



No. 16
17 APRIL 2004



UNITED STATES OF AMERICA

NOTICE TO MARINERS



Published Weekly by the
National Geospatial-Intelligence Agency

Prepared Jointly with the
National Ocean Service and U.S. Coast Guard

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Visit the Maritime Safety Information Division website at
<http://pollux.nss.nga.mil/>



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IMPORTANT INFORMATION

The Notice to Mariners is published by the National Geospatial-Intelligence Agency (NGA), under the authority of Department of Defense Directive 5105.40, to advise mariners of important matters affecting navigational safety, including new hydrographic discoveries, changes in channels and navigational aids, etc. (U.S. Code Title 10, Sec. 442 and Title 44, Sec. 1336 refer). Nothing in the arrangement of information implies endorsement or acceptance by NGA in matters affecting the status and boundaries of States and territories. The Notice to Mariners presents corrective information affecting charts, NGA Hydrographic Products Catalog, Coast Pilots, Sailing Directions, Fleet Guides, USCG Light Lists, NGA List of Lights, Radio Navigational Aids and other products produced by the National Geospatial-Intelligence Agency, National Ocean Service and U.S. Coast Guard.

Information for the Notice to Mariners is contributed by the following Agencies: National Geospatial-Intelligence Agency (NGA) (Department of Defense) for waters outside the territorial limits of the United States; National Ocean Service (NOS) (Department of Commerce), which is charged with the surveys and charting of the coasts and harbors of the United States and its territories; the U.S. Coast Guard (USCG) (Department of Homeland Security), which is responsible for the safety of life at sea and the establishment and operation of aids to navigation; and the U.S. Army Corps of Engineers (Department of Defense), which is charged with the improvement of rivers and harbors of the United States. In addition, important contributions are made by foreign hydrographic offices and cooperating observers of all nationalities.

For further information concerning NGA hydrographic products and services, including the Maritime Safety Information Website, users may contact:

<u>Name</u>	<u>Telephone</u>	<u>DSN</u>	<u>FAX</u>
Maritime Safety Information Division	301-227-3370	287-3370	301-227-4211
World Wide Navigational Warning Service	301-227-3147	287-3147	301-227-3731
Fleet Liaison Officer	301-227-3120	287-3120	301-227-4211
Maritime Safety Information Website	301-227-3296	287-3296	301-227-4211
Notice to Mariners: Regions 1 and 2	301-227-3122	287-3122	301-227-3175
Notice to Mariners: Regions 3, 4, 5	301-227-3146	287-3146	301-227-3175
Notice to Mariners: Regions 6 thru 9	301-227-3146	287-3146	301-227-3175
Sailing Directions, Fleet Guides	301-227-3183	287-3183	301-227-3174
Navigation Science Publications	301-227-3120	287-3120	301-227-3731
Distribution Issues	301-227-7652	287-7652	301-227-4211

The Maritime Safety Information Website can be accessed directly at (<http://pollux.nss.nga.mil>). For your convenience NGA provides three e-mail addresses. For information affecting Notice to Mariners use NavNotices@nga.mil, for information affecting Sailing Directions and all other navigational publications use SDPUBS@nga.mil, for information concerning the Maritime Safety Information Website, use webmaster_nss@nga.mil.

Mariners are requested to notify NGA of discrepancies in charts and publications, using the Marine Information Report and Suggestion Sheet at the back of this Notice to Mariners. This form should also be used to report permanent changes, additions, or deletions from charted or published information. Reports which constitute an immediate hazard to navigation should be sent to the nearest NAVAREA Coordinator via coast radio stations. All reports are greatly appreciated. Marine Information Report and Suggestion sheets received during the past week were submitted by the following observers:

<u>Observer</u>	<u>Ship/Organization</u>
Navigation Team	USS MOBILE BAY
Keith Stribley	M/V STRONG PATRIOT

Cover Photo: The **USS FORD (FFG-54)** is the forty-eighth ship of the *Oliver Hazard Perry* Class of guided missile frigates. Her mission is to provide in-depth anti-air, anti-surface and anti-subsurface protection for military and merchant shipping and to ensure continuous use of the sea lanes for the Untied states and her allies. The combat systems aboard utilize a computer command and control system to integrate the ships sensors and weapons. Her weapons include surface-to-surface and surface-to-air missiles, a 76mm rapid fire gun, a close-in weapons system, anti-torpedoes and LAMPS MK III helicopter. The propulsion system is a computer controlled gas turbine power plant which utilizes jet engines. **FORD**'s propulsion system can be "brought on line" in less than five minutes as compared to more than four hours for the conventional steam powered ships. Despite the advanced systems aboard, the heart of the ship is the crew. Each member has been highly trained in his particular area of expertise so that he can either operate, monitor or repair all shipboard systems. Skilled technicians and professional leadership make **USS FORD** a vital asset for the fleet in today's multi-threat environment.

INFORMATION
OF
SPECIAL INTEREST
OR
IMPORTANCE
TO
MARINERS

NM 16/04

HYDROGRAM

**National Geospatial-Intelligence Agency
Bethesda, MD 20816-5003**

SPECIAL
ANNOUNCEMENTS

NEW PRODUCTS
OR SERVICES

IMPORTANT
CHANGES

17 April 2004

CABO FINISTERRE NEW AND AMENDED TRAFFIC SEPARATION SCHEMES

THE INTERNATIONAL MARITIME ORGANIZATION (IMO) HAS ANNOUNCED THAT NEW AND AMENDED TRAFFIC SEPARATION SCHEMES (TSS's) HAVE BEEN ADOPTED FOR CABO FINISTERRE EFFECTIVE 0001 GMT 1 JUNE 2004. FOR DETAILS, SEE SECTION III.

NEW EDITION OF SAILING DIRECTIONS

PUB. 164, SAILING DIRECTIONS (ENROUTE) NEW GUINEA, EIGHTH EDITION, 2003, IS READY FOR ISSUE. THIS EDITION IS PRODUCED BY NGA IN DIGITAL FORMAT ONLY. SEE SECTIONS II AND III.

NOAA CHART NEW EDITIONS AND THEIR AVAILABILITY

NOAA RECOGNIZES TWO NAUTICAL CHART PRODUCTS: CHARTS-ON-DEMAND AND TRADITIONAL NOAA/NOS PAPER CHARTS. FOR ADDITIONAL INFORMATION, SEE SECTIONS II AND III.

EXPLANATION OF CONTENTS

The Notice to Mariners contains corrective information affecting nautical charts, the NGA Hydrographic Products Catalog, Coast Pilots, Sailing Directions, Fleet Guides, USCG Light Lists, NGA List of Lights, Radio Navigational Aids and other related nautical publications. The information contained in these corrections is important to safe navigation. It is the user's responsibility to decide which of their charts and publications require correction. Consult the U.S. Coast Guard Local Notice to Mariners for information pertaining to waterways within the United States that are not normally used by oceangoing vessels. Because of the sometimes transitory nature of aids to navigation, depths and port information, local area sources should be consulted whenever possible. This publication is not required to be maintained intact. Portions may be separated for correction or attachment to an affected product. The Notice to Mariners is divided into the following sections:

Section I-1 contains corrections to nautical charts listed in numeric order by chart number. Each chart correction listed applies only to that particular chart. Related charts, if any, will have their own specific correction listed separately. Users should also refer to U.S. Chart 1 Nautical Chart Symbols, Abbreviations and Terms for additional information pertaining to the correcting of charts. The illustration below describes the elements that comprise a typical chart correction:



A chart correction preceded by:

- ★ indicates that it is based upon original U.S. source information.
 - T indicates that it is temporary in nature.
 - P indicates that it is preliminary, and that permanent corrective action will appear in a future Notice to Mariners.
- The letter M immediately following the chart number indicates that the correction should be applied to the metric side of the chart only. The letter M is not a part of the chart number.
- The letter N preceding the current Notice to Mariners number indicates that the affected chart is on Limited Distribution and is normally only for use by U.S. Navy, government-owned or -chartered vessels.
- Courses and bearings are given in degrees true.
- Light sectors are expressed in degrees true from the vessel TOWARD the light.
- The visible range(s) listed for lights is normally the nominal range (the distance at which it can be seen in clear weather), expressed in nautical miles, except in the Great Lakes where it is expressed in statute miles.
- The colors of structures and lights of navigational aids are abbreviated in accordance with Chart 1.
- Section I-2*** contains all chartlets, depth tabulations and notes associated with the chart corrections in Section I-1. Chartlets and depth tabulations supersede all previous information portrayed.
- Section I-3** lists all NGA and NOS charts which have been affected by Notice to Mariners and the notice numbers which have affected them since the date of the oldest Summary of Corrections or the chart's announcement, whichever is later.

Section II-1 is a weekly listing of corrections to the NGA Hydrographic Products Catalog, including new charts and publications. It also contains the latest price category information.

Section II-2* contains corrections to navigation publications, including Sailing Directions, Coast Pilots, Fleet Guides, Radio Navigational Aids (Pub. 117), *The American Practical Navigator* and other related nautical publications.

Section II-3* lists weekly updates to the USCG Light Lists.

Section II-4* lists weekly updates to the NGA List of Lights.

Section II-5 lists all NGA, NOS and USCG navigation publications which have been affected by Notice to Mariners and the notice numbers which have affected them since the date of the publication's announcement.

Section III-1 lists the message number of all in-force Navigational Warnings, and the text of those warnings promulgated during the previous week. Notice to Mariners Nos. 13, 26 and 39 list a summary of all in-force Navigational Warnings for the preceding quarter. Notice to Mariners No. 52 lists a complete summary of all in-force Navigational Warnings.

Section III-2 contains miscellaneous information of particular interest to the maritime community.

*The left-hand pages of these sections are intentionally blank.

**SECTION I
CHART CORRECTIONS**

411	49Ed. 3/03 LAST NM 6/04 Change Light to Fl 24M, Oc(4) 10M	16/04 27°36'N 82°46'W	Relocate (Page C) Light "B" from 29°31'19"N 94°52'58"W to 29°31'15"N 94°53'02"W (NOS)
	Add Danger circle "Obstns" [K40] Danger circle "Obstn" [K40] (NOS; 11/03 CG7)	27°16'N 83°07'W 27°06'N 83°03'W	
★514 (INT 814)	7Ed. 1/04 NEW EDITION Delete R Bn R Bn (Previously published 15/04)	16/04 64°24'N 172°15'W 64°20'N 173°34'W	★11327 31Ed. 8/03 LAST NM 14/04 Relocate Light "B" from 29°31'18.9"N 94°52'58.4"W to 29°31'15.0"N 94°53'02.0"W (NOS)
Delete	Depth 2 meters and legend "Tenedos Shoal" Depth 29 meters Depth 26 meters Depth 24 meters (NOS; 34(5550, 5551)03 St. Petersburg)	64°16'N 178°00'W 64°52'N 179°25'W 64°57'N 176°19'W 64°42'N 175°35'W	★11340 68Ed. 6/03 LAST NM 15/04 Add Platform [L10] (11/04 CG8)
★540	17Ed. 2/04 NEW EDITION Substitute Depth 68 fathoms for 180 fathoms	16/04 28°54'N 178°37'W	★11344 35Ed. 12/02 LAST NM 14/04 Add Platform [L10] (11/04 CG8)
Add	Depth 218 fathoms Depth 656 fathoms "Rep (2000)" [I3.2]	28°52'N 178°52'W 5°53'N 165°22'W	★11376 49Ed. 9/03 LAST NM 11/04 Add Tabulation of controlling depths from Subsection I-2 (NOS)
1113A	Ed. 3/03 LAST NM 52/03 Delete Depth 18 fathoms	16/04 27°06.1'N 83°03.8'W	★11378 33Ed. 2/04 NEW EDITION (Side A) Delete Range light, front 30°19'51.4"N 87°18'50.8"W
Change	Light to Fl 15s 85ft 24M, Oc(4) 30s 85ft 10M	27°36.0'N 82°45.6'W	Add Range light, front QG 24ft, QG 26ft 3M 30°19'33.6"N 87°18'44.0"W Note: Range bearing unchanged (Previously published 13/04)
Add	Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7½fms)" 27°15.9'N 83°07.3'W Danger circle [K46.2] "Obstns (Fish Haven) (auth min 7½fms)" 27°15.5'N 83°07.1'W Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7½fms)" 27°15.6'N 83°07.4'W Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7½fms)" 27°06.2'N 83°03.2'W (NOS; 11/03 CG7)		(Side B) Delete Legend "(F R Obstn Lt)" 30°13'36.5"N 88°01'06.0"W (Previously published 14/04)
			(Side B, Continuation) Delete Legend "(F R Obstn Lt)" 30°13'35.5"N 88°01'05.0"W (Previously published 14/04)
1114A	Ed. 11/17/01 LAST NM 13/03 Change Light to Fl 15s 85ft 24M, Oc(4) 30s 85ft 10M	16/04 27°36.0'N 82°45.6'W (11/03 CG7)	11389 32Ed. 10/13/01 LAST NM 14/04 Delete Light "3" 30°09'02"N 85°41'30"W
1116A	Ed. 6/03 LAST NM 15/04 Add Platform [L10] (11/04 CG8)	16/04 27°07.3'N 91°57.5'W	Relocate Buoy "11" from 30°07'53"N 85°42'59"W to 30°07'57"N 85°42'51"W Buoy "12" from 30°07'51"N 85°42'52"W to 30°07'54"N 85°42'48"W
11004	7Ed. 10/29/94 LAST NM 15/04 Add Platform [L10] (11/04 CG8)	16/04 27°07.3'N 91°57.5'W	Add Buoy "3" G, QG 30°09'04"N 85°41'17"W Buoy "8" R, Fl R 30°09'40"N 85°42'36"W (11/04 CG8)
11006	31Ed. 9/03 LAST NM 13/04 Substitute Danger circle [K46.2] "Obstns (Fish Haven) (auth min 7½fms)" for depth 19 fathoms	16/04 27°15.8'N 83°07.3'W	11390 22Ed. 3/30/02 LAST NM 14/04 (Side A) Delete Light "3" 30°09'02.1"N 85°41'29.6"W
Change	Light to Fl 15s 24M, Oc(4) 30s 10M	27°36.0'N 82°45.6'W	Relocate Buoy "11" from 30°07'53.3"N 85°42'57.2"W to 30°07'57.1"N 85°42'50.8"W Buoy "12" from 30°07'50.9"N 85°42'51.8"W to 30°07'53.9"N 85°42'48.0"W
Add	Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7½fms)" 27°06.2'N 83°03.2'W (NOS; 11/03 CG7)		Add Buoy "3" G, QG 30°09'03.5"N 85°41'16.5"W Buoy "8" R, Fl R 4s 30°09'40.4"N 85°42'36.3"W (11/04 CG8)
11013	45Ed. 7/03 LAST NM 52/03 Change Light to Fl 24M, Oc(4) 10M	16/04 27°36.0'N 82°45.8'W	★11391 23Ed. 10/03 LAST NM 14/04 Delete Light "3" 30°09'02.1"N 85°41'29.8"W
Add	Danger circle [K46.2] "Obstns (Fish Haven) (auth min 7½fms)" 27°15.8'N 83°07.3'W Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7½fms)" 27°06.2'N 83°03.2'W (NOS; 11/03 CG7)		Relocate Buoy "6" from 30°07'15.2"N 85°43'45.9"W to 30°07'15.5"N 85°43'44.7"W Buoy "11" from 30°07'53.3"N 85°42'57.7"W to 30°07'57.1"N 85°42'50.8"W Buoy "12" from 30°07'50.9"N 85°42'50.2"W to 30°07'53.9"N 85°42'48.0"W
11326	32Ed. 11/03 LAST NM 15/04 (Page B, Inset 3) Relocate Light "B" from 29°31'18.2"N 94°52'58.8"W to 29°31'15.0"N 94°53'02.0"W	16/04	Add Buoy "3" G, QG 30°09'03.5"N 85°41'16.5"W Buoy "8" R, Fl R 4s 30°09'40.4"N 85°42'36.3"W (11/04 CG8)

11400	34Ed. 11/17/01 LAST NM 15/04 Change Light to Fl 15s 85ft 24M, Oc(4) 30s 85ft 10M (11/03 CG7)	16/04 27°36.0'N 82°45.6'W	★11488 24Ed. 5/26/01 LAST NM 50/03 Change Note to "ST. JOHNS RIVER The project depth is 30-42 feet to Jacksonville. The depths and channel markers are not shown hereon, use chart 11491." (NOS)	16/04 30°22'24"N 81°30'00"W
11411	14Ed. 8/02 LAST NM 15/04 (Side A) Change Light to Fl 15s 85ft 24M, Oc(4) 30s 85ft 10M (11/03 CG7)	16/04 27°36'03"N 82°45'38"W	11489 34Ed. 12/02 LAST NM 14/04 (Side A) Relocate Light "249" from 31°08'21"N 81°25'14"W to (8/04 CG7)	16/04 31°08'15"N 81°24'58"W
11412	41Ed. 8/02 LAST NM 15/04 Change Range light, rear to Iso 6s 62ft, Fl 4s 23ft 5M Light to Fl 15s 85ft 24M, Oc(4) 30s 85ft 10M (Supersedes 20/03-11412) (11/03, 11/04 CG7)	16/04 27°45'04"N 82°34'20"W 27°36'03"N 82°45'38"W	11502 28Ed. 6/2/01 LAST NM 14/04 Relocate Light "249" from 31°08'21"N 81°25'14"W to (8/04 CG7)	16/04 31°08'15"N 81°24'58"W
★11415	6Ed. 11/03 LAST NM 15/04 Change Light to Fl 15s 85ft 24M, Oc(4) 30s 85ft 10M (11/03 CG7)	16/04 27°36'03"N 82°45'38"W	11505 1Ed. 9/23/00 LAST NM 14/04 Add Tabulation of controlling depths from Subsection I-2 (NOS)	16/04
★11416	6Ed. 1/04 LAST NM 15/04 Change Range light, rear to Iso 6s 62ft, Fl 4s 23ft 5M (11/04 CG7)	16/04 27°45'03"N 82°34'20"W	★11506 40Ed. 1/03 LAST NM 14/04 Relocate Light "249" from 31°08'21"N 81°25'14"W to 31°08'15"N 81°24'58"W Add Tabulation of controlling depths from Subsection I-2 (NOS; 8/04 CG7)	16/04
★11420	27Ed. 3/03 LAST NM 52/03 Delete Depth 18 fathoms	16/04 27°06.1'N 83°03.8'W	11507 31Ed. 12/02 LAST NM 20/03 (Side A) Relocate Light "B" from 32°05'09"N 80°59'07"W to (34/03 CG7)	16/04 32°05'08"N 80°59'06"W
	Change Light to Fl 15s 85ft 24M, Oc(4) 30s 85ft 10M 27°36.0'N 82°45.6'W			
	Add Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7 1/2fms)" 27°15.9'N 83°07.3'W Danger circle [K46.2] "Obstns (Fish Haven) (auth min 7 1/2fms)" 27°15.5'N 83°07.1'W Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7 1/2fms)" 27°15.6'N 83°07.4'W Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7 1/2fms)" 27°06.2'N 83°03.2'W (NOS; 11/03 CG7)			
11423	7Ed. 8/10/96 LAST NM N52/03 Delete Depth 18 fathoms	N16/04 27°06.2'N 83°03.7'W	★11512 59Ed. 1/03 LAST NM 14/04 Relocate Light "B" from 32°05'10"N 80°59'07"W to 32°05'08"N 80°59'06"W Add Tabulation of controlling depths from Subsection I-2 (NOS; 34/03 CG7)	16/04
	Change Light to Fl 15s 85ft 24M, Oc(4) 30s 85ft 10M 27°36.0'N 82°45.6'W			
	Add Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7 1/2fms)" 27°15.9'N 83°07.3'W Danger circle [K46.2] "Obstns (Fish Haven) (auth min 7 1/2fms)" 27°15.5'N 83°07.1'W Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7 1/2fms)" 27°15.6'N 83°07.4'W Danger circle [K46.2] "Obstn (Fish Haven) (auth min 7 1/2fms)" 27°06.2'N 83°03.2'W (NOS; 11/03 CG7)			
11427	33Ed. 10/02 LAST NM 15/04 (Side B) Delete Range light, front	16/04 26°42'15"N 82°17'38"W (11/03 CG7)	11514 26Ed. 7/02 LAST NM 14/04 (Side A) Add Tabulation of controlling depths from Subsection I-2 (NOS)	16/04
11467	38Ed. 10/03 LAST NM 14/04 (Side A, Inset 1) Add Light Fl 4s 16ft 3M (11/04 CG7)	16/04 26°05'41"N 80°06'41"W 26°05'33"N 80°06'41"W	★11524 46Ed. 12/02 LAST NM 15/04 Relocate Buoy "63" from 32°54'29.7"N 79°56'46.7"W to 32°54'31.0"N 79°56'34.3"W Add Buoy "48A" R, QR (33, 48/03 CG7)	16/04 32°50'40.0"N 79°55'37.0"W
★11468	40Ed. 1/04 NEW EDITION (NOS)	16/04	11527 16Ed. 1/13/01 LAST NM 15/04 Relocate Buoy "63" from 32°54'29.3"N 79°56'46.8"W to 32°54'31.0"N 79°56'34.3"W (48/03 CG7)	16/04
★11470	36Ed. 1/03 LAST NM 40/03 Add Light Fl 4s 16ft 3M (11/04 CG7)	16/04 26°05'40.9"N 80°06'41.0"W 26°05'33.4"N 80°06'40.9"W	★11545 61Ed. 2/04 NEW EDITION (NOS)	16/04
★11547	36Ed. 2/04 NEW EDITION (NOS)	16/04	★11547 36Ed. 2/04 NEW EDITION (NOS)	16/04
★12200	47Ed. 8/02 LAST NM 6/04 Add Depth 60 fathoms "Rep" [I4] Depth 93 fathoms "Rep" [I4] Depth 90 fathoms "Rep" [I4] (NTM0001/2004)	16/04 38°09.1'N 73°35.3'W 38°06.6'N 73°35.2'W 37°56.0'N 73°52.5'W		

SECTION I

NM 16/04

12201	25Ed. 7/17/99 LAST NM N7/04 Add Depth 60 fathoms "Rep" [I4] Depth 93 fathoms "Rep" [I4] Depth 90 fathoms "Rep" [I4] (NTM0001/2004)	16/04 38°09.1'N 73°35.3'W 38°06.6'N 73°35.2'W 37°56.0'N 73°52.5'W	★14962 20Ed. 2/04 NEW EDITION (NOS)	16/04
★12228	30Ed. 2/04 NEW EDITION (NOS)	16/04	★14982 9Ed. 2/04 NEW EDITION (NOS)	16/04
★12233	36Ed. 1/04 NEW EDITION (NOS)	16/04	★14993 12Ed. 1/04 NEW EDITION (NOS)	16/04
★12252	23Ed. 5/12/01 LAST NM 49/03 Relocate Buoy "172" from 37°29'46.0"N to 37°29'44.4"N 77°25'24.1"W 77°25'23.8"W (8/04 CG5)	16/04	★16501 7Ed. 1/04 NEW EDITION (NOS)	16/04
★12254	44Ed. 2/04 NEW EDITION (NOS)	16/04	★16517 6Ed. 1/04 NEW EDITION (NOS)	16/04
★12281	49Ed. 5/13/00 LAST NM 1/04 Delete Depth 35 feet Obstn (PA) (NOS)	16/04 39°16'07.8"N 76°34'21.6"W	★16522 6Ed. 2/04 NEW EDITION (NOS)	16/04
★12311	42Ed. 8/03 LAST NM 10/04 Add Danger circle "Anchor Rep (2004)" (NOS; 8/04 CG5)	16/04 39°30'36"N 75°32'36"W Tabulation of controlling depths from Subsection I-2	★16591 9Ed. 1/04 NEW EDITION (NOS)	16/04
★12312	52Ed. 1/03 LAST NM 10/04 Change Legend to "31 1/2 FT OCT 2003" (NOS)	16/04 39°53'02"N 75°11'46"W Add Tabulation of controlling depths from Subsection I-2	★16741 10Ed. 1/04 NEW EDITION 17375 20Ed. 2/18/95 LAST NM 50/03 Change Note to	16/04
13003	47Ed. 6/03 LAST NM 6/04 Add Depth 60 fathoms "Rep" [I4] Depth 93 fathoms "Rep" [I4] Depth 90 fathoms "Rep" [I4] (NTM0001/2004)	16/04 38°09.1'N 73°35.3'W 38°06.6'N 73°35.2'W 37°56.0'N 73°52.5'W	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	
13006	31Ed. 6/03 LAST NM 6/04 Change Legend to "Disposal Area" (NOS)	16/04 43°16.7'N 70°29.0'W	Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zarembo I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Wrangell, AK WXJ-83 162.40 MHz"	
13009	30Ed. 8/02 LAST NM 6/04 Change Legend to "Disposal Area" (NOS)	16/04 43°17.2'N 70°30.5'W	56°32'30"N 132°55'00"W	
★13223	37Ed. 1/04 NEW EDITION (NOS)	16/04	17376 6Ed. 8/18/90 LAST NM 52/00 Change Note to	16/04
13260	39Ed. 6/03 LAST NM 45/03 Change Legend to "Disposal Area (Depths from survey of 1946)" (NOS)	16/04 43°17.8'N 70°24.5'W	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	
★13286	29Ed. 7/02 LAST NM 9/03 Change Legend to "Disposal Area (Depths from survey of 1946)" (NOS)	16/04 43°17'48"N 70°26'18"W	Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zarembo I, AK KZZ-91 162.450 MHz"	
14003	6Ed. 4/27/96 LAST NM 6/04 Add Depth 60 fathoms "Rep" [I4] Depth 93 fathoms "Rep" [I4] Depth 90 fathoms "Rep" [I4] (NTM0001/2004)	16/04 38°09.1'N 73°35.3'W 38°06.6'N 73°35.2'W 37°56.0'N 73°52.5'W	56°18'00"N 134°01'00"W	
★14846	12Ed. 11/03 NEW EDITION (NOS)	16/04	17377 1Ed. 1/9/99 LAST NM 11/99 Change Note to	16/04
			"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	
			Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zarembo I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Wrangell, AK WXJ-83 162.40 MHz"	
			56°42'54"N 132°46'00"W	
		(NOS)		

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17378	13Ed. 5/5/90	LAST NM 10/04	16/04	★17383	1Ed. 6/02	LAST NM 8/03	16/04
Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.		Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	
Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Wrangell, AK WXJ-83 162.40 MHz"	(NOS)	56°18'55"N 133°35'00"W		Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Wrangell, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz"	(NOS)	56°18'15"N 132°51'30"W	
17379	1Ed. 1/12/02	LAST NM 20/02	16/04	Add	Position circle [E29] "R Tr"	56°20'43"N 132°51'41"W	
Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.		Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	
Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Wrangell I, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz"	(NOS)	56°08'15"N 133°30'30"W		Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Wrangell, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz Ketchikan, AK WXJ-26 162.55 MHz"	(NOS)	56°02'00"N 131°35'00"W	
17381	10Ed. 1/12/02	LAST NM 13/02	16/04	17385	14Ed. 2/03	LAST NM 13/04	16/04
Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.		Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	
Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Wrangell, AK WXJ-83 162.40 MHz"	(NOS)	56°16'20"N 133°18'10"W		Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Wrangell, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz Ketchikan, AK WXJ-26 162.55 MHz"	(NOS)	56°02'00"N 131°35'00"W	
17382	15Ed. 3/03	LAST NM 13/04	16/04	17386	3Ed. 5/12/01	LAST NM 35/01	16/04
Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.		Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	
Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Wrangell, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz"	(NOS)	56°05'30"N 133°14'00"W		Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz"	(NOS)	56°04'09"N 134°09'00"W	
				Add	Position circle [E29] "R Tr"	56°04'09"N 134°11'31"W	
				17387	13Ed. 1/20/01	LAST NM 17/01	16/04
				Change	Note to	"NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	
				Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Mt. McArthur, AK KZZ-95 162.525 MHz Wrangell, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz"	(NOS)	56°04'55"N 133°27'30"W	

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17400 16Ed. 6/2/01 LAST NM 14/04 Change Note to "NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations. Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Wrangell, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz Ketchikan, AK WXJ-26 162.55 MHz" (See 14/04-17400) 55°57.0'N 132°27.0'W	16/04	17404 12Ed. 6/24/00 LAST NM 35/00 Change Note to "NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations. Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Craig, AK KXI-80 162.475 MHz" (NOS) 55°46'20"N 133°26'22"W	16/04
17401 10Ed. 9/4/99 LAST NM 13/04 Change Note to "NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations. Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Wrangell, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz" (NOS) 56°00'25"N 132°52'20"W	16/04	17405 14Ed. 10/28/00 LAST NM 46/03 Change Note to "NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations. Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Craig, AK KXI-80 162.475 MHz Ketchikan, AK WXJ-26 162.55 MHz" (NOS) 55°29'53"N 133°06'52"W	16/04
17402 10Ed. 8/02 LAST NM 46/02 Change Note to "NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations. Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Craig, AK KXI-80 162.475 MHz" (NOS) 56°02'00"N 133°42'14"W	16/04	17406 6Ed. 2/10/90 LAST NM 25/03 Change Note to "NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations. Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Craig, AK KXI-80 162.475 MHz" (NOS) 55°30'45"N 133°22'00"W	16/04
17403 13Ed. 10/6/01 LAST NM 52/01 Change Note to "NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations. Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Cape Fanshaw, AK KZZ-88 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Wrangell, AK WXJ-83 162.40 MHz Craig, AK KXI-80 162.475 MHz" (NOS) 55°49'30"N 133°06'30"W	16/04	17408 7Ed. 11/18/89 LAST NM 13/96 Change Note to "NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations. Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Craig, AK KXI-80 162.475 MHz" (NOS) 55°06'10"N 132°50'00"W	16/04

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17409	10Ed. 7/02 LAST NM 44/03 Change Note in right upper margin of chart to “NOTE NOAA WEATHER RADIO BROADCASTS The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.	16/04	18652	32Ed. 7/03 LAST NM 11/04 (Page B, Inset 2) Relocate Light “2” from 37°33'11"N 122°11'50"W to 37°33'10"N 122°11'48"W	16/04
	Mt. McArthur, AK KZZ-95 162.525 MHz Sukkwan I, AK KZZ-89 162.425 MHz Zaremba I, AK KZZ-91 162.450 MHz Gravina I, AK KZZ-96 162.525 MHz Duke I, AK KZZ-92 162.450 MHz Craig, AK KXI-80 162.475 MHz Ketchikan, AK WXJ-26 162.55 MHz (NOS)		Relocate Light “4” from 37°54'22"N 122°24'04"W to 37°54'24"N 122°24'03"W Light “8” from 37°54'18"N 122°23'05"W to 37°54'16"N 122°23'06"W Light “10” from 37°54'13"N 122°22'32"W to 37°54'12"N 122°22'34"W Range light, front “14” from 37°54'09"N 122°21'40"W to 37°54'09"N 122°21'37"W Note: Range bearing unchanged (4/04 CG11)		(Page B, Inset 5) Relocate Light “4” from 37°54'21.7"N 122°24'03.7"W to 37°54'23.7"N 122°24'03.4"W Light “10” from 37°54'13.4"N 122°22'32.4"W to 37°54'12.1"N 122°22'33.6"W Buoy “15” from 37°56'15.2"N 122°26'46.3"W to 37°56'14.3"N 122°26'47.8"W Range light, front “14” from 37°54'08.8"N 122°21'39.8"W to 37°54'08.7"N 122°21'36.7"W Note: Range bearing unchanged (4/04 CG11)
18007	31Ed. 3/31/01 LAST NM 7/04 Delete Light 41°50.2'N 124°22.5'W (Supersedes 5/04-18007) (9/04 CG11)	16/04	★18653	9Ed. 9/30/00 LAST NM 50/03 Relocate Light “4” from 37°54'21.7"N 122°24'03.7"W to 37°54'23.7"N 122°24'03.4"W Light “10” from 37°54'13.4"N 122°22'32.4"W to 37°54'12.1"N 122°22'33.6"W Buoy “15” from 37°56'15.2"N 122°26'46.3"W to 37°56'14.3"N 122°26'47.8"W Range light, front “14” from 37°54'08.8"N 122°21'39.8"W to 37°54'08.7"N 122°21'36.7"W Note: Range bearing unchanged (4/04 CG11)	16/04
18008	7Ed. 10/12/96 LAST NM N7/04 Delete Light 41°50.2'N 124°22.5'W (Note: Position circle “TR” remains) (Supersedes N5/04-18008) (9/04 CG11)	N16/04	18761	2Ed. 5/27/95 LAST NM N1/04 Delete Buoy “A” (9/04 CG11)	N16/04
18010	20Ed. 2/10/01 LAST NM 7/04 Delete Light 41°50.2'N 124°22.5'W (Note: Position circle “TR” remains) (Supersedes 5/04-18010) (9/04 CG11)	16/04	18762	15Ed. 6/6/98 LAST NM 1/04 Delete Buoy 33°01'36"N 118°33'45"W (9/04 CG11)	16/04
★18443	16Ed. 1/04 NEW EDITION (NOS)	16/04	18765	15Ed. 2/16/02 LAST NM 7/04 Add Depth 9 fathoms 4 feet Depth 8 fathoms 5 feet Depth 11 fathoms (NOS)	16/04
18600	14Ed. 1/26/02 LAST NM 5/04 Delete Light 41°50.2'N 124°22.5'W (Note: Position circle “TR” remains) (Supersedes 5/04-18600) (9/04 CG11)	16/04	18775	2Ed. 7/23/88 LAST NM N1/04 Delete Buoy “A” (9/04 CG11)	N16/04
★18603	16Ed. 12/02 LAST NM 5/04 Delete Light 41°50'14"N 124°22'32"W (Note: Position circle “TOWER” remains) (Supersedes 5/04-18603) (9/04 CG11)	16/04	19002	9Ed. 3/1/97 LAST NM N12/04 Change Visibility (range) of light to 23M (10/04 CG14)	N16/04
18649	63Ed. 9/03 LAST NM 11/04 Relocate Light “4” from 37°54'21.7"N 122°24'03.7"W to 37°54'23.7"N 122°24'03.4"W Light “10” from 37°54'13.4"N 122°22'32.4"W to 37°54'12.1"N 122°22'33.6"W Range light, front “14” from 37°54'08.8"N 122°21'39.8"W to 37°54'08.7"N 122°21'36.7"W Note: Range bearing unchanged (4/04 CG11)	16/04	19004	36Ed. 8/25/01 LAST NM 12/04 Change Light to Fl 10s 174ft 23M (10/04 CG14)	16/04
★18651	42Ed. 2/03 LAST NM 48/03 Relocate Buoy “10” from 37°35'05.5"N 122°15'15.1"W to 37°35'01.8"N 122°15'13.8"W Light “2” from 37°33'10.5"N 122°11'49.6"W to 37°33'10.4"N 122°11'47.5"W Light “17” from 37°28'44.2"N 122°04'35.0"W to 37°28'43.5"N 122°04'37.3"W (Inset Redwood Creek) Relocate Light “2” from 37°33'10.5"N 122°11'49.6"W to 37°33'10.4"N 122°11'47.5"W Light “5” from 37°32'26.2"N 122°11'34.0"W to 37°32'25.7"N 122°11'33.7"W (4/04 CG11)	16/04	19007	16Ed. 2/12/94 LAST NM 12/04 Change Visibility (range) of light to 23M (10/04 CG14)	16/04
			19008	4Ed. 11/3/84 LAST NM 12/04 Change Light to Fl 10s 174ft 23M (10/04 CG14)	16/04
			19009	4Ed. 2/16/85 LAST NM 12/04 Change Light to Fl 10s 174ft 23M (10/04 CG14)	16/04
			19013	16Ed. 1/25/97 LAST NM 12/04 Change Light to Fl 10s 174ft 23M (10/04 CG14)	16/04
			19379	1Ed. 8/16/97 LAST NM N13/04 Change Light to Fl 10s 174ft 23M (10/04 CG14)	N16/04
					22°13.9'N 159°24.1'W

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19380	15Ed. 10/03 LAST NM 12/04 Change Light to Fl 10s 174ft 23M (10/04 CG14)	16/04 22°13.9'N 159°24.1'W	★28196	4Ed. 3/27/99 LAST NM 18/03 Add Pilot station symbol [T1.1] Position circle "F P" [E27] (NTM0003/2004)	16/04 20°31'15"N 87°01'17"W 20°30'38"N 86°57'02"W
19381	8Ed. 7/17/93 LAST NM 12/04 Change Light to Fl 10s 174ft 23M (10/04 CG14)	16/04 22°13'53"N 159°24'07"W	★28197	4Ed. 5/2/98 LAST NM 18/03 Add Land tint to area enclosed by existing pier face and solid line joining	16/04 20°28'36.4"N 86°58'38.8"W 20°28'46.9"N 86°58'39.1"W 20°28'46.9"N 86°58'38.7"W
★19385	8Ed. 10/03 LAST NM 3/04 Change Visibility (range) of light to 23M (10/04 CG14)	16/04 22°13'53.5"N 159°24'06.9"W		Land tint to area enclosed by existing pier face and solid line between	20°28'46.9"N 86°58'36.0"W 20°28'37.5"N 86°58'35.6"W
21582	3Ed. 2/3/96 LAST NM 20/96 Change Visibility (range) of light to 19M (BA LL)	16/04 7°29'14"N 81°15'25"W		Note: Corrects pier heading to 178°-358° Position circle "F P" [E27] (NTM0003/2004)	20°30'38.4"N 86°57'02.4"W
22051	18Ed. 6/3/95 LAST NM 5/04 Add Legend "See chart 22052" (10/04 Bogota)	16/04 3°47'30"N 77°17'00"W	28221	18Ed. 2/21/98 LAST NM 5/03 Delete CAUTION note "Vessels...possible." in lower right corner of chart	16/04
22294	15Ed. 10/12/96 LAST NM 12/03 Add Chartlet, depicting changes in hydrography, topography and aids to navigation, from Subsection I-2 (27(2827)03 Taunton)	16/04 33°35'00"S 71°37'00"W		(Plan A) Delete Purple composite line joining	20°12'25"N 91°59'34"W 20°11'47"N 91°58'34"W 20°10'07"N 91°57'36"W
24171	19Ed. 5/4/96 LAST NM 52/03 Add Chartlet, depicting changes in hydrography, topography and aids to navigation, from Subsection I-2 (13(70)03 Rio de Janeiro)	16/04 20°19'24"S 40°19'00"W		Legend "SEE CAUTION"	20°11'12"N 91°59'06"W
★25647	10Ed. 9/20/97 LAST NM 30/00 Relocate Buoy "JC" from 18°21'28.8"N 64°46'22.5"W to 18°21'28.3"N 64°46'23.3"W	16/04	28260	30Ed. 1/30/99 LAST NM 37/02 Delete Legend "CAUTION NO 1"	16/04 20°08.5'N 92°01.5'W
	Add Buoy "JA" Y, can (Priv)	18°21'48.3"N 64°46'12.2"W		Purple composite line joining	20°07.3'N 92°00.0'W 20°10.7'N 92°00.0'W 20°11.5'N 92°00.5'W 20°12.5'N 91°59.6'W 20°11.9'N 91°58.6'W 20°09.8'N 91°57.4'W 20°07.3'N 91°57.6'W
	Buoy "JB" Y, can, Fl Y 6s (Priv)	18°21'34.1"N 64°46'16.0"W		Legend "CAUTION NO 1"	19°28.0'N 92°10.8'W
	Buoy "JD" Y, can, Fl Y 2.5s (Priv)	18°21'30.3"N 64°46'35.3"W		Purple composite line joining	19°12.6'N 92°17.1'W 19°23.0'N 92°22.2'W 19°38.3'N 92°14.0'W 19°38.3'N 92°10.8'W 19°35.3'N 92°04.9'W 19°24.4'N 91°59.1'W 19°20.2'N 91°59.1'W 19°15.6'N 92°08.2'W
	Buoy "JE" Y, can (Priv) (16/03 CG7)	18°21'37.0"N 64°46'36.0"W		Substitute Cautions note for same from Subsection I-2 18°48.0'N 90°51.0'W	
26081	8Ed. 5/11/85 LAST NM 43/03 Add Buoy (mooring) [Q40]	16/04 12°35'40.9"N 81°43'03.8'W		Change Legend to "Gas CAUTION NO 3" Legend to "Gas CAUTION NO 3"	18°56.5'N 92°10.9'W 18°58.2'N 92°06.3'W
	Buoy (mooring) [Q40]	12°35'25.2"N 81°42'51.4'W		Add "PRECAUTIONARY AREA R CAUTION NO 1" [N1.2] bound by purple dashed-line greater arc of a circle, radius 12 miles, centered 20°12.0'N 91°57.5'W	
	Buoy (mooring) [Q40]	12°33'23.8"N 81°44'17.2'W		Note: Area extends beyond chart border	
	Buoy (mooring) [Q40]	12°33'16.7"N 81°44'15.9'W		"EXCLUSIONARY AREA E-2 CAUTION NO 2" [N2.1] bound by purple composite line joining	
	Buoy (mooring) [Q40]	12°32'39.7"N 81°44'06.5'W		20°07.0'N 92°03.0'W 20°15.0'N 92°03.0'W 20°15.0'N 91°52.0'W 20°07.0'N 91°52.0'W	
	Buoy (mooring) [Q40]	12°32'14.0"N 81°44'04.8'W		Purple dashed line joining	18°50.0'N 92°50.0'W 20°00.0'N 92°50.0'W 20°00.0'N 91°40.0'W 18°50.0'N 91°40.0'W
	Buoy (mooring) [Q40]	12°30'50.6"N 81°43'55.4'W		Legend "PRECAUTIONARY AREA M CAUTION NO 1"	19°58.7'N 91°44.6'W
	Buoy (mooring) [Q40]	12°30'29.2"N 81°43'55.7'W		Legend "PRECAUTIONARY AREA M CAUTION NO 1"	18°50.7'N 92°45.5'W
	Buoy (mooring) [Q40]	12°30'12.6"N 81°43'58.0'W			(continued on next page)
	Buoy (mooring) [Q40]	12°29'44.4"N 81°44'15.1'W			
	Buoy (mooring) [Q40]	12°29'22.5"N 81°43'00.7'W			
	Buoy (mooring) [Q40]	12°29'54.7"N 81°42'51.7'W			
	Buoy (mooring) [Q40]	12°30'08.9"N 81°42'32.7'W			
27120	4Ed. 7/3/99 LAST NM 44/02 Add Pilot station symbol [T1.1] (NTM0003/2004)	16/04 20°31.3'N 87°01.3'W			
28167	4Ed. 1/21/84 LAST NM 36/98 Add Beacon RW [Q81] (NTM0003/2004)	16/04 17°25'48"N 88°11'48"W			
28168	22Ed. 6/1/96 LAST NM 38/98 Add Beacon RW [Q81] (NTM0003/2004)	16/04 17°25'48"N 88°11'48"W			
28190	2Ed. 6/5/99 LAST NM 18/03 Add Pilot station symbol [T1.1] (NTM0003/2004)	16/04 20°31.3'N 87°01.3'W			

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28260	(Continued)			
	Purple composite line joining			
		18°53.0'N 92°44.0'W 19°05.0'N 92°44.0'W 19°05.0'N 92°40.0'W 19°13.0'N 92°40.0'W 19°13.0'N 92°26.0'W 19°45.0'N 92°26.0'W 19°45.0'N 91°53.0'W 19°00.0'N 91°53.0'W 19°00.0'N 92°26.0'W 18°53.0'N 92°35.0'W		
	Legend "EXCLUSIONARY AREA E-1 CAUTION NO 2"	19°44.1'N 91°58.7'W		
	Legend "EXCLUSIONARY AREA E-1 CAUTION NO 2"	18°53.9'N 92°40.0'W		
	"EXCLUSIONARY AREA E-3 CAUTION NO 2" [N2.1] bound by purple composite-line circle, radius 3 miles, centered	18°37.5'N 93°10.2'W		
	Note: None of the above precautionary or exclusionary areas affect existing anchoring prohibited areas [N20]			
	Legend "NOTE NO 1" Legend "NOTE NO 1"	18°48.8'N 92°00.5'W 18°50.5'N 91°52.0'W		
	(2/04 Mexico, D.F.)			
28263	3Ed. 10/22/94 LAST NM 37/02	16/04		
Add	"PRECAUTIONARY AREA M CAUTION NO 5" [N1.2] bound by purple dashed line joining	18°50'00"N 92°00'00"W 18°50'00"N 91°40'00"W 18°56'37"N 91°40'00"W		
	Note: Area extends beyond chart border			
	Caution No. 5 to CAUTIONS note "5. Within Precautionary Area "M" no activities are allowed except: those involving petroleum exploration and exploitation; and the rapid, uninterrupted transit of fishing vessels enroute fishing grounds outside this area."			
	(2/04 Mexico, D.F.)	18°26'22"N 91°26'06"W		
28300	1Ed. 12/7/91 LAST NM 50/02	16/04		
Change	Line 6 of CAUTION note to "be exercised in navigating and anchoring. See larger scale charts, particularly 28260, for additional information on precautionary and exclusionary areas."	19°07.0'N 88°59.0'W		
	(2/04 Mexico, D.F.)			
35101	6Ed. 12/28/96 LAST NM 41/02	16/04		
Delete	Buoy (6/575)04 Taunton)	57°53'00"N 3°47'07"W		
35120	13Ed. 10/28/95 LAST NM 30/03	16/04		
Delete	Buoy (6/575)04 Taunton)	57°53'00"N 3°47'06"W		
37221	13Ed. 2/3/96 LAST NM 11/04	16/04		
Delete	Radio reporting point symbol Radio reporting point symbol Radio reporting point symbol Radio reporting point symbol	53°35.2'N 6°15.0'E 53°37.2'N 6°21.3'E 53°39.2'N 6°26.3'E 53°42.5'N 6°36.5'E		
	(30(22)03 Hamburg)			
37222	13Ed. 11/1/97 LAST NM 52/03	16/04		
Delete	Radio reporting point symbol Radio reporting point symbol Radio reporting point symbol Radio reporting point symbol	53°34'50"N 6°15'48"E 53°37'00"N 6°22'23"E 53°39'08"N 6°26'42"E 53°42'06"N 6°35'36"E		
	(30(21)03 Hamburg)			
37223	14Ed. 9/2/95 LAST NM 11/04	16/04		
Delete	Radio reporting point symbol Radio reporting point symbol Radio reporting point symbol Radio reporting point symbol	53°35.4'N 6°15.8'E 53°37.1'N 6°20.8'E 53°39.5'N 6°26.3'E 53°41.5'N 6°36.5'E		
	(30(22)03 Hamburg)			
37224	11Ed. 9/18/99 LAST NM 37/03	16/04		
Delete	Radio reporting point symbol Radio reporting point symbol Radio reporting point symbol	53°27'10"N 6°52'43"E 53°24'26"N 6°56'35"E 53°19'46"N 7°05'55"E		
Add	Radio reporting point symbol [M40] with direction pointers 270°-090°	53°19'52"N 7°12'33"E		
	(30(21)03 Hamburg)			
42004	1Ed. 9/7/02 LAST NM N13/04	N16/04		
	Substitute Racon for RC at light (22(986)02 Stavanger)	71°03.6'N 26°13.3'E		
42038	2Ed. 6/7/97 LAST NM 43/03	16/04		
Delete	Light (14(632)02 Stavanger)	77°00.4'N 15°24.2'E		
42040	3Ed. 11/9/96 LAST NM 3/98	16/04		
Delete	Light (14(632)02 Stavanger)	77°00.2'N 15°26.1'E		
42046	3Ed. 1/4/97 LAST NM 3/98	16/04		
Delete	Depth 270 meters	80°41'N 27°56'E		
Add	Depth 4 meters, blue tint and enclosing depth contour (10-meter) centered	80°01'N 16°44'E		
	Depth 43 meters enclosed by depth contour (50-meter)	80°56'N 17°15'E		
	Depth 52 meters (13(585)02 Stavanger)	80°42'N 27°58'E		
42052	2Ed. 6/28/97 LAST NM 3/98	16/04		
Add	Depth 4 meters, blue tint and enclosing depth contour (10-meter) centered	80°01.0'N 16°44.0'E		
	(13(585)02 Stavanger)			
43000	4Ed. 9/9/95 LAST NM 9/03	16/04		
Delete	R Bn at light (22(986)02 Stavanger)	71°04'N 26°13'E		
43030	24Ed. 4/5/97 LAST NM 14/04	16/04		
Add	Wreck Wreck	57°15.1'N 11°37.1'E 57°16.7'N 11°35.7'E		
	Swept depth 9.5 meters Wk [K27] Swept depth 14.9 meters Wk [K27]	54°38.6'N 13°12.1'E 54°40.5'N 13°15.1'E		
	(48(1548)03 Norrkoping; 30(16)03 Hamburg)			
43040	6Ed. 8/5/95 LAST NM 2/04	16/04		
Add	Purple tint area (traffic separation zone) bound by limit joining	70°49.4'N 30°24.8'E 70°50.3'N 30°26.4'E 70°51.9'N 30°18.7'E 70°51.0'N 30°17.1'E		
	Purple heavy dashed line (inside limit of traffic lane) between	70°48.2'N 30°22.4'E 70°49.8'N 30°14.6'E		
	Purple heavy dashed line (outside limit of traffic lane) between	70°51.6'N 30°28.8'E 70°53.2'N 30°21.1'E		
	Purple open-outlined dashed arrow indicating recommended flow of traffic [M11] oriented 123°	70°49.6'N 30°19.5'E		
	Purple open-outlined dashed arrow indicating recommended flow of traffic [M11] oriented 303°	70°51.7'N 30°23.5'E		
	Danger circle [K40] "Obstn (Marine farm)"	69°46.0'N 30°24.7'E		
	Depth 9.5 meters, blue tint and enclosing depth contour (10-meter) centered	69°46.9'N 30°02.0'E		
	Depth 3.4 meters, blue tint and enclosing depth contour (10-meter) centered	69°44.7'N 29°51.6'E		
	(Plan A) Buoy BY, spar, double cone topmark points upward	70°23'01"N 31°07'06"E		

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NM 16/04

43040 (Continued)

Submarine cable [L30.1] joining 70°22'51"N 31°07'00"E
 70°22'54"N 31°06'52"E
 70°23'03"N 31°06'54"E
 70°23'04"N 31°07'15"E
 70°23'04"N 31°08'59"E

(18(779)99, 18(763)00, 2(112), 13(619)03, 1(52)04 Stavanger)

43041 2Ed. 10/23/82 LAST NM 6/01 16/04

Add Danger circle [K40] "Obstn (Marine farm)"
 69°54'07"N 29°40'50"E
 Danger circle [K40] "Obstn (Marine farm)"
 69°53'54"N 29°44'31"E

(13(619)03 Stavanger)

43058 3Ed. 2/7/98 LAST NM 20/03 16/04

Delete RC at light 71°03'41"N 26°13'22"E
 Buoy 71°00'06"N 26°07'12"E

Change Sectors of light between 145° and 190° to
 white 145°-152°30', obsc-156°, white-157°,
 green-190° 70°58'38"N 25°57'59"E

Add Depth 9.7 meters enclosed by depth contour
 (10-meter) 70°58'04"N 26°00'56"E
 Depth 17 meters enclosed by depth contour
 (20-meter) 71°05'46"N 26°04'55"E

(18(779)01, 22(986)02, 2(111)03, 3(126)04 Stavanger)

43059 3Ed. 9/6/97 LAST NM 20/03 16/04

Change Sectors of light between 145° and 190° to
 white 145°-152°30', obsc-156°, white-157°,
 green-190° 70°58'35"N 25°58'10"E

Add Depth 9.7 meters enclosed by depth contour
 (10-meter) 70°58'04"N 26°00'56"E

(Plan)

Add Light Iso G 2s 70°59'23.0"N 25°57'47.5"E
 (18(779)01, 2(111), 19(862)03 Stavanger)

43060 4Ed. 11/4/95 LAST NM 27/03 16/04

Delete R Bn at light 71°03.6'N 26°13.1'E
 Beacon 70°34.6'N 26°57.1'E

Add Purple tint area (traffic separation zone) bound
 by limit joining 71°13.0'N 28°31.9'E
 71°13.8'N 28°33.5'E
 71°15.4'N 28°25.8'E
 71°14.6'N 28°24.1'E

Purple tint area (traffic separation zone) bound
 by limit joining 71°15.3'N 28°16.2'E
 71°16.3'N 28°16.8'E
 71°16.9'N 28°07.8'E
 71°15.9'N 28°07.2'E

Purple tint area (traffic separation zone) bound
 by limit joining 71°17.1'N 27°47.7'E
 71°18.1'N 27°48.3'E
 71°18.3'N 27°43.8'E
 71°18.4'N 27°39.5'E
 71°17.5'N 27°39.2'E
 71°17.4'N 27°43.5'E

Purple tint area (traffic separation zone) bound
 by limit joining 71°20.3'N 25°51.4'E
 71°21.3'N 25°51.6'E
 71°21.6'N 25°42.4'E
 71°20.6'N 25°42.1'E

Purple heavy dashed line (inside limit of traffic
 lane) between 71°11.7'N 28°29.4'E
 71°13.3'N 28°21.6'E

Purple heavy dashed line (outside limit of
 traffic lane) between 71°15.0'N 28°36.1'E
 71°16.6'N 28°28.4'E

Purple open-outlined dashed arrow indicating
 recommended flow of traffic [M11] oriented
 123° 71°13.2'N 28°26.2'E

Purple open-outlined dashed arrow indicating
 recommended flow of traffic [M11] oriented
 303° 71°15.1'N 28°31.0'E

Purple heavy dashed line (inside limit of traffic
 lane) between

71°13.9'N 28°15.3'E

71°14.4'N 28°06.2'E

Purple heavy dashed line (outside limit of
 traffic lane) between

71°17.8'N 28°17.8'E

71°18.4'N 28°08.6'E

Purple open-outlined dashed arrow indicating
 recommended flow of traffic [M11] oriented
 101°

71°14.8'N 28°11.9'E

Purple open-outlined dashed arrow indicating
 recommended flow of traffic [M11] oriented
 281°

71°17.2'N 28°13.5'E

Purple heavy dashed line (inside limit of traffic
 lane) joining

71°15.6'N 27°47.0'E

71°15.9'N 27°43.0'E

71°16.0'N 27°38.7'E

Purple heavy dashed line (outside limit of
 traffic lane) joining

71°19.6'N 27°49.2'E

71°19.8'N 27°44.6'E

71°20.0'N 27°39.9'E

Purple open-outlined dashed arrow indicating
 recommended flow of traffic [M11] oriented
 095°

71°16.3'N 27°43.5'E

Purple open-outlined dashed arrow indicating
 recommended flow of traffic [M11] oriented
 275°

71°19.0'N 27°43.9'E

Purple heavy dashed line (inside limit of traffic
 lane) between

71°18.8'N 25°51.0'E

71°19.1'N 25°41.7'E

Purple heavy dashed line (outside limit of
 traffic lane) between

71°22.8'N 25°52.0'E

71°23.1'N 25°42.8'E

Purple open-outlined dashed arrow indicating
 recommended flow of traffic [M11] oriented
 095°

71°19.6'N 25°46.1'E

Purple open-outlined dashed arrow indicating
 recommended flow of traffic [M11] oriented
 275°

71°22.1'N 25°47.2'E

Depth 8.9 meters, blue tint and enclosing depth
 contour (10-meter) centered

70°32.6'N 26°48.9'E

Depth 14 meters, blue tint and enclosing depth
 contour (20-meter) centered

70°29.6'N 26°54.0'E

Depth 16.5 meters, blue tint and enclosing
 depth contour (20-meter) centered

70°28.6'N 26°58.3'E

Depth 17 meters enclosed by depth contour
 (20-meters)

71°05.8'N 26°04.9'E

(22(986)02, 2(112), 22(1027)03, 1(52)04 Stavanger)

43062 2Ed. 6/26/76 LAST NM 6/92 16/04

Delete Beacon 70°34'36"N 26°56'50"E

Add Depth 4 fathoms 5 feet, blue tint and enclosing
 depth contour (10-fathom) centered

70°32.32'N 26°49'00"E

Depth 7 fathoms 3 feet, blue tint and enclosing
 depth contour (10-fathom) centered

70°29'32"N 26°54'06"E

Depth 9 fathoms, blue tint and enclosing
 depth contour (10-fathom) centered

70°28'34"N 26°58'20"E

(2(112), 22(1027)03 Stavanger)

43063 2Ed. 10/16/82 LAST NM 34/99 16/04

Add Danger circle [K40] "Obstn (Marine farm)"

70°22'58"N 25°06'52"E

Danger circle [K40] "Obstn (Marine farm)"

70°23'53"N 25°08'12"E

Danger circle [K40] "Obstn (Marine farm)"

70°24'14"N 25°10'43"E

Danger circle [K40] "Obstn (Marine farm)"

70°23'29"N 25°09'59"E

Danger circle [K40] "Obstn (Marine farm)"

70°29'21"N 25°10'13"E

Danger circle [K40] "Obstn (Marine farm)"

70°29'35"N 25°11'38"E

(18(787)02 Stavanger)

43064 2Ed. 12/25/82 LAST NM 8/93 16/04

Add Danger circle [K40] "Obstn (Marine farm)"

70°08'28"N 25°14'28"E

(continued on next page)

SECTION I

43064	(Continued)	Danger circle [K40] "Obstn (Marine farm)" 70°09'01"N 25°08'36"E Danger circle [K40] "Obstn (Marine farm)" 70°09'44"N 25°09'19"E Danger circle [K40] "Obstn (Marine farm)" 70°10'30"N 25°10'02"E Danger circle [K40] "Obstn (Marine farm)" 70°11'03"N 25°11'15"E Danger circle [K40] "Obstn (Marine farm)" 70°10'49"N 25°16'32"E Danger circle [K40] "Obstn (Marine farm)" 70°12'20"N 25°00'47"E Danger circle [K40] "Obstn (Marine farm)" 70°13'52"N 25°07'00"E Danger circle [K40] "Obstn (Marine farm)" 70°14'40"N 25°23'58"E Danger circle [K40] "Obstn (Marine farm)" 70°15'59"N 25°26'45"E Danger circle [K40] "Obstn (Marine farm)" 70°17'13"N 25°09'12"E Danger circle [K40] "Obstn (Marine farm)" 70°18'01"N 25°11'59"E Danger circle [K40] "Obstn (Marine farm)" 70°22'58"N 25°06'52"E Danger circle [K40] "Obstn (Marine farm)" 70°23'53"N 25°08'12"E Danger circle [K40] "Obstn (Marine farm)" 70°24'14"N 25°10'43"E Danger circle [K40] "Obstn (Marine farm)" 70°23'29"N 25°09'59"E (18(787)02 Stavanger)	Rock awash [K12] (2(111)03 Stavanger)	70°48'28"N 24°15'55"E
43080	4Ed. 12/28/96 LAST NM 44/03 Substitute Depth 9.2 meters for 16 meters Depth 15 meters for 36 meters	16/04 70°12.5"N 23°07.8"E 71°03.0"N 24°36.7"E		
Add	Purple tint area (traffic separation zone) bound by limit joining	71°21.5"N 25°50.0"E 71°21.6"N 25°42.4"E 71°20.6"N 25°42.1"E 71°20.3"N 25°50.0"E		
	Purple heavy dashed line (inside limit of traffic lane) between	71°18.9"N 25°50.0"E 71°19.1"N 25°41.7"E		
	Purple heavy dashed line (outside limit of traffic lane) between	71°22.9"N 25°50.0"E 71°23.1"N 25°42.8"E		
	Purple open-outlined dashed arrow indicating recommended flow of traffic [M11] oriented 095°	71°19.8"N 25°46.5"E		
	Purple open-outlined dashed arrow indicating recommended flow of traffic [M11] oriented 275°	71°22.1"N 25°45.5"E		
	Rock awash [K12]	70°48.5"N 24°15.9"E		
	Depth 8.7 meters enclosed by depth contour (10-meter)	70°11.7"N 22°19.6"E		
	Depth 8.8 meters enclosed by depth contour (10-meter)	70°20.4"N 22°56.5"E		
	Depth 8.2 meters enclosed by depth contour (10-meter)	70°16.1"N 23°10.9"E		
	Depth 7.5 meters enclosed by depth contour (10-meter)	70°19.0"N 23°02.1"E		
	Depth 16 meters enclosed by depth contour (20-meter)	71°04.2"N 25°00.8"E		
	Depth 7.9 meters	70°53.3"N 24°19.0"E		
	Depth 1.7 meters	70°49.3"N 24°15.2"E		
	Depth 5 meters	71°02.5"N 24°12.3"E		
	Depth 7 meters	70°59.4"N 24°11.6"E		
	(2(111)03, 1(52)04 Stavanger)			
43081	4Ed. 6/7/97 LAST NM 11/00 Delete Depth 15 meters	16/04 70°48'28"N 24°16'04"E		
Add	Depth 7.9 meters enclosed by depth contour (10-meter)	70°53'18"N 24°19'12"E		
	Depth 7 meters enclosed by depth contour (10-meter)	70°49'30"N 24°14'38"E		
	Depth 1.7 meters enclosed by depth contour (10-meter)	70°49'20"N 24°15'13"E		
	Depth 4.1 meters enclosed by depth contour (10-meter)	70°48'28"N 24°11'13"E		
43083	4Ed. 9/7/96 LAST NM 34/99 Add Depth 8.7 meters enclosed by depth contour (10-meter) Depth 8.8 meters enclosed by depth contour (10-meter)	16/04 70°11'45"N 22°19'36"E 70°20'23"N 22°56'30"E (2(111)03 Stavanger)		
43084	3Ed. 1/23/99 LAST NM 24/99 Substitute Depth 9.2 meters enclosed by depth contour (10-meter) for 19 meters	16/04 70°12'37"N 23°08'00"E		
	Add Depth 8.7 meters enclosed by depth contour (10-meter)	70°11'46"N 22°19'30"E (2(111)03 Stavanger)		
43321	6Ed. 1/17/98 LAST NM 15/04 Substitute Depth 9.4 meters for 10 meters	16/04 60°20'39"N 5°09'54"E		
	Add Buoy, spar, QR (2(73), 3(120)04 Stavanger)	60°20'14"N 5°11'02"E		
43360	21Ed. 1/4/97 LAST NM 14/04 Add Wreck [K29] Wreck [K29]	16/04 57°15.1'N 11°37.1'E 57°16.7'N 11°35.7'E (48(1548)03 Norrkoping)		
44036	5Ed. 8/31/96 LAST NM 5/04 Add Wreck [K29] Wreck [K29]	16/04 57°15'08"N 11°37'09"E 57°16'40"N 11°35'41"E (48(1548)03 Norrkoping)		
44040	23Ed. 7/20/96 LAST NM 6/04 Add Wreck [K29] Wreck [K29]	16/04 57°15.1'N 11°37.1'E 57°16.7'N 11°35.7'E (48(1548)03 Norrkoping)		
44043	8Ed. 11/30/96 LAST NM 9/04 Add Wreck [K29]	16/04 57°16'40"N 11°35'41"E (48(1548)03 Norrkoping)		
44044	6Ed. 11/9/96 LAST NM 9/04 Add Wreck [K29] Wreck [K29]	16/04 57°15.1'N 11°37.1'E 57°16.7'N 11°35.7'E (48(1548)03 Norrkoping)		
44045	6Ed. 6/8/96 LAST NM 5/04 Add Depth 1 meter	16/04 56°17.8'N 12°47.2'E (48(1553)03 Norrkoping)		
44047	22Ed. 2/8/97 LAST NM 48/03 Add Depth 1 meter	16/04 56°17.8'N 12°47.2'E (48(1553)03 Norrkoping)		
44048	11Ed. 3/9/96 LAST NM 13/04 Add Depth 1 meter	16/04 56°17'48"N 12°47'12"E (48(1553)03 Norrkoping)		
44081	9Ed. 3/16/96 LAST NM 15/04 Add Swept depth 9.1 meters Wk [K27]	16/04 54°40'52"N 13°19'31"E Swept depth 14.9 meters Wk [K27]		
	(30(16)03 Hamburg)	54°40'33"N 13°15'04"E		
44100	7Ed. 3/9/96 LAST NM 15/04 Add Swept depth 9.5 meters Wk [K27] Swept depth 14.9 meters Wk [K27]	16/04 54°38.6'N 13°12.1'E 54°40.5'N 13°15.1'E (30(16)03 Hamburg)		
44161	2Ed. 6/8/96 LAST NM 9/04 (Panel B) Add Depth 7.8 meters Rk [K14.2]	16/04 56°39'00.3"N 16°22'22.2"E (continued on next page)		

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NM 16/04

44161 (Continued) (Plan Kalmar) Substitute Depth 7.8 meters Rk [K14.2] for swept depth 7.9 meters (44(1494)03 Norrkoping)	Add "Foul Ground" area bound by dashed line joining 18°56'51.6"N 72°53'14.7"E 18°56'51.6"N 72°53'44.7"E 18°57'26.4"N 72°53'44.7"E 18°57'26.4"N 72°53'14.7"E (23(420)03 Dehra Dun)
44178 2Ed. 4/13/96 LAST NM 2/04 Relocate Buoy from 58°47'26"N 17°50'22"E to 58°47'24"N 17°50'29"E Change Characteristic of light to Iso WRG 4s 58°53'46"N 17°57'34"E (38(1408), 48(1517)03 Norrkoping)	63111 9Ed. 4/13/96 LAST NM 9/03 (Plan A) Add Light Fl R 3s 15°24'56.8"N 73°48'13.7"E Light Fl R 3s 15°24'47.8"N 73°48'20.9"E Light Fl R 3s 15°24'39.4"N 73°48'28.1"E (Plan B) Add Dolphin [F20] "MD-1" Fl R 3s 15°24'56.8"N 73°48'13.7"E Dolphin [F20] "MD-2" Fl R 3s 15°24'47.8"N 73°48'20.9"E Dolphin [F20] "MD-3" Fl R 3s 15°24'39.4"N 73°48'28.1"E (10(215)03 Dehra Dun)
44186 2Ed. 6/15/96 LAST NM 12/04 Substitute Rock awash [K12] for beacon (38(1382)03 Norrkoping)	63250 6Ed. 10/13/01 LAST NM 5/04 Add Dangerous wreck [K28] (PA) 8°39.6'N 78°09.5'E (1(44)04 Dehra Dun)
44260 7Ed. 7/27/96 LAST NM 13/04 Add Buoy YB, spar, Q(6) + L Fl (48(1551)03 Norrkoping)	63320 8Ed. 7/23/94 LAST NM 9/04 Delete Legend "PA" from dangerous wreck 21°01.2'N 88°19.4'E Stranded wreck 21°06.8'N 88°20.2'E Stranded wreck 21°04.0'N 88°10.5'E (See 37/03-63320) Add Stranded wreck [K24] 21°06.8'N 88°20.6'E Stranded wreck [K24] 21°04.1'N 88°10.0'E (1(45)04 Dehra Dun)
44400 4Ed. 9/7/96 LAST NM 12/04 Delete Pilot station symbol 58°41.3'N 22°24.2'E Change Visibility (range) of light to 15M 58°21.0'N 23°44.4'E Add Light Fl 5s 48m 7M 58°34.2'N 22°17.3'E (30(407)02 Norrkoping; Est LL)	63321 6Ed. 9/26/98 LAST NM 49/03 Delete Dangerous wreck (PA) 21°01'10"N 88°19'25"E Stranded wreck 21°06'50"N 88°20'15"E Stranded wreck 21°03'57"N 88°10'30"E (See 37/03-63321) Add Dangerous wreck [K28] 21°01'04"N 88°19'26"E Stranded wreck [K24] 21°06'47"N 88°20'34"E Stranded wreck [K24] 21°04'08"N 88°09'58"E (1(45)04 Dehra Dun)
44410 4Ed. 2/8/97 LAST NM 9/04 Delete Pilot station symbol 58°41.3'N 22°24.2'E Add Light Fl 5s 48m 7M 58°34.2'N 22°17.3'E (30(407)02 Norrkoping; Est LL)	93721 5Ed. 6/5/99 LAST NM 14/04 Delete Light 22°15'09"N 113°51'35"E Depth 15.5 meters Wk 22°22'51"N 113°53'45"E Dangerous wreck 22°25'43"N 113°53'13"E (See 9/02-93721) (5(9)04 Hong Kong; 3(57, 59)04 Tianjin)
52051 1Ed. 3/12/94 LAST NM 43/02 Add Chartlet, depicting changes in hydrography, from Subsection I-2 36°48'24"N 2°27'24"W (26(423)03 Cadiz; Spn CH 4591)	93730 3Ed. 6/29/96 LAST NM 14/04 Add Depth 24.5 meters Wk [K26] 22°14.4'N 114°21.8'E Depth 16.7 meters Wk [K26] 22°20.4'N 114°29.4'E (4(7), 5(13)04 Hong Kong)
52052 1Ed. 4/23/94 LAST NM 43/02 Add Chartlet A, depicting changes in hydrography, from Subsection I-2 36°49'18.0"N 2°28'49.0"W Chartlet B, depicting changes in hydrography, from Subsection I-2 36°49'12.0"N 2°27'09.0"W Chartlet C, depicting changes in hydrography, from Subsection I-2 36°48'14.0"N 2°25'14.0"W (26(423)03 Cadiz; Spn CH 4591)	93733 13Ed. 6/28/97 LAST NM 14/04 Substitute Depth 16.6 meters Wk for 11.4 meters Wk 22°15'04"N 114°22'00"E Add Depth 24.5 meters Wk [K26] 22°14'26"N 114°21'51"E Depth 16.7 meters Wk [K26] 22°20'26"N 114°29'25"E Buoy BRB, pillar, double ball topmark, Fl(2) 10s 22°15'05"N 114°22'06"E (4(7), 5(13)04 Hong Kong; 3(53, 60)04 Tianjin)
63101 15Ed. 3/5/94 LAST NM 40/03 Delete Legend "PA" from dangerous wreck 18°56'38"N 72°52'01"E Stranded wreck 18°58'27"N 72°51'40"E Stranded wreck 18°59'20"N 72°52'21"E Stranded wreck 18°59'26"N 72°52'39"E (23(420)03 Dehra Dun)	93736 24Ed. 12/20/03 LAST NM 11/04 Add Depth 4.4 meters 22°19'37.2"N 114°08'45.6"E (5(10)04 Hong Kong)
63102 19Ed. 10/30/93 LAST NM 40/03 Delete Legend "PA" from dangerous wreck 18°56'38"N 72°52'01"E Add "Foul Ground" area bound by dashed line joining 18°56'52"N 72°53'15"E 18°56'52"N 72°53'45"E 18°57'26"N 72°53'45"E 18°57'26"N 72°53'15"E (23(420)03 Dehra Dun)	94028 7Ed. 9/16/95 LAST NM 4/04 Add Dangerous wreck [K28] 35°03.2'N 129°11.0'E Dangerous wreck [K28] 35°34.9'N 125°49.9'E Wreck [K29] (PA) 36°52.0'N 125°20.0'E (50(935, 940)03, 9(128)04 Inchon)
63103 17Ed. 8/14/93 LAST NM 16/03 Delete Legend "PA" from dangerous wreck 18°56'38.0"N 72°52'01.0"E Stranded wreck and drying height 3 meters 18°59'23.0"N 72°52'21.3"E Stranded wreck and drying height 2.4 meters 18°59'26.4"N 72°52'39.2"E Stranded wreck and drying height 0.3 meter 18°58'27.0"N 72°51'41.8"E (23(420)03 Dehra Dun)	94033 5Ed. 10/28/95 LAST NM 12/04 Add Wreck [K29] (PA) 36°52.0'N 125°20.0'E (50(940)03 Inchon)

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94042	9Ed. 5/25/96 LAST NM 13/04 (Panel A) Add Dangerous wreck [K28] "Rep (2003)" 23°17'57.2"N 116°49'56.7"E	16/04	96763	7Ed. 8/22/98 LAST NM 6/04 Delete Light Light Add Light Iso R 6s 18m 11M Horn 42°58'41.3"N 144°20'58.3"E Double solid line with land tint (breakwater) [F4.1] between 42°58'41.3"N 144°20'58.3"E 42°58'41.0"N 144°20'59.1"E (6(151)04 Tokyo)	16/04 42°58'40.9"N 144°20'59.2"E 42°58'35.0"N 144°21'19.0"E
94160	7Ed. 3/23/96 LAST NM 13/04 Add Dangerous wreck [K28] (3(65)04 Tianjin)	16/04 27°50.7'N 121°19.2'E	96941	8Ed. 5/31/97 LAST NM 9/04 Add Submarine pipeline [L40.1] joining (3(53)04 Tokyo)	16/04 43°00.2'N 140°25.3'E 43°00.3'N 140°25.9'E 42°59.8'N 140°29.7'E 42°59.4'N 140°30.5'E
94180	9Ed. 10/28/95 LAST NM 6/04 Add Dangerous wreck [K28] (3(65)04 Tianjin)	16/04 27°50.7'N 121°19.2'E	96945	3Ed. 2/1/97 LAST NM 42/03 Add Submarine pipeline [L40.1] joining (3(53)04 Tokyo)	16/04 43°00'14"N 140°25'20"E 43°00'16"N 140°25'54"E 42°59'50"N 140°29'43"E 42°59'25"N 140°30'28"E
94360	6Ed. 10/21/95 LAST NM 12/04 Delete Anchorage area bound by dashed line joining (3(52)04 Tianjin)	16/04 38°15.8'N 119°41.7'E 38°15.8'N 119°44.8'E 38°13.0'N 119°44.8'E 38°13.0'N 119°41.7'E	96960	3Ed. 5/10/97 LAST NM 47/03 Add Submarine pipeline [L40.1] joining (3(53)04 Tokyo)	16/04 43°00.2'N 140°25.3'E 42°59.8'N 140°29.7'E 42°59.4'N 140°30.5'E
94420	3Ed. 9/23/95 LAST NM 12/04 Delete Anchorage area bound by dashed line joining (3(52)04 Tianjin)	16/04 38°16.0'N 119°41.8'E 38°16.0'N 119°44.8'E 38°13.0'N 119°44.8'E 38°13.0'N 119°41.8'E	97015	10Ed. 2/4/89 LAST NM 51/01 Add Submarine cable [L30.1] joining (3(58)04 Tokyo)	16/04 36°19.2'N 140°46.5'E 36°08.4'N 141°37.8'E 35°09.9'N 141°18.1'E 34°51.4'N 141°24.2'E 34°08.1'N 140°50.9'E 34°07.1'N 140°27.3'E 33°58.1'N 140°06.2'E 33°23.9'N 139°32.6'E 33°23.9'N 139°06.2'E
95060	13Ed. 8/5/95 LAST NM 33/03 Add Wreck [K29] (PA) (50(940)03 Inchon)	16/04 36°52.0'N 125°20.0'E	97021	7Ed. 6/30/90 LAST NM 40/03 Add Dangerous wreck [K28] Submarine cable [L30.1] joining (50(935)03 Inchon; 3(58)04 Tokyo)	16/04 35°03.3'N 129°11.0'E 34°06.4'N 140°36.9'E 34°07.1'N 140°27.3'E 33°59.6'N 140°11.2'E 33°58.1'N 140°06.2'E 33°23.9'N 139°32.6'E 33°23.9'N 139°06.2'E
95080	13Ed. 6/24/95 LAST NM 52/03 Add Wreck [K29] (PA) Dangerous wreck [K28] (50(940)03, 9(128)04 Inchon)	16/04 36°52'00"N 125°20'00"E 35°34'57"N 125°49'54"E	97029	3Ed. 7/19/86 LAST NM 40/03 Add Submarine cable [L30.1] joining (3(58)04 Tokyo)	16/04 34°10.1'N 140°52.6'E 34°06.9'N 140°47.7'E 34°07.1'N 140°27.3'E 33°59.6'N 140°11.2'E 33°58.1'N 140°06.2'E 33°23.9'N 139°32.6'E 33°23.9'N 139°06.2'E
95140	15Ed. 10/7/95 LAST NM 4/04 Add Dangerous wreck [K28] Depth 14.5 meters Wk [K26] (50(935, 936)03 Inchon)	16/04 35°03'15"N 129°11'00"E 35°05'31"N 129°05'55"E	97100	4Ed. 8/8/98 LAST NM 49/03 Add Submarine cable [L30.1] joining (3(58)04 Tokyo)	16/04 36°23'17"N 140°36'56"E 36°23'33"N 140°37'37"E 36°22'20"N 140°38'21"E 36°19'12"N 140°46'30"E 36°18'06"N 140°58'24"E 36°15'48"N 141°04'30"E 36°12'54"N 141°31'42"E
95149	9Ed. 6/12/99 LAST NM 52/03 Add Dangerous wreck [K28] Depth 14.5 meters Wk [K26] (50(935, 936)03 Inchon)	16/04 35°03'15"N 129°11'00"E 35°05'31"N 129°05'55"E	97187	3Ed. 2/14/98 LAST NM 2/04 Delete Purple composite line joining (6(151)04 Tokyo)	16/04 34°58'58.0"N 136°41'01.5"E 34°58'59.0"N 136°41'01.9"E 34°58'59.5"N 136°41'08.2"E
95151	17Ed. 11/28/98 LAST NM 37/03 Add Depth 14.5 meters Wk [K26] (50(936)03 Inchon)	16/04 35°05'31.0"N 129°05'55.0"E			
95160	13Ed. 8/19/95 LAST NM 14/04 Add Dangerous wreck [K28] (50(935)03 Inchon)	16/04 35°03.2'N 129°11.0'E			
96004	14Ed. 10/7/95 LAST NM 45/02 Add Submarine pipeline [L40.1] between (3(53)04 Tokyo)	16/04 43°00.2'N 140°25.3'E 42°59.4'N 140°30.5'E			
96762	4Ed. 9/13/03 LAST NM 50/03 Delete Light Change Light to Iso R 6s 11M HORN Add Solid line (breakwater) [F4.1] joining (6(151)04 Tokyo)	16/04 42°58'35"N 144°21'19"E 42°58'41"N 144°20'58"E 42°58'37"N 144°21'11"E 42°58'31"N 144°21'16"E			

(continued on next page)

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97187 (Continued)

Purple composite line joining 34°58'58.2"N 136°41'25.0"E
34°58'58.3"N 136°41'29.0"E
34°58'58.2"N 136°41'29.2"E
34°58'58.0"N 136°41'28.5"E

(See 2/04-97187)

Add

Purple composite line (prohibited area) [N2.2]
between 34°58'58.0"N 136°41'08.5"E
34°58'59.5"N 136°41'08.2"E

Purple composite line (prohibited area) [N2.2]
between 34°58'58.0"N 136°41'25.2"E
34°58'58.2"N 136°41'25.0"E

(Jpn CH W94)

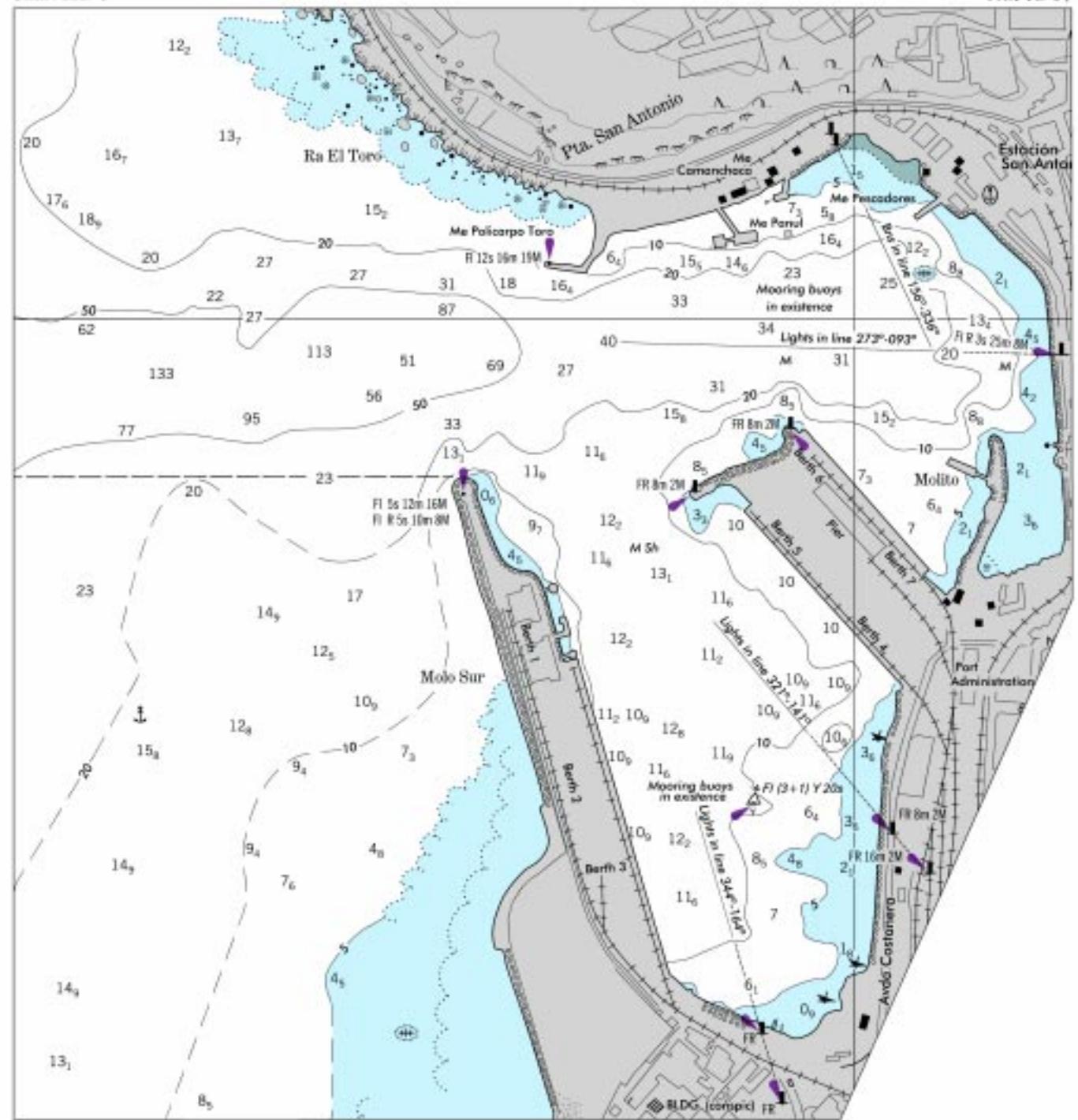
800669 8Ed. 9/15/90 LAST NM N1/04 N16/04
Delete Buoy "A" 33°01'34"N 118°33'44"W
(9/04 CG11)

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Chart 22294

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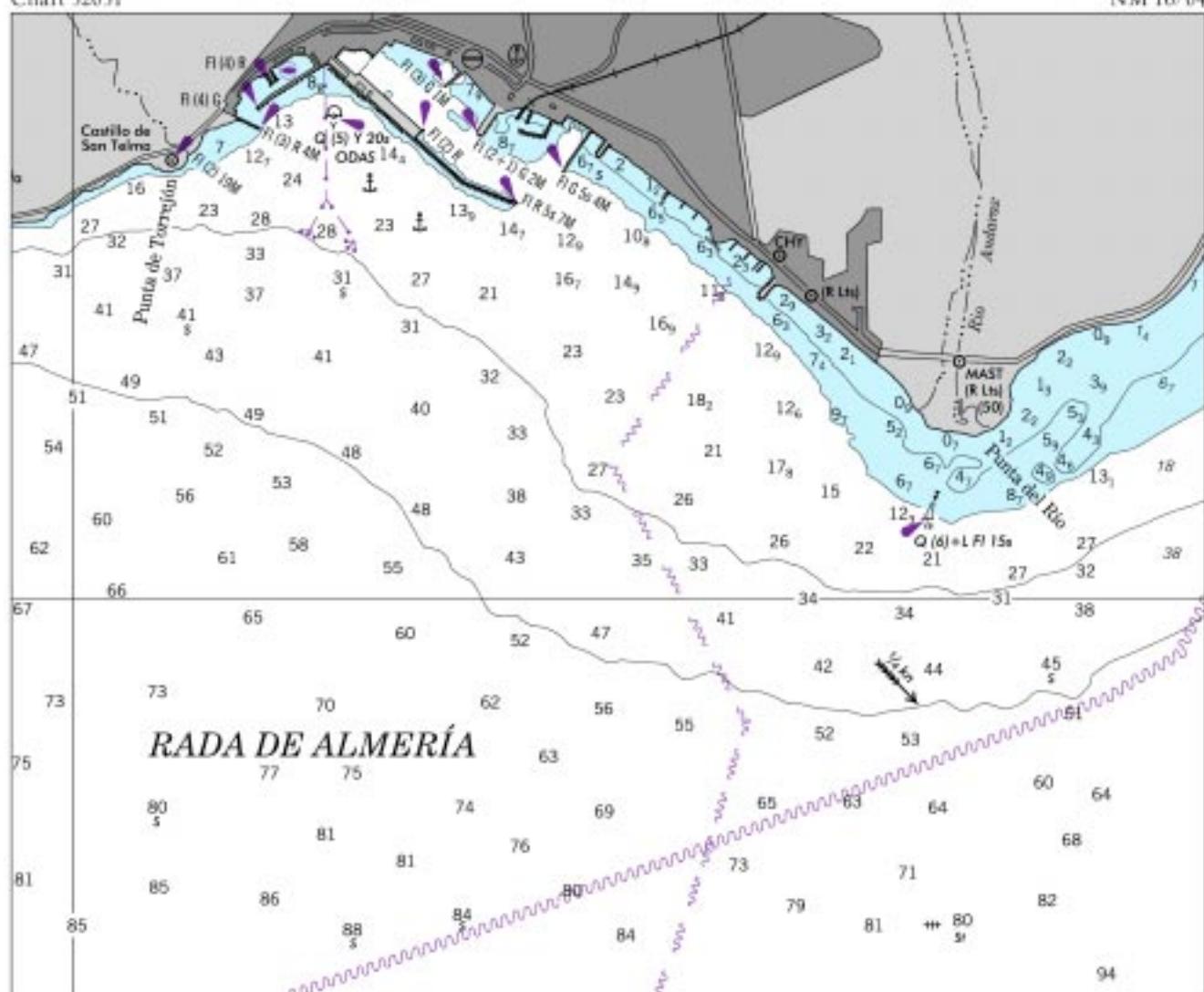


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Chart 52051

NM 16/04

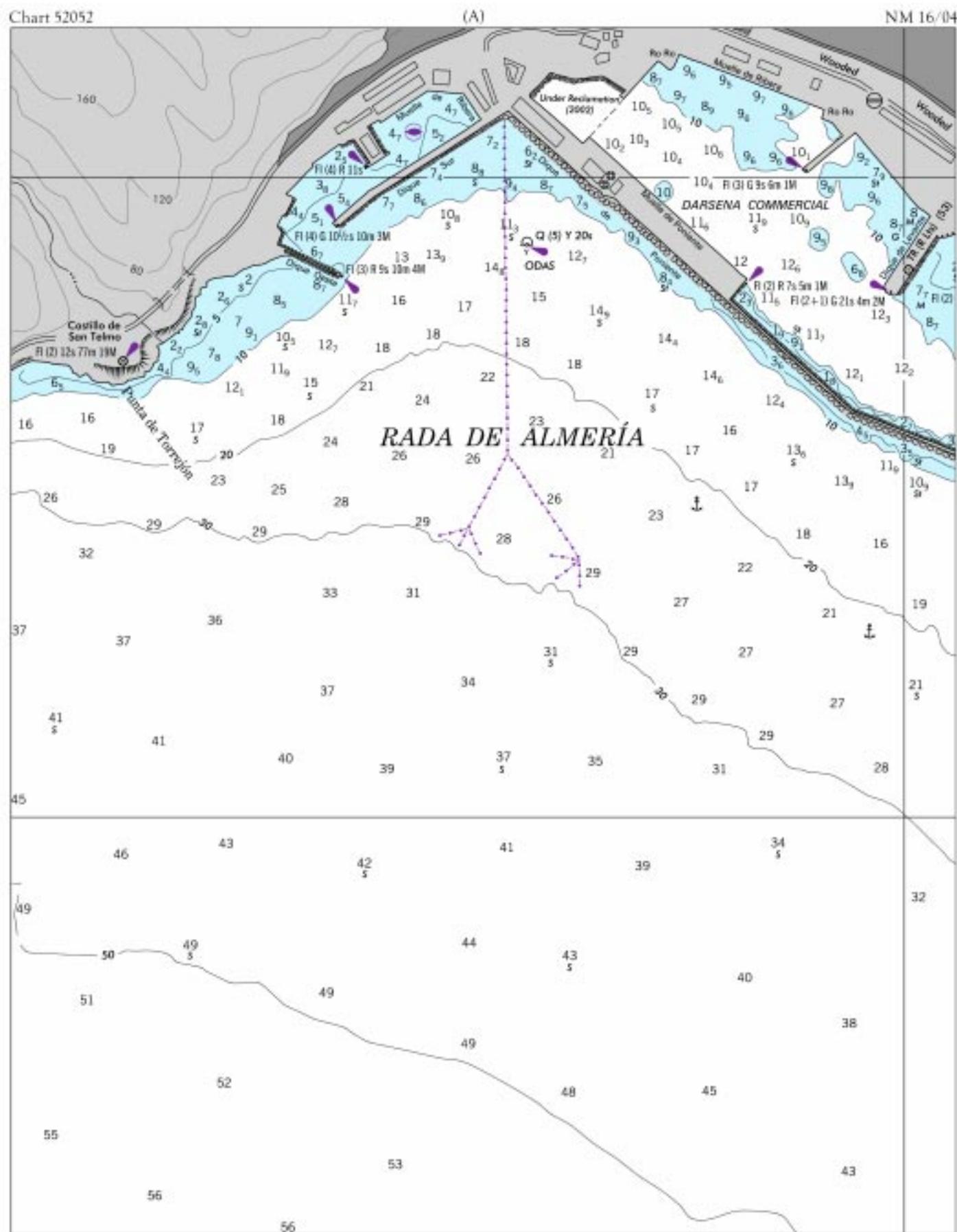


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NM 16/04

Chart 52052

NM 16/04



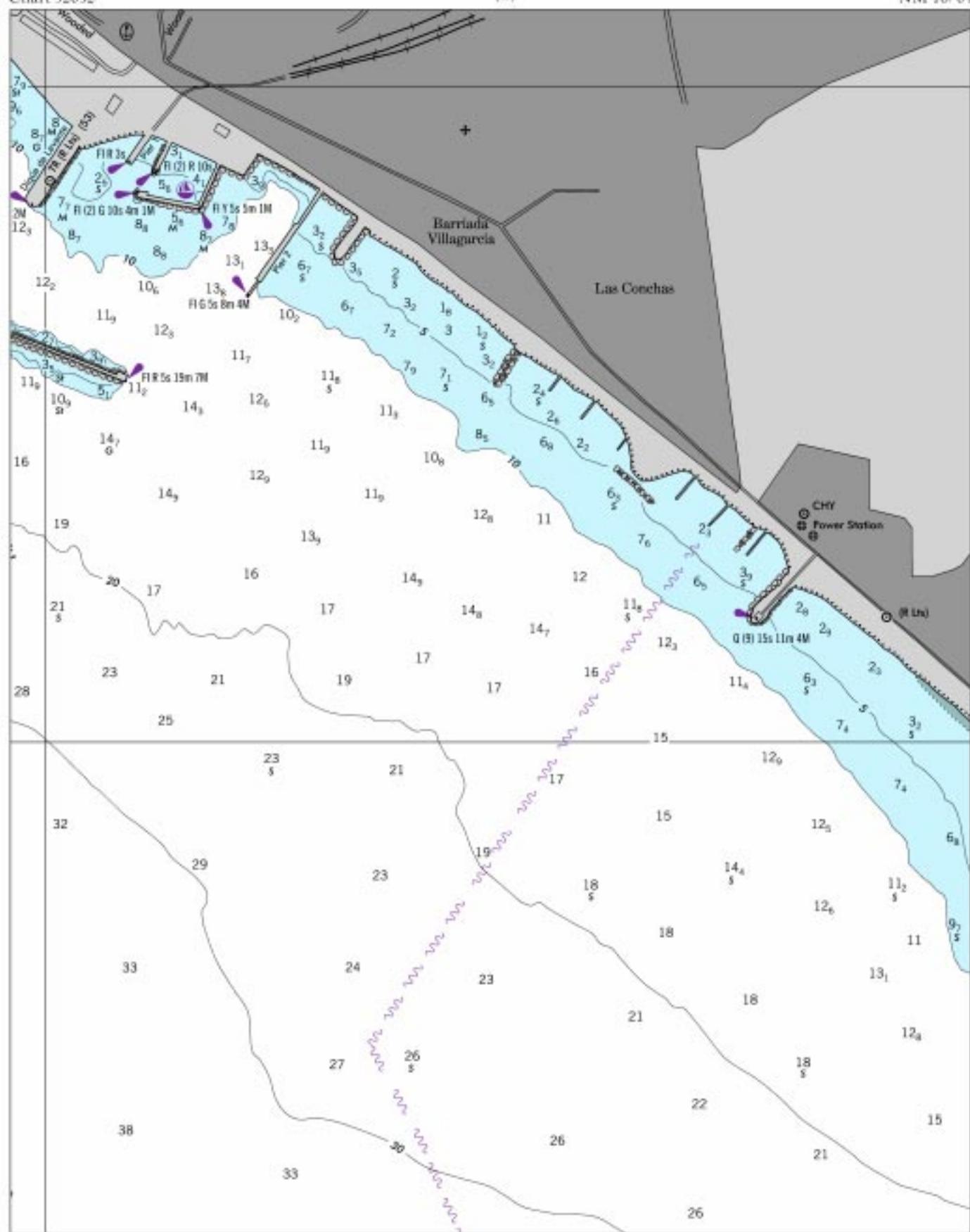
SECTION I

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Chart 52052

(B)

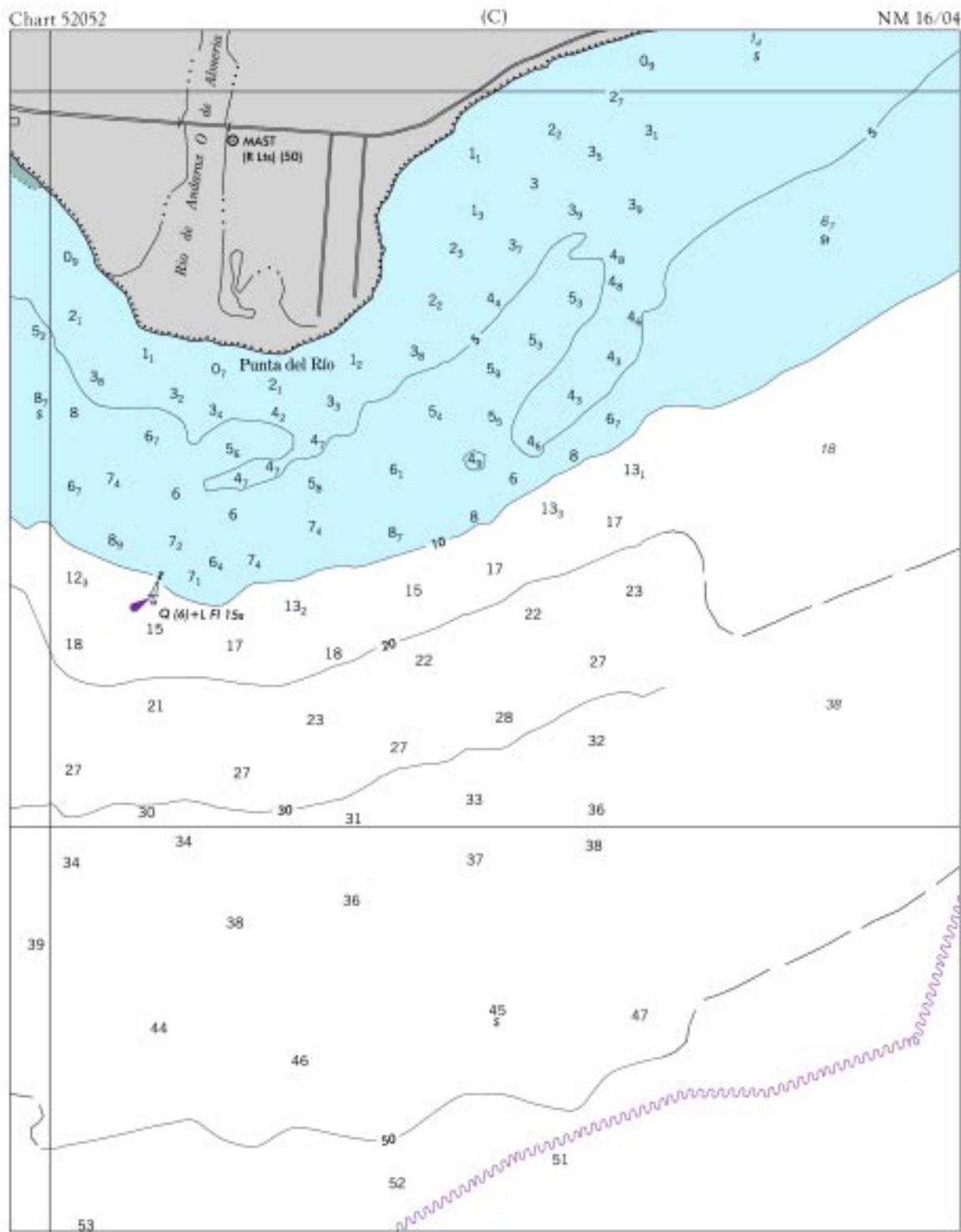
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I-2.5

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SECTION I

Chart 11376

NM 16/04

MOBILE BAY AND RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2004					
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH MLLW (FEET)
ENTRANCE CHANNEL	42.2	47.0	44.2	7-03	600 7.0 47
MOBILE BAY:					
LOWER REACH (TO LIGHT 50)	40.8	44.6	42.5	7-03	400 11.8 45
UPPER REACH	32.1	39.7	36.5	7-03	400 13.4 40-45
MOBILE RIVER:					
PINTO ISLAND REACH	32.9	39.6	32.6	11-03	700-800 0.6 40
MOBILE CHANNEL	33.1	39.1	37.6	11-03	600 1.5 40
MOBILE TURNING BASIN	39.3	39.9	36.5	11-03	200-675 0.4 40
BLAKELEY ISLAND REACH	38.7	36.1	30.0	11-03	500 1.0 40
ST. LOUIS POINT REACH	18.9	25.4	22.3	6-00	500 0.2 25
CHICKASAW CREEK CHANNEL	15.6	24.7	22.4	7-01	250 2.7 25
ARLINGTON CHANNEL	17.3	18.8	18.4	9-03	150 1.4 27
OCEAN TERMINAL TURNING BASIN	17.4	18.4	11.1	9-03	600 0.1 27
THEODORE SHIP CHANNEL:					
BAY CUT	35.2	37.5	37.1	9-01	400 4.5 40
ANCHORAGE AREA	40.0	40.0	39.9	9-01	300 0.2 40
LAND CUT	36.6	38.4	A36.6	9-01	300 1.5 40
TURNING BASIN	37.0	38.0	34.8	9-01	1400 0.3 40
BARGE CHANNEL	9.5	10.5	7.9	1-04	100 1.1 12
A. ROCK OBSTRUCTIONS REPORTED FROM BUOY '20', CONTINUING FOR APPROXIMATELY 600 FEET EASTWARD. MINIMUM DEPTH OVER ROCKS IS 38 FEET.					
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION					

Chart 11505

NM 16/04

SAVANNAH RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004						
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)
TYBEE RANGE	44.0	44.0	45.0	44.0	02-04	600 3.3 44
BLOODY POINT RANGE	43.5	44.0	44.0	43.5	02-04	600 3.0 44
JONES ISLAND RANGE	43.5	43.0	43.5	44.0	02-04	600 1.2 44
TYBEE KNOB CUT RANGE	42.5	44.0	43.0	44.0	02-04	500 2.5 42
NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.						
NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.						
NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION						

Chart 11514 (Side A)

NM 16/04

SAVANNAH RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004							
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 (FEET) MLLW
OGLETHORPE RANGE	42.0	43.0	44.5	42.5	02-04	500	1.2 42
WRECKS CHANNEL (A)	41.0	42.5	45.5	44.0	02-04	500	1.5 42
CITY FRONT CHANNEL	42.0	42.0	43.5	40.0	02-04	500	1.5 42
MARSH ISLAND CHANNEL (B)	42.0	44.0	44.0	42.0	02-04	500	1.7 42
KINGS ISLAND CHANNEL (C)	40.5	42.0	41.0	42.0	02-04	500	2.1 42
WHITEHALL CHANNEL (D)	33.0	33.0	34.0	36.0	02-04	400	0.6 42-36
PORT WENTWORTH CHANNEL (E)	30.0	31.5	32.0	32.0	12-94, 02-04	200	1.2 30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 39.0 FT, 30.5 FT 100 FT FROM BACKSIDE.
 B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 34.5 FT, 29.5 FT 100 FT FROM BACKSIDE.
 C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 45.0 FT, 49.0 FT 100 FT FROM BACKSIDE.
 D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 39.5 FT 100 FT FROM BACKSIDE.
 E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 31.5 FT, 28.5 FT 100 FT FROM BACKSIDE.

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.

NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.

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

Chart 12311

NM 16/04

CHRISTINA RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2004							
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	37.7	37.7	37.7	1-04	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN (OPPOSITE TERMINAL WHARF)	34.5	34.1	34.9	1-04	400	0.33	35
	37.8	37.8	37.1	1-04	320	0.34	38

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

Chart 12312

NM 16/04

CHRISTINA RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2004							
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	37.7	37.7	37.7	1-04	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN (OPPOSITE TERMINAL WHARF)	34.5	34.1	34.9	1-04	400	0.33	35
	37.8	37.8	37.1	1-04	320	0.34	38

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

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Chart 28221 (Plan A)

NM 16/04

CAUTION

The entire area of this plan lies within
Exclusionary Area "E-2". No vessel or aircraft
traffic is allowed except that involved with
petroleum operations.

Chart 28260

NM 16/04

CAUTIONS

1. Within the precautionary areas no activities are allowed except those involving petroleum exploration and exploitation; and the rapid, uninterrupted transit of fishing vessels enroute fishing grounds outside these areas.
2. Within the exclusionary areas no vessel or aircraft traffic is allowed except that involved with petroleum operations.
3. Attention is called to the fact that in many cases pipelines are not buried and charted depths may be decreased by up to two meters. Also, gas pipelines contain flammable natural gas under high pressure. A vessel damaging a line could face an immediate fire hazard or loss of buoyancy. Vessels are advised not to anchor or travel in the vicinity of the pipelines.

SECTION II

NM 16/04

NGA HYDROGRAPHIC PRODUCTS CATALOG CORRECTIONS

Note: Underlining indicates that column in which a correction has been made or new information added.				Edition		Price Category	Page(s)	NTM
NGA Ref. No. (National Stk. No.)	Title	Scale = 1:	No.	Date				
REGION 1								
WOXGN540 (7642014009515)	<u>Hawaiian Islands</u>	3,121,170	<u>17</u>	<u>2/04</u>	NOS	1-8,94	16/04	
11XHA11378 (7642014010230)	Santa Rosa Sound to Dauphin Island (Not shown on index)	40,000	<u>33</u>	<u>2/04</u>	NOS	1-94	16/04	
11AHA11468 (7642014010144)	Miami Harbor	10,000	<u>40</u>	<u>1/04</u>	NOS	1-94	16/04	
11AHA11545 (7642014010167)	Beaufort Inlet and Part of Core Sound Inset: Lookout Bight (Inset not shown on index)	40,000 20,000	<u>61</u>	<u>2/04</u>	NOS	1-94	16/04	
11AHA11547 (7642014010173)	Morehead City Harbor	15,000	<u>36</u>	<u>2/04</u>	NOS	1-94	16/04	
12AHA12228 (7642014010304)	Pocomoke and Tangier Sounds	40,000	<u>30</u>	<u>2/04</u>	NOS	1-94	16/04	
12AHA12233 (7642014010312)	Potomac River-Chesapeake Bay to Piney Point	40,000	<u>36</u>	<u>1/04</u>	NOS	1-94	16/04	
12AHA12254 (7642014010315)	Cape Henry to Thimble Shoal Light	20,000	<u>44</u>	<u>2/04</u>	NOS	1-94	16/04	
13AHA13223 (7642014010417)	Newport Harbor	20,000	<u>37</u>	<u>1/04</u>	NOS	1-95	16/04	
14XHA14846 (7642014010672)	SMALL-CRAFT BOOK CHART West End of Lake Erie From Perrysburg, OH on the Maumee River to Huron River, MI and Bar Point, Ontario (book of 34 charts)	Various	<u>12</u>	<u>11/03</u>	NOS	1-96	16/04	
14XCO14962 (7642014010598)	St Marys River to Au Sable Point (LORAN-C) Insets: Grand Marais, Michigan Whitefish Point Harbor, Michigan Little Lake Harbor, Michigan (Insets not shown on index)	120,000 15,000 5,000 5,000	<u>20</u>	<u>2/04</u>	NOS	1-96	16/04	
14XHA14982 (7642014010725)	North Lake	42,240	<u>9</u>	<u>2/04</u>	NOS	1-96	16/04	
14XHA14993 (7642014010730)	<u>Namakan Lake</u>	42,240	<u>12</u>	<u>1/04</u>	NOS	1-40,96	16/04	
16BCO16501 (7642014011274)	Islands of Four Mountains (LORAN-C)	80,000	<u>7</u>	<u>1/04</u>	NOS	1-97	16/04	
16XHA16517 (7642014011360)	Makushin Bay	40,000	<u>6</u>	<u>1/04</u>	NOS	1-97	16/04	
16XHA16522 (7642014011367)	Beaver Inlet	40,000	<u>6</u>	<u>2/04</u>	NOS	1-97	16/04	
16XHA16591 (7642014011369)	<u>Cape Alitak to Moser Bay</u>	20,000	<u>9</u>	<u>1/04</u>	NOS	1-70,97	16/04	
16XHA16741 (7642014011372)	Icy Bay	40,000	<u>10</u>	<u>1/04</u>	NOS	1-97	16/04	
18BHA18443 (7642014011568)	Approaches to Everett	40,000	<u>16</u>	<u>1/04</u>	NOS	1-98	16/04	
MISCELLANEOUS CHARTS AND PUBLICATIONS								
WOPGN514 (INT 814) (7642014009474)	Bering Sea (Northern Part) (LORAN-C)	3,500,000	<u>7</u>	<u>1/04</u>	NOS	10-40	16/04	

SECTION II

NGA HYDROGRAPHIC PRODUCTS CATALOG CORRECTIONS

Note: Underlining indicates that column in which a correction has been made or new information added.				Edition		Price Category	Page(s)	NTM
NGA Ref. No. (National Stk. No.)	Title	Scale = 1:	No.	Date				
WOXGN540 (7642014009515)	<u>Hawaiian Islands</u>	3,121,170	<u>17</u>	<u>2/04</u>	NOS	10-2,40	16/04	
CDPUBSD164 (7644014665938)	New Guinea (Enroute), 2003				GPO	10-19, 38	16/04	

Price Categories effective 1 October 2002

A	17.75	E	9.00	G	4.50	I	26.25
D	10.75	F	9.00	H	2.50	R	2.50

CHS Canadian Hydrographic Service

DS Distribution Limited

GPO Government Printing Office

NOS National Ocean Service

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SECTION II

NM 16/04

NGA HYDROGRAPHIC PRODUCTS CATALOG CORRECTIONS

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NGA Ref. No. (National Stk. No.)	Title	Scale = 1:	No.	Date				
REGION 1								
WOXGN540 (7642014009515)	<u>Hawaiian Islands</u>	3,121,170	<u>17</u>	<u>2/04</u>	NOS	1-8,94	16/04	
11XHA11378 (7642014010230)	Santa Rosa Sound to Dauphin Island (Not shown on index)	40,000	<u>33</u>	<u>2/04</u>	NOS	1-94	16/04	
11AHA11468 (7642014010144)	Miami Harbor	10,000	<u>40</u>	<u>1/04</u>	NOS	1-94	16/04	
11AHA11545 (7642014010167)	Beaufort Inlet and Part of Core Sound Inset: Lookout Bight (Inset not shown on index)	40,000 20,000	<u>61</u>	<u>2/04</u>	NOS	1-94	16/04	
11AHA11547 (7642014010173)	Morehead City Harbor	15,000	<u>36</u>	<u>2/04</u>	NOS	1-94	16/04	
12AHA12228 (7642014010304)	Pocomoke and Tangier Sounds	40,000	<u>30</u>	<u>2/04</u>	NOS	1-94	16/04	
12AHA12233 (7642014010312)	Potomac River-Chesapeake Bay to Piney Point	40,000	<u>36</u>	<u>1/04</u>	NOS	1-94	16/04	
12AHA12254 (7642014010315)	Cape Henry to Thimble Shoal Light	20,000	<u>44</u>	<u>2/04</u>	NOS	1-94	16/04	
13AHA13223 (7642014010417)	Newport Harbor	20,000	<u>37</u>	<u>1/04</u>	NOS	1-95	16/04	
14XHA14846 (7642014010672)	SMALL-CRAFT BOOK CHART West End of Lake Erie From Perrysburg, OH on the Maumee River to Huron River, MI and Bar Point, Ontario (book of 34 charts)	Various	<u>12</u>	<u>11/03</u>	NOS	1-96	16/04	
14XCO14962 (7642014010598)	St Marys River to Au Sable Point (LORAN-C) Insets: Grand Marais, Michigan Whitefish Point Harbor, Michigan Little Lake Harbor, Michigan (Insets not shown on index)	120,000 15,000 5,000 5,000	<u>20</u>	<u>2/04</u>	NOS	1-96	16/04	
14XHA14982 (7642014010725)	North Lake	42,240	<u>9</u>	<u>2/04</u>	NOS	1-96	16/04	
14XHA14993 (7642014010730)	<u>Namakan Lake</u>	42,240	<u>12</u>	<u>1/04</u>	NOS	1-40,96	16/04	
16BCO16501 (7642014011274)	Islands of Four Mountains (LORAN-C)	80,000	<u>7</u>	<u>1/04</u>	NOS	1-97	16/04	
16XHA16517 (7642014011360)	Makushin Bay	40,000	<u>6</u>	<u>1/04</u>	NOS	1-97	16/04	
16XHA16522 (7642014011367)	Beaver Inlet	40,000	<u>6</u>	<u>2/04</u>	NOS	1-97	16/04	
16XHA16591 (7642014011369)	<u>Cape Alitak to Moser Bay</u>	20,000	<u>9</u>	<u>1/04</u>	NOS	1-70,97	16/04	
16XHA16741 (7642014011372)	Icy Bay	40,000	<u>10</u>	<u>1/04</u>	NOS	1-97	16/04	
18BHA18443 (7642014011568)	Approaches to Everett	40,000	<u>16</u>	<u>1/04</u>	NOS	1-98	16/04	
MISCELLANEOUS CHARTS AND PUBLICATIONS								
WOPGN514 (INT 814) (7642014009474)	Bering Sea (Northern Part) (LORAN-C)	3,500,000	<u>7</u>	<u>1/04</u>	NOS	10-40	16/04	

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CDPUBSD164 (7644014665938)	New Guinea (Enroute), 2003				GPO	10-19, 38	16/04	

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SECTION II

NM 16/04

NAVIGATION PUBLICATIONS

SAILING DIRECTIONS CORRECTIONS

PUB 126 6 Ed 2002 LAST NM 12/04

Page 79—Lines 14 to 34/R; read:

Malau (16°21'S., 179°22'E.) (World Port Index No. 55556) is situated on shore, 0.6 mile S of Mali Island. This is the site of the Fiji Sugar Corporation bulk sugar terminal. The jetty projects 200m from shore and has a depth of about 11m at its head. Three dolphins, connected to each other by walkways, form the head of the jetty; a loading tower, which is conspicuous, stands on the center dolphin. A wooden jetty, which was in disrepair in 1980, lies close SW of the jetty.

Tugs, fuel, and fresh water are not available. There is a hospital in Malau. An airport, with daily service to Suva, is close by the village.

A mooring about 0.1 mile farther W is connected by a floating pipeline with oil tanks on shore. A timber mill is situated about 0.5 mile farther SW.

Vessels using the bulk sugar terminal are loaded to a draft not exceeding 11m and are restricted to HW departures.

Pilotage.—Pilotage is compulsory. Pilots are arranged via the vessel's agent in Suva with a 48 hour notice given to the Suva harbormaster. Pilot boards approximately 2 miles N of Mali Pass. Arrivals and departures are restricted to daylight hours.

(BA NM 6/04, Section VI) 16/04

PUB 154 8 Ed 2002 LAST NM 13/04

Page 74—Line 25/R; insert after:

A breakwater, with a light at its end, has been reported (2004) to stand about 0.6 mile NW of Norman Point.

(US NM 12/04) 16/04

Page 191—Line 26/R; insert after:

A safety zone has been established around a wreck leaking oil on the W side of Grenville Channel about 0.6 mile ENE of Sylvan Peak; vessels should not anchor or fish within 200m.

(BA NM 11/04) 16/04

Page 230—Line 43/R; insert after:

Caution.—A depth of 2.7m has been reported (2004) to lie about 0.5 mile SE of Logan Rocks.

(US NM 12/04) 16/04

PUB 163 8 Ed 2002 LAST NM 12/04

Page 122—Lines 37 to 45/R; read:

Tanjung Maloh (Tanjung Malok) (8°55'S., 116°44'E.), about 3.5 miles further N, may be seen from S to N, and is easily identified by the peculiar shape of a hill, 285m high. When seen from W, this hill is not particularly prominent. The bay SE of Tanjung Maloh affords anchorage in a depth of 18m.

Between Tanjung Maloh and Tanjung Benete lies the port of Benete. The port lies on the S shore of the inlet. Depths

decrease regularly from 33m in the entrance, to 20m close off its head. A buoyed channel and leading lights mark the entrance. The port services a large copper mine located inland. A pilot is available and boards vessels approximately 2 miles SW of Tanjung Benete.

(7785)04 Taunton 16/04

PUB 164 8 Ed 2003 NEW EDITION
(NGA) 16/04

PUB 173 7 Ed 2002 LAST NM 13/04

Page 74—Line 44/R; insert after:

Anchorage.—Anchorage can be taken 1 mile NW of Pamban Island Light, in depths of about 7m, mud, good holding ground, with Pamban Island Light bearing between 122° and 134°.

(BA NP 38) 16/04

Page 83—Line 42/R; insert after:

Vessels should send their ETA 24 hours in advance. The message should be passed through Colombo Port Radio and the local agents.

(BA NP 38) 16/04

USCG NAVIGATION RULES CORRECTIONS

COMDTINSTM166722D Ed 1999 LAST NM 52/00

Page 6—International: General, Rule 3(a), line 2; read:
including nondisplacement craft, WIG craft and seaplanes, used or capable of ...

(USCG) 16/04

Page 8—International: General, Rule 3, add (m); read:

(m) The term “Wing-In-Ground (WIG) craft” means a multimodal craft which, in its main operational mode, flies in close proximity to the surface by utilizing surface-effect action.

(USCG) 16/04

Page 18—International: Rule 8(a), line 1; read:

(a) Any action to avoid collision shall be taken in accordance with the Rules of this Part and shall, if the circumstances of ...

(USCG) 16/04

Page 34—International: Rule 18, add (f); read:

(f)

(i) A WIG craft shall, when taking off, landing and in flight near the surface, keep well clear of all other vessels and avoid impeding their navigation;

(ii) a WIG craft operating on the water surface shall comply with the Rules of this Part as a power-driven vessel.

(USCG) 16/04

COMDTINSTM166722D (Continued)

Page 46—International: Rule 23(b), line 3; read:
Rule, exhibit an all-round flashing yellow light.

(c) A WIG craft only when taking off, landing and in flight near the surface shall, in addition to the lights prescribed in paragraph (a) of this Rule, exhibit a high intensity all-round flashing red light.

(USCG) 16/04

Page 48—International: Rule 23(c) (i), line 1; read:

(d) (i) A power-driven vessel of less than 12 meters in length may ...

(USCG) 16/04

Page 112—International: Rule 31, line 1; read:

Where it is impracticable for a seaplane or a WIG craft to exhibit lights and shapes ...

(USCG) 16/04

Page 114—International: Rule 33(a), lines 1 to 2; read:

(a) A vessel of 12 meters or more in length shall be provided with a whistle, a vessel of 20 meters or more in length shall be provided with a bell in addition to a whistle, and a vessel of 100 meters or more in length ...

(USCG) 16/04

Page 122—International: Rule 35(h), line 5; read:

addition sound an appropriate whistle signal.

(i) A vessel of 12 meters or more but less than 20 meters in length shall not be obliged to give the bell signals prescribed in paragraphs (g) and (h) of this Rule. However, if she does not, she shall make some other efficient sound signal at intervals of not more than 2 minutes.

(USCG) 16/04

Page 122—International: Rule 35(i), line 1; read:

(j) A vessel of less than 12 meters in length shall not be obliged to ...

(USCG) 16/04

Page 122—International: Rule 35(j), line 1; read:

(k) A pilotage vessel when engaged on pilotage duty may in addition to ...

(USCG) 16/04

Page 148—International: Annex I Section 13; read:

13. High Speed Craft*

(a) The masthead light of high-speed craft may be placed at a height related to the breadth of the craft lower than that prescribed in paragraph 2(a)(i) of this annex, provided that the base angle of the isosceles triangles formed by the sidelights and masthead light, when seen in end elevation, is not less than 27°.

(b) On high-speed craft of 50 meters or more in length, the vertical separation between foremast and mainmast light

of 4.5 meters required by paragraph 29(a)(ii) of this annex may be modified provided that such distance shall not be less than the value determined by the following formula:

$$y = \frac{(a+17\Psi)C + 2}{1000}$$

where:

y is the height of the mainmast light above the foremast light in meters;

a is the height of the foremast light above the water surface in service condition in meters;

Ψ is the trim in service condition in degrees;

C is the horizontal separation of masthead lights in meters.

* Refer to the International Code of Safety for High-Speed Craft, 1994 and the International Code of Safety for High-Speed Craft, 2000.

(USCG) 16/04

Page 152—International: Annex III Section I(a), line 5; read:

range 180-700Hz (\pm 1 percent) for a vessel of 20 meters or more in length, or 180-2100Hz (\pm 1 percent) for a vessel of less than 20 meters in length and which provide the sound pres- ...

(USCG) 16/04

Page 154—International: Annex III Section I(c), line 4; read:

range of frequencies 180-700Hz (\pm 1 percent) for a vessel of 20 meters or more in length, or 180-2100Hz (\pm 1 percent) for a vessel of less than 20 meters in length, of not less than the ...

(USCG) 16/04

Page 154—International: Annex III Section I(c), Table; read:

Length of vessel in meters	1/3-octave band level at 1 meter in dB referred to $2 \times 10^{-5} \text{ N/m}^2$	Audibility range in nautical miles
200 or more	143	2
75 but less than 200	138	1.5
20 but less than 75	130	1
	120 ^{*1}	
Less than 20	115 ^{*2} 111 ^{*3}	0.5

^{*1} When the measured frequencies lie within the range 180-450Hz

^{*2} When the measured frequencies lie within the range 450-800Hz

^{*3} When the measured frequencies lie within the range 800-2100Hz

(USCG) 16/04

SECTION II

NM 16/04

COMDTINSTM166722D (Continued)

Page 160—International: Annex III Section 2(b), lines 4 to
6; read:

length. Where practicable, a ...

(USCG)

16/04

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME I LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*6827	<i>University of Maine Research Lighted Buoy R</i>	43 43 30 N 70 03 39 W	Fl Y 4s			Yellow.	Private aid. 16/04
*7127	<i>University of Maine Research Lighted Buoy Q</i>	43 40 16 N 70 10 29 W	Fl Y 4s			Yellow.	Private aid. 16/04
*7583	<i>University of Maine Research Lighted Buoy P</i>	43 37 45 N 70 12 37 W	Fl Y 4s			Yellow.	Private aid. 16/04
*10924	Boston Anchorage One Mooring Buoy					White and blue nun.	Marked "CG" 16/04
*37209.1	Rear Range Light		Iso Y 6s			On pile.	Private aid. 16/04

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
9030	OLDFIELD POINT RANGE REAR LIGHT 1,925 yards, 045.2° from front light.		Oc W 4s	122		On skeleton tower.	Higher intensity on rangeline. Lighted throughout 24 hours. *
							16/04
	Sollers Point Channel						
20705	Sollers Point Daybeacon 1	39 14 00 N 76 31 30 W				SG on pile.	Private aid. *
							16/04
22825	- LIGHT 2	37 57 57 N 75 54 05 W	Q R	15	4	TR on pile.	Higher intensity beam down channel. *
							16/04
23767	- CHANNEL LIGHT 14		Fl R 4s	15	3	TR on pile.	*
							16/04
23780	- CHANNEL LIGHT 16		Fl R 4s	19	3	TR on pile.	*
							16/04
24000	- JUNCTION LIGHT B	38 17 06 N 75 55 15 W	Fl (2+1) R 6s	15	3	JR on pile.	*
							16/04
24005	- LIGHT 7	38 17 41 N 75 55 55 W	Fl G 6s	15	4	SG on pile.	*
							16/04

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
29050	- Daybeacon 8A	35 08 05 N 76 00 09 W				TR on pile.	
		*					16/04
	Northeast Cape Fear River						
			<i>Daybeacons located 50 feet outside channel limit.</i>				
30970	- TURNING BASIN LIGHT	34 14 48 N 77 57 19 W	Fl W 4s	15	5	NB on pile.	
		*		*	*		16/04
30985	- LIGHT 4		Fl R 2.5s	15	6	TR on pile.	
				*	*		16/04
34840	- Daybeacon 8	34 42 49 N 76 40 36 W				TR on pile.	
		*					16/04

CORRECTIONS TO C. G. LIGHT LIST, VOLUME III LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
845.3	<i>NOAA Data Lighted Bouy 41012</i>	30 02 38 N 80 33 00 W	Fl (4) Y 20s			Yellow disc-shape with mast.	
		*					16/04
*2506	SHUTES FOLLY RANGE REAR LIGHT	32 47 24 N 79 55 44 W	F R				16/04
17630	- LIGHT 32		Fl R 4s	16	3	TR on pile.	
				*	*		16/04
	FORT MYERS TO CHARLOTTE HARBOR AND WIGGINS PASS (Chart 11427)						
	San Carlos Bay						
17990	- LIGHT SC	26 25 08 N 81 57 33 W	Mo (A) W	16	7	MR on dolphin.	
				*	*		16/04
21365	- Daybeacon 5A					<i>Remove from list.</i>	
				*	*		16/04
22710	- RANGE FRONT LIGHT	27 40 36 N 82 34 06 W	Q W	18		On piles.	Visible 2° each side of rangeline. Lighted throughout 24 hours.
		*	*	*	*		16/04
22815	- NORTH RANGE REAR LIGHT 1,551 yards, 359.6° from front light.		Iso G 6s	59		KRW on skeleton tower on piles.	Visible 0.5° each side of range line. Lighted throughout 24 hours.
				*	*		16/04

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SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME III LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIRGIN PASSAGE AND SONDE DE VIEQUES (Chart 25650)							
Isla de Vieques							
31705	PUNTA ESTE LIGHT	18 08 12 N 65 16 06 W	Fl W 6s	43	6	NR on tower.	
				*			16/04

CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*811	Remington-102-3 Lighted Buoy Marks subsea Installation	28 18 11 N 91 28 28 W	Fl W 2.5s			White with orange bands.	SIGN: REMINGTON-EI-304-1. Private aid.
							16/04
968	Remington-250-11 Lighted Buoy Marks subsea installation.	28 37 11 N 93 01 22 W	Fl W 2.5s			White and orange bands.	SIGN: REMINGTON-WC-457-1. Private aid. Ra ref.
		*	*	*		*	*
3185	- Lighted Buoy 1 75 feet outside channel limit.	30 06 36 N 85 44 53 W	Fl G 4s	4	Green.		16/04
		*	*				
3190	- Lighted Buoy 2 75 feet outside channel limit.	30 06 32 N 85 44 49 W	Fl R 4s	4	Red.		16/04
		*	*				
3205	- Lighted Buoy 5 120 feet outside channel limit.		Fl G 4s	3	Green.		16/04
		*					
3246	- Lighted Buoy 15 80 feet outside channel limit.		Fl G 2.5s	4	Green.		16/04
		*					
3247	- Lighted Buoy 16 80 feet outside channel limit.		Fl R 2.5s	4	Red.		16/04
		*					
3340 29785	- West Lighted Buoy 9	30 09 50 N 85 42 50 W	Fl G 2.5s	3	Green with yellow square.		
		*					16/04

PASCAGOULA HARBOR (Chart 11375)

Bayou Casotte Channel

7355 29785	- RANGE A FRONT LIGHT	30 20 09 N 88 30 46 W	Fl W 2.5s (Day) Fl G 2.5s (Night)	48 45	Skeleton tower on piles.	Visible on range line only.
				*		16/04

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SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7360	- RANGE A REAR LIGHT 935 yards, 000.2° from front light.	30 20 36 N 88 30 47 W	Iso W 6s (Day) Iso G 6s (Night)	80 83		Skeleton tower on piles.	Visible on range line only. *
							16/04
	*Delete Heading: *LAKES PONTCHARTRAIN AND MAUREPAS (Chart 11369)						
10425	Pass Manchac Channel Daybeacon 2						<i>Remove from list.</i>
							*
							16/04
	*Add Heading: *LAKES PONTCHARTRAIN AND MAUREPAS (Chart 11369)						
10426	Williams Land Company Danger Daybeacon South	30 19 52 N 90 24 42 W		7		NW on pile.	Worded: DANGER BARRICADE AHEAD
							*
							16/04
13408	Wills Point Anchorage Upper Daybeacon 67.6	29 45 03 N 90 00 57 W				NY on pile.	Ra ref.
							*
							16/04
	NEW ORLEANS HARBOR (Chart 11368)						
	Head of Passes to New Orleans						
	<i>Designations left descending bank (LDB) and right descending bank (RDB) are as seen from a vessel going downstream. Mileage given indicates the number of miles above Head of Passes Junction Light.</i>						
13579 33257	New Orleans General Anchorage Lower Daybeacon 90.1	29 55 52 N 89 59 41 W				NY on pile.	Ra ref.
							*
							16/04
14843	Baton Rouge General Anchorage Lower Daybeacon 225.8	30 23 32 N 91 13 28 W				NY on pile.	Ra ref.
							*
							16/04
							16/04
29785 3340	- West Lighted Buoy 9	30 09 50 N 85 42 50 W	Fl G 2.5s	4		Green with yellow square.	
							*
							16/04
33257 13579	New Orleans General Anchorage Lower Daybeacon 90.1	29 55 52 N 89 59 41 W				NY on pile.	Ra ref.
							*
							16/04

Note: Asterisks (*) indicate that column(s) in which a correction has been made or new information added.
Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
1120 25480	EGG ISLAND LIGHT E	60 22 00 N 145 45 09 W	Fl W 6s	33	9	NR on skeleton tower.	
		*					16/04
2289	Scripps Lighted Research Buoy <i>Station 101</i>					Remove from list.	
		*					16/04
3991	- Marine Optics Lighted Buoy					Remove from list.	
		*					16/04
	Redwood Creek						
5180	- ENTRANCE LIGHT 2	37 33 10 N 122 11 48 W	Q R	15	4	TR on pile.	
		*				Higher intensity beam upstream. HÖRN: 1 blast ev 10s (1s bl). Operates continuously from Oct. 1 to Apr. 1. Ra ref.	
		*					16/04
*8053	- Lawson Landing Daybeacon 7	38 13 32 N 122 57 37 W				SG on pile.	Private aid.
		*					16/04
8055	- Lawson Landing Daybeacon 9	38 13 38 N 122 57 43 W				SG on pile.	Private aid.
		*	*				16/04
9930	<i>Peacock Spit Lighted Bell Buoy 7</i>	46 15 09 N 124 05 59 W	Q G	3		Green.	
		*					16/04
15660	- South Reach Lighted Junction Buoy SC	46 55 19 N 124 02 49 W	Fl (2+1) R 6s	4		Red and green bands.	
		*					16/04
*17207	Hylebos Waterway Mooring Buoy (2)	47 16 30 N 122 23 00 W				White steel mooring balls.	Private aid.
		*					16/04
22401	JARVIS ISLAND LIGHT 1	55 30 24 N 132 33 37 W	Fl G 4s	12	4	SG on spindle.	
		*					16/04
22403	CLARK BAY LIGHT 2	55 29 56 N 132 35 09 W	Fl R 2.5s	8	4	TR on skeleton tower.	Obscured from 042° to 155°.
		*					16/04
22410	Clark Bay Daybeacon 3	55 29 18 N 132 37 05 W				SG on pile.	
		*					16/04

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SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
23416	Shakan Strait Buoy SS	56 07 42 N 133 29 59 W				Green and red bands. *	16/04
25470	PETER DAHL BAR CHANNEL LIGHT P	60 18 22 N 145 32 09 W	Fl W 2.5s	12	6	NR on skeleton tower.	Maintained from May 1 to Oct. 1. *
25480 1120	EGG ISLAND LIGHT E	60 22 00 N 145 45 09 W	Fl W 6s	33	9	NR on skeleton tower.	16/04 *
25483	POINT BENTINCK LIGHT	60 23 32 N 146 05 27 W	Fl W 4s	47	6	NR on skeleton tower.	16/04 *
25754	Valdez Terminal Coast Guard Mooring Buoy	61 05 31 N 146 24 49 W				White sphere with blue stripe. *	16/04
25824	Valdez Security Zone Lighted Buoy B	61 06 30 N 146 21 15 W	Fl Y 6s	5	Yellow pillar.	Port of Valdez security zone. *	16/04
26255	NINILCHIK CHANNEL ENTRANCE LIGHT	60 03 17 N 151 39 53 W	Fl W 4s	25	5	NR on tower.	Use only with local knowledge. *
				*	*		16/04

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SECTION II

CORRECTIONS TO PUB 112, LIST OF LIGHTS, 2004 EDITION							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
528 <i>F 6814.6</i>	-S. auxiliary breakwater, head.					Remove from list.	
529 <i>F 6814.5</i>	-Detached breakwater, W. head.	42° 58.7' N 144° 21.0' E	Iso.R. period 6s	59 18	11	Red tower; 30.	* 16/04
				*	*	*	
19725 <i>F 3525</i>	Tai O Bay.					Remove from list.	
27764 <i>F 0622.2</i>	-Mole, head.	15° 25.1' N 73° 47.6' E	Fl.W. period 10s fl. 1s, ec. 9s	26 8	10	White masonry tower; 20.	* 16/04
						Fl. R. 3s mark mooring dolphins SE.	
							* 16/04

CORRECTIONS TO PUB 113, LIST OF LIGHTS, 2003 EDITION							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
2960 <i>D 1892</i>	-Punta Borneira, No. "6".	42° 14.4' N 8° 47.5' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Red and white tower; 36.	Radar reflector.
		*			*	*	
2962 <i>D 1894.5</i>	-Dique Frigorificos del Morrazo, head.	42° 15.3' N 8° 47.1' W	Fl.(2)R. period 7s	23 7	3	Red round tower; 16.	Visible 080°-360°.
			*				* 16/04
2968 <i>D 1895.4</i>	--Inner mole, head.	42° 15.7' N 8° 46.9' W	Fl.(2+1)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 7.5s	7 2	1	White and red square tower; 23.	
			*	*	*		* 16/04
2972 <i>D 1896</i>	-Bouzas, Dique Muelle, 4th arm, head.	42° 14.0' N 8° 44.4' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green round tower; 16.	Obscured 061°-110°. Radar reflector.
					*	*	
2976 <i>D 1895.8</i>	-Ferry jetty, NE. corner.	42° 14.1' N 8° 45.1' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	5	Green 4-sided tower; 13.	Visible 072°-319°.
					*		16/04
24088 <i>D 2952</i>	-Ponta do Sol, island, N. point.	17° 12.8' N 25° 05.7' W	Fl.W. period 4s	49 15	9	Metal mast with lantern; 33.	
							* 16/04

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO PUB 113, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
24092 <i>D 2954</i>	-Ponta de Mangrade (Ponta Oeste).	17° 03.4' N 25° 21.8' W	Fl.(2)W. period 10s	367 112	13	White column, red lantern; 10.	Visible 005°-200°.
			*				16/04
24144 <i>D 2930</i>	-Ponta Calheta.	16° 34.0' N 24° 00.0' W	Fl.(4)W. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 5.2s	239 73	11	White column, red lantern; 14.	Visible 140°-030°.
			*			*	16/04
ILHA DO SAL:							
24148 <i>D 2921</i>	-Baia da Palmeira Range, front.	16° 45.0' N 22° 59.0' W	Fl.W. period 3.5s fl. 1s, ec. 2.5s	30 9	5	Red post; 23.	Marks oil pipeline.
			*				16/04
24188 <i>D 2923.3</i>	--Rear, 215 meters 306° from front.	16° 45.6' N 22° 54.2' W	2 F.W. (vert)	69 21	2	Framework tower on house; 23.	Occasional. Private light.
			*				16/04

CORRECTIONS TO PUB 115, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VATLESTRAUMEN:							
3592 <i>B 3808</i>	-Hilleren, E. side.	60° 20.0' N 5° 11.9' E	Oc.(2)W.R.G. period 8s	25 8	W. 10 R. 8 G. 7	White lantern.	G. 356°-356°30', W.-007°, R.-122°30', W.-126°30', G.-150°.
			*				16/04
14248 <i>L 4022</i>	-Sore Honningsvag.	70° 58.6' N 25° 58.1' E	Oc.(2)W.R.G. period 8s	95 29	W. 6 R. 4 G. 4	White lantern.	G. 296°-317°30', W.-050°, R.-145°, W.-152°30', obsc.-156°, W.-157°, G.-190°.
			*			*	16/04
*14257 <i>L 4024.1</i>	--S. mole, head.	70° 59.4' N 25° 57.6' E	Iso.G. period 2s				
							16/04
14276 <i>L 4034</i>	-Helnes.	71° 03.7' N 26° 13.4' E	Fl.(2)W. period 30s fl. 0.5s, ec. 7s fl. 0.5s, ec. 22s	123 37	17	White concrete tower; 33.	
			N(-•) period 30s			(3 & 10 cm)	
			*			*	16/04

Note: Asterisks (*) indicate that column(s) in which a correction has been made or new information added.

Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO PUB 115, RADIOBEACONS, 2003 EDITION

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
200	Hernes Light Station						Remove from list. * 16/04

CORRECTIONS TO PUB 116, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
9168 -Bedaro. C 6606		58° 53.8' N 17° 57.6' E	Iso.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°.
		*	*				16/04
11752 --Rear, 800 meters 113° from C 5743.1 front.		65° 32.2' N 22° 17.7' E	Q.W.	36 11	9	White tower, white triangular daymark, orange border, point down.	Visible on range line only. Radar reflector.
		*	*				16/04
12496 Someri Poolsaar. C 3595		58° 21.0' N 23° 44.4' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	76 23	15	White octagonal concrete tower, balcony; 66.	Shown Apr. 4 to Dec. 15.
		*	*				16/04
*12694 -Panga. C 3717.5		58° 34.2' N 22° 17.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	157 48	7	Red framework tower, white trapezoidal daymark; 98.	Shown Apr. 5 to Jan. 10.
							16/04

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SECTION II

**PUBLICATIONS AFFECTED BY NOTICE TO MARINERS
THROUGH NM 16/04**

Note: * indicates New Edition/New Publication; ** indicates Publication Canceled; N indicates Not For Sale

NGA Reference No.	Ed.	Notice to Mariners No.	NGA Reference No.	Ed.	Notice to Mariners No.	
NAUTALMANAC04	2004	29/03*				
COAST PILOT NOSPBCP1	33	27*,28,29,32,33,34, 39,42,46,48/03;1,6, 8,10/04				
NOSPBCP2	33	5*,6,9/04	TIDAL CURRENT TABLES			
NOSPBCP3	37	14/04*	NOSPBTCTATCSTN4	2004	N1/04*	
NOSPBCP4	35	34*,36,39,42,44,46, 47,51/03;6,7,8,9,11, 12/04	NOSPBTCTPACAS4	2004	N1/04*	
NOSPBCP5	31	51*,52/03;1,7,8,9, 10,12,13,15/04				
NOSPBCP6	34	13/04*				
NOSPBCP7	35	37*,38,39,42,44,45, 48,51/03;5,7,8,9, 14/04				
NOSPBCP8	25	32*,33,34,39,42,48, 51/03;1,7,8,10/04				
NOSPBCP9	21	30*,32,33,36,39,42, 48,51/03;8/04				
RADIO NAVIGATIONAL AIDS RAPUB117	2002	50/02*,13/03				
AMERICAN PRACTICAL NAVIGATOR NVPUB9	2002	36/02*,14,38/03				
INTERNATIONAL CODE OF SIGNALS CDPUBNV102	2003	20/03*				
WORLD PORT INDEX NVPUB150	2000	50/00*,14,15,16,20, 21,41,42,43,44,45, 46,47,48,49,51, 52/01;1,2,5,6,10,11, 12,16,19,21,22,27, 31,32,33,36,39,40, 42,46,49/02;2,7,10, 15,20/03				
DISTANCES BETWEEN PORTS NVPUB151	2001	4/02*				
RADAR NAVIGATION AND MANEUVERING BOARD MANUAL CDPUBNV1310	2001	51/01*				
SIGHT REDUCTION TABLES (MARINE)						
SRPUB229V1	1970	11/71*				
SRPUB229V2	1970	11/71*				
SRPUB229V3	1970	7/71*				
SRPUB229V4	1970	3/71*				
SRPUB229V5	1970	3/71*				
SRPUB229V6	1970	23/70*				
SIGHT REDUCTION TABLES (AIR)						
SRPUB249V1	2000	4/01*				
SRPUB249V2	1952	46/52*				
SRPUB249V3	1952	46/52*				
CHART NO. 1 WOBZC1	1997	18/98*				
CHART NO. 4 WOBZC4	1988	N23/91*				
ATLAS OF PILOT CHARTS						
NVPUB106	2002	42/03*				
NVPUB107	1998	30/99*				
NVPUB109	2001	49/02*				
USCG NAVIGATION RULES COMDTM166722D	1999	44/99*,52/00;16/04				
NOS TIDE TABLES						
NOSPBTTCWPACIN4	2004	N1/04*				
NOSPBTTECSTNSA4	2004	N1/04*				
NOSPBTTEURAFR4	2004	N1/04*				
NOSPBTWCSTNSA4	2004	N1/04*				

SECTION III

NM 16/04

BROADCAST WARNINGS

Details concerning the particulars of the broadcasting of radio navigational warnings may be found in Radio Navigational Aids, Pub. 117.

NAVAREA IV

Messages in force 011200Z April 2004:

2003 series	2004 series	84(11)	100(GEN)	104(11)
108(26,27)	57(GEN)	91(GEN)	102(GEN)	
387(GEN)	79(26)	93(25)	103(GEN)	

The summary of all NAVAREA IV messages in force as of 11 December 2003 is given in Section III of NM 52/03. Warnings issued during the subsequent quarter are issued in NM 13/04.

NAVAREA IV WARNINGS issued from 251300Z March to 011200Z April 2004.

95/04 thru 99/04. CANCELED.

100/04(GEN).

1. NAVAREA IV MESSAGES IN FORCE 271000Z MAR 2004. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2004 SERIES: 57(GEN), 79(26), 84(11), 87(GEN), 89(11,26), 91(GEN), 93(25), 95(14).
2. THE SUMMARY OF ALL NAVAREA IV MESSAGES IN FORCE AS OF 11 DEC 2003 IS GIVEN IN SEC III OF NM 52/03.
3. CANCEL NAVAREA IV 94/04.

(271010Z MAR 2004)

101/04. CANCELED.

102/04(GEN). NORTH ATLANTIC. RADIO SERVICES.
COGARD CAMSLANT SITOR AND TELEX OFF AIR.

(290030Z MAR 2004)

103/04(GEN). GPS SATELLITE SYSTEM.

1. PRN 30 UNUSABLE 011315Z TO 020115Z APR.
2. CANCEL THIS MSG 020215Z APR.

(291345Z MAR 2004)

104/04(11). FLORIDA-WEST COAST.

CHART 11424 (18TH ED).
DANGEROUS WRECK VICINITY 27-17.8N 082-42.6W.

(291540Z MAR 2004)

105/04. CANCELED.

SECTION III

HYDROLANTS

Messages in force 011200Z April 2004:

2000 series	604(26,27)	2399(24)	230(57)	453(24)	519(51)
2937(38)	738(35)	2406(54)	272(24)	467(23)	520(24)
3762(43)	1117(37)	2407(54)	309(GEN)	473(57)	521(24)
4265(44)	1242(24)	2408(54)	326(52,53,56)	478(51)	522(24)
2001 series	1291(37)	2409(54)	337(54)	480(22)	524(53)
611(44)	1422(53)	2410(54)	340(36)	486(52,53)	525(53)
2700(37)	1472(35)	2413(54)	355(53)	488(55)	526(53)
3161(44)	1731(35)	2414(54)	360(36,37,44)	495(GEN)	527(37)
2002 series	1944(53)	2416(54)	378(35)	496(36,37)	528(24)
245(GEN)	1999(23)	2418(52)	381(53)	500(36,37)	529(24)
246(GEN)	2031(55)	2419(54)	399(37)	503(GEN)	530(53)
2682(51)	2175(24)	2420(54)	409(26)	504(55)	532(24)
2848(37)	2203(53)	2004 series	413(54)	505(52,53)	533(24)
2003 series	2297(24)	164(53)	438(24)	513(56)	534(53)
41(37)	2319(53)	169(51,52)	440(55)	514(GEN)	535(24)
67(37)	2374(35)	224(24)	449(53)	515(52,53)	536(55)
544(55)	2384(23,24)	229(57)	452(55)	516(51,52)	

The summary of all HYDROLANTS in force as of 11 December 2003 is given in Section III of NM 52/03.
Warnings issued during the subsequent quarter are issued in NM 13/04.

HYDROLANT WARNINGS issued from 251300Z March to 011200Z April 2004.

487/04. CANCELED.

488/04(55). BLACK SEA. ORDNANCE.

1. GUNNERY/TORPEDO FIRING EXERCISES
312100Z MAR TO 042100Z APR
IN AREA BOUND BY 43-45.9N 037-17.6E,
44-00.0N 037-10.0E, 44-03.0N 037-46.0E,
43-47.2N 038-11.9E, 43-39.5N 038-02.5E.
2. CANCEL THIS MSG 042200Z APR.

(261120Z MAR 2004)

489/04 thru 494/04. CANCELED.

495/04(GEN).

1. HYDROLANT MESSAGES IN FORCE 271100Z MAR 2004. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2004 SERIES: 272(24), 309(GEN), 322(53), 326(52,53,56), 337(54), 340(36), 343(53), 355(53), 359(51), 360(36,37,44), 378(35), 381(53), 399(37), 409(26), 413(54), 436(GEN), 438(24), 440(55), 444(24), 449(53), 452(55), 453(24), 464(37), 467(23), 473(57), 478(51), 480(22), 483(24), 484(24), 485(55), 486(52,53), 487(55), 488(55), 489(37), 490(55), 491(GEN), 493(35), 494(55).
2. THE SUMMARY OF ALL HYDROLANT MESSAGES IN FORCE AS OF 11 DEC 2003 IS GIVEN IN SEC III OF NM 52/03.
3. CANCEL HYDROLANT 249/04, 259/04, 468/04, 469/04, 479/04.

(271110Z MAR 2004)

496/04(36,37). CELTIC SEA.

UNDERWATER OPERATIONS IN PROGRESS UNTIL FURTHER NOTICE BY CABLESHIP WAVE SENTINEL VICINITY 48-48.8N 006-20.7W.
WIDE BERTH REQUESTED.

(271140Z MAR 2004)

497/04 thru 499/04. CANCELED.

500/04(36,37). CELTIC SEA.

1. UNDERWATER OPERATIONS IN PROGRESS UNTIL FURTHER NOTICE BY CABLESHIP LEON THEVENIN VICINITY OF TRACKLINE BETWEEN 48-49N 006-00W AND 49-08N 005-52W.
WIDE BERTH REQUESTED.
2. CANCEL HYDROLANT 444/04(24).

(271240Z MAR 2004)

501/04 and 502/04. CANCELED.

SECTION III

503/04(GEN). SOUTH AFRICA TO NETHERLANDS.
 S/V ILLEX II, RED HULL, TWO PERSONS ON BOARD, UNREPORTED
 CAPE TOWN TO NETHERLANDS. VESSELS IN VICINITY REQUESTED
 TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
 REPORTS TO JRCC DEN HELDER.

(271320Z MAR 2004)

504/04(55). BLACK SEA. GUNNERY.
 1. GUNNERY EXERCISES 0530Z TO 1300Z DAILY
 31 MAR THRU 04 APR IN AREA BOUND BY
 45-03.5N 036-22.5E, 44-52.1N 036-22.5E,
 44-49.6N 035-50.5E, 44-59.9N 035-50.5E.
 2. CANCEL THIS MSG 041400Z APR.

(271340Z MAR 2004)

505/04(52,53). STRAIT OF SICILY.
 CHART 52170 (3RD ED).
 LIMARSI POINT LIGHT 36-44.2N 012-02.0E UNLIT.

(271436Z MAR 2004)

506/04 thru 512/04. CANCELED.

513/04(56). LIBYA. HAZARDOUS OPERATIONS.
 1. HAZARDOUS OPERATIONS 0700Z TO 1400Z DAILY
 03 THRU 10 APR IN AREA BOUND BY
 32-47N 012-50E, 32-49N 012-57E,
 33-00N 012-57E, 33-00N 012-56E.
 2. CANCEL THIS MSG 101500Z APR.

(291150Z MAR 2004)

514/04(GEN). GPS SATELLITE SYSTEM.
 1. PRN 30 UNUSABLE 011315Z TO 020115Z APR.
 2. CANCEL THIS MSG 020215Z APR.

(291354Z MAR 2004)

515/04(52,53). WESTERN MEDITERRANEAN SEA.
 1. CABLE OPERATIONS 02 THRU 09 APR
 BY CABLESHIP RENE DESCARTES
 ALONG TRACKLINE BETWEEN
 38-37N 007-23E AND 38-42N 007-09E.
 WIDE BERTH REQUESTED.
 2. CANCEL THIS MSG 10 APR.

(291456Z MAR 2004)

516/04(51,52). AFRICA-NORTHWEST COAST. GUNNERY.
 1. GUNNERY EXERCISES 02 THRU 30 APR
 WITHIN 20 MILES OF:
 A. 33-41N 008-03W.
 B. 29-53N 010-15W.
 C. 27-00N 013-50W.
 D. 23-35N 017-00W.
 E. 35-22N 004-05W.
 2. CANCEL THIS MSG 01 MAY.

(291630Z MAR 2004)

517/04 and 518/04. CANCELED.

519/04(51). NORTH ATLANTIC.
 MAN OVERBOARD IN AREA BETWEEN 05-00N 06-00N AND
 019-00W 020-00W. VESSELS IN VICINITY REQUESTED
 TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
 REPORTS TO MRCC GRIS NEZ, TELEX: 4213 4022,
 PHONE: 333 2187 2187, FAX: 333 2187 7855.

(300720Z MAR 2004)

520/04(24). BRAZIL-EAST COAST.
 1. SEISMIC SURVEY IN PROGRESS UNTIL 01 APR BY
 M/V RAMFORM VIKING TOWING EIGHT 6000 METER
 LONG CABLES IN AREA BETWEEN
 13-09S 13-45S AND 038-56W 038-31W.
 FOUR MILE BERTH REQUESTED.
 2. CANCEL THIS MSG 02 APR.

(300750Z MAR 2004)

SECTION III

NM 16/04

521/04(24). BRAZIL-EAST COAST.

1. SEISMIC SURVEY BY M/V TROPICALIENTE TOWING TWO 20 METER LONG CABLES AND M/V BULLDOG TOWING TWO 15 METER LONG CABLES:
 - A. IN PROGRESS UNTIL 31 MAR IN AREA BOUND BY 13-38.90S 038-53.98W, 13-41.30S 038-48.15W, 13-41.68S 038-48.33W, 13-39.28S 038-53.42W.
 - B. 01 APR IN AREA BOUND BY 13-39.38S 038-53.45W, 13-41.78S 038-48.38W, 13-42.17S 038-48.58W, 13-39.78S 038-53.65W.ONE MILE BERTH REQUESTED.
2. CANCEL THIS MSG 02 APR.

(300810Z MAR 2004)

522/04(24). BRAZIL-EAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 01 APR BY M/V VERITAS VIKING TOWING EIGHT 6000 METER LONG CABLES IN AREA BETWEEN 15-42S 15-08S AND 038-48W 037-47W. SIX MILE BERTH REQUESTED.
2. CANCEL THIS MSG 02 APR.

(300815Z MAR 2004)

523/04. CANCELED.

524/04(53). SICILIA-SOUTHEAST COAST. GUNNERY.

1. GUNNERY EXERCISES SUNRISE TO SUNSET DAILY 01, 02, 05 THRU 09, 13 THRU 16, 19 THRU 23 AND 26 THRU 30 APR WITHIN 1.5 MILES OF 36-39-19N 015-00-53E.
2. CANCEL THIS MSG 01 MAY.

(301120Z MAR 2004)

525/04(53). SARDEGNA-NORTHWEST COAST.

1. OCEANOGRAPHIC OPERATIONS 01 THRU 10 APR BY M/V L'EUROPE VICINITY:
 - A. 40-51.02N 008-26.61E.
 - B. 40-51.71N 008-22.39E.
 - C. 40-52.86N 008-18.57E.
 - D. 40-59.16N 008-16.08E.
 - E. 41-03.68N 008-18.28E.WIDE BERTH REQUESTED.
2. CANCEL THIS MSG 11 APR.

(301140Z MAR 2004)

526/04(53). SARDEGNA-EAST COAST. MISSILES. ROCKETS.

1. HAZARDOUS OPERATIONS:
 - A. 0600Z TO 1800Z DAILY 01, 02, 05 THRU 09, 13 THRU 16, 19 THRU 23 AND 26 THRU 30 APR IN AREA BOUND BY 40-00N 010-00E, 40-00N 010-30E, 39-10N 010-30E, 39-10N 010-00E, 39-26N 009-38E, 39-38N 009-38E.
 - B. 0700Z TO 1530Z DAILY 01, 06 THRU 08, 13 THRU 15, 20 THRU 22 AND 27 THRU 29 APR IN AREA BOUND BY 40-15N 010-00E, 40-15N 011-31E, 40-11N 011-33E, 39-32N 011-38E, 38-52N 011-28E, 39-10N 010-00E, 39-28N 009-38E, 39-43N 009-40E.
 - C. 0700Z TO 1530Z DAILY 01, 06 THRU 08, 13 THRU 15, 20 THRU 22 AND 27 THRU 29 APR IN AREA BOUND BY 40-37N 009-50E, 40-40N 010-35E, 40-40N 010-50E, 39-20N 010-50E, 39-20N 009-47E, 39-24N 009-40E.
2. CANCEL THIS MSG 301900Z APR.

(301240Z MAR 2004)

527/04(37). ENGLAND-EAST COAST. NORTH SEA.

DISTRESS SIGNAL RECEIVED ON 121.5 MHZ IN 53-29N 002-18E AT 301639Z MAR. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO UKMRCC.

(301834Z MAR 2004)

528/04(24). BRAZIL-SOUTH COAST.

1. F/V VALIO II, SIX PERSONS ON BOARD, PARTIALLY SUBMERGED AND ADRIFT IN 29-09.7S 049-07.2W AT 301335Z MAR. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO ANY COASTAL RADIO STATION.
2. CANCEL HYDROLANT 510/04.

(310640Z MAR 2004)

SECTION III

529/04(24). BRAZIL-SOUTH COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 030259Z APR
BY M/V CGG HARMATTAN TOWING SIX 6000 METER
LONG CABLES IN AREA BOUND BY
25-32S 045-59W, 25-37S 045-59W,
25-29S 045-24W, 25-26S 045-25W.
FOUR MILE BERTH REQUESTED.
2. CANCEL THIS MSG 030359Z APR.

(310720Z MAR 2004)

530/04(53). SICILIA-EAST COAST. GUNNERY.

1. GUNNERY EXERCISES 020600Z TO 021300Z APR IN AREA
BETWEEN 37-15N 37-25N AND 015-35E 015-48E.
2. CANCEL HYDROLANT 489/04(37), AID RESTORED.
3. CANCEL THIS MSG 021400Z APR.

(311140Z MAR 2004)

531/04. CANCELED.

532/04(24). NORTH ATLANTIC.

DISTRESS SIGNAL RECEIVED ON 406 MHZ VICINITY
03-43.06N 031-47.35W. VESSELS IN VICINITY
REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF
POSSIBLE. REPORTS TO ANY COASTAL RADIO STATION.

(010242Z APR 2004)

533/04(24). BRAZIL-SOUTH COAST.

1. SURVEY OPERATIONS IN PROGRESS UNTIL 080259Z APR
BY M/V POLAR BJORN TOWING 50 METER
LONG CABLE IN AREA BETWEEN
24-10S 24-36S AND 043-00W 044-43W.
TWO MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 2354/03.
3. CANCEL THIS MSG 080359Z APR.

(010720Z APR 2004)

534/04(53). SICILIA-EAST COAST.

CHART 53200 (6TH ED).
DROMO GIGGIA LIGHT 37-12N 015-09E UNLIT.

(011020Z APR 2004)

535/04(24). BRAZIL-SOUTH COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 1030Z TO 2030Z DAILY 05 THRU 20 APR
IN AREA BOUND BY 24-14S 045-00W,
23-52S 045-14W, 23-47S 044-58W,
23-52S 044-52W, 24-06S 044-49W.
2. CANCEL THIS MSG 202130Z APR.

(011040Z APR 2004)

536/04(55). BLACK SEA. GUNNERY.

1. GUNNERY EXERCISES 050530Z TO 051300Z APR
IN AREA BOUND BY
45-03.5N 036-22.5E, 44-52.1N 036-22.5E,
44-49.6N 035-50.5E, 44-59.9N 035-50.5E.
2. CANCEL HYDROPAC 512/04, OPERATIONS CANCELED.
3. CANCEL THIS MSG 051400Z APR.

(011120Z APR 2004)

SECTION III**NAVAREA XII**

Messages in force 011200Z April 2004:

2003 series 262(GEN)	2004 series 70(GEN)	110(18) 111(GEN)	112(19) 114(GEN)	118(18)
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The summary of all NAVAREA XII messages in force as of 11 December 2003 is given in Section III of NM 52/03.
Warnings issued during the subsequent quarter are issued in NM 13/04.

NAVAREA XII WARNINGS issued from 251300Z March to 011200Z April 2004.

108/04 and 109/04. CANCELED.

110/04(18). NORTH PACIFIC. NAVTEX.

NAVTEX STATIONS CAMBRIA AND ASTORIA OFF AIR. BROADCASTS
WILL BE TRANSMITTED FROM NAVTEX STATION PT REYES.

(270206Z MAR 2004)

111/04(GEN).

1. NAVAREA XII MESSAGES IN FORCE 271000Z MAR 2004. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2004 SERIES: 70(GEN), 75(19), 96(GEN), 107(18), 110(GEN).
2. THE SUMMARY OF ALL NAVAREA XII MESSAGES IN FORCE AS OF 11 DEC 2003 IS GIVEN IN SEC III OF NM 52/03.
3. CANCEL NAVAREA XII 102/04.

(271020Z MAR 2004)

112/04(19). NORTH PACIFIC. HAWAII. MISSILES.

1. INTERMITTENT MISSILE FIRING OPERATIONS 0001Z TO 2400Z DAILY MONDAY THRU SUNDAY IN THE PACIFIC MISSILE RANGE FACILITY, HAWAIIAN AREA, BARKING SANDS, KAUAI. THE MAJORITY OF MISSILE FIRINGS TAKE PLACE 1600Z TO 0400Z DAILY MONDAY THRU FRIDAY. THE PACIFIC MISSILE RANGE FACILITY HAWAIIAN AREA (W188) IS BOUND BY:
 - A. 22-00.0N 159-51.0W.
 - B. 22-00.0N 160-00.0W THENCE CCW THREE MILES FROM
 - C. 22-02.7N 160-09.1W. NIIHAU/LEHUA.
 - D. 22-03.0N 160-21.0W.
 - E. 22-05.0N 161-35.0W THENCE CW 100 MILES FROM
 - F. 22-02.4N 159-47.3W. BARKING SANDS TACAN.
 - G. 22-45.0N 161-25.0W.
 - H. 22-56.0N 161-49.0W THENCE CW 125 MILES FROM
 - I. 22-02.4N 159-47.3W. BARKING SANDS TACAN.
 - J. 23-57.0N 160-41.0W.
 - K. 25-41.0N 161-36.0W THENCE CW 240 MILES FROM
 - L. 22-02.4N 159-47.3W. BARKING SANDS TACAN.
 - M. 25-47.0N 158-15.0W.
 - N. 23-54.0N 158-15.0W.
 - O. 22-20.0N 159-09.0W THENCE CCW 25 MILES FROM
 - P. 21-58.1N 159-20.5W. LIHUE VORTAC.
 - Q. 22-13.0N 159-42.0W THENCE CCW THREE MILES AND PARALLEL TO THE SHORELINE OF KAUAI.
 - R. 22-00.0N 159-51.0W.
2. VESSELS MAY BE REQUESTED TO ALTER COURSE WITHIN THE ABOVE AREA DUE TO FIRING OPERATIONS AND ARE REQUESTED TO CONTACT "MISSILE RANGE BARKING SANDS" ON 2182 KHZ, 4491 USB OR 156.8 MHZ (CHANNEL 16) BEFORE ENTERING THE ABOVE BOUNDARIES. IF UNABLE TO CONTACT THE PACIFIC MISSILE RANGE FACILITY PRIOR TO ENTERING OR WHILE IN THE WARNING AREA, RELAY MESSAGES THROUGH U.S. COAST GUARD HONOLULU.
3. VESSELS INBOUND AND OUTBOUND FOR HAWAIIAN PORTS WILL CREATE THE LEAST INTERFERENCE TO FIRING OPERATIONS AS WELL AS ENHANCE THE VESSEL'S SAFETY BY PASSING SOUTH OF THE ISLANDS OF KAUAI AND NIIHAU DURING SPECIFIED TIMES.
4. CANCEL NAVAREA XII 75/04.

(271040Z MAR 2004)

113/04. CANCELED.

114/04(GEN). GPS SATELLITE SYSTEM.

1. PRN 30 UNUSABLE 011315Z TO 020115Z APR.
2. CANCEL THIS MSG 020215Z APR.

(291402Z MAR 2004)

115/04 thru 117/04. CANCELED.

SECTION III

118/04(18). EASTERN NORTH PACIFIC. MISSILES.

1. INTERMITTENT MISSILE FIRING OPERATIONS 0001Z TO 2359Z DAILY MONDAY THRU SUNDAY IN THE NAVAL AIR WARFARE CENTER SEA RANGE. THE MAJORITY OF MISSILE FIRINGS TAKE PLACE 1400Z TO 2359Z AND 0001Z TO 0200Z DAILY MONDAY THRU FRIDAY. THE SEA RANGE IS BOUND AS FOLLOWS:

A. 34-02N 119-04W. M. THENCE THREE NAUTICAL MILES FROM AND PARALLEL

B. 33-52N 119-06W. TO THE SHORELINE.

C. 33-29N 119-07W. N. 34-24N 120-30W.

D. 33-29N 118-37W. O. 34-08N 120-26W.

E. 33-20N 118-37W. P. 34-08N 119-40W.

F. 32-11N 120-16W. Q. 34-00N 119-40W.

G. 31-54N 121-35W. R. 34-06N 119-13W.

H. 35-09N 123-39W. S. 34-06N 119-11W.

I. 35-29N 123-00W. T. 34-07N 119-10W.

J. 35-04N 122-43W. U. 34-07N 119-07W.

K. 35-57N 121-32W. V. 34-04N 119-04W.

L. 34-59N 120-42W.

2. VESSELS MAY BE REQUESTED TO ALTER COURSE WITHIN THE ABOVE AREA DUE TO FIRING OPERATIONS AND ARE REQUESTED TO CONTACT PLEAD CONTROL ON 5081.5 KHZ (5080 KHZ) OR 3238.5 KHZ (3237 KHZ) SECONDARY OR 156.8 MHZ (CH 16) OR 127.55 MHZ BEFORE ENTERING THE ABOVE BOUNDARIES AND MAINTAIN CONTINUOUS GUARD WHILE WITHIN THE RANGE.

3. VESSELS INBOUND AND OUTBOUND FOR SOUTHERN CALIFORNIA PORTS WILL CREATE THE LEAST INTERFERENCE TO FIRING OPERATIONS DURING THE SPECIFIC PERIODS, AS WELL AS ENHANCE THE VESSEL'S SAFETY WHEN PASSING THROUGH THE VICINITY OF THE SEA RANGE. IF THEY WILL TRANSIT VIA THE SANTA BARBARA CHANNEL AND WITHIN NINE MILES OFFSHORE VICINITY OF POINT MUGU OR CROSS THE AREA SOUTHWEST OF SAN NICOLAS ISLAND BETWEEN SUNSET AND SUNRISE.

4. CANCEL NAVAREA XII 107/04.

(011010Z APR 2004)

SECTION III HYDROBACS

Messages in force 011200Z April 2004:

2001 series	998(71)	302(62)	438(93)	530(61)	570(76)
1976(62)	1041(71)	307(61)	453(61)	534(29)	572(83)
2002 series	1198(92)	308(61)	455(73)	537(76)	573(74)
205(GEN)	1330(62)	316(61)	459(63)	545(74)	574(63)
206(GEN)	1395(62)	317(95,96)	460(94)	548(63)	576(63)
403(72,73)	1699(63)	320(97)	464(63)	549(63)	577(GEN)
2330(62)	1700(62)	329(71)	465(63)	552(76)	580(74)
2003 series	1911(62)	331(GEN)	466(63)	554(29)	581(74)
167(95)	1982(GEN)	352(63)	485(81)	555(76)	583(61,63)
207(62)	2004(73,74)	368(63)	487(76)	556(GEN)	584(83)
495(62)	2159(63)	380(74,82)	493(63)	558(94,95)	587(63,71)
496(62)	2265(62)	387(22)	494(61)	559(94,95)	588(63)
506(62)	2275(22)	394(83)	495(61)	560(95)	589(81)
638(62)	2004 series	402(62)	509(63)	561(95)	590(63)
760(63)	23(62)	403(62)	520(74)	562(94,95)	592(61)
761(63)	277(63)	408(63)	523(63)	563(94,95)	593(61)
993(62)	278(63)	426(74)	527(71,93)	564(71)	

The summary of all HYDROBACS in force as of 11 December 2003 is given in Section III of NM 52/03. Warnings issued during the subsequent quarter are issued in NM 13/04.

HYDROBAC WARNINGS issued from 251300Z March to 011200Z April 2004.

543/04 and 544/04. CANCELED.

545/04(74). AUSTRALIA-NORTHWEST COAST.

SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE BY
M/V VERITAS VIKING II TOWING FOUR MILE LONG CABLE
IN AREA BETWEEN 19-20S 19-55S AND 113-40E 114-30E.
WIDE BERTH REQUESTED.

(261040Z MAR 2004)

546/04 and 547/04. CANCELED.

548/04(63). INDIA-WEST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 14 APR BY
M/V RAMFORM CHALLENGER IN AREA BOUND BY
19-32N 072-30E, 19-19N 072-30E,
19-21N 071-57E, 19-32N 071-57E.
WIDE BERTH REQUESTED.
2. CANCEL HYDROBAC 547/04(74), VESSEL ASSISTED.
3. CANCEL HYDROBAC 339/04.
4. CANCEL THIS MSG 15 APR.

(261339Z MAR 2004)

549/04(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 1330Z TO 1700Z DAILY
31 MAR AND 01 APR WITHIN 75 MILES
OF 08-31.9N 076-52.1E.
2. CANCEL THIS MSG 021800Z APR.

(261425Z MAR 2004)

550/04 and 551/04. CANCELED.

552/04(76). NEW ZEALAND. NORTH ISLAND-EAST COAST.

CHART 76054 (5TH ED).
SLIPPER ISLAND LIGHT 37-03S 175-57E UNLIT.

(270017Z MAR 2004)

553/04. CANCELED.

554/04(29). SOUTH ATLANTIC. ANTARCTICA. ICE.

1. ICEBERGS REPORTED ON 26 MAR:
 - A. A-22A, 23 MILES BY 32 MILES IN 76-24S 052-18W.
 - B. A-23A, 32 MILES BY 34 MILES IN 76-06S 041-36W.
 - C. A-27, THREE MILES BY 14 MILES IN 75-54S 042-54W.
 - D. A-43A, 14 MILES BY 35 MILES IN 64-18S 054-30W.
 - E. A-43E, TEN MILES BY 14 MILES 66-30S 059-12W.
 - F. A-43F, 22 MILES BY 44 MILES 66-18S 060-00W.
 - G. A-52, EIGHT MILES BY 22 MILES 64-54S 057-54W.
2. CANCEL HYDROBAC 526/04.
3. CANCEL THIS MSG 03 APR.

(270238Z MAR 2004)

SECTION III

555/04(76). NEW ZEALAND-SOUTH COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE
BY M/V POLAR DUKE TOWING 6000 METER LONG CABLE
IN AREA BOUND BY
47-08S 168-50E, 47-08S 170-00E,
48-16S 170-30E, 48-17S 169-00E,
47-50S 167-55E. WIDE BERTH REQUESTED.
2. CANCEL HYDROPAC 344/04.

(270304Z MAR 2004)

556/04(GEN).

1. HYDROPAC MESSAGES IN FORCE 271100Z MAR 2004. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2004 SERIES: 302(62), 307(61), 308(61), 316(61), 317(95,96), 320(97), 329(71), 331(61), 351(71), 352(63), 356(94,95), 357(94,95), 358(94,95), 359(61), 365(63), 368(63), 369(95), 370(95), 371(94,95), 380(74,82), 387(22), 394(83), 402(62), 403(62), 408(63), 426(74), 438(93), 453(61), 455(73), 457(95,96), 458(63), 459(63), 460(94), 464(63), 465(63), 466(63), 477(81), 485(81), 487(76), 492(61), 493(63), 494(61), 495(61), 501(61), 509(63), 519(63), 520(74), 522(61), 523(63), 527(71,93), 530(61), 532(83), 534(29), 537(76), 538(74), 542(63), 545(74), 548(63), 549(63), 552(76), 554(29), 555(76).
2. THE SUMMARY OF ALL HYDROPAC MESSAGES IN FORCE AS OF 11 DEC 2003 IS GIVEN IN SEC III OF NM 52/03.
3. CANCEL HYDROPAC 238/04, 270/04, 386/04, 389/04, 510/04, 529/04, 531/04, 539/04, 540/04, 543/04, 546/04.

(271120Z MAR 2004)

557/04. CANCELED.

558/04(94,95). YELLOW SEA. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1300Z DAILY
01 THRU 03, 06 THRU 10, 12 THRU 17,
19 THRU 24 AND 26 THRU 30 APR
IN AREA BETWEEN
36-05N 36-35N AND 124-50E 125-42E.
2. CANCEL THIS MSG 301400Z APR.

(271350Z MAR 2004)

559/04(94,95). YELLOW SEA. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1300Z DAILY
01 THRU 03, 06 THRU 10, 12 THRU 17,
19 THRU 24 AND 26 THRU 30 APR
IN AREA BOUND BY
36-35N 125-36.0E, 36-35N 124-50.0E,
37-06.0N 124-50.0E, 37-10.2N 125-36.0E.
2. CANCEL THIS MSG 301400Z APR.

(271410Z MAR 2004)

560/04(95). SEA OF JAPAN. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1300Z DAILY
01 THRU 03, 06 THRU 10, 12 THRU 17,
19 THRU 24 AND 26 THRU 30 APR
IN AREA BOUND BY
38-25N 128-45E, 38-25N 129-30E,
38-10N 129-30E, 38-10N 129-00E,
38-17N 129-00E, 38-17N 128-45E.
2. CANCEL THIS MSG 301400Z APR.

(271503Z MAR 2004)

561/04(95). SEA OF JAPAN. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1300Z DAILY
01 THRU 03, 06 THRU 10, 12 THRU 17,
19 THRU 24 AND 26 THRU 30 APR
IN AREA BOUND BY
38-08N 129-51E, 38-08N 130-10E,
37-39N 130-10E, 37-42N 129-51E.
2. CANCEL THIS MSG 301400Z APR.

(271515Z MAR 2004)

562/04(94,95). YELLOW SEA. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1300Z DAILY
01 THRU 03, 06 THRU 10, 12 THRU 17,
19 THRU 24 AND 26 THRU 30 APR
IN AREA BETWEEN
34-50N 35-15N AND 124-50E 125-42E.
2. CANCEL THIS MSG 301400Z APR.

(271525Z MAR 2004)

SECTION III

563/04(94,95). YELLOW SEA. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1300Z DAILY
01 THRU 03, 06 THRU 10, 12 THRU 17,
19 THRU 24 AND 26 THRU 30 APR
IN AREA BETWEEN
35-35N 36-00N AND 125-00E 125-30E.
2. CANCEL THIS MSG 301400Z APR.

(271542Z MAR 2004)

564/04(71). STRAIT OF MALACCA. GUNNERY.

1. GUNNERY EXERCISES 0001Z TO 1601Z DAILY
01 THRU 03, 05 THRU 10, 12 THRU 17,
19 THRU 24 AND 26 THRU 30 APR IN
AREA BOUND BY 04-14N 100-17E,
04-33N 099-48E, 04-53N 100-06E.
2. CANCEL THIS MSG 301701Z APR.

(271550Z MAR 2004)

565/04 thru 569/04. CANCELED.

570/04(76). NEW ZEALAND. NORTH ISLAND-WEST COAST.

SURVEY OPERATIONS IN PROGRESS UNTIL FURTHER NOTICE
BY M/V OCEAN ENDEAVOUR TOWING ONE MILE LONG CABLE
VICINITY 39-14S 173-10E. TWO MILE BERTH REQUESTED.

(282330Z MAR 2004)

571/04. CANCELED.

572/04(83). FIJI ISLANDS.

CHART 83570 (2ND ED), 83590 (1ST ED).

1. LIGHTS UNLIT:
A. MBATIKI ISLAND LIGHT 17-46S 179-08E.
B. THAKAU MOMO LIGHT 17-39S 179-16E.
C. CAPE WASHINGTON LIGHT 19-07S 177-58E.
D. NORTH ASTROLABE REEF LIGHT 18-38S 178-32E.
2. CANCEL HYDROPAC 532/04.

(290940Z MAR 2004)

573/04(74). AUSTRALIA-NORTHWEST COAST.

SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE BY
M/V WESTERN TRIDENT TOWING TEN 2.5 MILE LONG CABLES
IN AREA BETWEEN 19-10S 20-30S AND 112-30E 113-40E.
WIDE BERTH REQUESTED.

(291120Z MAR 2004)

574/04(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0230Z TO 1230Z DAILY 01 THRU 07 APR
IN AREA BETWEEN 15-13N 15-11N AND 073-57E 073-52E.
2. CANCEL THIS MSG 071330Z APR.

(291210Z MAR 2004)

575/04. CANCELED.

576/04(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0330Z TO 1530Z DAILY
02 AND 06 APR IN AREA BOUND BY
09-57.6N 075-59.5E, 09-57.7N 076-14.2E,
09-40.0N 076-14.5E, 09-42.5N 076-09.5E.
2. CANCEL THIS MSG 061630Z APR.

(291240Z MAR 2004)

577/04(GEN). GPS SATELLITE SYSTEM.

1. PRN 30 UNUSABLE 011315Z TO 020115Z APR.
2. CANCEL THIS MSG 020215Z APR.

(291410Z MAR 2004)

578/04 and 579/04. CANCELED.

580/04(74). AUSTRALIA-NORTHEAST COAST.

CHART 74281 (7TH ED).
RACON AT PIPER REEF LIGHT 12-15.2S 143-14.8E INOPERATIVE.

(300032Z MAR 2004)

581/04(74). INDIAN OCEAN.

MAN OVERBOARD FROM F/V ELIPSE XI IN 23-35.05S 096-39.20E
AT 300425Z MAR. VESSELS IN VICINITY REQUESTED
TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO RCC AUSTRALIA, TELEX: 7162025,
PHONE: 612 6230 6811, FAX: 612 6230 6868.

(300825Z MAR 2004)

582/04. CANCELED.

583/04(61,63). INDIAN OCEAN.

F/V LA FYERTE, GREEN HULL, THREE PERSONS ON BOARD, OVERDUE. LAST KNOWN POSITION 04-56S 054-54E ON 20 MAR. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO SEYCHELLES RADIO, TELEX: 9652262, PHONE: 248 375 733.

(301957Z MAR 2004)

584/04(83). SOUTH PACIFIC.

1. PYROTECHNICS EXERCISES 012200Z TO 012300Z APR IN AREA BOUND BY 16-50S 149-54W, 16-40S 150-05W, 16-33S 149-35W, 16-42S 149-35W.
2. CANCEL THIS MSG 012359Z APR.

(302150Z MAR 2004)

585/04 and 586/04. CANCELED.

587/04(63,71). ANDAMAN SEA.

M/V MAYANG SARI, 11 PERSONS ON BOARD, SINKING AND CREW ABANDONING SHIP IN 07-42-00N 094-25-28E AT 310130Z MAR. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO MRCC PORT BLAIR, PHONE: 319 223 2681, FAX: 319 223 5612.

(311110Z MAR 2004)

588/04(63). INDIA-EAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 20 APR BY M/V TEKNIK KEMBARA TOWING 1500 METER AND 4000 METER LONG CABLES IN AREA BOUND BY 15-58.8N 081-36.9E, 16-00.6N 081-39.8E, 15-57.8N 081-41.6E, 15-56.1N 081-38.8E. WIDE BERTH REQUESTED.
2. CANCEL HYDROPAC 458/04
3. CANCEL THIS MSG 21 APR.

(311150Z MAR 2004)

589/04(81). NORTH PACIFIC.

DISTRESS SIGNAL RECEIVED ON 121.5 MHZ IN 11-47.4N 133-14.3E AT 311119Z MAR. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO U.S. COAST GUARD GUAM.

(311210Z MAR 2004)

590/04(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 021030Z TO 021230Z APR WITHIN 13 MILES OF 22-28.7N 069-04.0E.
2. CANCEL THIS MSG 021330Z APR.

(311220Z MAR 2004)

591/04. CANCELED.

592/04(61). INDIAN OCEAN. ORDNANCE.

1. UNDERWATER ORDNANCE DETONATIONS IN PROGRESS UNTIL 302359Z APR IN AREA BETWEEN 09-00S 13-00S AND 070-00E 073-00E.
2. CANCEL THIS MSG 010059Z MAY.

(010610Z APR 2004)

593/04(61). INDIAN OCEAN. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS IN PROGRESS UNTIL 302359Z JUN:
 - A. IN AREA BETWEEN 09-00S 13-00S AND 070-00E 073-00E.
 - B. WITHIN 60 MILES OF 04-30S 075-30E.
2. CANCEL THIS MSG 010059Z JUL.

(010620Z APR 2004)

594/04. CANCELED.

SECTION III

NM 16/04

MARAD ADVISORIES

MARAD ADVISORIES rapidly disseminate information on government policy, danger and safety issues pertaining to vessel operations and other timely maritime matters. They are periodically issued by the U.S. Maritime Administration (MARAD) to vessel masters, operators, and other U.S. maritime interests.

The text of all in-force MARAD ADVISORIES may be obtained by accessing the NGA Maritime Safety Information website (http://164.214.12.145/warn/warn_j_query.html), by referring to Section I (paragraph 50) of US Notice to Mariners 1/04 for those in-force as of 18 December 2003, or by contacting the Maritime Administration Office of Ship Operations, Code MAR-613, Room 2123, 400 Seventh Street S.W., Washington DC 20590, Telephone (202) 366-5735, FAX (202) 366-3954, TLX II 710-822-9426 (MARAD DOT WSH).

MARAD ADVISORIES in force 1 April 2004: 00-7, 01-7, 02-2, 02-5, 02-7, 03-4 and 04-1.

SPECIAL WARNINGS

SPECIAL WARNINGS, primarily intended to announce official government proclamations affecting shipping, are broadcast as needed. They are numbered consecutively and further promulgated in the Notice to Mariners.

The text of all in-force SPECIAL WARNINGS may be obtained by accessing the NGA Maritime Safety Information website (http://164.214.12.145/warn/warn_j_query.html) or by referring to Section I (paragraph 7) of US Notice to Mariners 1/04 for those in-force as of 18 December 2003.

SPECIAL WARNINGS in force 1 April 2004: 1, 29, 77, 81, 82, 89, 92, 95, 107, 108, 111, 113, 114, 115, 116, 117, 118, 119, 120 and 121.

MARINE INFORMATION**CABO FINISTERRE NEW AND AMENDED TRAFFIC SEPARATION SCHEMES**

The following new and amended IMO traffic separation schemes will come into effect at 0001 GMT 1 June, 2004.

Description of the traffic separation scheme west of Cabo Finisterre (WGS 84 Datum).

The direction of navigation will be:

a southbound hazardous traffic lane, 208°(T) 13.8 miles, thence southbound 180°(T) to the southern limit of the scheme.

a southbound non-hazardous traffic lane, 208°(T) 12 miles, thence southbound 180°(T) to the southern limit of the scheme.

a northbound hazardous traffic lane, 000°(T) 20.8 miles, thence northeastward 028°(T) to the northeastern limit of the scheme.

a northbound non-hazardous traffic lane, 000°(T) 18 miles, thence northeastward 028°(T) to the northeastern limit of the scheme.

A separation zone bound by the following positions:

42° 52.9' N 009° 59.0' W

43° 14.7' N 009° 59.0' W

43° 26.4' N 009° 50.0' W

43° 28.2' N 009° 56.0' W

43° 16.4' N 010° 04.3' W

42° 52.9' N 010° 04.3' W

A traffic lane for southbound hazardous traffic between the separation zone and a line connecting the following positions:

43° 30.0' N 010° 01.2' W

43° 17.7' N 010° 09.8' W

42° 52.9' N 010° 09.8' W

A traffic lane for southbound non-hazardous traffic between the separation zone and a line connecting the following positions:

43° 28.2' N 009° 56.0' W

43° 16.4' N 010° 04.3' W

42° 52.9' N 010° 04.3' W

A traffic lane for northbound hazardous traffic between the separation zone and a line connecting the following positions:

43° 25.0' N 009° 47.0' W

43° 13.7' N 009° 54.8' W

42° 52.9' N 009° 54.8' W

A traffic lane for northbound non-hazardous traffic between the separation zone and a line connecting the following positions:

43° 21.5' N 009° 37.7' W

43° 11.0' N 009° 45.2' W

42° 52.9' N 009° 45.2' W

Charts affected: 37034, 51011

SECTION III**NEW EDITION OF SAILING DIRECTIONS**

Pub. 164, Sailing Directions (Enroute) New Guinea, Eighth Edition, 2003, is ready for issue. This publication has been corrected to 11 October 2003, including Notice to Mariners No. 41 of 2003.

This edition is produced by NGA in digital format only, available on CD-ROM and/or electronic access through the World Wide Web.

Digital Nautical publications will be updated using a binary executable called "Publication Data Update (PDU)". PDU updates are cumulative or sequential ensuring customers will not miss any changes and may be accessed on the Maritime Safety Information Division website (<http://pollux.nss.nga.mil>).

NOAA CHART NEW EDITIONS AND THEIR AVAILABILITY

NOAA recognizes two paper nautical chart products:

- the Charts-on-Demand Chart distributed by OceanGrafix (www.OceanGrafix.com), and
- the Traditional NOAA/NOS paper Chart distributed by the Federal Aviation Administration and the National Geospatial - Intelligence Agency (NGA).

The Charts-on-Demand Chart is available the day after NOAA clears a New Edition for release. The Traditional Chart is available two to eight weeks later. Each is official, should be put into service immediately, and meets Federal chart carriage requirements immediately upon its release. For questions contact NOAA at help@nauticalcharts.gov or call 301-713-1773 x 105. Dates of Latest Edition for both charts are listed at <http://nauticalcharts.noaa.gov>
This week's new editions released by NOAA are listed below.

531	22 nd Ed. Mar 2004 NEW EDITION GULF OF ALASKA-STRAIT OF JUAN DE FUCA TO KODIAK ISLAND (New edition due to changes in hydrography.)	NAD 83	(NOS Silver Spring, MD) 1:2,100,000/LORAN-C
11372	31 st Ed. Mar 2004 NEW EDITION MS-LA-IWW-DOG KEYS PASS TO WAVELAND (New edition due to numerous Notice to Mariner changes and various general changes.)	NAD 83	(NOS Silver Spring, MD) 1:40,000
11385	26 th Ed. Mar 2004 NEW EDITION FL-IWW-WEST BAY TO SANTA ROSA SOUND (New edition due to numerous Notice to Mariner changes and various general changes.)	NAD 83	(NOS Silver Spring, MD) 1:40,000
13224	37 th Ed. Mar 2004 NEW EDITION RI-PROVIDENCE RIVER AND HEAD OF NARRAGANSETT BAY (New edition due to various general changes.)	NAD 83	(NOS Silver Spring, MD) 1:20,000
14791	18 th Ed. Mar 2004 NEW EDITION NY-NEW YORK STATE CANAL SYSTEM-CAYUGA AND SENECA LAKES INSETS: Seneca Lake Cayuga Lake (New edition due to change in format.)	NAD 83	(NOS Silver Spring, MD) 1:25,000 1:10,000 1:10,000
16204	6 th Ed. Mar 2004 NEW EDITION AK-WEST COAST – PORT CLARENCE AND APPROACHES (New edition due to change in format.)	NAD 83	(NOS Silver Spring, MD) 1:100,000/LORAN-C
16322	8th Ed. Mar 2004 NEW EDITION AK-BRISTOL BAY-NUSHAGAK AND APPROACHES (New edition due to change in format.)	NAD 83	(NOS Silver Spring, MD) 1:100,000/LORAN-C
16553	4 th Ed. Mar 2004 NEW EDITION AK-ALASKA PENINSULA-SHUMAGIN ISLANDS- NAGAI ISLAND TO UNGA ISLAND INSETS: Popo Strait-Northern Part Delarof Harbor (New edition due to change in format.)	NAD 83	(NOS Silver Spring, MD) 1:80,000/LORAN-C 1:20,000 1:20,000

SECTION III

NM 16/04

17424 7th Ed. Mar 2004 NEW EDITION NAD 83 (NOS Silver Spring, MD)
AK-SOUTHEAST COAST-EASTERN PART OF BEHM CANAL1:80,000
(New edition due to change in format.)

MARINE INFORMATION REPORT AND SUGGESTION SHEET INSTRUCTIONS

We value your suggestions to improve our products. The Marine Information Report and Suggestion Sheet is provided for users to submit corrective information. Please be complete and accurate in your description/suggestion and include the information as detailed below:

Observer: name(s) of person(s) making observation and rank, rate or title.

Ship/Organization: name of vessel or organization.

Address: complete mailing address. Also include telephone number, fax, and/or e-mail address, if available, in case clarification is required.

Date of Observation: day, month and year at which the observation was made.

Time of Observation: local time at which the observation was made.

Latitude/Longitude: exact position of the observation expressed as accurately as possible.

Datum: horizontal datum to which the observed position is referred (e.g. WGS, NAD83, local foreign datum, etc.).

Navigation System: method used to determine the position of the observation (e.g. radar, GPS, Loran, etc.).

Include details about the equipment used, if deemed pertinent.

Verified by Navigator: indicate whether observation was verified by navigator.

Product(s) Affected: product number(s) and/or name(s) to which the observation applies (e.g. Chart 62400, Sailing Directions Pub. 127, etc.).

Edition: edition number and/or year of affected product.

Latest correction applied: the latest Notice to Mariners to which your copy of affected product has been corrected.

Sounding sensor or method used: equipment or method used to collect soundings. When reporting soundings, please provide an annotated echogram, if available, for verification.

Soundings corrected for draft: indicate whether soundings have been corrected for vessel's draft. If not, please include observed draft along with the details of information reported.

Details of Information Reported: use this space to provide details of the observation/suggestion. When referring to a charted feature, please describe it exactly as it appears on the chart. When referring to a publication, please indicate page number(s) and line number(s) or station number(s) as applicable. Use additional sheets as necessary and include diagrams, photocopies of the product(s) involved and/or photographs to describe observations in greater detail. If possible, include the designation, point of contact, telephone number, fax number and/or e-mail address of the local port authority to enable NGA to update our records and obtain additional or later information.

User Feedback: use this space to provide feedback and suggestions for improving NGA products and services.

Please detach, fold and mail the pre-addressed form and include any other relevant material or supporting information.

Reports which present an immediate hazard to navigation should be sent to the nearest NAVAREA Coordinator via coast radio stations. In general, these hazards would include major aids to navigation anomalies, discovery of obstructions or shoals with depths of less than 30 meters, floating dangers to shipping, and any situation deemed critical to safety of life at sea. For further information consult Notice to Mariners No. 1, paragraph 44 (Worldwide Navigational Warnings Service).

Due to the large volume of information received, NGA cannot acknowledge receipt of every report. Some reports containing useful data are filed for use in the compilation of the next edition of the affected product. Others confirm or clarify previously reported information. Echogram traces are digitized and become part of our Bathymetric Database. Acknowledgment is made by inclusion in the Observer's List of the Notice to Mariners (page ii), or in some cases by letter from the Agency involved.

For additional information about various Hydrographic Reports, consult The American Practical Navigator (Chapter 30).

MARINE INFORMATION REPORT AND SUGGESTION SHEET

Observer _____ Ship/Organization _____

Address _____

Email address _____

Date of Observation _____ Time of Observation (Local) _____

Latitude _____ Longitude _____ Datum _____

Navigation System _____ Verified by Navigator: Yes _____ No _____

Product(s) Affected _____ Edition _____

Latest correction applied: N.M. _____

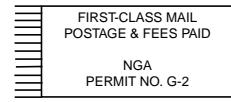
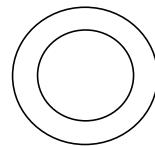
Sounding sensor or method used _____ Sounding(s) corrected for draft: Yes _____ No _____

Details of Information Reported (continue on additional sheets as necessary) _____

User Feedback (continue on additional sheets as necessary)



**MARITIME SAFETY INFORMATION DIVISION
ST D44
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
4600 SANGAMORE ROAD
BETHESDA MD 20816-5003**



ARCTIC MARITIME SAFETY INFORMATION REPORT SHEET

Observer _____

Ship/Organization _____

Phone _____ Email Address_____

Describe Hazard (e.g. dredge, buoy, current meter, operations): _____

Depth water column is occupied (e.g. "bottom to surface", "surface to 500m"): _____

Date of Insertion _____ Date of Removal _____

If observed, Date _____ Time (Local) _____

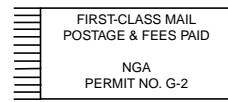
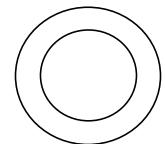
Latitude _____ Longitude _____ Datum _____

Navigation System _____ Verified by Navigator: Yes _____ No _____

Sounding sensor or method used _____

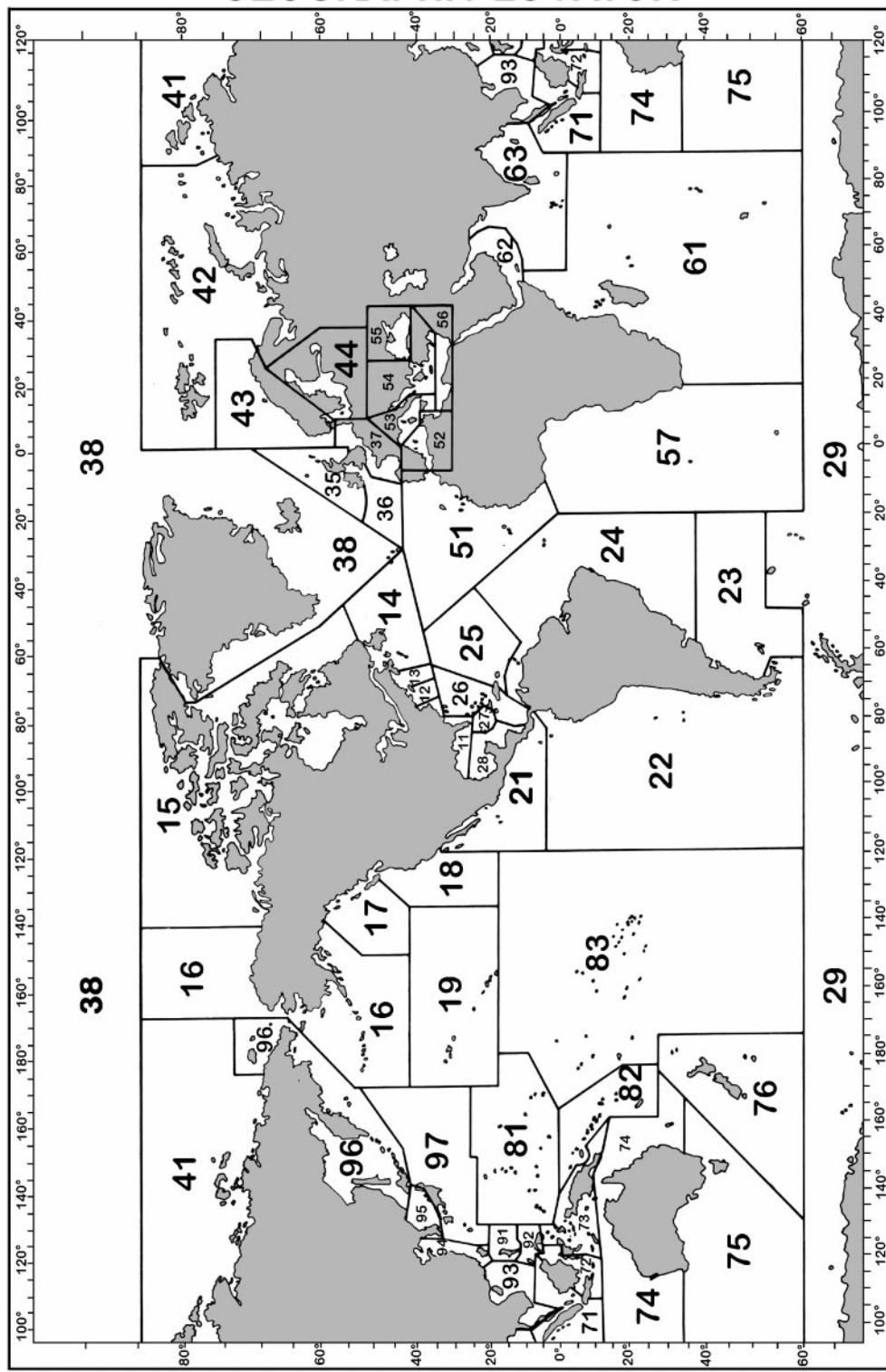
Sounding(s) corrected for draft: Yes _____ No _____

Details of Information Reported (continue on additional sheets as necessary): _____



**MARITIME SAFETY INFORMATION DIVISION
ST D44
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
4600 SANGAMORE ROAD
BETHESDA MD 20816-5003**

GEOGRAPHIC LOCATOR



For chart numbering purposes, the world is divided into nine regions, each corresponding to the geographic limits of one of the nine regions in the NGA Catalog of Maps, Charts, and Related Products, Part 2-Hydrographic Products, Volume 1. Each Region is further subdivided into the numbered Subregions in the above graphic. The first two digits of all five-digit chart numbers indicate the geographic subregion to which the chart pertains. Users can locate corrections in this Notice for charts of their immediate interest by determining the two-digit Sub-region number of the pertinent geographic area, and then turning to the page or pages that list the chart numbers beginning with those two digits.

AFTER 5 DAYS RETURN TO

DEFENSE SUPPLY CENTER RICHMOND

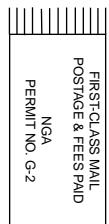
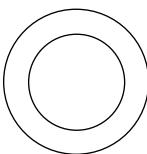
ATTN: JNAH

8000 JEFFERSON DAVIS HIGHWAY
RICHMOND, VIRGINIA 23297-5338

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE \$500

FIRST CLASS



**IMPORTANT
NAVIGATIONAL INFORMATION
TIME-DATED**



**NOTICE TO
MARINERS**

PLEASE EXPEDITE DELIVERY