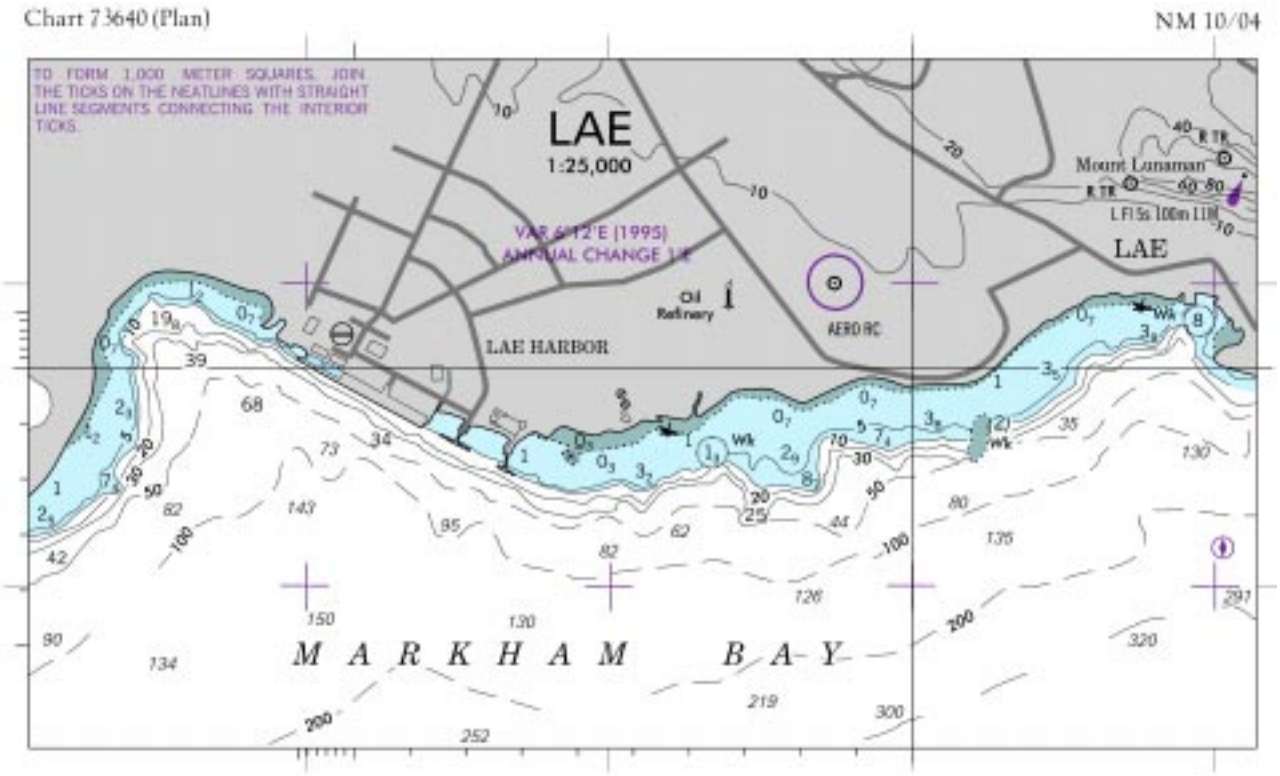
Chart 73640 (Plan)
NM 10/04
TO FORM 1,000 METER SQUARES, JOIN THE TICKS ON THE NEATLINES WITH STRAIGHT LINE SEGMENTS CONNECTING THE INTERIOR TICKS.
LAE
1:25,000
VAR 6°12'E (1995)
ANNUAL CHANGE 1'E
Oil Refinery
AERO RC
LAE HARBOR
Mount Lunaman
LAE
MARKHAM BAY

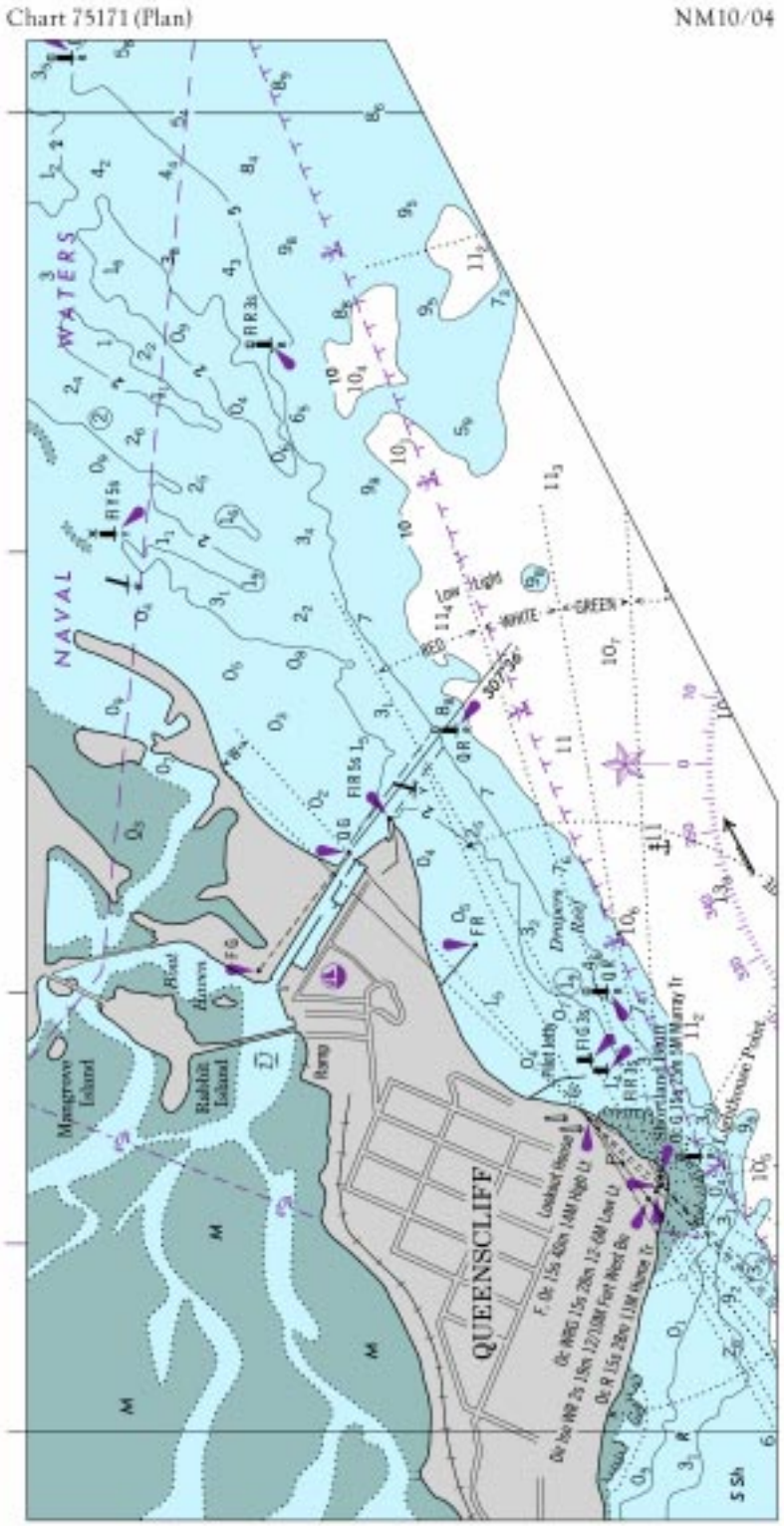
Chart 75171 (Plan)
NM10/04
NAVAL WATERS
QUEENSCLIFF
Mangrove Island
Rabbit Island
Ramp
Low Light
RED
WHITE
GREEN

Chart 12222 NM 10/04

NORFOLK HARBOR AND APPROACHES
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
THIMBLE SHOAL CHANNEL (A)								
NORTH ELEMENT (B)	47.6	46.5	45.6	44.1	6,7,9-00	350	13.0	55
SOUTH ELEMENT (C)	49.7	50.0	49.7	50.3	6,7,9-00	650	13.0	55
NORTH AUXILIARY CHANNEL (D)						450		32
SOUTH AUXILIARY CHANNEL (D)						450		32
NORFOLK HARBOR								
ENTRANCE REACH	50.3	51.5	52.9	52.0	4-99	1000	1.4	50
NORFOLK HARBOR REACH	50.8	50.9	46.1	45.4	2-03	1250-800	3.8	55
CRANEY ISLAND REACH	48.1	51.2	50.8	46.2	2-03	800	2.1	55
LAMBERTS BEND	38.9	45.8	40.0	37.5	3-02	750	0.3	45
PORT NORFOLK REACH	38.0	40.0	40.3	38.6	3-02	750	2.0	45
NEWPORT NEWS CHANNEL	48.7	50.7	50.7	50.4	2-03	800	4.2	55
CAPE HENRY CHANNEL	47.4	52.3	52.5	49.3	1,12-02	1000	4.0	50
YORK SPIT CHANNEL	45.1	49.4	49.5	47.2	11-99;2-00;9,11-02	1000(E)	18.4	50

A. THIS CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET.
B. PORTION OF PROJECT MAINTAINED TO 45 FEET
C. PORTION OF PROJECT MAINTAINED TO 50 FEET
D. PROJECT MAINTENANCE DISCONTINUED
E. CHANNEL WIDTH MAINTAINED TO 800 FEET
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12245 NM 10/04

NORFOLK HARBOR AND NEWPORT NEWS CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
NORFOLK HARBOR ENTRANCE REACH	50.3	51.5	52.9	52.0	4-99	1000	1.4	50
NORFOLK HARBOR REACH	50.8	50.9	46.1	45.4	2-03	1250-800	3.8	55
CRANEY ISLAND REACH	48.1	51.2	50.8	46.2	2-03	800	2.1	55
NEWPORT NEWS CHANNEL	48.7	50.7	50.7	50.4	2-03	800	4.2	55

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12253 NM 10/04

ELIZABETH RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CRANEY ISLAND REACH	48.1	51.2	50.8	46.2	2-03	800	2.1	55
LAMBERTS BEND	38.9	45.8	40.0	37.5	3-02	750	0.3	45
PORT NORFOLK REACH	38.0	40.0	40.3	38.6	3-02	750	2.0	45
TOWN POINT REACH	39.3	39.1	40.2	38.8	3-02	750	0.6	45
SOUTHERN BRANCH:								
LOWER REACH	36.8	40.3	40.5	38.4	3-02	450-800	1.7	45
MIDDLE REACH	38.9	40.8	40.5	38.0	3-02	375	0.9	45
UPPER REACH	33.1	34.8	35.4	31.1	3-02	250-500	2.7	35
TURNING BASIN	34.7	35.7	35.0	33.4	3-02	600	0.1	35
THENCE TO A POINT 100 YARDS SOUTH OF LIGHT "30"	27.1	29.8	30.5	28.8	3-02	250	1.1	35
TURNING BASIN AT MAINS CREEK	28.4	30.4	29.0	28.3	3-02	800	0.2	35
THENCE TO A POINT 100 YARDS NORTH OF N & P B L RR BRIDGE	25.5	29.8	29.2	26.7	3-02	250	0.2	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12311 NM 10/04

CHRISTINA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	34.5	32.3	34.4	10-03	500-340	0.70	38
THENCE TO THE LOBDELL CANAL	34.6	25.1	30.4	10-03	400	0.33	35
TURNING BASIN (OPPOSITE TERMINAL WHARF)	34.3	34.4	34.8	10-03	320	0.34	38

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12312 NM 10/04

CHRISTINA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	34.5	32.3	34.4	10-03	500-340	0.70	38
THENCE TO THE LOBDELL CANAL	34.6	25.1	30.4	10-03	400	0.33	35
TURNING BASIN (OPPOSITE TERMINAL WHARF)	34.3	34.4	34.8	10-03	320	0.34	38

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14842 (Page 26) NM 10/04

SANDUSKY HARBOR CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
MOSELEY CHANNEL	22.8	24.4	25.2	A7.5	6-03	400	2.15	26
UPPER STRAIGHT CHANNEL	20.5	22.7	24.3	21.2	6-03	400	1.04	25
UPPER BAY CHANNEL	23.3	23.4	23.1	16.9	6-03; 9-03	300	1.64	25
LOWER BAY CHANNEL	20.5	21.4	23.1	26.4	6-03	350	.24	24
TURNING BASIN	13.6	19.6	21.8	20.6	6-03	300-1725	.50	24
DOCK CHANNEL	17.3	16.5	18.5	16.4	6-03	300	1.10	22
LOWER STRAIGHT CHANNEL	16.5	16.5	17.6	16.8	6-03	400	.77	21

A. EXCEPT FOR SHOALING TO 3.8 FEET IN THE VICINITY OF BUOY 10.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14844 NM 10/04

SANDUSKY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
MOSELEY CHANNEL	22.8	24.4	25.2	A7.5	6-03	400	2.15	26
UPPER STRAIGHT CHANNEL	20.5	22.7	24.3	21.2	6-03	400	1.04	25
UPPER BAY CHANNEL	23.3	23.4	23.1	16.9	6-03; 9-03	300	1.64	25
LOWER BAY CHANNEL	20.5	21.4	23.1	26.4	6-03	350	.24	24
TURNING BASIN	13.6	19.6	21.8	20.6	6-03	300-1725	.50	24
DOCK CHANNEL	17.3	16.5	18.5	16.4	6-03	300	1.10	22
LOWER STRAIGHT CHANNEL	16.5	16.5	17.6	16.8	6-03	400	.77	21

A. EXCEPT FOR SHOALING TO 3.8 FEET IN THE VICINITY OF BUOY 10.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14845 NM 10/04

SANDUSKY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
MOSELEY CHANNEL	22.8	24.4	25.2	A7.5	6-03	400	2.15	26
UPPER STRAIGHT CHANNEL	20.5	22.7	24.3	21.2	6-03	400	1.04	25
UPPER BAY CHANNEL	23.3	23.4	23.1	16.9	6-03; 9-03	300	1.64	25
LOWER BAY CHANNEL	20.5	21.4	23.1	26.4	6-03	350	.24	24
TURNING BASIN	13.6	19.6	21.8	20.6	6-03	300-1725	.50	24
DOCK CHANNEL	17.3	16.5	18.5	16.4	6-03	300	1.10	22
LOWER STRAIGHT CHANNEL	16.5	16.5	17.6	16.8	6-03	400	.77	21

A. EXCEPT FOR SHOALING TO 3.8 FEET IN THE VICINITY OF BUOY 10.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 73000 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73002 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73004 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73006 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73010 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73014 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73016 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73018 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73020 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73022 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73141 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 73191 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.

Chart 92006 NM 10/04

ASL-ARCHIPELAGIC SEA LANES

Archipelagic Sea Lanes as defined in UNCLOS have been designated in the area of this chart. Use of an ASL is not mandatory. However, vessels exercising archipelagic sea lanes passage shall not deviate more than 25 miles from the charted axis line. Where an island borders the sea lane, ships in the archipelagic sea lanes may not navigate closer to the shore than 10 per cent of the distance between the nearest point on the island and the axis line of the sea lane.

Where a traffic separation scheme exists, rules for the use of the traffic separation schemes still apply. It should be noted that the axis line of the ASL does not indicate the deepest water, any route or recommended track.

For further details, see Sailing Directions.