
18528 *C 4154*	-Hanhikari Range, front.	65° 07.3′ N 25° 05.1′ E	**Q.G.**	21 **6**	4	Round concrete tower, white rectangular daymark, red stripe.	Visible 321°-325°.
18532 *C 4154.1*	--Rear, 293 meters 323° from front.	65° 07.4′ N 25° 05.2′ E	**Fl.G.** period 3s	46 **14**	5	White rectangular daymark, red stripe.	Visible 321°-325°.
18533 *C 4110.3*	Loyhanmutka.	65° 06.8′ N 25° 06.7′ E	**V.Q.(9)W.** period 10s	39 **12**	3	W. CARDINAL YBY, mast, topmark.	
18533.5 *C 4110*	Ollinmatala.	65° 07.0′ N 25° 07.1′ E	**V.Q.W.**	39 **12**	3	N. CARDINAL BY, pile, topmark.	
18536 *C 4155.5*	-Hiuvet Range, front.	65° 07.9′ N 25° 07.8′ E	**Q.W.**	20 **6**	6	Red rectangular daymark, yellow stripe.	Visible 033°-037°.
18536.1 *C 4155.51*	--Rear, 366 meters 035°30′ from front.	65° 08.1′ N 25° 08.4′ E	**Fl.W.** period 3s	48 **15**	7	Red rectangular daymark, yellow stripe.	Visible 033°-037°.
18538 *C 4107*	-Kajava Range, front.	65° 09.7′ N 25° 09.1′ E	**Q.W.**	33 **10**	6	Mast, red rectangular daymark, yellow stripe.	Visible 142°-146°.
18538.1 *C 4107.1*	--Rear, 144° from front.	65° 09.1′ N 25° 10.1′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	89 **27**	10	Mast, red rectangular daymark, with yellow stripe.	Visible 142°-146°.
18539 *C 4105.5*	Kriisinkivi.	65° 12.7′ N 25° 04.0′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	2	STARBOARD (A) G, beacon, topmark.	
18540 *C 4107.3*	Isomatala.	65° 11.7′ N 25° 05.3′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	4	PORT (A) R, pile, topmark.	
18540.5 *C 4107.4*	-E.	65° 11.8′ N 25° 05.7′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	1	STARBOARD (A) G, beacon, topmark.	
18541 *C 4156*	-Valikivikko Range, front.	65° 07.3′ N 25° 03.7′ E	**Q.W.**	30 **9**	6	Mast, yellow rectangular daymark, red stripe.	Visible 306°-310°.
18541.5 *C 4156.1*	--Rear, 308° from front.	65° 07.8′ N 25° 02.4′ E	**L.Fl.W.** period 8s	85 **26**	7	Mast, yellow rectangular daymark, red stripe.	Visible 306°-310°.
18542 *C 4124*	-Kropsu Range, front.	65° 09.0′ N 25° 11.6′ E	**Q.W.**	22 **7**	5	Red rectangular daymark, yellow stripe.	Visible 190°-194°.
18542.1 *C 4124.1*	--Rear, 192° from front.	65° 09.0′ N 25° 11.5′ E	**Fl.W.** period 3s	42 **13**	6	Red rectangular daymark, yellow stripe.	Visible 190°-194°.

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18544 *C 4108.5*	-Hookana.	65° 07.2′ N 25° 11.3′ E	**Fl.R.** period 3s	39 **12**	2	Metal structure, can topmark.	
18546 *C 4108*	-Hietakari.	65° 06.7′ N 25° 11.5′ E	**Q.W.**	33 **10**	6	Red rectangular daymark, yellow stripe.	Visible 152°-156°.
18546.1 *C 4108.1*	--Rear, 154° from front.	65° 06.1′ N 25° 12.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	82 **25**	7	Metal framework tower, red rectangular daymark, yellow stripe.	Visible 152°-156°.
18547 *C 4156.4*	-Pensaskari Range, front.	65° 03.7′ N 25° 14.9′ E	**Fl.W.** period 2s	33 **10**	6	Red rectangular daymark, yellow stripe.	Visible 125°-131°.
18547.1 *C 4156.41*	--Rear, 128° from front.	65° 03.2′ N 25° 16.2′ E	**L.Fl.W.** period 8s	85 **26**	9	Red rectangular daymark, yellow stripe.	Visible 125°-131°.
18548 *C 4157*	-Rautaletto Range, front.	65° 06.1′ N 25° 09.0′ E	**Q.W.**	43 **13**	7	Red rectangular daymark, yellow stripe.	Visible 319°30′-323°30′.
18552 *C 4157.1*	--Rear, 926 meters 321°30′ from front.	65° 06.5′ N 25° 08.6′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	98 **30**	9	Red rectangular daymark, yellow stripe.	Visible 319°30′-323°30′.
18556 *C 4107.5*	Hoikkahiuvet Range, front.	65° 08.5′ N 25° 07.8′ E	**Q.W.**	16 **5**	5	White rectangular daymark, black stripe.	Visible 205°-209°.
18560 *C 4107.51*	-Rear, 207° from front.	65° 07.8′ N 25° 07.2′ E	**U.Q.(5)W.** period 6s	47 **14**	8	White rectangular daymark, black stripe.	Visible 205°-209°.
18569 *C 4168*	-Johanssoninranta Range, front.	65° 00.9′ N 25° 26.4′ E	**F.R.**	15 **5**	1	Column, white rectangular daymark, red stripe.	
18569.1 *C 4168.1*	--Rear, 007°30′ from front.	65° 00.9′ N 25° 26.4′ E	**F.R.**	33 **10**	1	White rectangular daymark, red stripe, on column.	
18570 *C 4168.5*	-Johteensalmi Range, front.	65° 00.9′ N 25° 26.3′ E	**F.R.**	18 **5**	1	White rectangular daymark, red stripe, on column.	
18570.1 *C 4168.51*	--Rear, 260°30′ from front.	65° 00.9′ N 25° 26.2′ E	**F.R.**	26 **8**	1	White rectangular daymark, red stripe, on column.	
18571 *C 4168.3*	-Korkeasaari Range, front.	65° 01.1′ N 25° 27.2′ E	**F.R.**	16 **5**	1	White rectangular daymark, red stripe, on column.	
18571.1 *C 4168.31*	--Rear, 038° from front.	65° 01.2′ N 25° 27.2′ E	**F.R.**	27 **8**	1	White rectangular daymark, red stripe, on column.	
18571.5 *C 4168.7*	-Pajusaari Range, front.	65° 01.3′ N 25° 26.7′ E	**F.R.**	12 **4**	1	White rectangular daymark, red stripe on column.	
18571.51 *C 4168.71*	--Rear, 323°18′ from front.	65° 01.4′ N 25° 26.6′ E	**F.R.**	20 **6**	1	White rectangular daymark, red stripe on column.	
18573 *C 4166.5*	-Vihreasaari Range, front.	65° 00.4′ N 25° 24.6′ E	**F.R.**	19 **6**	4	White triangular daymark, red stripe.	Visible 352°-172°.
18573.1 *C 4166.51*	--Rear, 283 meters 082° from front.	65° 00.4′ N 25° 24.9′ E	**F.R.**	26 **8**	4	White triangular daymark, red stripe.	Visible 352°-172°.
18576 *C 4158*	Kyronkari Range, front.	65° 01.0′ N 25° 20.0′ E	**Q.W.**	15 **5**	5	Red rectangular daymark, yellow field.	Visible 209°30′-213°30′.
18580 *C 4158.1*	-Rear, 211°30′ from front.	64° 59.9′ N 25° 19.3′ E	**Q.(5)W.** period 6s	31 **9**	6	Red rectangular daymark, yellow field.	Visible 209°30′-213°30′.
	OULU:						
18584 *C 4166*	-Oritkari Range, front.	64° 59.9′ N 25° 24.7′ E	**Dir.Iso.W.R.G.** period 4s	42 **13**	12	Cross structure, white rectangular sign, orange stripe; 33.	G. 120°-124°30′, W.-125°30′, R.-130°.
18588 *C 4166.1*	--Rear, 0.55 mile 125° from front.	64° 59.6′ N 25° 26.0′ E	**Iso.W.** period 6s	138 **42**	12	Cross structure, black rectangular daymark, orange stripe; 130.	Visible 122°30′-127°30′. Aero.F.R. on top of structure.
18597 *C 4170*	-Pajuniemi Range, front.	65° 00.5′ N 25° 11.7′ E	**Q.W.**	16 **5**	11	White rectangular daymark, red stripe.	Visible 097°30′-117°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
18597.1 *C 4170.1*	--Rear, 340 meters 107°30′ from front.	65° 00.5′ N 25° 12.1′ E	**L.Fl.W.** period 6s	41 **12**	11	White rectangular daymark, red stripe.	Visible 097°30′-117°30′.
18598 *C 4170.4*	-Huikku Range, front.	65° 02.2′ N 25° 04.3′ E	**Q.W.**	18 **5**	11	White rectangular daymark, red stripe.	Visible 292°30′-312°30′.
18598.1 *C 4170.41*	--Rear, 160 meters 302° 302°30′ from front.	65° 02.5′ N 25° 03.5′ E	**L.Fl.W.** period 6s	26 **8**	11	White rectangular daymark red stripe.	Visible 292°30′-312°30′.
	OULU APPROACH:						
	-Toppilansalmi:						
18604 *C 4162*	--Toppilansalmi.	65° 02.5′ N 25° 24.8′ E	**F.G.**	13 **4**	2	Mast, green triangular daymark.	4 F.W. lights on piles are shown from Aug. 15 to close of navigation, in channel between Toppilasund and Uleaborg.
18608 *C 4160*	--Toppila Range, front.	65° 02.7′ N 25° 25.2′ E	**Q.R.**	18 **5**	4	Steel framework, concrete base, red rectangular daymark, white stripe.	Visible 079°30′-094°30′.
18612 *C 4160.1*	---Rear, 160 meters 087° from front.	65° 02.7′ N 25° 25.4′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	26 **8**	5	Steel framework, concrete base, red rectangular daymark, white stripe; 10.	Visible 079°30′-094°30′. Synchronized with front.
18616 *C 4161*	-Toppilansalmi Range, front.	65° 02.4′ N 25° 25.8′ E	**Iso.G.** period 2s	41 **12**	4	Steel framework, concrete base, red rectangular daymark, white stripe; 6.	Visible 107°30′-122°30′.
18620 *C 4161.1*	--Rear, 280 meters 115° from front.	65° 02.3′ N 25° 26.1′ E	**Iso.G.** period 4s	69 **21**	5	Steel framework, concrete base, red rectangular daymark, white stripe; 10.	Visible 107°30′-122°30′. Synchronized with front.
18624 *C 4165*	Pateniemi Range, front, about 1,515 meters 122° from Kellonkraaseli.	65° 06.0′ N 25° 23.0′ E	**F.R.**	24 **7**	3	Post.	
18628 *C 4165.1*	-Rear, about 325 meters 120°30′ from front.	65° 05.6′ N 25° 23.2′ E	**F.R.**	46 **14**	3	Post.	
18630 *C 4165.4*	Kraaselin Kaivanto Range	65° 06.1′ N 25° 21.0′ E	**Q.W.**	21 **6**	5	White rectangular daymark red field.	Visible 110°-114°.
18630.1 *C 4165.41*	-Rear, 112° from front.	65° 06.1′ N 25° 21.5′ E	**Fl.W.** period 3s	43 **13**	6	White rectangular daymark, red field.	Visible 110°114°.
18636 *C 4164*	Rapankari Range, front.	65° 06.1′ N 25° 21.4′ E	**Q.W.**	19 **6**	6	White rectangular daymark, black stripe.	Visible 352°-356°.
18640 *C 4164.1*	-Rear, Kalimenoja, 800 meters 354° from front.	65° 06.5′ N 25° 21.6′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	36 **11**	7	White rectangular daymark, black stripe.	Visible 352°-356°.
18650 *C 4165.2*	Taskisenranta Range, front.	65° 05.8′ N 25° 23.0′ E	**F.R.**	20 **6**	1	Mast, yellow rectangular daymark, red stripe.	Visible 051°-071°. Shown on request.
18650.1 *C 4165.21*	-Rear, 061° from front.	65° 05.9′ N 25° 23.1′ E	**F.R.**	33 **10**	1	Steel mast, yellow rectangular daymark, red stripe.	Visible 051°-071°. Shown on request.
18652 *C 4130*	Vehkapera Range, front.	65° 07.0′ N 25° 18.0′ E	**Q.W.**	33 **10**	9	Red rectangular daymark, yellow stripe.	Visible 087°30′-092°30′.
18656 *C 4130.1*	-Rear, 740 meters 089°30′ from front.	65° 07.2′ N 25° 19.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	59 **18**	10	Red rectangular daymark, yellow stripe.	Visible 087°30′-092°30′.
18660 *C 4126*	Virpiniemi Range, front.	65° 07.9′ N 25° 13.7′ E	**Q.W.**	27 **8**	10	Red rectangular daymark, yellow stripe.	Visible 147°-151°.
18664 *C 4126.1*	-Rear, 740 meters 149°30′ from front.	65° 07.6′ N 25° 14.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	36 **11**	10	Red rectangular daymark, yellow stripe.	Visible 147°-151°.
18668 *C 4128*	Isoniemi Range, front.	65° 08.9′ N 25° 13.9′ E	**Q.W.**	23 **7**	8	Yellow rectangular daymark, red stripe.	Visible 011°30′-024°30′.

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			FINLAND-GULF OF BOTHNIA				
18672 *C 4128.1*	-Rear, 550 meters 018° from front.	65° 09.2′ N 25° 14.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	39 **12**	9	Yellow rectangular daymark, red stripe.	Visible 011°30′-024°30′.
18680 *C 4122*	Rivinletto.	65° 12.0′ N 25° 15.0′ E	**Fl.W.** period 3s	26 **8**	7	Black and white concrete tower; 26.	Visible 016°-284°. Fishing light. In line 123° with beacon.
18684 *C 4123*	Rivinnokka Range, front.	65° 11.8′ N 25° 15.7′ E	**Q.W.**	52 **16**	8	Red and yellow daymark.	Visible 104°30′-109°30′.
18684.1 *C 4123.1*	-Rear, 230 meters 107° from front.	65° 11.8′ N 25° 16.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	89 **27**	9	Red rectangular daymark, yellow stripe.	Visible 104°30′-109°30′.
18686 *C 4120*	Halkorsnta Range, front.	65° 11.6′ N 25° 18.0′ E	**F.Y.**	13 **4**	6	Red rectangular daymark, yellow stripe.	Visible 133°-137°.
18686.1 *C 4120.1*	-Rear, 135° from front.	65° 11.6′ N 25° 18.1′ E	**F.Y.**	27 **8**	6	Red rectangular daymark, yellow stripe.	Visible 133°-137°.
18692 *C 4121*	Haukipudas Range, front.	65° 12.8′ N 25° 17.1′ E	**Q.W.**	20 **6**	6	Mast, red rectangular daymark, white stripe.	Visible 066°30′-070°30′.
18696 *C 4121.1*	-Rear, 068°30′ from front.	65° 12.8′ N 25° 17.6′ E	**L.Fl.W.** period 8s	52 **16**	6	Mast, red rectangular daymark, white stripe.	Visible 066°30′-070°30′.
18705 *C 4118*	Kriisi.	65° 14.5′ N 25° 11.5′ E	**Fl.(2)W.** period 6s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4s	43 **13**	4	Red and white structure.	Visible 313°-175°. Fishing light.
18706 *C 4119*	-E. Range, front.	65° 14.8′ N 25° 12.8′ E	**Q.W.**	13 **4**	6	White rectangular daymark, red stripe.	Visible 222°-226°.
18706.1 *C 4119.1*	-Rear, 224° from front.	65° 14.7′ N 25° 12.6′ E	**Fl.W.** period 3s	33 **10**	7	White rectangular daymark, red stripe.	Visible 222°-226°.
18708 *C 4116*	Satakari Range, front.	65° 16.0′ N 25° 14.0′ E	**Q.W.**	13 **4**	11	Red rectangular daymark, yellow stripe.	Visible 359°30′-004°30′
18708.1 *C 4116.1*	-Rear, 002° from front.	65° 16.6′ N 25° 13.6′ E	**Fl.W.** period 3s	46 **14**	11	Red rectangular daymark, yellow stripe.	Visible 359°30′-004°30′.
18712 *C 4115*	Pitkaniemi, front.	65° 16.0′ N 25° 16.0′ E	**Q.W.**	19 **6**	6	White rectangular daymark, red stripe.	Visible 167°30′-171°30′.
18716 *C 4115.1*	-Rear, 110 meters 169° 30′ from front.	65° 16.4′ N 25° 16.4′ E	**Fl.W.** period 3s	42 **13**	7	White rectangular daymark, red stripe.	Visible 167°30′-171°30′.
18720 *C 4114.5*	Sekaletto Range, front.	65° 17.4′ N 25° 16.4′ E	**Q.Y.**	27 **8**	4	White rectangular daymark, red stripe.	Visible 147°30′-150°30′.
18724 *C 4114.51*	-Rear, 91 meters 149° from front.	65° 17.3′ N 25° 16.7′ E	**V.Q.(5)Y.** period 6s	51 **16**	4	White rectangular daymark, red stripe.	Visible 147°30′-150°30′.
18732 *C 4114.2*	-Range, front.	65° 18.3′ N 25° 14.5′ E	**Q.G.**	16 **5**	1	Red rectangular daymark, yellow stripe.	Visible 161°-191°.
18736 *C 4114.21*	- -Rear, 176° from front.	65° 18.3′ N 25° 14.5′ E	**Fl.G.** period 3s	30 **9**	2	Red rectangular daymark, yellow stripe.	Visible 161°-191°.
18740 *C 4113*	Tangonsaari, front.	65° 19.0′ N 25° 16.0′ E	**Q.W.**	22 **7**	7	White rectangular daymark, red stripe.	Visible 004°-008°.
18744 *C 4113.1*	-Rear, 550 meters 006° from front.	65° 19.0′ N 25° 16.1′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	49 **15**	8	White rectangular daymark, red stripe.	Visible 004°-008°.
18747 *C 4112.8*	Tupakkipera Range, front.	65° 19.0′ N 25° 15.0′ E	**Q.W.**	16 **5**	7	White rectangular daymark, red stripe.	Visible 145°-149°.
18748 *C 4112.81*	-Rear, 550 meters 147° from front.	65° 19.0′ N 25° 15.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	30 **9**	8	White rectangular daymark, red stripe.	Visible 145°-149°.
18752 *C 4112.6*	Rontii W. Range, front.	65° 21.0′ N 25° 15.0′ E	**Q.W.**	13 **4**	12	White rectangular daymark, black stripe.	Visible 147°30′-152°30′.

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			FINLAND-GULF OF BOTHNIA				
18756 *C 4112.61*	-Rear, 150° from front.	65° 20.3′ N 25° 15.3′ E	**Fl.W.** period 3s	39 **12**	12	White rectangular daymark, black stripe.	Visible 147°30′-152°30′.
18760 *C 4112.4*	Kayranletto Range, front.	65° 22.0′ N 25° 15.0′ E	**V.Q.(5)W.** period 6s	13 **4**	11	White rectangular daymark, red stripe.	Visible 056°-060°.
18760.1 *C 4112.41*	-Hiuvet, Rear, 058° from front.	65° 22.2′ N 25° 17.4′ E	**Fl.W.** period 3s	46 **14**	12	White rectangular daymark, red stripe.	Visible 056°-060°.
18764 *C 4112.3*	Rontti Range, front.	65° 22.0′ N 25° 14.0′ E	**Q.W.**	28 **9**	11	Yellow rectangular daymark, red stripe on mast.	Visible 168°30′-173°30′.
18768 *C 4112.31*	-Rear, N. beach on Rontti, 2.3 miles 171° from front.	65° 20.7′ N 25° 15.0′ E	**L.Fl.W.** period 6s	98 **30**	13	Yellow rectangular daymark, red stripe on mast.	Visible 169°-173°.
18772 *C 4082*	Kemi "1".	65° 23.1′ N 24° 06.0′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	82 **25**	10	Concrete tower, red and black bands; 75. Helicopter platform.	**Radar reflector.**
	RACON		**T(–)** period 90s		13		
18776 *C 4101*	Ulkokrunni Range, front.	65° 24.0′ N 24° 49.0′ E	**Q.W.**	33 **10**	8	Red rectangular daymark, yellow stripe.	Visible 143°-149°.
18780 *C 4101.1*	--Rear, 146° from front.	65° 23.4′ N 24° 50.5′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	89 **27**	9	Red truncated pyramid, white rectangular daymark.	Visible 143°-149°.
18784 *C 4102*	Maakrunni Range, front.	65° 24.0′ N 25° 00.0′ E	**Q.W.**	33 **10**	7	Red rectangular daymark, yellow stripe.	Visible 109°30′-113°30′.
18788 *C 4102.1*	--Rear, 111°30′ from front.	65° 24.2′ N 25° 01.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	100 **30**	13	Red rectangular daymark, yellow stripe.	Visible 109°30′-113°30′.
18788.5 *C 4102.5*	Pohjanletto.	65° 25.4′ N 24° 51.5′ E	**V.Q.(3)W.** period 5s	39 **12**	3	E. CARDINAL BYB, beacon, topmark.	
18789 *C 4103*	Pohjanletto Range, front.	65° 24.0′ N 24° 52.1′ E	**Q.W.**	33 **10**	6	Mast, red rectangular daymark, yellow stripe.	Visible 331°-335°.
18789.1 *C 4103.1*	-Rear, 333° from front.	65° 25.0′ N 24° 50.9′ E	**L.Fl.W.** period 8s	102 **31**	9	Mast, red rectangular daymark, yellow stripe.	Visible 331°-335°.
18790 *C 4104*	Tyni Range, front.	65° 21.5′ N 24° 53.8′ E	**Q.W.**	33 **10**	6	Mast, red rectangular daymark, yellow stripe.	Visible 170°30′-174°30′.
18790.1 *C 4104.1*	-Rear, 172°30′ from front.	65° 20.9′ N 24° 54.0′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	72 **22**	7	Mast, red rectangular daymark, yellow stripe.	Visible 170°30′-174°30′.
18791 *C 4105*	Kraasukka Range, front.	65° 19.4′ N 24° 58.2′ E	**Q.W.**	33 **10**	6	Mast, red rectangular daymark, yellow stripe.	Visible 345°30′-349°30′.
18791.1 *C 4105.1*	-Rear, 347°30′ from front.	65° 20.9′ N 24° 57.8′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	92 **28**	6	Metal framework tower, red rectangular daymark, yellow stripe.	Visible 345°30′-349°30′.
18792 *C 4100*	Harkaletto.	65° 30.0′ N 24° 51.0′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	48 **15**	W. 9	Black triangular concrete tower, white lantern; 36.	G. 329°-348°, W.-353°, R.-004°, G.-018°, W.-027°, R.-077°, G.-094°30′, W.-097°30′, R.-122°30′, G.-146°, obsc.-206°, G.-235°, W.-243°, R.-272°, obsc.-329°.
18796 *C 4082.5*	Kemi "2".	65° 30.3′ N 24° 22.5′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 3.9s	53 **16**	7	White steel mast, red top.	**Radar reflector.**
18800 *C 4112*	Liippa Range, front.	65° 32.0′ N 25° 02.0′ E	**Q.W.**	14 **4**	6	Red rectangular daymark, yellow stripe.	Visible 291°30′-295°30′.
18804 *C 4112.1*	-Rear, 113 meters 293°30′ from front.	65° 32.1′ N 25° 02.0′ E	**Fl.W.** period 3s	36 **11**	6	Red rectangular daymark, yellow stripe.	Visible 291°30′-295°30′.
18808 *C 4099.4*	Tiuranen Range, front.	65° 36.0′ N 24° 57.0′ E	**Q.W.**	30 **9**	6	White rectangular daymark structure, red stripe.	Visible 092°-096°.

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			FINLAND-GULF OF BOTHNIA				
18812 *C 4099.5*	-Rear, Korkeakari W. Beach, about 1200 meters 094° from front.	65° 35.9′ N 24° 59.0′ E	**V.Q.(5)W.** period 6s	54 **16**	6	White rectangular daymark structure, red stripe.	Visible 092°-096°.
18816 *C 4099*	Mantaja Range, front.	65° 37.3′ N 24° 52.8′ E	**Q.W.**	28 **9**	7	White rectangular daymark, red stripe.	Visible 320°-324°.
18820 *C 4099.1*	-Rear, about 1850 meters 322° from front.	65° 38.0′ N 24° 51.4′ E	**V.Q.(5)W.** period 6s	54 **16**	7	White rectangular daymark, red stripe.	Visible 320°-324°.
18824 *C 4098.5*	Ykskivi.	65° 36.1′ N 24° 42.3′ E	**Fl.W.R.G.** period 4s fl. 0.5s, ec. 3.5s	30 **9**	6	Red and white tower; 15.	G. 106°-117°30′, W.-123°, R.-137°.
18828 *C 4083*	Keminkraaseli.	65° 36.6′ N 24° 33.8′ E	**Fl.(3)W.R.G.** period 12s fl. 0.4s, ec. 1.1s fl. 0.4s, ec. 1.1s fl. 0.4s, ec. 8.6s	82 **25**	7	White round concrete tower, upper part black; 78. Helicopter platform.	G. 246°-264°, W.-268°, R.-279°30′, obsc.-334°, G.-339°, W.-344°, R.-022°, G.-036°, W.-041°, R.-076°, G.-135°30′, W.-141°, R.-153°30′, obsc.-246°. **Radar reflector.**
	RACON		**T(–)** period 90s		13		
18830	Pohjantahti Beacon, RACON.	65° 37.6′ N 24° 22.4′ E	**T(–)** period 90s		11		**Radar reflector.**
18832 *C 4083.7*	Valikivikko.	65° 30.3′ N 24° 37.5′ E	**U.Q.(5)W.** period 6s	49 **15**	7	Black and white steel pole; 55.	**Radar reflector.**
18836 *C 4095*	Ajoskrunni Range, front.	65° 37.7′ N 24° 35.7′ E	**Q.W.**	39 **12**	6	Red rectangular daymark, yellow stripe.	Visible 052°-056°.
18840 *C 4095.1*	-Rear, about 275 meters 054° from front.	65° 37.8′ N 24° 35.7′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	79 **24**	6	Red rectangular daymark, yellow stripe.	Visible 052°-056°.
18844 *C 4096.3*	Ruumiskari Range, front.	65° 39.1′ N 24° 39.7′ E	**Q.Y.**	23 **7**	6	Red rectangular daymark, yellow stripe.	Visible 047°-051°.
18848 *C 4096.31*	-Rear, 049° from front.	65° 39.2′ N 24° 39.6′ E	**L.Fl.Y.** period 8s fl. 2s, ec. 6s	43 **13**	6	Red rectangular daymark, yellow stripe.	Visible 047°-051°.
18852 *C 4096.34*	Satamaranta Range, front.	65° 40.0′ N 24° 39.0′ E	**Q.W.**	18 **5**	8	Red rectangular daymark, yellow stripe.	Visible 128°-132°.
18856 *C 4096.35*	-Rear, 130° from front.	65° 40.1′ N 24° 39.6′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	29 **9**	9	Red rectangular daymark, yellow stripe.	Visible 128°-132°.
18860 *C 4097*	Pihlajakarilla Range, front.	65° 39.9′ N 24° 36.3′ E	**Iso.W.** period 2s	23 **7**	10	Red rectangular daymark, yellow stripe.	Visible 018°-029°.
18864 *C 4097.1*	-Rear, 023°30′ from front.	65° 40.3′ N 24° 36.5′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	49 **15**	13	Red rectangular daymark, yellow stripe.	Visible 018°-029°.
18868 *C 4096.4*	Rytikaripenger Range, front.	65° 40.8′ N 24° 38.4′ E	**Q.R.**	36 **11**	10	Red rectangular daymark, white stripe.	Visible 354°-359°.
18872 *C 4096.41*	-Rear, 356°30′ from front.	65° 41.1′ N 24° 38.1′ E	**Iso.R.** period 6s	65 **20**	10	Red rectangular daymark, white stripe.	Visible 354°-359°.
18880 *C 4096.5*	Kannonnokka Range, front.	65° 41.3′ N 24° 36.0′ E	**Q.W.**	59 **18**	7	Red rectangular daymark, yellow stripe.	Visible 307°30′-311°30′.
18884 *C 4096.51*	-Rear, 309°30′ from front.	65° 41.4′ N 24° 35.6′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	85 **26**	9	Red rectangular daymark, yellow stripe.	Visible 307°30′-311°30′.
	KEMI:						
18888 *C 4084.6*	-Ajos Laiturinpaa.	65° 39.8′ N 24° 31.3′ E	**F.G.**	33 **10**	1	Pole.	Visible 300°-180°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
18892 *C 4084*	-Ajos Range, front.	65° 39.8′ N 24° 31.1′ E	**Q.Y.**	72 **22**	12	Red rectangular daymark, yellow stripe.	Visible 010°30′-022°30′. Pilot station.
18896 *C 4084.1*	--Rear, 1130 meters 014°30′ from front.	65° 40.5′ N 24° 31.8′ E	**Iso.Y.** period 6s	121 **37**	12	Metal framework tower, red rectangular daymark, yellow stripe.	Visible 012°-017°.
18898 *C 4096.15*	-Ajos Murhanicmenkallio Range, front.	65° 39.6′ N 24° 35.5′ E	**Q.W.**	16 **5**	6	White rectangular daymark, black stripe.	Visible 331°30′-336°30′.
18898.1 *C 4096.16*	--Rear, about 890 meters 334° from front.	65° 40.0′ N 24° 35.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	6	White rectangular daymark, black stripe.	Visible 331°30′-336°30′.
18900 *C 4083.5*	-Ristinmatala, border marker.	65° 36.1′ N 24° 28.2′ E	**V.Q.(3)W.** period 5s	39 **12**	6	E. CARDINAL BYB, tower, topmark.	
18908 *C 4085.4*	-Lehtikari Range, front.	65° 41.5′ N 24° 30.3′ E	**Q.W.**	14 **4**	5	Red rectangular daymark, yellow stripe.	Visible 343°-003°.
18912 *C 4085.41*	--Rear, 180 meters 353° from front.	65° 41.6′ N 24° 30.1′ E	**Iso.W.** period 4s	25 **8**	6	Red rectangular daymark, yellow stripe.	Visible 343°-003°.
18916 *C 4085.7*	-Tuomilahti Range, front.	65° 40.6′ N 24° 32.0′ E	**Q.W.**	16 **5**	6	White rectangular daymark, red stripe.	Visible 191°30′-195°30′.
18920 *C 4085.71*	--Rear, 193°30′ from front.	65° 40.5′ N 24° 31.7′ E	**Iso.W.** period 6s	30 **9**	7	White rectangular daymark, red stripe.	Visible 191°30′-195°30′.
18924 *C 4085.8*	-Laitakari Range, front.	65° 43.0′ N 24° 34.7′ E	**Q.W.**	17 **5**	6	Red rectangular daymark, yellow stripe.	Visible 036°-041°.
18928 *C 4085.81*	--Rear 038°30′ from front.	65° 43.4′ N 24° 35.1′ E	**Iso.W.** period 6s	41 **12**	7	Red rectangular daymark, yellow stripe.	Visible 036°-041°.
18932 *C 4085.6*	-Munakari Range, front.	65° 41.8′ N 24° 34.0′ E	**Q.W.**	15 **5**	6	White rectangular daymark, red stripe.	Visible 041°30′-046°30′.
18936 *C 4085.61*	--Rear, 044° from front.	65° 42.1′ N 24° 34.3′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	38 **12**	6	White rectangular daymark, red stripe.	Visible 041°30′-046°30′.
18948 *C 4086*	-Mansikkanokka Range, front.	65° 44.0′ N 24° 34.0′ E	**F.R.**	26 **8**	2	Red rectangular daymark, black stripe.	Visible 311°-071°.
18948.1 *C 4086.1*	--Rear, 630 meters 011° from front.	65° 43.9′ N 24° 33.8′ E	**F.R.**	134 **41**	4	Kemi church tower.	Visible 354°-038°.
18952 *C 4090*	-Pajusaari Range, front, S. beach of Kukeli Island.	65° 44.5′ N 24° 32.6′ E	**F.R.**	15 **5**	4	White rectangular daymark, black stripe.	Visible 260°-080°.
18956 *C 4090.1*	--Rear, 337° from front.	65° 44.5′ N 24° 32.5′ E	**F.R.**	30 **9**	4	White rectangular daymark, black stripe.	Visible 260°-080°.
18957 *C 4092*	**-Kemi AVIATION LIGHT.**	65° 44.1′ N 24° 34.5′ E	**Fl.W.** period 2s fl. 0.1s, ec. 1.9s	204 **62**	**21**	Town Hall.	2 F.R. shown on each side of building.
	TORNIO:						
18960 *C 5694*	-Mainua Range, front.	65° 39.6′ N 24° 16.6′ E	**Q.W.**	20 **6**	7	Red rectangular reflective daymark, yellow stripe.	Visible 305°-309°.
18964 *C 5694.1*	--Rear, Mainua Island, SE. side, about 2.2 km. 307°30′ from front.	65° 40.3′ N 24° 14.3′ E	**L.Fl.W.** period 8s	85 **26**	9	Red rectangular reflective daymark, yellow stripe.	Visible 305°-309°.
18965 *C 5700*	-Hamnskar Range, front.	65° 41.3′ N 24° 09.6′ E	**Q.W.**	39 **12**	6	Red rectangular daymark, white stripe.	Visible 314°30′-318°30′. Shown April 1-June 1 and July 20 to close of navigation.
18965.1 *C 5700.1*	--Rear, l.6 miles 316°30′ from front.	65° 42.4′ N 24° 06.7′ E	**L.Fl.W.** period 8s	95 **29**	6	Red rectangular daymark, white stripe.	Visible 314°30′-318°30′. Shown April 1-June 1 and July 20 to close of navigation.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FINLAND-GULF OF BOTHNIA				
	KEMI:						
18968 *C 5701*	-Roytta Range, front, on wharf.	65° 46.0′ N 24° 09.0′ E	**Iso.Y.** period 2s	20 **6**	10	Red rectangular daymark, yellow stripe.	Visible 337°-357°.
18972 *C 5701.1*	- -Rear, 585 meters 347° from front.	65° 46.2′ N 24° 08.8′ E	**Iso.Y.** period 6s	83 **25**	10	Red rectangular daymark, yellow stripe.	Visible 337°-357°.
18976 *C 5701.3*	Koivuluodonletto.	65° 46.0′ N 24° 14.0′ E	**Q.(3)W.** period 5s	21 **6**	3	Mast.	Occasional.

Section 11

Radiobeacons

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			GERMANY				
100	Kiel Light Station	54° 30.0′ N 10° 16.5′ E	**KI** **(–•– ••).**	20		310 A1A.	
110	Friedrichsort Light Station Calibration Radiobeacon	54° 23.5′ N 10° 11.7′ E	**FB** **(••–• –•••).**			312.6, 2168 A2A.	Transmits on request to Wasser and Schiffahrtsamt, Lubeck through Revierzentrale Travemunde, telephone (04502) 71117, telex 261 419.
130	Travemunde Calibration Radiobeacon	53° 57.8′ N 10° 53.0′ E	**UB** **(••– –•••).**			312.6, 2168 A2A.	Transmits on request to Wasser and Schiffahrtsamt, Lubeck through Revierzentrale Travemunde, telephone (04502) 84750, fax (04502) 8475527, telex 261 419.
140	Warnemunde Calibration Radiobeacon	54° 10.6′ N 12° 05.9′ E	**LHD** **(•–•• •••• –••).**			312, 2200 A1A, A2A.	Transmits on request to Warnemunde Pilot Station on VHF channel 12 or telephone (50-01) 539 1407. Iso.W. light shown from pilot station.
150	Sassnitz Calibration Radiobeacon	54° 30.7′ N 13° 38.7′ E	**SAZ** **(••• •– ––••).**			312, 2200 A1A, A2A.	Transmits on request to Sassnitz Harbor Master on VHF channel 14. 24 hour notice required.
			POLAND				
200	Swinoujscie	53° 55.0′ N 14° 17.2′ E	**S** **(•••).**	50		296.5 A1A.	
201	Swinoujscie Calibration Radiobeacon		**S** **(•••).**			296.5 A1A.	Transmits on request to Swinoujscie main light on VHF channels 12 and 16.
210	Darlowo Calibration Radiobeacon	54° 26.5′ N 16° 22.9′ E	**D** **(–••).**			309 A1A, A2A.	Transmits on request to Darlowo light on VHF channel 16.
			RUSSIA				
260	Baltiysk	54° 38.0′ N 19° 55.0′ E	**BK** **(–••• –).**	80	VI	299 A1A.	
			LATVIA				
290	Klaipeda Light Station, Lithuania	55° 43.7′ N 21° 06.0′ E	**KA** **(–•– •–).** period 360s tr (interupted by a long dash) 60s si 300s	120	IV	312.5 A1A.	
300	Mys Taran (Brusterort) Light Station, Russia	54° 57.7′ N 19° 59.0′ E	**BT** **(–••• –).** period 360s tr (interrupted by a long dash) 60s si 300s	120	V	312.5 A1A.	
311	Ventspils Calibration Radiobeacon		**P** **(•––•).**	20		300.5, 309.5 A1A.	Transmits on request to Port Captain, Ventspils through Ventspils (UNI) on VHF channel 16. Two hours prior notice required.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			LATVIA				
320	Irbenskiy Light Station	57° 45.1´ N 21° 44.1´ E	**YuH** **(• • – – • • • •).** period 360s tr(6) 19.5s, si 1s (—) 25s, si 1s tr(2) 6.5s, si 307s	35		285.5 A1A.	
			RUSSIA				
420	Mys Lounatrivi Light Station	60° 00.7´ N 27° 00.5´ E	**YuG** **(• • – – – – •).**	50		294.5 A1A.	
430	Kaybolovo Light Station	59° 44.5´ N 28° 02.0´ E	**KA** **(– • – • –).** period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	70	I	294.5 A2A.	
			FINLAND				
470	Porkkala Pilot Station	59° 52.1´ N 24° 18.4´ E	**PR** **(• – – • • – •).**	60		284.5 A1A.	
480	Mantyluoto	61° 35.6´ N 21° 27.9´ E	**MYa** **(– – • – • –).**	60		297.5 A1A.	

Section 12

Differential GPS Stations

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
			DENMARK				
10	Hammer Odde	55° 17.9´ N 14° 46.5´ E	T 451	120	289	100	
20	Skagen, W.	57° 45.0´ N 10° 35.8´ E	T 453	100	298.5	100	
			POLAND				
40	Dziwnow.	54° 01.5´ N 14° 43.7´ E	T 481	80	283.5	100	Message Types: 1,3,7,16.
60	Rozewie.	54° 49.8´ N 18° 20.2´ E	T 482	80	301	100	Message Types: 1,3,7,16.
			FINLAND				
160	Mantyluoto.	61° 36.0´ N 21° 28.0´ E	T 401 R 601	135	298	200	Message Types: 3,6,7,9,16.
170	Outokumpu	62° 41.0´ N 29° 01.0´ E	T 403 R 603	38	293.5	200	Message Types: 3,6,7,9,16.
180	Porkkala	59° 58.0´ N 24° 23.0´ E	T 400 R 600	135	285	200	Message Types: 3,6,7,9,16.
190	Puumala	61° 24.0´ N 28° 14.0´ E	T 402 R 602	38	301.5	200	Message Types: 3,6,7,9,16.
200	Turku	60° 26.0´ N 22° 13.0´ E	T 404 R 604	108	304	200	Message Types: 3,6,7,9,16.
			SWEDEN				
210	Bjurokklubb	64° 29.0´ N 21° 34.0´ E	T 461	55	303.5	200	Message Types: 3,6,9,16.
220	Jarnas	63° 29.0´ N 19° 39.0´ E	T 462	55	306.5	200	Message Types: 3,6,9,16.
230	Orskar	60° 32.0´ N 18° 22.0´ E	T 463	40	291.5	200	Message Types: 3,6,9,16.
240	Almagrundet	59° 09.0´ N 19° 08.0´ E	T 464	48	287	200	Message Types: 3,6,9,16.
250	Nynashamn	58° 56.0´ N 17° 57.0´ E	T 468		289.5	200	Message Types: 3,6,9,16.
260	Hoburg	56° 55.0´ N 18° 09.0´ E	T 65	40	302	200	Message Types: 3,6,9,16.
270	Kullen	56° 18.0´ N 12° 27.0´ E	T 466	55	293.5	200	Message Types: 3,6,9,16.
280	Hjortens Udde	58° 38.0´ N 12° 40.0´ E	T 467	40	297	200	Message Types: 3,6,9,16.

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C0100.9	1840
C0101	1836
C0101.1	1841
C0102	1844
C0102.1	1848
C0106	1860
C0106.1	1864
C0110	1868
C0110.1	1872
C0121.6	1884
C0121.7	1888
C0124	1904
C0125	1908
C0126	1912
C0126.1	1916
C0127	1920
C0127.1	1924
C0128	1928
C0128.1	1932
C0164	1976
C0166	1980
C0168	1984
C0170	1992
C0172	1988
C0176	1936
C0178	1940
C0178.1	1944
C0182	1948
C0182.1	1952
C0184	1956
C0184.1	1960
C0186	1964
C0188	1968
C0190	1972
C0195	2000
C0195.2	2004
C0200	2008
C0204	2012
C0209	2020
C0210	2024
C0212	2028
C0214	2032
C0214.4	2034
C0214.6	2034.1
C0216	2035
C0220	2040
C0222	2044
C0226	2052
C0228	2056
C0230	2060
C0231	2064
C0231.1	2068
C0233	2080
C0234	2084
C0237	2076
C0238	2072
C0239.42	2096
C0239.43	2100
C0239.44	2104
C0239.45	2108
C0239.7	2116
C0239.71	2120
C0242	2140
C0242.1	2144
C0243	2204
C0244	2196
C0246	2200
C0248	2180
C0248.1	2184
C0252	2188
C0252.1	2192
C0253	2172
C0254	2176
C0255	2152
C0255.1	2156
C0256	2148
C0257	2168
C0257.5	2164
C0260.5	2132
C0260.6	2136
C0260.7	2138
C0262	2208
C0344	220
C0344.1	224
C0352	240
C0353	242
C0354	244
C0354.1	248
C0360	356
C0360.1	360
C0361	260
C0362	252
C0362.1	256
C0364	308
C0364.1	312
C0366	348
C0368	272
C0369	268
C0370	284
C0370.1	288
C0371	282
C0372	292
C0372.1	296
C0375	276
C0376	316
C0376.2	320
C0376.4	324
C0376.41	328
C0376.42	329
C0376.43	330
C0376.5	332
C0376.51	336
C0378.2	340
C0378.4	372
C0378.6	344
C0379	364
C0380	376
C0381	378
C0381.5	380
C0382	396
C0384	392
C0388	388
C0390	400
C0391	420
C0391.1	424
C0392	404
C0392.5	416
C0392.7	417
C0392.8	418
C0394	432
C0398	436
C0400	440
C0402	444
C0404	448
C0409	452
C0409.1	456
C0409.5	460
C0409.6	464
C0410	468
C0410.1	472
C0410.5	476
C0411	480
C0411.4	484

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C0411.5	488
C0411.7	492
C0411.8	496
C0412.5	500
C0412.7	504
C0413	512
C0413.3	508
C0413.5	516
C0414	840
C0416	852
C0416.1	856
C0417	836
C0417.5	832
C0418	828
C0419	826
C0422	528
C0426	544.1
C0428	540
C0428.1	544
C0430	548
C0434	552
C0434.1	556
C0438	560
C0438.1	564
C0444	568
C0446	572
C0447	576
C0447.1	580
C0448	584
C0450	604
C0452	608
C0456	588
C0458	592
C0460	596
C0462	600
C0463	612
C0464	616
C0468	620
C0468.1	624
C0472	628
C0474	632
C0474.1	636
C0482	648
C0482.1	652
C0485	656
C0485.1	660
C0486	664
C0487	676
C0487.1	676.1
C0488	668
C0489	708
C0489.5	700
C0490	680
C0490.6	684
C0491	688
C0491.1	690
C0491.4	692
C0491.5	696
C0493	712
C0494	720
C0494.8	716
C0496	724
C0498	728
C0499	730
C0500	731
C0501	732
C0502	752
C0502.2	736
C0502.21	740
C0502.4	744
C0502.41	748
C0503	754
C0503.4	760
C0503.6	756
C0504.2	768
C0504.21	772
C0504.3	776
C0504.31	780
C0504.36	784
C0504.37	788
C0504.4	792
C0504.41	796
C0504.6	800
C0504.61	804
C0506	808
C0507	810
C0508	816
C0510	812
C0511	820
C0511.4	819
C0512	824
C0514	860
C0514.1	864
C0517	868
C0520	876
C0521	872
C0523	888
C0524	880
C0525	884
C0525.5	886
C0526	892
C0526.1	896
C0527.4	900
C0527.5	904
C0528	916
C0530	920
C0530.1	924
C0532	928
C0532.1	932
C0536	936
C0536.1	940
C0546	984
C0546.1	988
C0552	960
C0552.1	964
C0556	968
C0556.3	959
C0557	944
C0557.1	948
C0558	972
C0559	974
C0559.1	975
C0560	992
C0561	996
C0562	1012
C0562.6	1000
C0563	1004
C0564	1044
C0564.5	1042
C0565	1020
C0566	1048
C0566.1	1052
C0567	1040
C0569	1024
C0570	1064
C0571	1072
C0571.6	1080
C0572	1084
C0573	1088
C0573.5	942
C0574	943, 1008
C0575	1092
C0577	1068
C0578.8	980
C0580	1100
C0581	1124
C0582	1104
C0583	1124.2
C0583.1	1124.21
C0583.5	1124.5
C0583.51	1124.6
C0583.6	1125
C0583.61	1125.1
C0584	1136
C0584.1	1140
C0589	1144
C0594	1148
C0618	1058
C0619	1056
C0620	1036
C0623	1156
C0624	1152
C0625	1160
C0626	1164
C0628	1176
C0630	1180
C0632	1184
C0634	1196
C0636	1188
C0640	1060
C0642	1192
C0644	1200
C0646	1220
C0646.1	1220.1
C0650	1212
C0652	1208
C0654	1216
C0656	1132
C0658	1168
C0659	1166
C0660	1172
C0664	1240
C0666	1232
C0670	1228
C0671	1296
C0673	1236
C0674	1244
C0676	1248
C0676.1	1252
C0680	1256
C0682	1268
C0682.5	1285
C0682.51	1285.1
C0682.6	1272
C0682.61	1276
C0682.7	1280
C0682.71	1284
C0683	1288
C0683.1	1292
C0683.2	1294
C0683.21	1295
C0683.4	1260
C0683.5	1264
C0684	1300
C0692	1304
C0692.1	1308
C0693	1312
C0693.1	1316
C0698	1328
C0698.1	1332
C0698.4	1320
C0698.5	1324
C0704	1340
C0706	1344
C0708	1348
C0708.1	1352
C0714	1356
C0716	1360
C0722	1368
C0724	1372
C0724.1	1376
C0726	1380
C0726.1	1384
C0728	1396
C0728.1	1400
C0734	1401
C0734.1	1401.1
C0734.2	1403
C0734.21	1403.1
C0735	1404
C0737	1408
C0738	1416
C0739	1428
C0739.1	1432
C0740	1436
C0740.1	1440
C0746	1420
C0746.1	1424
C0752	1444
C0752.1	1448
C0772	2220
C0773.4	2232
C0774	2234
C0774.1	2234.1
C0776.1	2233.1
C0776.3	2248
C0776.4	2244
C0777	2250
C0780.4	2218.1
C0781	2218
C0782	2212
C0782.1	2216
C0786	2252
C0789.5	2294
C0790	2272
C0790.1	2276
C0792	2280
C0793	2282
C0794	2284
C0794.3	2288

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C0795	2289
C0796	2286
C0796.1	2286.1
C0802	2278
C0802.1	2278.1
C0808	2292
C0810	2258
C0812	2271
C0812.5	2271.1
C0813	2269
C0813.2	2270
C0814	2264
C0814.1	2268
C0818	2262
C0819	2260
C0821	2296
C0822	2300
C0824	2304
C0830	2308
C0831	2306
C0833	2316
C0833.5	2320
C0837	2328
C0838	2332
C0839	2336
C0842	2340
C0844	2344
C0848	2352
C0850	2348
C0854	2364
C0856	2368
C0856.1	2372
C0860	2376
C0860.1	2380
C0866	2384
C0866.1	2388
C0870	2392
C0870.1	2396
C0876	2400
C0876.1	2404
C0877	2406
C0880	2408
C0882	2412
C0884	2416
C0885	2420
C0888	2436
C0890	2440
C0890.4	2444
C0892	2432
C0894	2460
C0900	2464
C0900.1	2468
C0904	2448
C0908	2452
C0908.1	2456
C0911	2484
C0912	2480
C0917	2488
C0918	2492
C0919	2496
C0919.4	2512
C0919.41	2516
C0920	2500
C0920.2	2504
C0922	2472
C0923	2524
C0924	2508
C0925	2520
C0928	2528
C0932	2536
C0934	2544
C0936	2540
C0938	2548
C0944	2552
C0948	2560
C0949	2564
C0949.1	2568
C0950	2556
C0956	2572
C0958	2576
C0958.1	2580
C0959	2588
C0960	2584
C0962	2596
C0964	2592
C0967	2604
C0968	2608
C0968.1	2612
C0969	2628
C0970	2620
C0970.4	2624
C0970.6	2632
C0972	2600
C0977	2616
C0988	2636
C0988.4	2648
C0989.4	2644
C0989.6	2640
C0989.8	2736
C0989.81	2740
C0990	2744
C0991	2748
C0992	2752
C0994	2760
C0998	2764
C0998.1	2768
C1004	2776
C1004.1	2780
C1016	2788
C1020	2784
C1021.4	3927
C1021.41	3927.1
C1022	3924
C1030	2652
C1032	2712
C1034	2716
C1035.4	2720
C1035.8	2724
C1037	2728
C1037.1	2732
C1042	2852
C1046	2856
C1048	2656
C1050	2660
C1050.1	2664
C1052	2668
C1052.1	2672
C1055	2676
C1055.1	2680
C1065	2684
C1066	2704
C1067	2696
C1067.1	2700
C1067.4	2688
C1067.5	2692
C1068	2796
C1068.1	2800
C1070	2792
C1074	2804
C1076	2812
C1076.1	2816
C1077	2818
C1078	2808
C1082	2836
C1084	2833
C1084.1	2833.1
C1084.3	2834
C1084.31	2834.1
C1086	2820
C1086.1	2824
C1087	2825
C1087.1	2825.1
C1087.8	2826
C1088	2828
C1088.1	2832
C1098	2864
C1098.1	2868
C1100	2872
C1104	2876
C1113	2900
C1115	2912
C1115.1	2916
C1115.3	2918
C1115.31	2918.1
C1115.4	2893
C1115.5	2880
C1116.4	2888
C1117	2892
C1122	2708
C1126	2920
C1126.1	2924
C1134	2928
C1136	2932
C1136.1	2936
C1137	2940
C1140	2952
C1140.1	2956
C1146	2960
C1146.1	2964
C1166	2944
C1166.1	2948
C1175	2966
C1175.5	2966.1
C1176	2972
C1180	2980
C1180.1	2984
C1186	3000
C1188	3004
C1188.1	3008
C1189	3036
C1189.1	3040
C1190	3044
C1190.1	3048
C1192	3052
C1192.1	3056
C1196	3020
C1196.1	3024
C1197	3012
C1198	3016
C1200	3028
C1200.1	3032
C1202	3060
C1203	3064
C1206	3068
C1210	3072
C1214	3074
C1215	3080
C1216	3084
C1220	3096
C1222	3100
C1226	3104
C1226.1	3108
C1230	3112
C1237	3128
C1238	3124
C1246	3116
C1248	3120
C1276	3136
C1278	3168
C1280	3164
C1281	3172
C1281.1	3176
C1282	3180
C1282.2	3184
C1284	3188
C1286	3192
C1288	3216
C1288.1	3220
C1300	3228
C1312	3236
C1316	3200
C1322	3208
C1324	3212
C1326	3196
C1328	3156
C1329	3148
C1329.1	3152
C1336	3140
C1338	3144
C1342	3244
C1346	3248
C1348	3252
C1348.1	3256
C1348.4	3260
C1348.41	3264
C1350	3272
C1350.1	3276
C1360	3304
C1362	3308
C1370	3296
C1370.1	3300
C1382	3316
C1382.1	3320
C1386	3328
C1386.4	3315
C1387.9	3344
C1388	3348
C1388.1	3352
C1388.6	3356
C1388.7	3360

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C1390	3364
C1390.1	3368
C1392	3372
C1392.1	3376
C1395.6	3392
C1396.4	3396
C1396.5	3400
C1398	3330
C1398.5	3331
C1400	3412
C1404	3428
C1405	3452
C1408.2	3468
C1415	3432
C1415.1	3436
C1436	3512
C1440	3516
C1470	3520
C1476	3524
C1478	2036
C1480	3528
C1483	3532
C1483.1	3536
C1484	3540
C1484.2	3544
C1486	3556
C1487	3560
C1487.3	3564
C1489	3572
C1489.1	3576
C1491	3580
C1495	3589
C1496	3588
C1497	3548
C1497.4	3552
C1498	3592
C1500	3596
C1504	3600
C1507	3616
C1508	3618
C1509	3620
C1509.1	3624
C1509.4	3626
C1510	3628
C1510.1	3632
C1510.4	3633
C1510.41	3633.1
C1511	3640
C1512	3642
C1513	3636
C1520	3680
C1524	3676
C1526	3648
C1530.5	3656
C1530.6	3660
C1531	3664
C1531.1	3668
C1531.4	3652
C1532.2	3688
C1532.5	3682
C1533	3684
C1534	3692
C1534.6	4080
C1534.7	4084
C1534.8	4088
C1535	3696
C1536	3700
C1536.1	3704
C1537	3708
C1538	3712
C1542	3720
C1544	3724
C1544.1	3728
C1545	3740
C1545.4	3732
C1545.5	3736
C1552	3744
C1553	3748
C1556	3752
C1562	3772
C1564	3776
C1564.1	3780
C1566	3804
C1566.1	3808
C1566.3	3812
C1572	3796
C1574	3800
C1577	3828
C1578	3820
C1588	3832
C1590	3836
C1591	3888
C1594	3916
C1594.1	3920
C1594.2	3908
C1594.3	3912
C1594.6	3892
C1594.7	3896
C1595	3900
C1595.1	3904
C1600	3884
C1605.9	3880
C1606	3876
C1606.1	3878
C1612	3848
C1614	3852
C1624	3864
C1624.1	3868
C1628	3856
C1628.1	3860
C1634	3840
C1634.1	3844
C1638	4124
C1640	4120
C1641	4128
C1641.1	4132
C1642	4116
C1643	4108
C1644.42	4044
C1645	4032
C1645.1	4036
C1645.4	4064
C1645.5	4068
C1646	4096
C1646.1	4100
C1647	4072
C1647.1	4076
C1648	4092
C1649.4	4048
C1649.41	4052
C1649.7	4040
C1650	4056
C1650.1	4060
C1656	3968
C1658	3972
C1660	3976
C1661	3980
C1662	3984
C1662.1	3988
C1668	3964
C1671	3936
C1671.65	3948
C1671.7	3940
C1671.71	3944
C1672	3960
C1672.5	3956
C1673	3952
C1673.3	3932
C1673.6	3928
C1674	3992
C1674.1	3996
C1680	4024
C1680.1	4028
C1686	4000
C1686.1	4004
C1690	4008
C1690.1	4012
C1702	4016
C1702.1	4020
C1703	2848
C1704	2840
C1704.1	2844
C1706	4192
C1708	4196
C1708.5	4197
C1710	4208
C1710.1	4212
C1712	4170
C1712.1	4171
C1716.1	4160
C1718	4164
C1718.1	4168
C1718.3	4168.5
C1718.31	4168.51
C1718.9	4176
C1719	4172
C1719.1	4180
C1719.4	4184
C1719.41	4188
C1720.4	4148
C1720.41	4152
C1723	4220
C1723.1	4224
C1726	4140
C1726.1	4144
C1730	4136
C1732	4216
C1734	4240
C1735	4244
C1736	4256
C1736.1	4260
C1740	4236
C1742	4228
C1744	4232
C1748	4264
C1749	4268
C1752	4248
C1752.1	4252
C1760	4272
C1762	4276
C1770	4280
C1770.1	4284
C1788	4288
C1789	4290
C1792	4292
C1796	4316
C1796.1	4320
C1798	4296
C1800	4300
C1800.1	4304
C1802	4324
C1804	4328
C1804.1	4332
C1814	4336
C1814.1	4340
C1815	4344
C1826	4380
C1828	4384
C1832	4388
C1838	4392
C1844	4368
C1845	4372
C1846	4376
C1854	4360
C1854.1	4364
C1856	4348
C1857	4352
C1857.1	4356
C1866	4572
C1867	4584
C1867.4	4588
C1868	4576
C1869	4580
C1872	4592
C1876	4596
C1877	4598
C1878	4600
C1881	4604
C1881.1	4608
C1881.5	4602
C1881.51	4603
C1884	4612
C1890	4632
C1890.1	4636
C1891	4640
C1891.1	4644
C1894	4648
C1894.1	4652
C1898	4624
C1898.1	4628
C1900	4616
C1900.1	4620
C1902	4664
C1903	4656
C1904	4660
C1904.5	4668
C1908	4672
C1912	4676
C1914	4684
C1915	4688

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C1916	4692
C1918	4696
C1920	4700
C1924	4704
C1925	4706
C1926	4708
C1928	5284
C1930	5288
C1932	5280
C1934	5276
C1936	5272
C1936.1	5272.1
C1940	4712
C1942	4716
C1945.4	4720
C1945.6	4724
C1946	4728
C1948	4732
C1950	4736
C1958	4752
C1960	4756
C1962	4932
C1964	4760
C1965	4764
C1966	4768
C1967	4772
C1968	4776
C1968.1	4780
C1970	4796
C1970.1	4800
C1976	4784
C1978	4804
C1980	4816
C1980.1	4820
C1982	4808
C1983	4812
C1986	4832
C1994	4824
C2002	4836
C2003	4840
C2003.1	4844
C2006	4848
C2008	4860
C2010	4880
C2010.1	4884
C2012	4866
C2014	4870
C2014.1	4870.1
C2016	4888
C2024	4912
C2026	4924
C2028	4928
C2030	4916
C2030.1	4920
C2040	4944
C2040.1	4948
C2042	4936
C2044	4964
C2044.2	4968
C2046	4980
C2050	4988
C2053	4992
C2054	4996
C2055	5000
C2055.1	5004
C2056	5008
C2056.01	5012
C2056.4	5016
C2056.6	5020
C2057	5024
C2057.2	5028
C2060	4940
C2065	5030
C2065.4	5030.3
C2065.6	5030.6
C2068	5032
C2068.1	5036
C2069	5031
C2072	4900
C2072.1	4904
C2075	4892
C2077	4896
C2082	5040
C2083	5044
C2086	5048
C2088	5060
C2088.1	5064
C2089	5056
C2089.5	5068
C2094	5080
C2098	4552
C2099	4556
C2100	4560
C2100.2	4564
C2100.4	4568
C2102	4524
C2104	4528
C2104.1	4532
C2112	4536
C2112.1	4540
C2122	4544
C2122.1	4548
C2142	4508
C2144	4512
C2146	4500
C2148	4504
C2152	4468
C2154.9	4487
C2155	4488
C2155.4	4484
C2166	4472
C2166.1	4476
C2178	4480
C2180	4460
C2180.1	4464
C2186	4436
C2188	4424
C2192	4428
C2196	4440
C2196.1	4444
C2202	4448
C2203	4452
C2210	4420
C2216	4396
C2216.1	4400
C2218	4404
C2218.2	4408
C2242	1452
C2246	1456
C2248	1468
C2248.1	1472
C2252	1460
C2252.1	1464
C2254	1476
C2254.1	1480
C2254.4	1484
C2254.5	1488
C2258	1500
C2258.1	1504
C2258.4	1492
C2258.6	1496
C2259	1508
C2259.5	1512
C2260	5084
C2262	5088
C2264	5092
C2265	5096
C2265.1	5100
C2266	5104
C2268	5108
C2269	5112
C2269.1	5116
C2270	5120
C2274	5124
C2276	5128
C2276.8	5130
C2276.81	5130.1
C2277	5132
C2277.1	5136
C2277.6	5140
C2278	5144
C2278.1	5148
C2281	5152
C2281.1	5156
C2282	5168
C2282.1	5172
C2283	5160
C2283.1	5164
C2284	5176
C2284.1	5180
C2288	5184
C2288.1	5186
C2289	5192
C2289.1	5196
C2291	5200
C2292	5204
C2294	5208
C2296	5212
C2305	5214
C2305.1	5214.1
C2305.3	5197
C2305.31	5197.1
C2305.4	5199
C2305.5	5198
C2306	5216
C2306.1	5220
C2307	5224
C2308	5228
C2309	5260
C2310	5256
C2311	5232
C2311.1	5236
C2312	5240
C2313	5248
C2313.1	5252
C2314	5230
C2314.1	5230.1
C2316	5264
C2316.4	5265
C2318	5268
C2320	5290
C2320.1	5290.1
C2324	5292
C2326	5296
C2328	5304
C2328.1	5308
C2331.9	5317
C2332	5312
C2332.1	5316
C2336	5320
C2338	5324
C2338.1	5328
C2340	5332
C2340.1	5336
C2346	5340
C2348	5344
C2349.02	5490.1
C2349.03	5490
C2349.04	5490.2
C2349.31	5482
C2349.32	5482.1
C2349.33	5483
C2349.34	5483.1
C2349.4	5492
C2349.5	5494
C2352.5	5480
C2357	5432
C2357.2	5433
C2358	5376
C2360	5360
C2360.1	5364
C2361	5368
C2361.1	5372
C2364	5380
C2365	5384
C2365.1	5384.1
C2370	5408
C2372	5404
C2374	5396
C2374.1	5400
C2378	5412
C2378.1	5416
C2380	5424
C2382	5428
C2384	5420
C2388	5348
C2388.1	5352
C2394	5440
C2397	5452
C2397.1	5456
C2398	5460
C2398.1	5464
C2403	5504
C2405	5512
C2405.1	5516
C2406	5517
C2406.1	5517.1
C2408	5496
C2410	5520
C2412	5526

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.
C2412.2	5524
C2412.4	5530
C2412.6	5528
C2412.8	5536
C2413	5532
C2414	5540
C2414.3	5544
C2414.31	5548
C2414.4	5552
C2416	5556
C2417	5560
C2420	5568
C2424	5572
C2428	5584
C2428.1	5588
C2430	5576
C2431	5580
C2436	5599
C2436.1	5599.1
C2439	5606
C2440	5608
C2440.1	5612
C2445	5604
C2448	5616
C2448.1	5620
C2450	5624
C2450.1	5628
C2450.4	5636
C2450.5	5632
C2458	5644
C2460	5648
C2483	5716.5
C2483.1	5716.51
C2484	5706
C2484.2	5707
C2486	5700
C2488	5704
C2489	5705
C2494	5680
C2494.1	5684
C2495	5692
C2496	5693
C2502	5672
C2503	5664
C2503.1	5668
C2504	5656
C2505	5660
C2508	5844
C2512	5836
C2512.1	5840
C2516	5824
C2516.5	5826
C2517	5828
C2517.1	5832
C2518	5816
C2518.1	5820
C2522	5808
C2522.1	5812
C2527	5792
C2527.1	5796
C2530	5768
C2532	5776
C2534	5772
C2538	5780
C2538.1	5784

Inter.	— U.S.
C2540	5760
C2540.1	5764
C2541	5748
C2542	5744
C2546	5752
C2546.1	5756
C2548	5736
C2550	5732
C2555	5720
C2555.5	5724
C2556	5848
C2558	5856
C2562	5860
C2575.9	5872
C2576	5876
C2576.1	5880
C2583	5884
C2583.1	5888
C2585	5892
C2585.1	5896
C2586	5868
C2588	5864
C2592	5900
C2593	5902
C2596	5912
C2602	5916
C2604	5920, 5924
C2604.1	5928
C2614	5938.7
C2615.7	5938.5
C2625	6040
C2625.1	6044
C2625.4	6048
C2625.41	6052
C2626	6020
C2626.1	6024
C2628	6028
C2628.1	6032
C2634	6056
C2638	6064
C2638.1	6068
C2640	6076
C2640.1	6080
C2641	6072
C2643.1	6096
C2644	6084
C2645	6100
C2645.1	6104
C2651.2	6113
C2652.8	6012
C2652.81	6016
C2653.4	5980
C2653.41	5984
C2654	6008
C2655	6000
C2656.6	5944
C2657	5948
C2658	5956
C2658.1	5960
C2658.5	5964
C2659	5968
C2662	5940
C2668	6116
C2670	6124
C2670.1	6128

Inter.	— U.S.
C2672	6120
C2674	6134
C2678	6136
C2678.2	6140
C2678.3	6149
C2678.32	6149.1
C2678.77	6146
C2678.78	6147
C2679.8	6152
C2680	6156
C2680.5	6135
C2681.9	6172
C2682	6164
C2682.1	6168
C2684	6160
C2685	6176
C2687	6180
C2687.1	6184
C2689	6188
C2690	6192
C2690.1	6196
C2693	6200
C2694	6204
C2695	6212
C2700	6216
C2701	6220
C2702	6224
C2703	6228
C2706	6260
C2706.1	6264
C2708	6268
C2714	6236
C2714.1	6240
C2715	6244
C2715.1	6248
C2716	6232
C2717	6252
C2717.1	6256
C2719	6276
C2720	6280
C2721	6288
C2722	6284
C2724	6300
C2724.1	6304
C2724.4	6308
C2724.6	6312
C2724.8	6316
C2725	6320
C2725.4	6324
C2725.5	6328
C2726	6348
C2726.1	6352
C2726.6	6360
C2728	6292
C2728.1	6296
C2730	6332
C2730.1	6336
C2732	6372
C2732.4	6373
C2732.5	6373.1
C2733	6374
C2734	6376
C2734.1	6380
C2735	6382
C2736	6364

Inter.	— U.S.
C2736.1	6368
C2738	6388
C2738.5	6389
C2738.51	6389.1
C2739	6390
C2740	6398
C2741	6384
C2743	6392
C2743.1	6396
C2746.9	6428
C2747	6432
C2747.1	6436
C2749	6438
C2750	6444
C2751	6400
C2752	6404
C2752.6	6416
C2754	6420
C2754.5	6418
C2754.7	6424
C2755	6422
C2758	6440
C2762	6448
C2762.1	6452
C2764	6456
C2764.1	6460
C2767.6	6455
C2770	6455.1
C2772	6455.2
C2772.2	6455.3
C2813	6462
C2874	6480
C2876	6472
C2876.2	6476
C2878	6484
C2886	6488
C2886.1	6492
C2892	6496
C2896	6512
C2896.1	6516
C2897	6508
C2898	6504
C2904	6520
C2905	6524
C2905.25	6536
C2905.27	6540
C2906	6552
C2908	6548
C2910	6556
C2914	6560
C2918	6564
C2920	6568
C2922	6572
C2923	6576
C2926	6580
C2930	6584
C2932	6588
C2933	6596
C2934	6600
C2935	6601
C2939	6608
C2939.1	6612
C2940	6616
C2944	6624
C2944.5	6627

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Inter.	U.S.
C2945	6629
C2954	6632
C2957.5	6634.5
C2957.6	6634
C2960	6636
C2961	6640
C2961.4	6646
C2961.41	6646.1
C2963	6648.5
C2964	6648
C2964.6	6649
C2965	6664
C2968	6672
C2972	6676
C2974	6680
C2983	6652
C2983.1	6656
C2986	6660
C2996	6684
C2996.1	6688
C2999	6700
C3002	6650
C3002.1	6650.1
C3010	6708
C3014	6724
C3015	6728
C3015.2	6729
C3016	6732
C3016.2	6736
C3018	6716
C3018.1	6720
C3018.5	6818
C3019	6828
C3019.2	6832
C3020	6820
C3020.2	6824
C3020.3	6826
C3020.6	6740
C3020.62	6744
C3021	6788
C3022	6768
C3023.4	6760
C3024	6756
C3026	6796
C3026.2	6792
C3028	6800
C3029	6804
C3029.2	6808
C3030.1	6806
C3031	6810
C3046	6844
C3048	6840
C3062	6860
C3062.1	6864
C3064	6868
C3064.1	6872
C3066	6880
C3068	6876
C3072.5	6900
C3074	6908
C3074.1	6912
C3076.3	6928
C3080.8	6968
C3081.01	6950
C3081.02	6952
C3081.03	6952.1
C3081.2	6960
C3081.21	6954
C3081.22	6958
C3081.24	6955
C3081.26	6956
C3081.28	6961
C3081.3	6966
C3081.31	6961.5
C3081.4	6964
C3081.5	6962
C3081.9	6970
C3082	6972
C3090	6996
C3095	7048
C3095.1	7052
C3096	7056
C3100	7060
C3100.1	7064
C3142	7108
C3143	7112
C3251	7036
C3251.1	7040
C3255	7114
C3256	7116
C3258	7123
C3262	7128
C3270	7130
C3277	7132
C3318	11984
C3334	11996
C3345.9	12000
C3346	12004
C3347	12014
C3347.1	12014.1
C3348	12016
C3350	12020
C3359	12040
C3361	12032
C3380	12048
C3382	12044
C3386	12052
C3390	12056
C3396	12060
C3396.2	12064
C3396.21	12068
C3396.4	12088
C3396.5	12092
C3396.6	12096
C3396.7	12097
C3397	12069
C3397.1	12069.1
C3397.5	12072
C3397.7	12112
C3397.8	12080
C3397.81	12084
C3398	12112.5
C3398.3	12100
C3442	12120
C3443	12124
C3443.1	12128
C3443.4	12136
C3443.5	12132
C3448	12140
C3450	12148
C3450.1	12152
C3450.5	12145
C3450.51	12145.1
C3450.52	12145.2
C3451	12156
C3452	12160
C3454	12172
C3455	12168
C3458	12176
C3460	12180
C3461	12181
C3470	12192
C3474	12194
C3476	12196
C3477.3	12204
C3478	12212
C3482	12220
C3486	12216
C3489	12224
C3494	12228
C3495.2	12230
C3496	12232
C3501	12248
C3501.4	12249
C3501.41	12249.1
C3502	12252
C3503	12256
C3526	12272
C3528	12276
C3529	12288
C3530	12280
C3530.1	12284
C3532	12332
C3532.1	12336
C3535	12296
C3536	12286
C3536.4	12292
C3536.5	12294
C3538	12304
C3540	12320
C3540.1	12324
C3543	12326
C3543.4	12326.1
C3543.6	12326.2
C3544	12328
C3545	12360
C3545.4	12358
C3545.41	12358.1
C3546	12356
C3546.2	12353
C3546.3	12354
C3547	12340
C3547.1	12344
C3547.2	12348
C3548	12364
C3548.4	12352
C3548.6	12366
C3549	12368
C3549.3	12367
C3550	12376
C3550.4	12372
C3551	12384
C3552	12388
C3554	12392
C3558	12400
C3580.15	12412
C3580.2	12416
C3580.3	12420
C3583	12428
C3585	12436
C3587	12440
C3587.1	12444
C3590	12448
C3594.5	12452
C3595	12496
C3596	12500
C3598	12504
C3602	12508
C3603	12464
C3605	12492
C3606	12456
C3606.1	12460
C3608	12468
C3608.1	12472
C3611	12484
C3611.5	12488
C3612	12476
C3612.1	12480
C3616	12659
C3616.1	12660
C3626	12656
C3627	12658
C3628	12648
C3630	12636
C3631	12512
C3632	12520
C3632.6	12524
C3634.5	12522
C3636	12516
C3637	12528
C3637.1	12532
C3638	12540
C3638.1	12544
C3639	12548
C3644	12732
C3644.1	12736
C3646	12552
C3646.1	12556
C3650	12608
C3650.1	12612
C3651	12592
C3651.1	12596
C3652	12588
C3652.1	12584, 12588.1
C3653	12571
C3653.1	12572
C3656	12600
C3656.1	12604
C3657	12606
C3675.1	12606.1
C3704	12672
C3704.2	12674
C3704.5	12670
C3704.51	12671
C3705.3	12668
C3706.1	12680
C3714	12684
C3717	12696
C3718	12708
C3720	12700

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Inter.	U.S.
C3720.1	12704
C3744	12716
C3746	12720
C3754	12728
C3758.5	12560
C3758.51	12564
C3759	12614
C3759.1	12614.1
C3759.5	12616
C3759.51	12620
C3760	12748
C3764	12752
C3765	12753
C3765.1	12753.1
C3768	12756
C3769	12758
C3774	12764
C3778	12765
C3778.1	12765.1
C3783	12766
C3783.1	12766.1
C3786	12767
C3786.1	12768
C3790	12772
C3792	12780
C3799	12781
C3799.1	12781.1
C3804	12804
C3804.1	12808
C3805	12793
C3806	12788
C3808	12792
C3810	12796
C3810.1	12800
C3812	12810, 12816
C3815	12828
C3817	12812
C3818	12832
C3818.1	12836
C3822	12869
C3822.2	12870
C3830	12852
C3832	12856
C3834	12860
C3837	12864
C3837.1	12868
C3841	12876
C3841.2	12876.5
C3841.4	12877
C3841.6	12878
C3841.8	12879
C3841.84	12873
C3841.9	12874
C3841.91	12874.1
C3842	12784
C3844	12896
C3846	12880
C3850	12884
C3854	12879.1
C3854.1	12879.2
C3860	12908
C3868	12912
C3872	12920
C3874	12924
C3876	12928
C3877	12935
C3884	12940
C3888	12944
C3890	12948
C3894	12956
C3914	12968
C3918	12972
C3932	13544
C3934	13548
C3938	12960
C3940	12964
C3944	13276
C3946	13272
C3952	13280
C3962	12980
C3964	13284
C3968	13288
C3972	13292
C3976	12984
C3986	12988
C3988	12992
C3988.1	12996
C4004	13004
C4006	13008
C4010	13012
C4012	13016
C4012.1	13020
C4014	13048
C4020	13032
C4020.1	13036
C4030	13024
C4030.1	13028
C4036	13040
C4036.1	13044
C4059	13052
C4059.1	13056
C4062	13072
C4062.1	13074
C4062.2	13076
C4069	13064
C4070	13068
C4074.2	13078
C4082	18772
C4082.5	18796
C4083	18828
C4083.5	18900
C4083.7	18832
C4084	18892
C4084.1	18896
C4084.6	18888
C4085.4	18908
C4085.41	18912
C4085.6	18932
C4085.61	18936
C4085.7	18916
C4085.71	18920
C4085.8	18924
C4085.81	18928
C4086	18948
C4086.1	18948.1
C4090	18952
C4090.1	18956
C4092	18957
C4095	18836
C4095.1	18840
C4096.15	18898
C4096.16	18898.1
C4096.3	18844
C4096.31	18848
C4096.34	18852
C4096.35	18856
C4096.4	18868
C4096.41	18872
C4096.5	18880
C4096.51	18884
C4097	18860
C4097.1	18864
C4098.5	18824
C4099	18816
C4099.1	18820
C4099.4	18808
C4099.5	18812
C4100	18792
C4101	18776
C4101.1	18780
C4102	18784
C4102.1	18788
C4102.5	18788.5
C4103	18789
C4103.1	18789.1
C4104	18790
C4104.1	18790.1
C4105	18791
C4105.1	18791.1
C4105.5	18539
C4106	18498
C4106.1	18499
C4107	18538
C4107.1	18538.1
C4107.3	18540
C4107.4	18540.5
C4107.5	18556
C4107.51	18560
C4108	18546
C4108.1	18546.1
C4108.5	18544
C4109	18527
C4109.1	18527.1
C4110	18533.5
C4110.3	18533
C4112	18800
C4112.1	18804
C4112.3	18764
C4112.31	18768
C4112.4	18760
C4112.41	18760.1
C4112.6	18752
C4112.61	18756
C4112.8	18747
C4112.81	18748
C4113	18740
C4113.1	18744
C4114.2	18732
C4114.21	18736
C4114.5	18720
C4114.51	18724
C4115	18712
C4115.1	18716
C4116	18708
C4116.1	18708.1
C4118	18705
C4119	18706
C4119.1	18706.1
C4120	18686
C4120.1	18686.1
C4121	18692
C4121.1	18696
C4122	18680
C4123	18684
C4123.1	18684.1
C4124	18542
C4124.1	18542.1
C4126	18660
C4126.1	18664
C4128	18668
C4128.1	18672
C4130	18652
C4130.1	18656
C4142.1	18452
C4143	18456
C4143.1	18460
C4145	18472
C4145.4	18470
C4146	18476
C4146.5	18478
C4147	18480
C4147.09	18480.52
C4147.1	18480.5
C4147.11	18480.51
C4147.15	18481
C4147.2	18482
C4147.3	18484
C4147.5	18485
C4148	18488
C4148.1	18492
C4150	18496
C4150.1	18496.1
C4152	18504
C4152.1	18508
C4153	18520
C4153.1	18524
C4154	18528
C4154.1	18532
C4155.5	18536
C4155.51	18536.1
C4156	18541
C4156.1	18541.5
C4156.4	18547
C4156.41	18547.1
C4157	18548
C4157.1	18552
C4158	18576
C4158.1	18580
C4160	18608
C4160.1	18612
C4161	18616
C4161.1	18620
C4162	18604
C4164	18636
C4164.1	18640
C4165	18624
C4165.1	18628
C4165.2	18650
C4165.21	18650.1
C4165.4	18630

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C4165.41	18630.1
C4166	18584
C4166.1	18588
C4166.5	18573
C4166.51	18573.1
C4168	18569
C4168.1	18569.1
C4168.3	18571
C4168.31	18571.1
C4168.5	18570
C4168.51	18570.1
C4168.7	18571.5
C4168.71	18571.51
C4170	18597
C4170.1	18597.1
C4170.4	18598
C4170.41	18598.1
C4170.6	18445
C4170.61	18445.5
C4172	18444
C4173	18444.5
C4174	18444.7
C4183	18404
C4184	18420
C4184.1	18424
C4184.4	18408
C4184.5	18412
C4185	18428
C4185.1	18432
C4186	18436
C4186.1	18440
C4188	18400
C4188.4	18402
C4188.41	18402.1
C4189	18398
C4190	18396
C4191	18364
C4191.1	18368
C4192	18392
C4192.2	18372
C4192.5	18343
C4192.51	18343.1
C4192.6	18356
C4192.61	18360
C4192.7	18349
C4192.71	18350
C4193.2	18336
C4193.21	18340
C4193.3	18345
C4193.31	18346
C4193.6	18376
C4193.61	18380
C4193.7	18384
C4193.71	18388
C4194	18308
C4195	18312
C4195.1	18316
C4196	18334
C4196.1	18334.1
C4197	18320
C4197.1	18324
C4198	18328
C4198.1	18332
C4199	18304
C4200	18224
C4201	18228
C4202	18232
C4202.1	18236
C4202.4	18237
C4202.41	18237.1
C4203	18240
C4203.2	18242
C4203.4	18258
C4203.41	18258.1
C4204	18252
C4204.1	18256
C4205	18244
C4205.1	18248
C4206	18260
C4206.1	18264
C4207	18268
C4207.1	18272
C4208	18276
C4208.1	18280
C4209	18300
C4211	18292
C4211.1	18296
C4211.5	18274
C4211.51	18275
C4212	18200
C4212.1	18204
C4214	18196
C4214.3	18197
C4215	18206
C4215.1	18207
C4216	18208
C4216.1	18212
C4216.4	18216
C4216.5	18220
C4216.7	18192
C4217	18184
C4218	18188
C4219	18176
C4220	18180
C4222	18174
C4224	17824
C4226	18148
C4227	18152
C4227.1	18156
C4228	18160
C4228.1	18164
C4229	18168
C4230	18140
C4230.1	18144
C4231	18136
C4233	18108
C4234.5	18120
C4234.51	18124
C4235	18128
C4235.5	18112
C4235.51	18116
C4236	18080
C4238	17828
C4238.1	17832
C4241	17836
C4241.1	17840
C4242	17844
C4242.1	17848
C4243	17852
C4243.1	17856
C4244	17860
C4244.1	17864
C4245	17868
C4245.1	17872
C4246	17876
C4246.1	17880
C4248	18172
C4250	17912
C4250.5	17913
C4250.51	17913.5
C4251	17916
C4252	17908
C4253	17920
C4253.1	17924
C4253.8	17932
C4254	17937
C4254.1	17937.1
C4256	17948
C4256.1	17952
C4258	17946
C4258.1	17946.1
C4259	17964
C4261	17928
C4262	18076
C4264	17976
C4264.1	17980
C4264.3	17900
C4264.31	17904
C4264.5	17884
C4264.51	17888
C4265	17972
C4268	17984
C4269.3	17892
C4269.31	17896
C4270	18012
C4271	18084
C4271.1	18088
C4271.3	18092
C4271.31	18096
C4271.4	18100
C4271.41	18104
C4272	18020
C4272.5	18016
C4273	18024
C4275	18028
C4275.1	18032
C4275.2	18045
C4275.3	18045.1
C4275.5	18036
C4276	18040
C4276.1	18044
C4280	18052
C4280.1	18056
C4280.3	18048
C4282	18068
C4282.1	18072
C4284	18060
C4284.1	18064
C4291	17968
C4292	17940
C4292.1	17944
C4294	17820
C4298.5	17769
C4298.51	17769.1
C4298.6	17770
C4298.61	17770.1
C4299	17772
C4299.1	17776
C4299.2	17780
C4299.21	17784
C4300	17800
C4302	17804
C4302.02	17808
C4302.4	17812
C4302.6	17816
C4312	17768
C4316	17760
C4318	17708
C4321.5	17720
C4326	17704
C4328	17680
C4328.1	17684
C4328.2	17663
C4328.3	17662
C4330	17648
C4330.1	17652
C4340	17628
C4340.1	17632
C4348	17616
C4350	17608
C4350.1	17610
C4351	17612
C4352	17600
C4352.1	17604
C4356	17544
C4356.1	17548
C4365	17534
C4366	17510
C4366.1	17510.1
C4369	17492
C4374	17452
C4376	17456
C4376.1	17460
C4378	17480
C4382	17462
C4384	17496
C4384.1	17500
C4385	17504
C4385.1	17508
C4388	17464
C4388.1	17468
C4390	17472
C4390.1	17476
C4394	17484
C4394.1	17488
C4398	17448
C4399	17440
C4399.1	17444
C4404	17438
C4404.1	17438.1
C4406	17436
C4417	17268
C4418	17272
C4418.1	17276
C4418.3	17280
C4418.31	17284
C4418.5	17288
C4418.6	17292
C4418.7	17296
C4418.8	17300

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Inter.	U.S.
C4418.9	17304
C4419	17308
C4419.1	17312
C4419.2	17321.5
C4419.21	17321.51
C4419.3	17316
C4419.4	17320
C4419.7	17321
C4419.71	17321.5
C4421	17328
C4421.4	17329
C4421.41	17329.1
C4421.5	17330
C4421.51	17330.1
C4421.6	17324
C4421.7	17344
C4421.8	17346
C4421.81	17346.1
C4422	17348
C4424	17360
C4424.1	17364
C4425	17352
C4425.1	17356
C4430	17368
C4430.1	17372
C4432.3	17392
C4432.31	17396
C4434	17406
C4434.1	17406.1
C4435	17407
C4435.3	17407.5
C4435.31	17407.51
C4436	17408
C4436.1	17412
c4437	17358
c4437.01	17358.1
C4437.1	17336
C4437.11	17332
C4438.1	17340
C4440	17252
C4440.1	17256
C4442	17264
C4444.3	17246
C4444.31	17246.1
C4444.4	17257
C4444.41	17257.1
C4445	17248
C4445.5	17224
C4445.6	17228
C4447	17260
C4447.6	17192
C4447.61	17196
C4450	16968
C4450.4	16952
C4453	16972
C4453.3	16956
C4453.4	16960
C4454	16984
C4454.1	16988
C4457.7	17208
C4457.71	17212
C4460	17216
C4460.1	17220
C4462.6	16948
C4464.4	16814
C4465	16812
C4465.4	16808
C4466	16800
C4468	16796
C4472	16792
C4472.3	10018
C4473.5	16774
C4478	16788
C4479	16770
C4480	16096
C4482	16100
C4485	16106
C4486	16092
C4487	16094
C4490	16760
C4494	16756
C4495.9	16752
C4496	16744
C4496.1	16748
C4506	16668
C4530	16124
C4542	16144
C4546	16158
C4626	16476
C4630	16480
C4725	15804
C4732	15780
C4734	15808
C4734.1	15812
C4736	15800
C4739	15852
C4739.1	15856
C4743.2	15860
C4745.61	15524
C4745.74	15509
C4745.76	15510
C4745.8	15512
C4745.81	15516
C4746	15500
C4746.1	15504
C4746.2	15508
C4746.6	15520
C4746.8	15480
C4852	15476
C4853	15474
C4854	15472
C4855	15470
C4856	15464
C4856.1	15468
C4858	15456
C4858.1	15460
C4860	15452
C4861	15412
C4862	15448
C4863	15484
C4863.1	15488
C4863.5	15492
C4863.51	15496
C4863.9	15418
C4864	15416
C4864.1	15420
C4865	15432
C4865.1	15436
C4865.9	15398
C4866	15396
C4866.1	15400
C4867	15404
C4867.1	15408
C4868	15392
C4868.5	15388
C4869	15384
C4871	15372
C4871.1	15376
C4872	15364
C4872.1	15368
C4873	15348
C4873.1	15352
C4873.5	15332
C4873.51	15336
C4874	15356
C4874.1	15360
C4874.4	15340
C4874.5	15344
C4876	15322
C4876.5	15323
C4878	15324
C4881	15296
C4884	15292
C4885	15300
C4886	15320
C4888	15188
C4888.1	15192
C4892	15196
C4892.1	15200
C4906	15268
C4910	15224
C4912	15212
C4914	15228
C4914.1	15232
C4915	15236
C4915.1	15240
C4915.2	15304
C4915.21	15308
C4915.3	15184
C4915.4	15312
C4915.41	15316
C4915.5	15284
C4915.51	15288
C4915.54	15289
C4915.57	15290
C4915.6	15204
C4915.61	15208
C4915.7	15176
C4915.71	15180
C4915.8	15216
C4915.81	15220
C4916	15148
C4916.1	15148.1
C4918	15152
C4918.4	15172
C4919	15164
C4919.1	15168
C4919.4	15210
C4920.2	15244
C4920.21	15248
C4920.4	15264
C4922	15252
C4924	15256
C4924.1	15260
C4928	15144
C4930	15132
C4930.1	15136
C4931	15140
C4932	15124
C4932.1	15128
C4980	14892
C4991.6	14944
C4991.7	14946
C5121	14660
C5121.1	14664
C5130	14656
C5131.4	14712
C5131.41	14716
C5147	14612
C5147.1	14616
C5153	14608
C5153.5	14600
C5153.51	14604
C5154	14408
C5154.1	14412
C5154.4	14416
C5155.4	14418
C5155.41	14418.1
C5156	14428
C5157	14432
C5157.1	14436
C5158	14419
C5158.1	14420
C5160	14440
C5162	14452
C5162.1	14456
C5165	14552
C5166	14472
C5167	14464
C5167.1	14468
C5168	14460
C5170	14476
C5170.1	14480
C5171	14556
C5171.1	14560
C5172	14488
C5173	14492
C5173.1	14496
C5175.5	14444
C5175.51	14448
C5184	14516
C5185	14518
C5186	14520
C5188	14548
C5188.1	14544
C5190	14528
C5190.1	14532
C5190.4	14540
C5190.5	14536
C5195	14572
C5196	14564
C5196.1	14568
C5200	14584
C5202	14588
C5202.1	14592
C5203	14406
C5203.1	14406.1
C5203.4	14407
C5203.41	14407.1
C5206	14596

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C5206.5	14598
C5208	14404
C5210	14400
C5212	14396
C5214	14388
C5216	14380
C5216.1	14384
C5216.4	14368
C5216.41	14372
C5217	14360
C5217.1	14364
C5220	14344
C5220.1	14348
C5222	14336
C5222.1	14340
C5223	14328
C5223.1	14332
C5224	14320
C5224.15	14324
C5226.2	14316
C5227	14224
C5227.1	14228
C5235	14144
C5239	14084
C5239.4	14088
C5239.41	14092
C5240	14112
C5240.1	14116
C5240.4	14096
C5268	14072
C5284	13940
C5284.1	13944
C5318	13936
C5320	13932
C5321	13824
C5324	13816
C5324.1	13820
C5328	13828
C5349	13780
C5356	13692
C5356.1	13696
C5366	13720
C5368	13688
C5369	13700
C5370	13704
C5370.1	13708
C5374	13556
C5378	13552
C5380	13560
C5380.5	13561
C5380.6	13562
C5381	13563
C5382	13569
C5382.1	13569.1
C5382.5	13570
C5383	13571
C5383.1	13571.1
C5383.3	13571.3
C5385	13566
C5386	13564
C5387	13568
C5388	13584
C5390	13580
C5390.4	13658
C5390.41	13658.1
C5392	13588
C5392.1	13592
C5392.6	13644
C5392.61	13648
C5392.7	13652
C5392.71	13656
C5393	13672
C5393.1	13676
C5393.4	13660
C5393.41	13660.1
C5394	13604
C5394.2	13608
C5394.21	13612
C5394.4	13596
C5394.41	13600
C5396	13420
C5396.1	13424
C5396.8	13414.3
C5396.81	13414.31
C5396.9	13632
C5396.91	13636
C5397	13624
C5397.1	13628
C5403	13538
C5403.1	13538.5
C5405.6	13638
C5405.61	13638.1
C5406	13540
C5408	13542
C5410	13412
C5411	13409
C5412	13404
C5413	13408
C5414	13413
C5414.1	13413.5
C5414.3	13414
C5414.4	13425.7
C5414.41	13425.71
C5415	13416
C5415.4	13426
C5416	13433
C5416.1	13433.5
C5416.4	13425
C5416.41	13425.5
C5417	13434
C5417.1	13434.5
C5417.4	13438
C5417.41	13438.5
C5418	13432
C5418.4	13427
C5418.41	13427.5
C5419	13460
C5419.1	13464
C5419.2	13436
C5419.21	13437
C5419.3	13444
C5419.31	13448
C5419.4	13452
C5419.41	13456
C5420	13468
C5420.1	13472
C5420.4	13428
C5420.8	13476
C5420.81	13480
C5421	13496
C5422	13466
C5424	13508
C5424.1	13512
C5425	13500
C5425.1	13504
C5428	13492
C5430	13516
C5430.1	13520
C5432	13524
C5432.1	13528
C5434	13532
C5434.1	13536
C5435	13514
C5435.1	13514.1
C5438	13400
C5438.4	13399.4
C5438.41	13399.8
C5438.5	13401
C5438.51	13401.5
C5438.58	13402
C5438.6	13389
C5438.61	13390
C5438.7	13398.2
C5438.71	13398.4
C5438.8	13394
C5438.81	13396
C5438.9	13465
C5438.91	13465.5
C5440	13392
C5440.1	13393
C5441.3	13388
C5456	13352
C5464	13348
C5465	13340
C5465.1	13344
C5465.9	13332
C5466	13336
C5466.1	13324
C5466.11	13324.1
C5468	13320
C5470	13316
C5472	13308
C5472.1	13312
C5474	13304
C5476	13300
C5482	13296
C5485	13301
C5485.1	13302
C5488	13264
C5490	13260
C5490.1	13261
C5491	13262
C5491.1	13263
C5492	13256
C5496	13268
C5500	13104
C5500.1	13108
C5505	13258
C5506	13112
C5508	13116
C5511	13117
C5511.1	13118
C5514	13120
C5514.1	13124
C5518	13132
C5518.1	13136
C5520	13140
C5520.1	13144
C5521	13148
C5522	13168
C5522.1	13172
C5524	13152
C5524.1	13156
C5528	13176
C5530	13160
C5530.1	13164
C5534	13188
C5534.1	13192
C5534.9	13222
C5536	13196
C5536.1	13200
C5539	13184
C5539.4	13180
C5541.9	13212
C5542	13208
C5542.1	13216
C5544	13220
C5544.1	13224
C5546	13228
C5546.1	13232
C5548	13236
C5552.4	13248
C5552.41	13252
C5552.9	13254.2
C5553	13254
C5553.1	13254.1
C5562	13100
C5567	13092
C5568	13088
C5569	13085
C5569.1	13086
C5582	13084
C5584	13080
C5586	13081
C5694	18960
C5694.1	18964
C5698	11976
C5698.1	11980
C5700	18965
C5700.1	18965.1
C5701	18968
C5701.1	18972
C5701.3	18976
C5702.4	11972
C5703	11964
C5703.1	11968
C5704	11970
C5708	11956
C5708.1	11960
C5709	11948
C5709.1	11952
C5710	11872
C5710.2	11876
C5710.5	11877
C5710.51	11877.1
C5710.6	11878
C5710.61	11878.1
C5712.4	11888
C5712.41	11892
C5712.8	11896

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C5713	11936
C5713.4	11932
C5714	11928
C5716	11940
C5717	11944
C5718.5	11909
C5719	11908
C5720	11912
C5720.1	11916
C5724	11920
C5724.1	11924
C5724.4	11860
C5724.41	11864
C5725	11900
C5725.1	11904
C5725.5	11868
C5726	11832
C5727	11836
C5727.5	11840
C5728	11844
C5728.1	11848
C5729	11852
C5729.1	11856
C5730	11824
C5730.1	11828
C5731.4	11772
C5731.42	11788
C5731.44	11776
C5731.5	11764
C5731.51	11768
C5731.54	11780
C5731.55	11784
C5731.57	11792
C5731.58	11796
C5731.74	11800
C5731.76	11804
C5731.8	11808
C5731.81	11812
C5731.84	11816
C5731.85	11820
C5731.9	11760
C5733	11688
C5733.1	11692
C5734	11700
C5735	11696
C5736	11708
C5736.1	11712
C5739	11716
C5739.1	11720
C5739.9	11728
C5740	11724, 11732
C5740.1	11736
C5741	11740
C5741.1	11744
C5743	11748
C5743.1	11752
C5744	11624
C5745	11628
C5746	11632
C5746.1	11636
C5747	11637
C5747.1	11638
C5748	11640
C5749	11644
C5768	11672
C5770	11680
C5778	11660
C5788	11500
C5788.1	11504
C5789	11476
C5790	11488
C5790.4	11508
C5790.41	11512
C5790.5	11544
C5790.51	11548
C5790.6	11552
C5790.61	11556
C5790.8	11516
C5790.81	11520
C5790.82	11492
C5790.83	11496
C5790.86	11536
C5790.87	11540
C5790.89	11524
C5790.9	11528
C5790.91	11532
C5791	11558
C5792	11572
C5792.01	11576
C5792.2	11588
C5792.21	11592
C5792.4	11564
C5792.41	11568
C5792.6	11580
C5792.61	11584
C5792.8	11596
C5792.9	11600
C5793	11612
C5793.8	11608
C5796	11622
C5800	11468
C5800.1	11472
C5802	11480
C5802.1	11484
C5805	11460
C5806	11464
C5809	11456
C5810	11384
C5811.8	11380
C5813	11388
C5814.9	11436
C5815	11440
C5815.1	11444
C5816	11408
C5816.1	11412
C5816.2	11416
C5816.4	11392
C5816.9	11396
C5817	11400
C5817.1	11404
C5817.4	11420
C5818.4	11424
C5820	11448
C5824	11364
C5824.1	11368
C5826	11356
C5828	11360
C5832	11352
C5833	11328
C5833.3	11344
C5833.31	11348
C5834	11340
C5836	11332
C5836.1	11336
C5840	11324
C5844	11312
C5846	11316
C5846.1	11320
C5847	11308
C5848	11300
C5852	11304
C5854	11284
C5854.1	11288
C5855	11292
C5855.1	11296
C5856	11256
C5858	11260
C5858.1	11264
C5860	11268
C5862	11276
C5862.1	11280
C5864	11272
C5866	11282
C5866.1	11282.5
C5870	11128
C5874	11248
C5876	11240
C5876.1	11244
C5878.9	11144
C5879	11148
C5879.1	11152
C5880	11132
C5881	11140
C5882	11136
C5884	11164
C5884.1	11168
C5886	11172
C5886.1	11176
C5887	11156
C5887.5	11160
C5888	11180
C5889	11184
C5889.1	11188
C5890.6	11192
C5890.61	11196
C5891.5	11228
C5892	11200
C5892.1	11204
C5894	11212
C5894.1	11216
C5895	11208
C5897	11220
C5897.1	11224
C5898	11232
C5898.1	11236
C5902	11124
C5903	11058
C5904	11100
C5904.1	11104
C5910	11068
C5912	11076
C5918	11064
C5919	11060
C5920	11056
C5923	11044
C5925	11004
C5925.4	11000
C5926	11048
C5926.1	11052
C5928	10996
C5932	11028
C5932.1	11032
C5934	11036
C5934.1	11040
C5936	11024
C5938	11020
C5940	11016
C5944	10992
C5946	10980
C5948	10984
C5948.1	10988
C5951	10936
C5952	10928
C5953	10940
C5954	10932
C5960	10960
C5962	10964
C5966	10968
C5967	10970
C5967.1	10970.1
C5967.3	10971
C5967.31	10971.1
C5968	10972
C5970	10944
C5970.1	10948
C5971	10952
C5971.1	10956
C5972.4	10924
C5972.41	10925
C5973	10920
C5974	10916
C5975	10912
C5976	10900
C5977	10904
C5977.1	10908
C5977.2	10913
C5977.3	10914
C5977.4	10915
C5978	10892
C5979	10896
C5979.6	10891
C5980	10890
C5982	10868
C5983.4	10872
C5988	10832
C5988.5	10834
C5989	10888
C5990	10836
C5992	10840
C5993	10880
C5993.3	10878
C5993.4	10878.1
C5993.5	10878.2
C5993.6	10876
C5994	10844
C5998	10848
C6000.6	10850
C6001	10851
C6001.4	10884
C6004	10856

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C6008	10828
C6011	10824
C6012	10820
C6014	10812
C6015	10810
C6016	10808
C6020	10804
C6020.5	10805
C6021	10792
C6022	10800
C6023	10796
C6024	10788
C6025	10784
C6028	10780
C6030	10752
C6032	10744
C6032.1	10748
C6034	10756
C6036	10760
C6036.4	10764
C6037	10766
C6037.1	10766.1
C6037.4	10768
C6037.6	10772
C6037.61	10776
C6040	10736
C6041	10740
C6042	10732
C6043	10708
C6044	10712
C6044.1	10716
C6044.5	10720
C6044.6	10724
C6048	10704
C6052	10700
C6056	10696
C6057	10636
C6057.4	10640
C6060	10624
C6062	10632
C6066	10628
C6068	10652
C6069	10656
C6069.1	10660
C6070	10664
C6070.1	10668
C6071	10672
C6072	10676
C6075	10680
C6075.1	10684
C6076	10688
C6076.1	10692
C6079	10612
C6080	10616
C6081	10620
C6083	10604
C6084	10608
C6084.5	10610
C6086.2	10600
C6087	10528
C6088	10532
C6092	10536
C6093	10548
C6098	10552
C6098.1	10556
C6100	10560
C6102	10564
C6104	10580
C6106	10568
C6106.1	10572
C6108	10576
C6109	10584
C6110	10588
C6111	10592
C6111.1	10596
C6112	10524
C6113	10540
C6113.1	10544
C6113.5	10546.1
C6113.51	10546
C6114	10500
C6114.4	10516
C6114.41	10520
C6114.5	10502
C6114.6	10508
C6114.61	10512
C6115	10504
C6116	10492
C6116.1	10496
C6122	10476
C6125	10480
C6130	10472
C6132	10484
C6132.1	10488
C6138	10468
C6146	10464
C6152	10440
C6154	10444
C6156	10448
C6156.1	10452
C6158	10456
C6168	10436
C6172	10340
C6173	10342
C6174	10428
C6175.9	10424
C6176	10352
C6176.1	10348
C6184	10356
C6185	10368
C6186	10372
C6188	10376
C6190	10380
C6194	10384
C6194.5	10360
C6194.51	10364
C6195	10404
C6196	10396
C6198	10400
C6202	10388
C6202.1	10392
C6210	10344
C6214.7	10337, 10338
C6214.71	10337.1
C6214.9	10338
C6214.91	10338.1
C6220	10328
C6224	10316
C6224.1	10320
C6225	10324
C6226	10300
C6227	10292
C6228	10304
C6233	10288
C6234	10284
C6235.6	10260
C6235.8	10252
C6236	10280
C6238	10296
C6240	10268
C6241	10272
C6243	10276
C6243.4	10264
C6244	10248
C6245	10256
C6250	10312
C6252	10308
C6254	10020
C6259.6	10176
C6260	10188
C6260.1	10192
C6260.4	10200
C6260.5	10196
C6261	10180
C6262	10204
C6266	10208
C6268	10220
C6270	10216
C6274	10228
C6275	10232
C6275.1	10236
C6277	10240
C6277.1	10244
C6278	10172
C6279	10008
C6279.1	10012
C6280	10164
C6280.1	10168
C6281	10000
C6282	10004
C6285	10028
C6287	10030
C6288	10016
C6290	9992
C6291	9996
C6292	10160
C6294	10152
C6296	10156
C6298	10136
C6298.1	10140
C6300	10144
C6300.1	10148
C6302	10132
C6304	10128
C6307	10124
C6308	10123.6
C6309	10122
C6309.1	10123
C6311	10120
C6314	10116
C6360	9984
C6362	9976
C6364	10032
C6366	10036
C6370	10052
C6370.1	10056
C6371	10044
C6372	10048
C6373	10060
C6374	10064
C6375	10068
C6376	10072
C6376.4	10076
C6377	10080
C6377.1	10084
C6377.5	10088
C6378	10092
C6379	10096
C6379.1	10100
C6379.3	10104
C6379.4	10108
C6379.5	10112
C6382	9600
C6384	9572
C6386	9576
C6386.9	9778
C6387	9580
C6387.2	9581
C6387.3	9582
C6388.5	9584
C6389	9592
C6390	9588
C6391	9596
C6394.5	9604
C6395	9628
C6396	9360
C6398	9364
C6399	9352
C6400	9356
C6401	9646
C6402	9348
C6404	9344
C6406	9336
C6408	9340
C6409	9316
C6412	9608
C6412.2	9620
C6412.21	9624
C6412.3	9612
C6412.31	9616
C6416	9632
C6418	9636
C6419	9640
C6420	9644
C6421	9648
C6422	9652
C6423	9656
C6424	9660
C6426	9664
C6428	9668
C6430	9672
C6431	9676
C6432	9680
C6433	9684
C6434	9696
C6436	9724
C6440	9688
C6442	9692
C6444	9700
C6446	9704

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C6448	9728
C6450	9732
C6452	9708
C6453	9712
C6454	9716
C6459	9972
C6459.3	9972.2
C6459.5	9972.4
C6459.7	9972.6
C6460	9968
C6462	9328
C6463.2	9332
C6463.3	9320
C6463.5	9076
C6465	9056
C6466	9054
C6468	9068
C6468.5	9070
C6470	9060
C6471.6	9064
C6472	9080
C6472.1	9084
C6476	9096
C6476.1	9100
C6477	9116
C6478	9104
C6480	9108
C6481	9112
C6482	9128
C6482.1	9132
C6484	9120
C6484.1	9124
C6488	9136
C6495	9376
C6496	9380
C6498	9396
C6502	9392
C6503	9400
C6504	9408
C6505	9402
C6506	9404
C6508	9420
C6510	9424
C6514	9428
C6515	9432
C6516	9436
C6518	9448
C6518.1	9452
C6522	9456
C6524	9460
C6524.5	9464
C6525	9468
C6528	9472
C6532	9440
C6534	9444
C6536	9504
C6538	9508
C6539	9512
C6540	9524
C6541	9532
C6542	9536
C6543	9540
C6544	9476
C6545	9480
C6545.2	9516
C6546	9520
C6549	9528
C6550	9548
C6551.2	9560
C6558	9556
C6560	9564
C6560.4	9568
C6568	9484
C6570	9496
C6571	9492
C6572	9488
C6576	9040
C6578	9044
C6580	9048
C6582	9052
C6583.6	9008
C6584	9012
C6585	9016
C6587.2	9036
C6587.4	9032
C6587.6	9020
C6587.7	9024
C6587.8	9025
C6587.9	9026
C6587.95	9028
C6588	9140
C6590	9146
C6592	9144
C6594	9148
C6596	9152
C6598	9184
C6602	9164
C6606	9168
C6614	9180
C6618	9188
C6618.4	9192
C6619	9196
C6620	9200
C6620.4	9201
C6621	9202
C6621.1	9202.1
C6623	9204
C6625	9212
C6625.4	9224
C6626	9220
C6628	9216
C6632	9232
C6634	9236
C6636	9248
C6640	9264
C6642	9252
C6644	9256
C6646	9268
C6648	9260
C6649	9250
C6650	9262
C6654	9280
C6658	9284
C6660	9288
C6662	9292
C6664	9296
C6666	9300
C6669	9368
C6670	9308
C6672	9312
C6673	9372
C6675	8896
C6675.4	8892
C6675.6	8888
C6675.8	8900
C6676.2	8902
C6676.3	8904
C6676.5	8908
C6676.6	8906
C6677	8960
C6677.1	8962
C6677.2	8964
C6677.4	8956
C6677.6	8968
C6677.8	8972
C6677.81	8976
C6678	8980
C6678.4	8984
C6678.5	8982
C6678.6	8988
C6678.8	8996
C6678.81	9000
C6679	8992
C6679.2	9004
C6680.3	9006
C6686	8952
C6720	8884
C6722	8880
C6724	8876
C6726	8872
C6730	8864
C6732	8860
C6734	8868
C6738	8848
C6738.1	8852
C6740	8856
C6742	8844
C6744	8840
C6748	8800
C6750	8796
C6752	8836
C6754	8828
C6754.1	8832
C6760	8784
C6764	8820
C6764.1	8824
C6766	8812
C6766.1	8816
C6768	8808
C6772	8776
C6774	8780
C6786	8772
C6788	8768
C6790	8764
C6792	8760
C6794	8748
C6794.5	8732
C6795	8752
C6796	8756
C6800	8736
C6802	8740
C6803	8742
C6803.1	8744
C6810	8728
C6814	8720
C6816	8724
C6818	8640
C6820	8704
C6824	8712
C6824.1	8716
C6829	8608
C6832	8616
C6832.1	8620
C6833	8626
C6834	8624
C6836	8612
C6838	8628
C6840	8632
C6842	8644
C6842.1	8648
C6845	8652
C6846	8656
C6846.1	8660
C6846.5	8654
C6847	8668
C6848	8664
C6854	8538
C6855	8564
C6855.1	8568
C6856	8572
C6856.4	8574
C6856.41	8574.1
C6857	8594
C6857.4	8576
C6857.41	8580
C6858	8540
C6859	8560
C6860	8552
C6860.1	8556
C6862	8548
C6864	8544
C6866	8428
C6868	8528
C6868.1	8532
C6872	8520
C6872.1	8524
C6873	8476
C6874	8480
C6876	8484
C6878	8596
C6882	8584
C6888	8588
C6890	8604
C6892	8600
C6894	8672
C6896	8676
C6898	8688
C6900	8696
C6901	8692
C6902	8700
C6954	8440
C6956	8412
C6956.1	8416
C6958	8420
C6962	8408
C6964	8404
C6966	8432
C6968	8436
C6974	8448
C6976	8444

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
C6978	8424
C6982	8460
C6982.1	8460.1
C6984	8464
C6988	8468
C6988.1	8472
C6990	8452
C6994	8488
C6996	8492
C6998	8496
C7004	8504
C7006	8508
C7010	8516
C7022	8400
C7026	8396
C7028	8392
C7030	8384
C7032	8388
C7036	8372
C7036.1	8376
C7038	8368
C7040	8364
C7044	8356
C7044.1	8360
C7046	8352
C7048	8348
C7050	8344
C7052	8340
C7054	8336
C7056	8328
C7056.1	8332
C7058	8324
C7060	8320
C7064	8312
C7064.1	8316
C7066	8244
C7068	8304
C7070	8308
C7072	8240
C7074	8236
C7076	8232
C7078	8212
C7080	8220
C7081	8218
C7082	8216
C7084	8208
C7086	8228
C7088	8248
C7088.1	8252
C7090	8256
C7090.1	8260
C7096	8268
C7096.1	8272
C7098	8264
C7099	8300
C7100.1	8280
C7102	8284
C7103	8288
C7104	8292
C7105	8296
C7108	8200
C7110	8196
C7114	8188
C7114.1	8192
C7118	8184
C7120	8180
C7122	8176
C7124	8172
C7130	8164
C7132	8160
C7136	8152
C7138	8148
C7140	8144
C7146	8124
C7147	8125
C7147.1	8126
C7150	9832
C7154	9840
C7156	9836
C7160	9848
C7162	9844
C7163	9852
C7164	9856
C7168	9860
C7168.1	9864
C7169	9876
C7170	9868
C7171	9872
C7178	9888
C7180	9880
C7180.1	9884
C7182	9892
C7184	9896
C7185	9897
C7185.1	9897.5
C7185.6	9898
C7185.61	9898.1
C7186	9900
C7186.1	9904
C7188	9912
C7189	9916
C7192	9908
C7196	9920
C7198	9924
C7200	9928
C7202	9932
C7202.4	9936
C7202.5	9940
C7202.7	9944
C7202.8	9948
C7204	9952
C7205	9956
C7205.1	9960
C7206	9964
C7210	9736
C7211	9752
C7212	9740
C7214	9744
C7214.1	9748
C7218	9756
C7218.1	9760
C7224	9772
C7228	9776
C7228.1	9780
C7235	9782
C7236	9796
C7236.5	9792
C7238	9800
C7238.1	9804
C7242	9808
C7246	9816
C7248	9820
C7248.1	9824
C7250	9828
C7252	9830
C7260	7756
C7262	7760
C7262.1	7764
C7266	7752
C7268	7744
C7268.1	7748
C7270	7740
C7272	7737
C7272.1	7738
C7274	7736
C7276	7728
C7276.1	7732
C7280	7720
C7284	7724
C7287	8116
C7287.1	8120
C7288	8108
C7290	8064
C7292	8052
C7295	8068
C7295.1	8072
C7295.5	8104
C7295.9	8080
C7296	8076
C7296.1	8078
C7298	8092
C7298.1	8096
C7299	8084
C7299.1	8088
C7300	8100
C7308	8048
C7312	8040
C7317	8032
C7317.1	8036
C7318	8008
C7318.1	8012
C7320	8016
C7320.1	8020
C7322	8024
C7322.1	8028
C7324	7996
C7326	8000
C7326.1	8004
C7328	7980
C7328.1	7984
C7330	7988
C7330.1	7992
C7332	7976
C7336	7960
C7336.1	7964
C7338	7968
C7338.1	7972
C7340	7952
C7342	7944
C7342.1	7948
C7346	7928
C7346.1	7932
C7348	7920
C7348.1	7924
C7349	7908
C7350	7904
C7352	7880
C7354	7884
C7354.2	7888
C7354.4	7892
C7354.6	7896
C7354.8	7900
C7356	7902
C7356.1	7902.1
C7358	7876
C7358.4	7872
C7360	7864
C7360.1	7868
C7370	7912
C7370.1	7916
C7378	7848
C7380	7852
C7390	7844
C7394	7832
C7394.1	7836
C7400	7800
C7400.1	7804
C7402	7792
C7402.1	7796
C7408	7808
C7408.1	7812
C7410	7816
C7410.1	7820
C7412	7824
C7412.1	7828
C7416	7776
C7420	7780
C7421	7783
C7421.11	7782.2
C7421.2	7774, 7782
C7422	7768
C7422.1	7772
C7425	7784
C7425.1	7788
C7428.1	7717.1
C7428.2	7717
C7431	7712
C7431.1	7716
C7432	7680
C7434	7664
C7434.1	7668
C7436	7672
C7436.1	7676
C7438	7684
C7438.1	7688
C7438.4	7652
C7438.8	7648
C7439	7656
C7439.1	7660
C7440	7708
C7442	7696
C7444	7700
C7445	7704
C7446	7564
C7447	7566
C7448	7568
C7448.2	7624
C7449	7572
C7450	7576
C7450.5	7584

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.
C7451	7640
C7451.1	7644
C7451.4	7632
C7451.5	7636
C7451.7	7628
C7452	7580
C7452.6	7540
C7453.3	7520
C7453.4	7536
C7453.6	7524
C7453.7	7528
C7454	7544
C7454.1	7548
C7454.3	7552
C7455	7532
C7460	7556
C7460.1	7560
C7462	7588
C7464	7592
C7468	7600
C7472	7608
C7472.1	7612
C7476	7616
C7480	7620
C7487	7469
C7488	7516
C7489	7495
C7489.1	7495.1
C7490	7468
C7492	7472
C7492.1	7476
C7494	7480
C7494.1	7484
C7495	7488
C7498	7492
C7504	7504
C7506	7508
C7506.1	7512
C7510	7464
C7512	7420
C7514	7412
C7516	7416
C7516.4	7418
C7517	7428
C7518	7426
C7519	7424
C7520	7432
C7520.1	7436
C7524	7440
C7524.1	7444
C7525	7448
C7526	7452
C7526.1	7456
C7527	7460
C7527.1	7392
C7527.2	7404
C7527.21	7408
C7527.3	7396
C7527.31	7400
C7527.4	7388
C7527.6	7384
C7527.7	7376
C7527.71	7380
C7527.8	7382
C7527.81	7382.1
C7528	7372
C7530	7356
C7530.1	7360
C7532	7364
C7534	7352
C7535	7344
C7535.1	7348
C7536	7324
C7538	7316
C7540	7328
C7540.1	7332
C7540.4	7320
C7541	7336
C7541.1	7340
C7544	7304
C7546	7308
C7546.1	7312
C7548	7296
C7550	7300
C7551	7284
C7551.1	7288
C7551.6	7292
C7552	7264
C7553	7268
C7553.1	7272
C7556	7276
C7556.1	7280
C7559.6	7252
C7559.61	7256
C7560	7244
C7560.1	7248
C7564	7240
C7568	7208
C7568.1	7212
C7570	7216
C7570.1	7220
C7572	7224
C7572.1	7228
C7572.4	7232
C7572.5	7236
C7572.6	7198
C7572.62	7199
C7572.7	7200
C7572.8	7204
C7573	7192
C7573.1	7196
C7574	7184
C7574.1	7188
C7576	7172
C7578	7176
C7578.1	7180
C7582	7152
C7584	7164
C7584.1	7168
C7586	7156
C7586.1	7160
C7588	7144
C7588.1	7148
C7592	7136
C7592.1	7140
CO776	2233

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.