



No. 45

6 NOVEMBER 2010



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 Web site at <http://www.nga.mil/NGAPortal/MSI.portal>

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/DLIS Catalog of Maps Charts and Related Products, 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 Web site, users may contact:

<u>Name</u>	<u>Telephone</u>	<u>DSN</u>	<u>FAX</u>
Maritime Domain	301-227-3370	287-3370	301-227-4211
World Wide Navigational Warning Service	301-227-3147	287-3147	301-227-3731
Maritime Safety Web site	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 thru 9	301-227-3146	287-3146	301-227-3175
Sailing Directions, Fleet Guides	301-227-3180	287-3180	301-227-3174
Navigation Publications	301-227-3120	287-3120	301-227-3731
DLA Catalog of Maps Charts and Related Products	269-961-7766	661-7766	269-961-7791

The Maritime Safety Web site can be accessed directly at <http://www.nga.mil/NGAPortal/MSI.portal>. For your convenience NGA provides four e-mail addresses. For information affecting Notice to Mariners use MCDNtM@nga.mil, for information affecting Sailing Directions and all other navigational publications use MCDPubs@nga.mil, for information concerning the Maritime Safety Web site, use webmaster_nss@nga.mil and for information concerning the World Wide Navigational Warning Service, use NavSafety@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.

Cover Photo: NOAA Ship **FAIRWEATHER** (S220) is a hydrographic survey ship built by Aerojet-General Shipyards, Jacksonville, FL and originally commissioned in October, 1968. Deactivated in 1989, she was brought back in to service after being refitted at the Cascade General Shipyard in Portland, Oregon in 2004. She is named for Mt. Fairweather, at 15,300 feet above sea level, the highest peak in the Fairweather Range and the tallest coastal range on earth. **FAIRWEATHER** is designed and outfitted primarily for conducting hydrographic surveys in support of nautical charting, but is capable of many other missions in support of NOAA programs. The ship is equipped with the latest in hydrographic survey technology - multi-beam survey systems; high-speed, high-resolution side-scan sonar; position and orientation systems, hydrographic survey launches, and an on-board data-processing server. Increased mission space and deck machinery enable **FAIRWEATHER** to be tasked with anything from buoy operations to fisheries research cruises. She is 231 feet in length, has a beam of 42 feet, a draft of 15.5 feet, displaces 1,800 tons, has a range of 6,000 nautical miles at 12 knots and can operate at sea for 22 days. **NOAA Ship FAIRWEATHER** is manned by 11 commissioned officers, 4 licensed engineers, 30 crew and up to 5 scientists. Her homeport is Ketchikan, AK, the salmon capital of the world.

INFORMATION
OF
SPECIAL INTEREST
OR
IMPORTANCE
TO
MARINERS

NM 45/10

HYDROGRAM

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

SPECIAL
ANNOUNCEMENTS
NEW PRODUCTS
OR SERVICES
IMPORTANT
CHANGES

6 November 2010

NOAA CHART NEW EDITIONS AND THEIR AVAILABILITY

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

NGA CHART NEW EDITIONS AND THEIR AVAILABILITY

NGA RECOGNIZES TWO PAPER NAUTICAL CHART PRODUCTS: ENTERPRISE PRODUCT ON DEMAND-MARITIME (EPOD-M) CHARTS AND TRADITIONAL NGA PAPER CHARTS. FOR ADDITIONAL INFORMATION, SEE SECTIONS II AND III.

NEW EDITION OF SAILING DIRECTIONS

PUB. 140, SAILING DIRECTIONS (PLANNING GUIDE) NORTH ATLANTIC OCEAN AND ADJACENT SEAS, NINTH EDITION, 2010, IS AVAILABLE AT THE MARITIME SAFETY WEB SITE. THIS EDITION IS PRODUCED BY NGA IN DIGITAL FORMAT ONLY. SEE SECTIONS II AND III.

NGA DIGITAL NAUTICAL PUBLICATIONS-QUARTERLY UPDATE

THE DIGITAL NAUTICAL PUBLICATIONS-QUARTERLY UPDATE, THIRD QUARTER 2010, IS READY FOR ISSUE. THE DIGITAL NAUTICAL PUBLICATIONS-QUARTERLY UPDATE IS A LIMITED DISTRIBUTION PRODUCT AND IS PRODUCED BY NGA IN DIGITAL FORMAT ONLY. SEE SECTIONS II AND III.

AREAS TO BE AVOIDED (ATLAS MOORINGS) IN THE EQUATORIAL INDIAN OCEAN

THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) MAINTAINS AN ARRAY OF BUOYS CALLED AUTONOMOUS TEMPERATURE LINE ACQUISITION SYSTEM (ATLAS). FOR ADDITIONAL INFORMATION, SEE SECTION III.

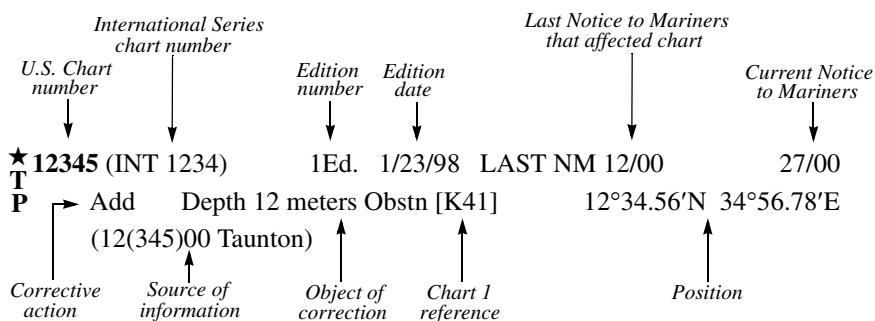
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY'S IMPLEMENTATION OF A HARDCOPY TO DIGITAL TRANSITION STRATEGY

THIS NOTICE IS A REMINDER OF THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY (NGA) HARDCOPY TO DIGITAL TRANSITION PROGRAM. SEE SECTION III FOR DETAILS.

EXPLANATION OF CONTENTS

The Notice to Mariners contains corrective information affecting nautical charts, the NGA/DLIS Catalog of Maps Charts and Related Products, 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/DLIS Catalog of Maps Charts and Related Products, 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**

NM 45/10

50 (INT 50) 6Ed. 6/03 LAST NM 40/10 (Continuation) Delete Position circle "R Bn" (41/10 CG17)	45/10 52°50'N 173°11'E	★11503 42Ed. 1/07 LAST NM 32/10 Change Legend to "41 1/2 FT Jul 2010" 30°42'27.6"N 81°26'19.2"W Legend to "42 FT Jul 2010" 30°42'36.1"N 81°26'18.8"W Add Tabulation of controlling depths from Subsection I-2 (NOS) (Supersedes 32/10-11503)	45/10
200 (INT 200) 3Ed. 5/25/96 LAST NM 36/10 Add Wreck [K29] (PA) (4/35)04 Buenos Aires	45/10 46°35'S 57°02'W	11518 37Ed. 1/10 LAST NM 35/10 (Side A) Delete Range light, rear 32°47'01.8"N 79°54'22.2"W Change Characteristic of range light, front to Fl G 2.5s 32°46'55.2"N 79°54'11.8"W Add Range light, rear Iso G 6s 45ft 32°47'02.0"N 79°54'25.3"W Dashed line between 32°46'55.2"N 79°54'11.8"W 32°47'02.0"N 79°54'25.3"W Note: range bearing unchanged (41/10 CG7)	45/10
211 5Ed. 1/13/96 LAST NM 36/10 Add Wreck [K29] (PA) (4/35)04 Buenos Aires	45/10 46°35'S 57°02'W		
513 (INT 813) 7Ed. 6/04 LAST NM 7/10 Delete Position circle "R Bn" Legend "LORAN TR" (40, 41/10 CG17)	45/10 52°50'N 173°11'E 52°43'N 173°18'E		
530 32Ed. 6/07 LAST NM 40/10 Delete Position circle "R Bn" (41/10 CG17)	45/10 52°50'N 173°11'E		
11009 38Ed. 12/06 LAST NM 41/10 Add Buoy "AR250" Y (Priv) Buoy "AR255" Y (Priv) Buoy "AR300" Y (Priv) Buoy "AR305" Y (Priv) Buoy "AR366" Y (Priv) Buoy "AR368" Y (Priv) Buoy "AR386" Y (Priv) (32/10 CG5)	45/10 34°57.0'N 75°55.0'W 34°55.5'N 75°58.0'W 34°55.5'N 75°58.0'W 34°19.0'N 76°24.5'W 34°16.5'N 76°38.5'W 34°13.0'N 77°25.1'W 34°09.5'N 77°25.8'W 33°57.5'N 77°33.3'W	★11520 43Ed. 10/08 LAST NM 40/10 Add Buoy "AR250" Y (Priv) Buoy "AR255" Y (Priv) Buoy "AR285" Y (Priv) Buoy "AR300" Y (Priv) Buoy "AR305" Y (Priv) Buoy "AR315" Y (Priv) Buoy "AR330" Y (Priv) Buoy "AR340" Y (Priv) Buoy "AR342" Y (Priv) Buoy "AR345" Y (Priv) Buoy "AR350" Y (Priv) Buoy "AR355" Y (Priv) Buoy "AR360" Y (Priv) Buoy "AR362" Y (Priv) Buoy "AR364" Y (Priv) Buoy "AR366" Y (Priv) Buoy "AR368" Y (Priv) Buoy "AR370" Y (Priv) Buoy "AR372" Y (Priv) Buoy "AR376" Y (Priv) Buoy "AR378" Y (Priv) Buoy "AR382" Y (Priv) Buoy "AR386" Y (Priv) Buoy "AR420" Y (Priv) Buoy "AR425" Y (Priv) Buoy "AR440" Y (Priv) Buoy "AR455" Y (Priv) Buoy "AR460" Y (Priv) (32/10 CG5)	45/10 34°57.0'N 75°55.0'W 34°55.5'N 75°58.0'W 34°33.9'N 76°24.5'W 34°16.5'N 76°38.5'W 34°40.0'N 76°45.0'W 34°33.9'N 76°51.3'W 34°34.6'N 76°58.6'W 34°36.7'N 77°02.3'W 34°32.3'N 76°58.5'W 34°29.8'N 77°21.4'W 34°21.3'N 77°19.9'W 34°20.7'N 77°36.2'W 34°15.7'N 77°30.4'W 34°14.8'N 77°42.9'W 34°13.0'N 77°25.1'W 34°09.5'N 77°25.8'W 34°10.5'N 77°44.5'W 34°06.1'N 77°44.8'W 34°03.2'N 77°39.6'W 34°02.0'N 77°52.0'W 33°58.6'N 77°41.2'W 33°57.5'N 77°33.3'W 33°51.3'N 78°06.5'W 33°53.1'N 78°07.4'W 33°50.0'N 78°13.0'W 33°47.0'N 78°18.0'W 33°50.0'N 78°22.0'W
★11441 41Ed. 9/06 LAST NM 41/10 Delete Buoy "KW" (See 41/10-11441)	45/10 24°27'26"N 81°48'55"W		
Add Buoy "KW" RW, ball topmark, Mo(A) WHISTLE (41/10 CG7)	24°27'26"N 81°47'55"W		
11442 35Ed. 1/08 LAST NM 41/10 Delete Buoy "KW" (See 41/10-11442)	45/10 24°27'26"N 81°48'55"W		
Add Buoy "KW" RW, ball topmark, Mo(A) WHISTLE (41/10 CG7)	24°27'26"N 81°47'55"W		
11446 32Ed. 10/06 LAST NM 41/10 Delete Buoy "KW" (See 41/10-11446) (41/10 CG7)	45/10 24°27'26"N 81°48'55"W	11521 29Ed. 2/08 LAST NM 37/10 Delete Range light, rear 32°47'01"N 79°54'22'W Change Characteristic of range light, front to Fl G 2.5s 32°46'55" N 79°54'12" W Add Range light, rear Iso G 6s 45ft 32°47'02" N 79°54'25" W Dashed line between 32°46'55" N 79°54'12" W 32°47'02" N 79°54'25" W Note: Range bearing unchanged (41/10 CG7)	45/10 32°47'01"N 79°54'22'W
★11478 22Ed. 7/10 LAST NM 35/10 Change Legend to "18 FT MAY 2010" 28°24'33.5"N 80°37'05.3"W (NOS)	45/10 28°24'33.5"N 80°37'05.3"W		
11481 7Ed. 9/09 LAST NM 34/10 Change Legend to "18 FT MAY 2010" 28°24'33.5"N 80°37'05.3"W (See 20/10-11481) (NOS)	45/10 28°24'33.5"N 80°37'05.3"W		
11493 10Ed. 10/10/09 LAST NM N32/10 Add Tabulation of controlling depths from Subsection I-2 (Supersedes N32/10-11493) (NOS)	N45/10	★11524 52Ed. 1/10 LAST NM 37/10 Delete Range light, rear 32°47'00.7"N 79°54'22.2"W Change Characteristic of range light, front to Fl G 2.5s 32°46'55.2"N 79°54'12.0"W Add Range light, rear Iso G 6s 45ft 32°47'02.0"N 79°54'25.3"W Dashed line between 32°46'55.2"N 79°54'12.0"W 32°47'02.0"N 79°54'25.3"W Note: Range bearing unchanged (41/10 CG7)	45/10 32°47'00.7"N 79°54'22.2"W
11494 9Ed. 11/28/09 LAST NM N32/10 Change Legend to "Maintained depth 41 1/2 FT (Jul 2010)" 30°42'27.0"N 81°26'33.2"W Legend to "Maintained depth 42 FT (Jul 2010)" 30°42'35.5"N 81°26'29.5"W Add Tabulation of controlling depths from Subsection I-2 (See N32/10-11494) (NOS)	N45/10 30°42'27.0"N 81°26'33.2"W 30°42'35.5"N 81°26'29.5"W	11525 7Ed. 3/4/06 LAST NM N40/10 Add Buoy "AR250" Y, pillar (Priv) Buoy "AR255" Y, pillar (Priv) Buoy "AR285" Y, pillar (Priv) (NOS)	N45/10 34°57.0'N 75°55.0'W 34°55.5'N 75°58.0'W 34°33.9'N 76°25.5'W

(continued on next page)

SECTION I

11525	(Continued)			
	Buoy "AR300" Y, pillar (Priv)	34°19.0'N 76°24.5'W		
	Buoy "AR305" Y, pillar (Priv)	34°16.5'N 76°38.5'W		
	Buoy "AR315" Y, pillar (Priv)	34°40.0'N 76°45.0'W		
	Buoy "AR330" Y, pillar (Priv)	34°33.9'N 76°51.3'W		
	Buoy "AR340" Y, pillar (Priv)	34°34.6'N 76°58.6'W		
	Buoy "AR342" Y, pillar (Priv)	34°36.7'N 77°02.3'W		
	Buoy "AR345" Y, pillar (Priv)	34°32.3'N 76°58.5'W		
	Buoy "AR350" Y, pillar (Priv)	34°29.8'N 77°21.4'W		
	Buoy "AR355" Y, pillar (Priv)	34°21.3'N 77°19.9'W		
	Buoy "AR360" Y, pillar (Priv)	34°20.7'N 77°36.2'W		
	Buoy "AR362" Y, pillar (Priv)	34°15.7'N 77°30.4'W		
	Buoy "AR364" Y, pillar (Priv)	34°14.8'N 77°42.9'W		
	Buoy "AR366" Y, pillar (Priv)	34°13.0'N 77°25.1'W		
	Buoy "AR368" Y, pillar (Priv)	34°09.5'N 77°25.8'W		
	Buoy "AR370" Y, pillar (Priv)	34°10.5'N 77°44.5'W		
	Buoy "AR372" Y, pillar (Priv)	34°06.1'N 77°44.8'W		
	Buoy "AR376" Y, pillar (Priv)	34°03.2'N 77°39.6'W		
	Buoy "AR378" Y, pillar (Priv)	34°02.0'N 77°52.0'W		
	Buoy "AR382" Y, pillar (Priv)	33°58.6'N 77°41.2'W		
	Buoy "AR386" Y, pillar (Priv)	33°57.5'N 77°33.3'W		
	Buoy "AR420" Y, pillar (Priv)	33°51.3'N 78°06.5'W		
	Buoy "AR425" Y, pillar (Priv)	33°53.1'N 78°07.4'W		
	Buoy "AR440" Y, pillar (Priv)	33°50.0'N 78°13.0'W		
	Buoy "AR455" Y, pillar (Priv)	33°47.0'N 78°18.0'W		
	Buoy "AR460" Y, pillar (Priv)	33°50.0'N 78°22.0'W		
	Buoy "AR220" Y, pillar (Priv)	35°08.2'N 75°40.5'W		
	Buoy "AR225" Y, pillar (Priv)	35°06.8'N 75°39.1'W		
	(32/10 CG5)			
11534	36Ed. 8/09 LAST NM 41/10 (Side A)		45/10	
Add	Buoy "AR425" Y (Priv)	33°53'07"N 78°07'23"W		
	(32/10 CG5)			
11541	39Ed. 3/10 LAST NM 31/10 (Side B)		45/10	
Add	Buoy "AR350" Y (Priv)	34°29'49"N 77°21'23"W		
	Buoy "AR360" Y (Priv)	34°20'43"N 77°36'11"W		
	Buoy "AR364" Y (Priv)	34°14'49"N 77°42'53"W		
	(32/10 CG5)			
★12200	49Ed. 6/07 LAST NM 44/10		45/10	
Add	Buoy "AR130" Y (Priv)	36°00.3'N 75°32.0'W		
	Buoy "AR145" Y (Priv)	35°54.0'N 75°23.8'W		
	Buoy "AR225" Y (Priv)	35°06.8'N 75°39.1'W		
	Buoy "AR230" Y (Priv)	35°06.3'N 75°43.3'W		
	(32/10 CG5)			
12201	26Ed. 3/11/06 LAST NM N44/10	N45/10		
Add	Buoy "AR130" Y, pillar (Priv)	36°00.3'N 75°32.0'W		
	Buoy "AR145" Y, pillar (Priv)	35°54.0'N 75°23.8'W		
	Buoy "AR225" Y, pillar (Priv)	35°06.8'N 75°39.1'W		
	Buoy "AR230" Y, pillar (Priv)	35°06.3'N 75°43.3'W		
	(32/10 CG5)			
12204	37Ed. 9/07 LAST NM 31/09		45/10	
Add	Buoy "AR130" Y (Priv)	36°00'19"N 75°31'59"W		
	Buoy "AR140" Y (Priv)	35°56'47"N 75°31'59"W		
	Buoy "AR145" Y (Priv)	35°54'02"N 75°23'47"W		
	Buoy "AR160" Y (Priv)	35°44'41"N 75°27'19"W		
	(32/10 CG5)			
12205	32Ed. 12/09 LAST NM 27/10 (Page B)		45/10	
Add	Buoy "AR130" Y (Priv)	36°00'19"N 75°31'59"W		
	Buoy "AR140" Y (Priv)	35°56'46"N 75°31'59"W		
	(Page C)			
Add	Buoy "AR160" Y (Priv)	35°44'41"N 75°27'19"W		
	(32/10 CG5)			
12273	57Ed. 1/08 LAST NM 32/10		45/10	
Add	Tabulation of controlling depths from Subsection I-2 (Supersedes 32/10-12273)			
	(NOS)			
★12278	76Ed. 12/07 LAST NM 38/10		45/10	
Add	Tabulation of controlling depths from Subsection I-2 (Supersedes 32/10-12278)			
	(NOS)			
12327	103Ed. 12/09 LAST NM 44/10		45/10	
Add	Danger circle "Obstns" [K40] (NOS)	40°38'31"N 74°02'15"W		
★12334	70Ed. 6/09 LAST NM 44/10		45/10	
Add	Depth 18 feet Obstn [K41]	40°38'30.8"N 74°02'14.8"W		
	Depth 29 feet Obstn [K41]	40°38'31.8"N 74°02'13.5"W		
	(NOS)			
13003	50Ed. 5/10 LAST NM 44/10		45/10	
Add	Buoy "AR250" Y (Priv)	34°57.0'N 75°55.0'W		
	Buoy "AR255" Y (Priv)	34°55.5'N 75°58.0'W		
	(32/10 CG5)			
13229	30Ed. 4/08 LAST NM 41/10 (Page A)		45/10	
Delete	Light	41°37'14"N 70°00'27"W		
	Light	41°38'04"N 70°00'40"W		
(Page F)				
Delete	Obstruction "Fish Pen" area in vicinity	41°36'31"N 70°48'28"W		
Relocate	Buoy "NE" from 41°36'45"N 70°48'28"W to 41°36'53"N 70°48'39"W			
	Buoy "SE" from 41°36'19"N 70°48'10"W to 41°36'38"N 70°48'12"W			
	Buoy "SW" from 41°36'15"N 70°48'28"W to 41°36'22"N 70°48'23"W			
	Buoy "NW" from 41°36'40"N 70°48'46"W to 41°36'34"N 70°48'50"W			
Add	Obstruction "Fish Pen" area [K46.2] bound by dashed line joining	41°36'53"N 70°48'39"W 41°36'38"N 70°48'12"W 41°36'22"N 70°48'23"W 41°36'34"N 70°48'50"W		
	(31, 41/10 CG1)			
13232	5Ed. 11/09 LAST NM 41/10		45/10	
Delete	Obstruction "Fish Pen" area in vicinity	41°36'31.1"N 70°48'27.8"W		
Relocate	Buoy "NE" from 41°36'45.0"N 70°48'28.0"W to 41°36'52.5"N 70°48'38.9"W			
	Buoy "SE" from 41°36'19.2"N 70°48'09.6"W to 41°36'37.5"N 70°48'11.8"W			
	Buoy "SW" from 41°36'14.5"N 70°48'27.7"W to 41°36'22.3"N 70°48'22.7"W			
	Buoy "NW" from 41°36'40.2"N 70°48'46.2"W to 41°36'33.7"N 70°48'49.7"W			
Add	Obstruction "Fish Pen" area [K46.2] bound by dashed line joining	41°36'52.5"N 70°48'38.9"W 41°36'37.5"N 70°48'11.8"W 41°36'22.3"N 70°48'22.7"W 41°36'33.7"N 70°48'49.7"W		
	(31/10 CG1)			
★13237	40Ed. 3/07 LAST NM 42/10		45/10	
Delete	Light	41°37'14"N 70°00'26"W		
	Light	41°38'03"N 70°00'39"W		
	(41/10 CG1)			
14786	14Ed. 10/08 LAST NM 30/09 (Page O-1)		45/10	
Change	Light to Fl R 5s 57ft 11 St M HORN	43°28'24.2"N 76°31'00.1"W		
	(39/10 CG9)			
14800	10Ed. 9/05 LAST NM 24/09		45/10	
Change	Light (Alt WR 10s) to Fl R 5s 17m 10M HORN	43°28.4'N 76°31.0'W		
	(39/10 CG9)			
14803	27Ed. 1/06 LAST NM 9/06		45/10	
Change	Light to Fl R 5s 57ft 11 St M HORN	43°28'25"N 76°31'01"W		
	(39/10 CG9)			

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NM 45/10

★14813	21Ed. 11/02 LAST NM 30/08 Change Light to Fl R 5s 57ft 11 St M HORN (39/10 CG9)	45/10 43°28'44.1"N 76°31'00.1"W		Depth 23 feet Depth 16 feet	41°39'36.4"N 87°34'23.4"W 41°39'33.7"N 87°34'21.3"W
14880	32Ed. 9/05 LAST NM 38/10 Change Visibility (range) of light to 11 St M (42/10 CG9)	45/10 46°00'59"N 83°53'58"W	Add	Depth 21 feet Depth 12 feet Depth 21 feet Depth 21 feet Depth 12 feet Depth 16 feet	41°40'28.0"N 87°33'06.7"W 41°39'40.8"N 87°34'13.5"W 41°39'37.6"N 87°34'16.7"W 41°39'35.1"N 87°34'23.0"W 41°39'34.0"N 87°34'20.3"W 41°39'34.0"N 87°34'23.0"W
★14881	33Ed. 5/09 LAST NM 8/10 Change Visibility (range) of light to 11 St M (Inset) Add Buoy "A" R, QR (41, 42/10 CG9)	45/10 46°00'59"N 83°53'59"W 45°46'44.0"N 84°43'07.4"W	Delete	(Page 28) Depth 23 feet Depth 16 feet Depth 23 feet	41°39'36.4"N 87°34'23.4"W 41°39'33.7"N 87°34'21.3"W 41°40'04.2"N 87°35'16.4"W
★14882	35Ed. 9/05 LAST NM 29/08 Change Visibility (range) of light to 11 St M (42/10 CG9)	45/10 46°00'59.5"N 83°53'56.9"W	Change	Legend to "22 FEET SEP 2009" 41°39'39.6"N 87°34'19.4"W	
14901	15Ed. 8/06 LAST NM 37/10 Change Light to Fl 2.5s 31ft 12 St M HORN (Supersedes 14/10-14901) (40/10 CG9)	45/10 42°07'0.0"N 86°29.6'W	Delete	(Page 29) Depth 26 feet Depth 25 feet Depth 25 feet Depth 26 feet Depth 26 feet Depth 26 feet	41°43'22"N 87°30'00"W 41°43'26"N 87°30'06"W 41°43'31"N 87°30'18"W 41°43'36"N 87°30'25"W 41°44'13"N 87°30'59"W 41°44'16"N 87°30'51"W
14905	31Ed. 1/07 LAST NM 42/10 Change Light to Fl 2.5s 31ft 12 St M HORN (Supersedes 14/10-14905) (40/10 CG9)	45/10 42°06'59"N 86°29'40"W	(NOS)		
14908	18Ed. 3/04 LAST NM 32/10 Delete Buoy "1" (41/10 CG9)	45/10 45°46'02"N 87°03'22"W	★14929	24Ed. 2/03 LAST NM 42/10 Delete	45/10 41°44'15.9"N 87°31'28.6"W 41°40'33.9"N 87°33'02.5"W 41°40'05.1"N 87°35'18.2"W 41°39'39.7"N 87°34'15.6"W 41°39'36.8"N 87°34'23.5"W 41°39'33.8"N 87°34'22.0"W
★14915	25Ed. 4/03 LAST NM 42/10 Delete Buoy "1" (41/10 CG9)	45/10 45°46'00.9"N 87°03'21.5"W	Substitute	Depth 18 feet for 23 feet	41°43'31.5"N 87°32'24.4"W
★14926	11Ed. 5/06 LAST NM 42/10 (Page 12)	45/10	Change	Legend to "22 FEET SEP 2009" 41°43'30.5"N 87°32'28.3"W	
	Delete Depth 26 feet Depth 26 feet Depth 25 feet Depth 26 feet Depth 26 feet Depth 25 feet Depth 26 feet Depth 23 feet	41°43'21.5"N 87°30'01.0"W 41°43'21.6"N 87°30'05.7"W 41°43'24.3"N 87°30'06.7"W 41°43'25.5"N 87°30'08.5"W 41°43'27.0"N 87°30'12.1"W 41°43'30.9"N 87°30'19.4"W 41°43'35.0"N 87°30'25.9"W 41°44'11.6"N 87°30'59.4"W 41°44'12.9"N 87°30'55.5"W 41°44'14.5"N 87°30'52.9"W 41°44'16.1"N 87°31'28.0"W	Change	Legend to "24 FEET SEP 2009" 41°40'32.5"N 87°33'04.0"W	
	Add Depth 15 feet	41°44'15.0"N 87°31'28.7"W	Substitute	Legend to "22 FEET SEP 2009" 41°39'36.6"N 87°34'20.1"W	
	(Page 25) Substitute Depth 21 feet for 23 feet Depth 20 feet for 23 feet	41°43'32.0"N 87°32'25.4"W 41°43'28.7"N 87°32'24.9"W	Add	Depth 15 feet Depth 21 feet Depth 15 feet Depth 23 feet Depth 21 feet	41°44'15.0"N 87°31'28.7"W 41°43'34.4"N 87°32'30.6"W 41°40'36.5"N 87°33'06.2"W 41°40'35.6"N 87°33'05.2"W
	Change Legend to "22 FEET SEP 2009"	41°43'30.7"N 87°32'28.7"W	(NOS)		41°40'35.6"N 87°33'05.2"W 41°39'35.1"N 87°34'23.0"W
	Add Depth 21 feet Depth 18 feet Depth 21 feet Depth 9 feet	41°43'34.4"N 87°32'30.6"W 41°43'31.5"N 87°32'24.4"W 41°43'30.8"N 87°32'24.5"W 41°43'22.8"N 87°32'34.0"W	★14930	25Ed. 1/04 LAST NM 37/10 Change Light to Fl 2.5s 31ft 12 St M HORN (Supersedes 14/10-14930) (40/10 CG9)	45/10 42°06'58.8"N 86°29'40.6"W
	(Page 26) Change Legend to "24 FEET SEP 2009"	41°40'32.0"N 87°33'03.4"W	★14937	24Ed. 10/02 LAST NM 42/10 Delete Light (41/10 CG9)	45/10 43°57'16.7"N 86°27'45.2"W
	Add Depth 15 feet Depth 23 feet Depth 18 feet Depth 23 feet Depth 8 feet Depth 21 feet	41°40'36.5"N 87°33'06.2"W 41°40'35.6"N 87°33'05.2"W 41°40'32.7"N 87°32'59.2"W 41°40'31.1"N 87°33'00.3"W 41°40'28.6"N 87°33'05.3"W 41°40'28.0"N 87°33'06.7"W	★14975	35Ed. 12/07 LAST NM 32/10 Add Tabulation of controlling depths from Subsection I-2 (See 32/10-14975)	45/10
	(Page 27) Delete Depth 8 feet	41°39'39.9"N 87°34'14.2"W	(NOS)		
			16012	22Ed. 3/05 LAST NM 3/10 Delete Position circle "LORAN TR" (40/10 CG17)	45/10 52°50.0'N 173°10.0'E
			★16322	8Ed. 3/04 LAST NM 30/08 Change Height of range light, front to 44ft Height of range light, rear to 64ft (39/10 CG17)	45/10 58°47'56"N 158°33'16"W 58°48'03"N 158°33'18"W

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16420	10Ed. 8/03 LAST NM 11/07 Delete Position circle "LORAN...Lts" Position circle "R Bn" (40, 41/10 CG17)	45/10 52°49.7'N 173°10.8'E 52°49.9'N 173°10.9'E	★17317	20Ed. 3/04 LAST NM 22/10 Add Light Fl R 4s 30ft (Priv) (Inset Skagway and Nahku Bay) Relocate Light from 59°26'57.7"N 135°19'34.6"W to 59°26'58.2"N 135°19'33.9"W	45/10 59°26'55"N 135°19'52"W
16421	10Ed. 7/12/97 LAST NM 11/07 Delete Position circle "LORAN...Lts" Position circle "R Bn" (40, 41/10 CG17)	45/10 52°49.7'N 173°10.8'E 52°49.9'N 173°10.9'E	Add Light Fl R 4s 30ft (Priv) (41/10 CG17)	59°26'54.6"N 135°19'51.8"W	
16423	2Ed. 5/12/01 LAST NM 11/07 Delete Position circle "LORAN...Lts" Position circle "R Bn" (40, 41/10 CG17)	45/10 52°49'42"N 173°10'48"E 52°49'58"N 173°10'56"E	18445	33Ed. 5/09 LAST NM 44/10 (Page E) Add Depth 11 fathoms Rk [K14.2] Depth 4 fathoms Wk [K26] (NOS)	45/10 47°44'41"N 122°48'59"W 47°38'41"N 122°49'45"W
★16431	7Ed. 10/03 LAST NM 50/03 Delete Position circle "R Bn" Position circle "LORAN...Lts" (40, 41/10 CG17)	45/10 52°49'58.4"N 173°10'55.8"E 52°49'44.5"N 173°10'49.5"E	19002	10Ed. 4/29/06 LAST NM N26/10 Add Buoy "GG" Y, pillar, Fl Y 4s (Priv) with legend "("FAD")" (40/10 CG14)	N45/10 20°32.0'N 156°16.0'W
16432	11Ed. 11/03 LAST NM 3/04 Delete Position circle "R Bn" Position circle "LORAN...Lts" (40, 41/10 CG17)	45/10 52°49'58.4"N 173°10'55.8"E 52°49'44.5"N 173°10'49.5"E	19004	38Ed. 5/06 LAST NM 26/10 Add Buoy "GG" Y, Fl Y 4s (Priv) with legend "("FAD")" (40/10 CG14)	45/10 20°32.0'N 156°16.0'W
16520	23Ed. 8/08 LAST NM 52/09 Change Characteristic of light to Oc RW 4s Note: Sectors remain unchanged (41/10 CG17)	45/10 54°07.9'N 165°47.1'E	19010	19Ed. 10/06 LAST NM 26/10 Add Buoy "GG" Y, Fl Y 4s (Priv) with legend "("FAD")" (40/10 CG14)	45/10 20°32.0'N 156°16.0'W
16531	7Ed. 2/16/02 LAST NM 40/10 Change Characteristic of light to Oc RW 4s Note: Sectors remain unchanged (41/10 CG17)	45/10 54°07'55"N 165°47'07"W	19013	18Ed. 11/06 LAST NM 36/10 Add Buoy "GG" Y, Fl Y 4s (Priv) with legend "("FAD")" (40/10 CG14)	45/10 20°32.0'N 156°16.0'W
★16532	6Ed. 6/17/00 LAST NM 53/05 Change Characteristic of light to Oc RW 4s Note: Sectors remain unchanged (41/10 CG17)	45/10 54°07'54.5"N 165°47'06.6"W	★19320	17Ed. 2/08 LAST NM 26/10 Add Buoy "GG" Y, Fl Y 4s (Priv) with legend "("FAD")" (40/10 CG14)	45/10 20°32.0'N 156°16.0'W
★16645	19Ed. 7/10 LAST NM 35/10 Add Light Fl 6s 60ft (Priv) (38/10 CG17)	45/10 59°35'50"N 151°15'00"W	19339	2Ed. 5/6/06 LAST NM N26/10 Add Buoy "GG" Y, pillar, Fl Y 4s (Priv) with legend "("FAD")" (40/10 CG14)	N45/10 20°32.0'N 156°16.0'W
16647	3Ed. 5/12/01 LAST NM 18/10 Add Light Fl 6s 60ft (Priv) (38/10 CG17)	45/10 59°35'50"N 151°15'00"W	19340	27Ed. 3/08 LAST NM 26/10 Add Buoy "GG" Y, Fl Y 4s (Priv) with legend "("FAD")" (40/10 CG14)	45/10 20°32.0'N 156°16.0'W
★16707	13Ed. 3/09 LAST NM 17/09 Add Buoy (mooring) [Q40] (41/10 CG17)	45/10 61°06'12"N 146°16'31"W	★19482	9Ed. 12/9/00 LAST NM 40/10 Add Depth 28 feet Depth 29 feet Depth 32 feet Depth 33 feet Depth 35 feet Depth 35 feet (NOS)	45/10 28°12'07.5"N 177°21'13.7"W 28°12'05.5"N 177°21'13.4"W 28°13'09.3"N 177°21'42.6"W 28°11'58.9"N 177°21'12.4"W 28°12'05.9"N 177°21'15.4"W 28°12'07.0"N 177°21'19.5"W
16708	27Ed. 11/08 LAST NM 40/10 Add Buoy (mooring) [Q40] (41/10 CG17)	45/10 61°06'12"N 146°16'31"W	22120	3Ed. 9/1/01 LAST NM 23/10 Add "Nature Reserve" area [N22] bound by purple dashed line joining	45/10 6°21.1'S 80°54.4'W 6°21.0'S 80°48.6'W 6°30.3'S 80°48.6'W 6°30.4'S 80°54.4'W
★17302	18Ed. 3/2/02 LAST NM 15/10 Add Light Fl 2.5s 15ft (Priv) (39/10 CG17)	45/10 58°06'57"N 135°27'20"W			"Nature Reserve" area [N22] bound by chart border and purple dashed line joining
★17315	24Ed. 11/06 LAST NM 13/10 Add Light Fl Y 6s 8ft (Priv) (41/10 CG17)	45/10 58°10'19"N 134°41'49"W			6°55.0'S 80°45.9'W 6°53.7'S 80°45.9'W 6°53.7'S 80°41.3'W 6°55.0'S 80°41.2'W
17316	20Ed. 4/20/02 LAST NM 30/10 Add Light Fl Y 6s 8ft (Priv) Light Fl 2.5s 15ft (Priv) (39, 41/10 CG17)	45/10 58°10'19"N 134°41'49"W 58°06'57"N 135°27'20"W			Note: Nature reserve area extends beyond chart border (7(46, 47)10 Callao)

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NM 45/10

22130	2Ed. 6/22/96 LAST NM 23/10 Add "Nature Reserve" area [N22] bound by chart border and purple dashed line joining	45/10 6°26.0'S 80°54.4'W 6°30.4'S 80°54.4'W 6°30.3'S 80°48.6'W 6°26.0'S 80°48.6'W	23101 5Ed. 12/14/96 LAST NM 36/10 Add Wreck [K29] (8/76)04 Buenos Aires	45/10 42°46'02"S 64°58'02"W
	Note: Nature reserve area extends beyond chart border			
	"Nature Reserve" area [N22] bound by purple dashed line joining	6°53.7'S 80°45.9'W 6°53.7'S 80°41.3'W 6°59.5'S 80°41.2'W 6°59.0'S 80°45.9'W		
	"Nature Reserve" area [N22] bound by purple dashed line joining	7°45.8'S 79°32.4'W 7°45.8'S 79°27.6'W 7°50.8'S 79°27.6'W 7°50.8'S 79°32.4'W		
	(7/46-48)10 Callao)			
22140	2Ed. 4/20/96 LAST NM 35/09 Add "Nature Reserve" area [N22] bound by purple dashed line joining	45/10 8°30.1'S 79°00.1'W 8°30.1'S 78°55.8'W 8°35.9'S 79°55.7'W 8°35.9'S 79°00.0'W		
	"Nature Reserve" area [N22] bound by purple dashed line joining	8°43.8'S 78°49.6'W 8°43.8'S 78°46.3'W 8°47.9'S 78°46.3'W 8°47.9'S 78°49.6'W		
	(7/49, 50)10 Callao)			
22142	2Ed. 2/3/96 LAST NM 5/10 Add "Nature Reserve" area [N22] bound by purple dashed line joining	45/10 8°54'19"S 78°44'01"W 8°54'17"S 78°40'08"W 8°58'18"S 78°40'07"W 8°58'19"S 78°43'58"W		
	"Nature Reserve" area [N22] bound by purple dashed line joining	8°59'11"S 78°43'12"W 8°59'10"S 78°40'07"W 9°04'18"S 78°38'36"W 9°04'21"S 78°43'10"W		
	(Plan) Add "Nature Reserve" area [N22] bound by chart border and purple dashed line joining	9°04'18.0"S 78°39'00.0"W 9°04'17.6"S 78°38'36.3"W 9°03'06.5"S 78°38'57.0"W		
	Note: Nature reserve area extends beyond chart border			
	(7/51, 52)10 Callao)			
22172	8Ed. 10/12/02 LAST NM 37/10 Relocate Buoy from 12°02'27.2"S 77°08'51.8"W to 12°02'27.2"S 77°08'48.8"W	45/10 (7/56)10 Callao)		
22221	20Ed. 8/31/96 LAST NM 8/10 (Plan D) Delete Pilot station symbol and purple dashed line-circle, radius 0.3 mile, centered 23°38'21.0"S 70°24'58.0"W	45/10 Line 4 "3 Socopesca Pier" from INDEX TO PIERS note 23°37'29.5"S 70°23'03.5"W Line 7 "6 Me Miraflores" from INDEX TO PIERS note 23°37'33.0"S 70°23'03.5"W		
	Add Pilot station symbol with purple dashed line-circle, radius 0.3 mile, centered 23°38'19.2"S 70°24'59.3"W			
	Chartlet, depicting changes in hydrography, topography and aids to navigation, from Subsection I-2 23°38'42.0"S 70°24'18.0"W (NGA; 4(38)10 Valparaiso)			
22528	3Ed. 8/13/94 LAST NM 28/08 Change Characteristic of light to Fl 3s (UKHO LL)	45/10 0°45'34"S 90°18'13"W		
23102	7Ed. 7/11/09 LAST NM N39/09 Add Wreck [K29] (8/76)04 Buenos Aires		N45/10 42°46'02.4"S 64°58'01.8"W	
24028	6Ed. 8/11/01 LAST NM 43/10 Add Platform with light flare symbol [L10] Mo(U) 10M Horn RACON (UKHO ARCS 493-0)		45/10 11°13.5'N 61°31.2'W	
24053	16Ed. 4/8/95 LAST NM 41/10 Substitute Light Fl 3s for position circle "Tower" (4/33)04 Buenos Aires		45/10 34°36'43.8"S 58°21'34.2"W	
24350	2Ed. 2/21/98 LAST NM 22/10 Delete "Tanker Anchorage" area centered	45/10 4°59.3'N 52°07.3'W		
	Add "Tanker Anchorage" area [N12.5] bound by purple dashed-line circle, radius 1 mile, centered	4°58.4'N 52°10.6'W		
	(Plan) Delete "Tanker Anchorage" area centered	4°59'24"N 52°07'15"W		
	Relocate Anchorage symbol from 5°04'09"N 52°19'16"W to	5°03'34"N 52°18'59"W		
	Add "Tanker Anchorage" area [N12.5] bound by purple dashed-line circle, radius 1 mile, centered (Fr CH 7379)	4°58'24"N 52°10'38"W		
24355	2Ed. 2/14/98 LAST NM 12/07 Delete Anchorage symbol	45/10 5°04'06"N 52°19'16"W		
	Add Anchorage symbol (large vessels) [N10] with legend "Waiting"	5°03'34"N 52°18'59"W		
	"Tanker Anchorage" area [N12.5] bound by purple dashed-line circle, radius 1 mile, centered (Fr CH 7379)	4°58'24"N 52°10'38"W		
24430	5Ed. 8/7/93 LAST NM 33/10 Delete Anchorage area centered	45/10 10°11.1'N 64°45.5'W		
	Add Anchorage area [N12.1] bound by purple dashed line joining	10°12.5'N 64°48.0'W 10°12.5'N 64°44.9'W 10°10.0'N 64°44.9'W 10°10.0'N 64°48.0'W		
	(UKHO ARCS 2191)			
24434	4Ed. 10/29/94 LAST NM 28/10 Delete Anchorage area centered	45/10 10°12'08"N 64°45'38"W		
	Add Anchorage area [N12.1] bound by chart border and purple dashed line joining	10°11'20"N 64°48'00"W 10°12'30"N 64°48'00"W 10°12'30"N 64°44'54"W 10°11'20"N 64°44'54"W		
	Note: Area extends beyond chart border (UKHO ARCS 2191)			
25400	2Ed. 2/7/04 LAST NM 42/09 Change Platform to "Hibiscus" Mo(U) 10M Horn RACON (B)	45/10 11°07.8'N 61°39.5'W		
	Add Submarine pipeline [L40.1] with legend "GAS (SEE NOTE)" joining	11°10.1'N 61°40.8'W 11°07.8'N 61°39.5'W 11°07.2'N 61°39.8'W 11°06.7'N 61°39.6'W 11°05.7'N 61°40.2'W 11°03.2'N 61°40.1'W 11°01.0'N 61°40.8'W 10°54.4'N 61°41.3'W		

(continued on next page)

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25400 (Continued)

	Submarine pipeline [L40.1] joining	11°13.5'N 61°31.2'W 11°11.9'N 61°34.2'W 11°07.7'N 61°38.0'W 11°07.8'N 61°39.5'W	Anchor berth "C" from 51°23'35"N 3°45'59"E to 51°23'38"N 3°45'50"E
	Submarine pipeline [L40.1] joining	11°13.5'N 61°31.2'W 11°11.3'N 61°34.0'W 11°08.3'N 61°34.8'W 11°08.2'N 61°37.6'W 11°07.8'N 61°39.5'W	Anchor berth "D" from 51°23'19"N 3°46'41"E to 51°23'23"N 3°46'32"E
	Legend "Chaconia Gas Field" Legend "Hibiscus Gas Field" Legend "Poinsettia Gas Field"	11°11.7'N 61°40.9'W 11°07.5'N 61°36.5'W 11°14.2'N 61°32.7'W	Anchor berth "E" from 51°23'04"N 3°47'23"E to 51°23'07"N 3°47'14"E
	Legend "OIL AND GAS FIELDS (SEE NOTE)" Platform "Poinsettia" [L10] Mo(U) 10M Horn RACON (UKHO ARCS 493-0)	11°11.2'N 61°36.8'W 11°13.5'N 61°31.2'W	Buoy "E 2B" from 51°24'04"N 3°45'31"E to 51°24'06"N 3°45'21"E
37223	14Ed. 9/2/95 LAST NM 44/10 Delete Buoy (40(477)10 Den Haag)	45/10 53°19.1'N 4°59.8'E	Buoy "E 3B" from 51°23'35"N 3°45'06"E to 51°23'38"N 3°44'56"E
37226	18Ed. 5/31/08 LAST NM N43/10 Relocate Buoy "NE 11" from 53°58'09"N 8°41'39"E to (39(44)10 Hamburg)	N45/10 53°58'19"N 8°41'16"E	Buoy "E 3D" from 51°23'06"N 3°46'28"E to 51°23'09"N 3°46'19"E and change period to 4s
37228	14Ed. 7/25/98 LAST NM 43/10 Delete Anchorage area "Freiburg Reede" in vicinity	45/10 53°50'28"N 9°19'33"E	Change Legend to "059°" 51°27'51"N 3°41'54"E
	Relocate Buoy "Reede 1" from 53°50'25"N 9°19'26"E to 53°50'37"N 9°19'09"E	53°50'28"N 9°19'33"E	Add Buoy "Epirus" YB, can, double cone topmark points downward 51°24'02"N 3°45'33"E
	Buoy "Reede 3" from 53°50'02"N 9°19'59"E to 53°50'05"N 9°20'05"E		(Inset G) Add Vertical clearance [D20] 9.1 meters to bridge 51°14'25"N 4°25'14"E
	Buoy "69/Reede" from 53°50'47"N 9°18'53"E to 53°50'51"N 9°18'58"E		(Plan A) Change Legend to "059°" 51°27'25.0"N 3°40'47.0"E (39(457, 464), 40(473)10 Den Haag; 20(248)10 Oostende)
	Buoy "71/WF Nord/Reede" from 53°50'09"N 9°20'10"E to 53°50'11"N 9°20'14"E		
	Substitute Range beacon, front for range light, front and sector	53°50'14"N 8°59'39"E	
	Range beacon, rear for range light, rear and sector	53°50'11"N 8°59'44"E	
	Note: Range line and legend remain		
	Change Sectors of light "Osterende" between 047° and 104° to white 047°-093°42', red-104°	53°50'46"N 9°21'17"E	
	Note: Remaining sectors unchanged		
	Add Anchorage area bound by purple dashed line joining	53°50'51"N 9°18'58"E 53°50'51"N 9°19'07"E 53°50'13"N 9°20'19"E 53°50'05"N 9°20'05"E 53°50'37"N 9°19'09"E	
		(39(46), 40(46)10 Hamburg)	
37230	14Ed. 11/14/98 LAST NM 30/09 (Plan B) Delete Light (40(48)10 Hamburg)	45/10 53°28'04.8"N 9°59'22.7"E	
37231	18Ed. 4/5/97 LAST NM 43/10 Add Dangerous wreck [K28] Depth 1.6 meters (40(2)10 Hamburg)	45/10 53°47'02"N 8°05'48"E 53°42'14"N 8°18'15"E	
37241	19Ed. 4/4/09 LAST NM N31/10 Add Foul ground symbol [K31] (40(479)10 Den Haag)	N45/10 51°56.75'N 3°42.47'E	
37246	15Ed. 4/22/06 LAST NM 41/10 Delete Light and sectors	45/10 51°22'14"N 4°02'38"E	
	Relocate Anchor berth "B" from 51°23'49"N 3°45'18"E to 51°23'52"N 3°45'09"E		

SECTION I

NM 45/10

P 44420	7Ed. 7/3/10 LAST NM 44/10	45/10	
Add	Purple tint area (traffic separation zone) [M13] bound by limit joining		
	56°17.6'N 18°39.1'E 56°20.2'N 18°46.8'E 56°24.6'N 18°51.0'E 56°24.2'N 18°52.3'E 56°19.6'N 18°47.8'E 56°16.9'N 18°39.9'E		
	Note: The above Traffic Separation Scheme Amendments have been adopted by the IMO and will become effective at 0000 UTC hours on 1 January 2011 (NTM0020/2010)		
P 44430	3Ed. 5/15/10 LAST NM 44/10	45/10	
Add	Purple tint area (traffic separation zone) [M13] bound by limit joining		
	56°17.6'N 18°39.1'E 56°20.2'N 18°46.8'E 56°24.6'N 18°51.0'E 56°24.2'N 18°52.3'E 56°19.6'N 18°47.8'E 56°16.9'N 18°39.9'E		
	Open outlined arrow indicating flow of traffic [M10] oriented 209° 56°23.8'N 18°46.5'E Open outlined arrow indicating flow of traffic [M10] oriented 029° 56°21.7'N 18°52.6'E		
	Note: The above Traffic Separation Scheme has been adopted by the IMO and will become effective at 0000 UTC hours on 1 January 2011 (NTM0020/2010)		
44443	1Ed. 8/1/09 LAST NM N39/09	N45/10	
	Relocate Buoy "No 9" from 56°31'52.7"N 20°58'31.8"E to 56°31'52.2"N 20°58'30.0"E (9(95)10 Riga)		
44461	10Ed. 1/11/97 LAST NM 35/10	45/10	
Delete	Buoy (mooring) (52(7578)06 St. Petersburg)	54°39.9'N 19°45.1'E	
44465	2Ed. 4/23/94 LAST NM 41/10	45/10	
Add	Submarine pipeline [L40.1] between		
	54°36'47"N 18°30'46"E 54°37'08"N 18°32'46"E		
	Light Fl 2s (41(784)10 Gdynia)	54°37'08"N 18°32'46"E	
44481	2Ed. 2/22/97 LAST NM 43/10	45/10	
Add	Depth 37 meters Wk [K26] (41(787)10 Gdynia)	54°45.5'N 16°02.5'E	
52170	3Ed. 7/8/95 LAST NM 24/10	45/10	
Add	Platform with light flare symbol [L10] Platform with light flare symbol [L10]	36°06.9'N 10°49.3'E 36°22.5'N 10°54.2'E	
	Wreck [K29] Wreck [K29] Wreck [K29] (30(35)10 Brest; Ital CH 434, 947)	35°29.3'N 12°32.7'E 35°18.9'N 11°57.3'E 35°06.5'N 12°53.0"E	
52172	2Ed. 8/12/95 LAST NM 22/10	45/10	
Add	Platform with light flare symbol [L10] Platform with light flare symbol [L10]	36°06'54"N 10°49'18"E 36°22'30"N 10°54'12"E (30(35)10 Brest)	
52180	14Ed. 7/31/99 LAST NM 43/10	45/10	
Add	Danger circle "Obstn (Marine farm) (Buoyed)" [K40] (25(36)10 Brest)	37°04.2'N 10°15.1'E	
52184	3Ed. 5/15/99 LAST NM 46/09	45/10	
Add	"Marine Farm" area bound by dashed line joining	37°04'54"N 10°15'11"E 37°04'22"N 10°15'45"E 37°03'48"N 10°15'11"E 37°04'21"N 10°14'35"E	
			Buoy BY, pillar, double cone topmark points upward, VQ [Q130.3] 37°04'54"N 10°15'11"E Buoy BYB, pillar, double cone topmark bases together, VQ(3) 10s [Q130.3] 37°04'22"N 10°15'45"E
			Buoy YB, pillar, double cone topmark points downward, VQ(6) + L Fl 10s [Q130.3] 37°03'48"N 10°15'11"E
			Buoy BYY, pillar, double cone topmark points together, VQ(9) 10s [Q130.3] 37°04'21"N 10°14'35"E (25(36)10 Brest)
52200	8Ed. 3/20/99 LAST NM 10/10	45/10	
Add	Wreck [K29] (PA) (25(36)10 Brest)	37°01.8'N 8°48.5'E	
53011	2Ed. 2/10/01 LAST NM 43/10	45/10	
Add	Wreck [K29] (Ital CH 947)	35°29.4'N 12°32.7'E	
53031	1Ed. 5/2/92 LAST NM 43/10	45/10	
Substitute	Disused submarine cable [L32] for submarine cable between	41°29.0'N 8°35.2'E 41°35.2'N 10°09.8'E	
	Disused submarine cable [L32] for submarine cable between	41°21.8'N 8°33.5'E 41°25.8'N 10°08.2'E	
	Disused submarine cable [L32] for submarine cable between	41°54.8'N 12°08.2'E 41°35.9'N 10°42.5'E	
	Disused submarine cable [L32] for submarine cable between	41°54.8'N 12°08.2'E 41°29.9'N 10°44.9'E	
	Disused submarine cable [L32] for submarine cable between	41°54.8'N 12°08.2'E 41°23.1'N 11°54.1'E	
53120	14Ed. 7/3/99 LAST NM 42/10	45/10	
Substitute	Disused submarine cable [L32] for submarine cable between	41°21.0'N 9°20.2'E 41°22.5'N 9°22.3'E	
	Disused submarine cable [L32] for submarine cable between	41°24.8'N 9°28.3'E 41°35.4'N 10°9.8'E	
	Disused submarine cable [L32] for submarine cable between	41°20.4'N 9°21.7'E 41°21.1'N 9°24.4'E	
	Disused submarine cable [L32] for submarine cable between	41°22.2'N 9°29.5'E 41°22.8'N 9°33.5'E	
	Disused submarine cable [L32] for submarine cable between	41°19.6'N 9°22.3'E 41°19.6'N 9°27.6'E	
	Disused submarine cable [L32] for submarine cable between	41°19.5'N 9°28.6'E 41°15.0'N 10°03.7'E	
	Disused submarine cable [L32] for submarine cable between	41°54.2'N 12°04.9'E 41°39.4'N 11°00.4'E	
	Disused submarine cable [L32] for submarine cable between	41°52.6'N 12°05.2'E 41°36.0'N 11°40.0'E	
	Disused submarine cable [L32] for submarine cable between	41°53.4'N 12°08.0'E 41°05.0'N 11°52.8'E	
		(Ital CH 912, 913)	

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53130	1Ed. 9/9/89 LAST NM 11/09 Substitute Disused submarine cable [L32] for submarine cable between	45/10 41°22.2'N 9°00.0'E 41°35.4'N 10°09.8'E	53301	4Ed. 10/26/96 LAST NM 38/10 Substitute Disused submarine cable [L32] for submarine cable between	45/10 41°19'56"N 9°18'41"E 41°28'08"N 9°38'38"E
	Disused submarine cable [L32] for submarine cable between	41°19.0'N 9°00.0'E 41°25.2'N 10°03.6'E		Disused submarine cable [L32] for submarine cable between	41°19'56"N 9°20'20"E 41°24'22"N 9°38'38"E
(Ital CH 912)			(Ital CH 912)		
53135	2Ed. 6/3/95 LAST NM 2/10 Add Marine nature reserve area [N22] bound by shore and purple composite line joining	45/10 42°14'37.2"N 11°06'40.0"E 42°14'38.3"N 11°07'21.9"E 42°14'19.1"N 11°07'21.9"E 42°13'44.3"N 11°06'35.7"E 42°13'51.5"N 11°05'41.1"E 42°14'15.5"N 11°05'09.9"E 42°14'38.3"N 11°04'57.9"E 42°14'43.1"N 11°05'46.5"E	54090	3Ed. 9/14/02 LAST NM 39/10 Add "PROHIBITED AREA" [N2.2] bound by purple composite-line greater arc of a circle, radius 1 mile, centered	45/10 42°19.3'N 18°42.7'E 42°19.2'N 18°42.5'E 42°18.5'N 18°43.6'E
	Marine nature reserve area [N22] bound by shore and purple composite line joining	42°15'08.3"N 11°06'59.1"E 42°15'14.3"N 11°07'45.9"E 42°15'44.3"N 11°07'33.9"E 42°16'17.3"N 11°06'29.1"E 42°15'46.7"N 11°06'33.0"E		"PROHIBITED AREA" [N2.2] bound by purple composite-line greater arc of a circle, radius 2 miles, centered	42°08.1'N 19°00.6'E 42°09.7'N 18°59.1'E 42°08.2'N 19°03.3'E
	Marine nature reserve area [N22] bound by shore and purple composite line joining	42°15'27.0"N 11°05'44.0"E 42°15'44.3"N 11°05'06.3"E 42°16'02.9"N 11°05'44.1"E 42°15'32.0"N 11°05'56.1"E		Light Fl R 4s 25m 6M (UKHO ARCS 1582-0)	42°11.7'N 18°56.2'E
	Purple dashed line (marine nature reserve area limit) [N22] joining	42°14'38.3"N 11°07'21.9"E 42°14'38.9"N 11°10'42.3"E 42°13'39.5"N 11°10'39.3"E 42°12'30.0"N 11°08'42.4"E	54280	11Ed. 12/10/05 LAST NM 43/10 Relocate Buoy from 37°56.8'N 20°36.4'E to (9/215)10 Athens	45/10 37°56.9'N 20°36.0'E
	Purple dashed line (marine nature reserve area limit) [N22] joining	42°15'10.1"N 11°05'30.3"E 42°15'12.5"N 11°01'26.1"E 42°14'18.5"N 11°01'42.3"E 42°13'05.3"N 11°02'15.3"E 42°12'30.0"N 11°03'00.0"E	54300	12Ed. 2/22/92 LAST NM 43/10 Relocate Buoy from 36°49.6'N 21°35.9'E to (9/215)10 Athens	45/10 36°49.3'N 21°36.2'E 36°58.2'N 22°00.1'E
	Legend "Marine Nature Reserve"	42°13'15.0"N 11°06'12.0"E	54301	4Ed. 10/14/95 LAST NM 31/09 Relocate Buoy from 36°49'37"N 21°35'55"E to (9/215)10 Athens	45/10 36°49'16"N 21°36'15"E 36°58'12"N 22°00'04"E
	"Marine Nature Reserve" area [N22] bound by purple dashed line joining	42°15'14.3"N 11°07'45.9"E 42°15'37.1"N 11°10'00.3"E 42°17'08.3"N 11°10'18.3"E 42°18'47.9"N 11°06'20.7"E 42°18'26.3"N 11°04'50.7"E 42°17'01.1"N 11°02'14.7"E 42°15'44.3"N 11°05'06.3"E	54320	4Ed. 10/5/91 LAST NM 36/10 Relocate Buoy from 36°15.3'N 25°29.8'E to (9/216)10 Athens	45/10 36°15.4'N 25°29.8'E 35°47.2'N 24°55.9'E
(Ital CH 6)			54321	3Ed. 2/28/09 LAST NM N24/10 Relocate Buoy from 36°15'14"N 25°29'44"E to (9/216)10 Athens	N45/10 36°15'25"N 25°29'45"E
53220	7Ed. 9/24/05 LAST NM 43/10 Add Wreck [K29] Wreck [K29]	45/10 35°29.4'N 12°32.7'E 35°18.9'N 11°57.3'E	54341	4Ed. 11/26/94 LAST NM 34/10 Add Buoy Y, pillar, Fl(5) Y 20s [Q130.6]	45/10 37°36'00"N 23°33'41"E
(Ital CH 434, 947)				(9/218)10 Athens	
53283	4Ed. 9/28/85 LAST NM 6/10 Add Light Q(3)10s 6m 3M to beacon	45/10 40°55.28'N 9°39.17'E	54343	10Ed. 12/9/95 LAST NM 18/10 Relocate Buoy from 37°35'55"N 23°33'31"E to (9/218)10 Athens	45/10 37°36'00"N 23°33'41"E
(Ital CH 42)					
53287 (INT 3350)	6Ed. 9/30/95 LAST NM 38/10 Substitute Disused submarine cable [L32] for submarine cable between	45/10 41°24'21"N 8°53'00"E 41°26'43"N 9°33'36"E	54344	6Ed. 3/23/96 LAST NM 35/10 Relocate Buoy from 37°35'55"N 23°33'31"E to (9/218)10 Athens	45/10 37°36'00"N 23°33'41"E
	Disused submarine cable [L32] for submarine cable between	41°21'57"N 8°53'00"E 41°19'25"N 9°33'36"E			
	Disused submarine cable [L32] for submarine cable between	41°20'29"N 8°53'00"E 41°22'45"N 9°33'36"E	54350	4Ed. 12/18/93 LAST NM 30/09 (Plan A) Relocate Buoy from 39°06'24"N 24°27'36"E to (9/220)10 Athens	45/10 39°06'21"N 24°27'22"E
(Ital CH 912)					

SECTION I

NM 45/10

54360	12Ed. 9/22/90 LAST NM 38/10 Relocate Buoy from 39°57.7'N 24°43.5'E to (9(221)10 Athens)	45/10 39°58.1'N 24°43.1'E	63200	5Ed. 1/29/94 LAST NM 44/10 Add Racon (G) [S3.1] at light (6(94)10 Dehra Dun)	45/10 11°09.5'N 75°48.3'E
54380	6Ed. 5/11/91 LAST NM 44/10 Relocate Buoy from 39°09.2'N 25°48.5'E to (9(222)10 Athens)	45/10 39°09.3'N 25°48.5'E	63252	2Ed. 4/7/07 LAST NM N48/09 Add Legend "Works in progress (2010)" (7(112)10 Dehra Dun)	N45/10 8°45'10.0"N 78°12'45.0"E
54421	6Ed. 3/17/01 LAST NM 36/10 Add Buoy Y, conical, "X" topmark, Fl(5) Y 20s [Q130.6] (41(245)10 Istanbul)	45/10 36°45'49"N 28°25'32"E	63383	5Ed. 1/2/99 LAST NM 48/01 (Plan) Delete Buoy "1" Buoy "3" Buoy "5" Buoy Buoy Buoy Add Buoy G, conical, Fl G 4s Buoy R, can, Fl R 4s (6(98)10 Dehra Dun; UKHO ARCS 514-0)	45/10 11°41'33.9"N 92°43'15.5"E 11°41'20.8"N 92°43'01.2"E 11°41'18.0"N 92°42'35.6"E 11°41'12.0"N 92°42'41.0"E 11°41'24.3"N 92°43'01.5"E 11°41'39.7"N 92°43'18.9"E 11°41'14.4"N 92°42'41.7"E 11°41'23.7"N 92°42'59.4"E 11°41'36.7"N 92°43'10.6"E 11°41'20.6"N 92°43'33.8"E 11°41'17.3"N 92°43'38.6"E
54422	4Ed. 1/26/02 LAST NM 33/09 Add Buoy Y, conical, "X" topmark, Fl(5) Y 20s [Q130.6] (41(245)10 Istanbul)	45/10 36°45'49.2"N 28°25'31.8"E	63410	6Ed. 10/10/87 LAST NM 33/08 Delete Pilot station symbol (UKHO ARCS 823-0)	45/10 16°08.8'N 96°17.0'E 16°12.7'N 96°18.2'E
55046	4Ed. 11/30/96 LAST NM 44/10 Delete Dashed line between	45/10 40°56'50"N 28°43'28"E 40°56'50"N 28°47'22"E	63420	2Ed. 10/10/87 LAST NM 33/08 Delete Pilot station symbol (UKHO ARCS 823-0)	45/10 16°08.7'N 96°17.2'E 16°12.7'N 96°18.2'E
	Add Dashed line joining	40°56'50"N 28°43'28"E 40°56'20"N 28°47'22"E 40°56'50"N 28°47'22"E (41(242)10 Istanbul)	71253	11Ed. 10/15/05 LAST NM 32/10 Change Legend to "9.0m (2009)" Add Submarine pipeline [L40.1] with legend "Water (buried)" between	45/10 1°17'32.3"S 103°41'40.0"E 1°16'10.3"S 103°44'00.7"E 1°14'08.3"S 103°45'38.2"E (50(6553)09 Taunton)
55048	12Ed. 9/9/00 LAST NM 37/10 (Panel B) Delete Buoy	45/10 41°04'49.3"N 29°03'49.7"E	★74205	2Ed. 11/12/94 CHART CANCELED (NGA)	45/10
	Add Buoy YBY, pillar, double cone topmark points together, Q(9) 15s [Q130.3] (41(241)10 Istanbul)	41°04'50.4"N 29°03'49.8"E	★74237	3Ed. 11/21/08 NEW EDITION (NGA)	N45/10
56011	1Ed. 8/3/91 LAST NM 43/10 Add Wreck [K29] Wreck [K29] Wreck [K29] (Ital CH 434, 947)	45/10 35°29.4'N 12°32.7"E 35°18.9'N 11°57.3"E 35°06.5'N 12°53.0"E	★74243	1Ed. 5/26/06 NEW CHART (NGA)	N45/10
63005	18Ed. 2/26/94 LAST NM 44/10 Add Racon (G) [S3.1] at light (6(94)10 Dehra Dun)	45/10 11°09.2'N 75°48.5'E	★74244	1Ed. 4/27/07 NEW CHART (NGA)	N45/10
63062	8Ed. 5/19/07 LAST NM 44/10 Delete Pilot station symbol and legend "Kandla" (7(104)10 Dehra Dun)	45/10 22°50'35"N 70°05'51"E	★74248	1Ed. 5/27/05 NEW CHART (NGA)	N45/10
63065	6Ed. 2/17/96 LAST NM 37/10 Delete Pilot station symbol and legend "Pilots"	45/10 22°50'28.5"N 70°05'46.0"E	91331	3Ed. 8/23/86 LAST NM 44/10 Add Light Fl(2) 5s (2(45)08 Manila)	45/10 13°09'23"N 121°26'17"E
	Buoy "Spoil Ground 1"	22°54'22.0"N 70°12'13.5"E	91340	3Ed. 10/29/83 LAST NM 44/10 Add Light Fl(2) 5s (2(45)08 Manila)	45/10 13°09'20"N 121°26'19"E
	Add Pilot station symbol [T1.1]	22°53'25.8"N 70°10'05.1"E	92025	3Ed. 2/11/84 LAST NM 29/07 Change Visibility (range) of light to 11M (2(9)08 Manila; UKHO LL)	45/10 10°20.2'N 123°59.1"E
	"Spoil Ground" area [N62.1] bound by dashed-line circle, radius 1000 meters, centered	22°54'01.2"N 70°08'59.7"E (7(104)10 Dehra Dun; UKHO ARCS 3466-0)	92030	4Ed. 1/22/83 LAST NM 44/10 Change Visibility (range) of light to 11M (2(9)08 Manila; UKHO LL)	45/10 10°20.2'N 123°59.1"E
63090	9Ed. 5/2/09 LAST NM 38/10 Add Racon (C) [S3.1] to platform Racon (G) [S3.1] to platform (7(106, 107)10 Dehra Dun)	45/10 19°07.4'N 72°06.4"E 18°48.4'N 72°20.0"E			
63101	17Ed. 1/31/09 LAST NM N42/10 Add Racon (C) [S3.1] to platform Racon (G) [S3.1] to platform (7(106, 107)10 Dehra Dun)	N45/10 19°07'30"N 72°06'25"E 18°48'21"N 72°19'54"E			
63111	10Ed. 2/25/06 LAST NM 34/10 (Plan A) Delete Buoy (Fl Y 2s) (10(189)09 Dehra Dun)	45/10 15°24'55.0"N 73°46'09.0"E			

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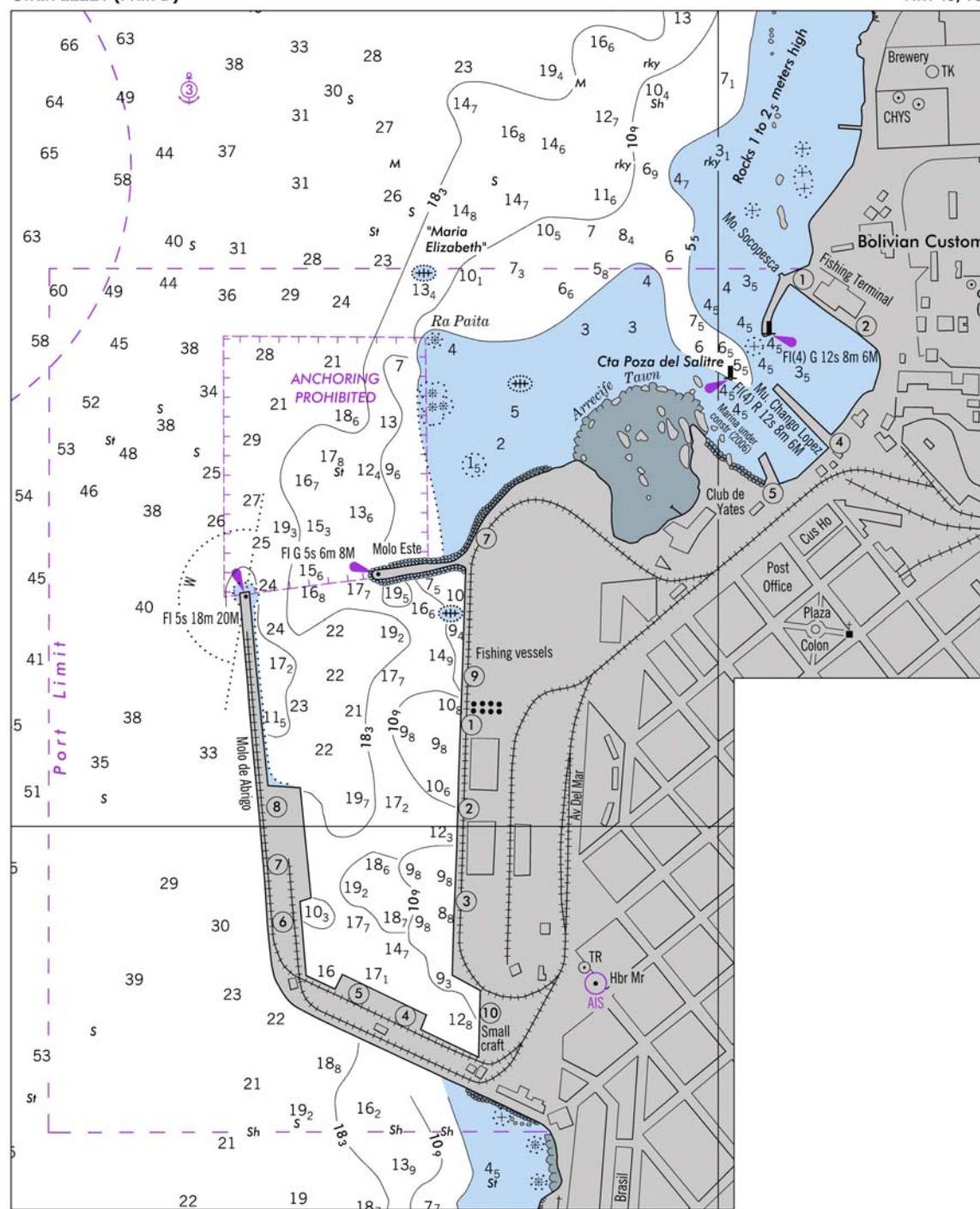
92320	4Ed. 6/27/98 LAST NM 44/10 Change Visibility (range) of light to 11M (2)(9)08 Manila; UKHO LL	45/10 10°20'07"N 123°59'12"E	95147	14Ed. 4/1/06 LAST NM 32/10 Relocate Buoy "No 2" from 35°06'35.1"N 128°41'10.1"E to 35°06'33.0"N 128°41'14.0"E Buoy "No 4" from 35°06'53.1"N 128°41'28.1"E to (39(577)10 Inchon)	45/10 35°06'33.0"N 128°41'14.0"E 35°06'46.0"N 128°41'32.0"E (39(577)10 Inchon)
92380	3Ed. 9/19/98 LAST NM 44/10 Change Visibility (range) of light to 11M (2)(9)08 Manila; UKHO LL	45/10 10°20'12"N 123°59'12"E	92383	7Ed. 10/19/91 LAST NM 6/06 Change Visibility (range) of light to 11M (2)(9)08 Manila; UKHO LL	45/10 10°20'07.5"N 123°59'11.9"E
92385	4Ed. 3/28/92 LAST NM 44/10 Change Visibility (range) of light to 11M (2)(9)08 Manila; UKHO LL	45/10 10°20'07.5"N 123°59'11.9"E	96028	5Ed. 8/13/94 LAST NM 1/10 Delete Legend "R Bn" Position circle "LORAN TOWER" (40, 41/10 CG17)	45/10 52°53.0'N 173°13.0'E 52°50.0'N 173°10.0'E
93736	25Ed. 9/1/07 LAST NM N44/10 Delete Depth 5.1 meters Add Depth 3.7 meters enclosed by depth contour (5-meter) centered (21(40)10 Hong Kong)	N45/10 22°18'57.0"N 114°09'29.0"E	97266	6Ed. 12/5/09 LAST NM N44/10 Change Visibility (range) of light to 5M (Jpn LL)	N45/10 34°23.0'N 133°06.7'E
94084	1Ed. 1/15/00 LAST NM 16/09 Relocate Buoy "4" from 22°32'56.3"N 120°18'50.7"E to 22°32'59.9"N 120°18'46.4"E (112/09 Tso-ying)	45/10 22°18'58.6"N 114°09'31.1"E	95067	15Ed. 9/26/09 LAST NM N31/10 Delete Anchorage area "A-4" centered Anchorage area "A-5" centered Anchorage area "A-6" centered (39(585)10 Inchon)	N45/10 37°23'04.0"N 126°33'46.5"E 37°23'31.0"N 126°34'02.5"E 37°23'50.0"N 126°34'21.0"E
95080	14Ed. 9/22/07 LAST NM 37/10 Change Light to Fl 5s 32m 15M Racon (Z) Height of light to 37m (53(820)09 Inchon; ROK CH 301)	45/10 34°45.5'N 126°13.3'E	95084	7Ed. 6/11/94 LAST NM 32/10 Change Light to Fl 5s 32m 15M Racon (Z) 34°45'33.0"N 126°13'26.0"E (53(820)09 Inchon; UKHO LL)	45/10 34°45.7'N 126°17.8'E
95085	4Ed. 6/11/94 LAST NM 32/10 Change Light to Fl 5s 32m 15M Racon (Z) 34°45'33.0"N 126°13'26.0"E (53(820)09 Inchon; UKHO LL)	45/10 34°45'33.0"N 126°13'26.0"E	95100	13Ed. 10/20/07 LAST NM 37/10 Change Light to Fl 5s 32m 15M Racon (Z) Height of light to 37m Height of light to 14m (53(820)09 Inchon; ROK CH 244, 301)	45/10 34°45.5'N 126°13.3'E 34°45.7'N 126°17.8'E 33°31.7'N 126°32.5'E
95103	8Ed. 5/18/96 LAST NM 36/10 Change Light to Fl G 5s 14m 9M (ROK CH 244)	45/10 33°31'39"N 126°32'21"E	95120	9Ed. 8/2/08 LAST NM 18/10 Add Light Fl G 5s 14m 9M (ROK CH 244)	45/10 33°31.8'N 126°32.5'E
95141	8Ed. 8/5/95 LAST NM 32/10 Add Beacon BRB, double ball topmark, Fl(2) 5s 11m 8M [Q130.4] Beacon BRB, double ball topmark, Fl(2) 5s 14m 8M [Q130.4] (ROK CH 227, 256)	45/10 34°45'03"N 127°26'53"E 34°30'20"N 127°14'21"E			

SECTION I

NM 45/10

Chart 22221 (Plan D)

NM 45/10



SECTION I

Chart 11493

NM N45/10

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2006 AND SURVEYS TO JUL 2010								
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)
ENTRANCE CHANNEL	46.0	47.6	47.9	42.3	7-10	500	8.3	46
RANGE A	41.6	47.3	45.4	41.5	4-10	482	1.34	42
RANGE A1, A2	46.0	43.6	42.1	39.8	4-10	591-834	0.66	42
RANGE B	46.8	47.5	47.4	41.9	4-10	582-655	0.55	42
RANGE C	32.6	43.0	46.1	42.5	4-10	498	1.19	42
RANGE D	33.8	42.3	42.7	37.6	4-10	489-498	1.35	42
RANGE E	43.2	43.2	43.0	38.8	4-10	512	0.87	42
RANGE F (WARRIOR REACH)	38.3	44.5	44.4	40.0	4-10	564-836	0.25	42
RANGE G (SOUTH TURNING BASIN)	23.3	39.4	44.1	43.3	4-10	661-1181	0.49	42
RANGE H (TENNESSEE REACH)	19.8	42.3	42.6	41.3	4-10	482-1197	0.83	42
RANGE I (NORTH TURNING BASIN)	43.2	45.6	43.7	40.4	4-10	493-1425	0.46	42

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

Chart 11494

NM N45/10

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2006 AND SURVEYS TO JUL 2010								
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)
ENTRANCE CHANNEL	46.0	47.6	47.9	42.3	7-10	500	8.3	46
QUARANTINE REACH**	---	---	---	---	10/2003	400-1100	1.67	35
RANGE A	41.6	47.3	45.4	41.5	4-10	482	1.34	42
RANGE A1, A2	46.0	43.6	42.1	39.8	4-10	591-834	0.66	42
RANGE B	46.8	47.5	47.4	41.9	4-10	582-655	0.55	42
RANGE C	32.6	43.0	46.1	42.5	4-10	498	1.19	42
RANGE D	33.8	42.3	42.7	37.6	4-10	489-498	1.35	42
RANGE E	43.2	43.2	43.0	38.8	4-10	512	0.87	42

** FROM REPORT OF NOV 2003, AND SURVEYS TO OCT 2003

Chart 11503

NM 45/10

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2006 AND SURVEYS TO JUL 2010								
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)
ENTRANCE CHANNEL	46.0	47.6	47.9	42.3	7-10	500	8.3	46
RANGE A	41.6	47.3	45.4	41.5	4-10	482	1.34	42
RANGE A1, A2	46.0	43.6	42.1	39.8	4-10	591-834	0.66	42
RANGE B	46.8	47.5	47.4	41.9	4-10	582-655	0.55	42
RANGE C	32.6	43.0	46.1	42.5	4-10	498	1.19	42
RANGE D	33.8	42.3	42.7	37.6	4-10	489-498	1.35	42
RANGE E	43.2	43.2	43.0	38.8	4-10	512	0.87	42
RANGE F (WARRIOR REACH)	38.3	44.5	44.4	40.0	4-10	564-836	0.25	42
RANGE G (SOUTH TURNING BASIN)	23.3	39.4	44.1	43.3	4-10	661-1181	0.49	42
RANGE H (TENNESSEE REACH)	19.8	42.3	42.6	41.3	4-10	482-1197	0.83	42
RANGE I (NORTH TURNING BASIN)	43.2	45.6	43.7	40.4	4-10	493-1425	0.46	42

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

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Chart 12273

NM 45/10

BALTIMORE HARBOR CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2010								
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 (MILES)	DEPTH MLLW (FEET)
CRAIGHILL ENTRANCE	47.0	51.0	51.0	49.0	3-09	700	3.79	50
CRAIGHILL CHANNEL	49.0	51.0	51.0	47.0	4-09	700	3.24	50
CRAIGHILL ANGLE	44.0	46.0	48.0	45.0	7-10	700-1870	1.88	50
CRAIGHILL CHANNEL UPPER RANGE	51.0	50.0	51.0	51.0	5-09	700	1.19	50
CUTOFF ANGLE	50.0	51.0	49.0	49.0	3-09	700-1740	1.14	50
BREWERTON CHANNEL	51.0	51.0	51.0	50.0	4-09	700	3.50	50
EASTERN EXTENSION	35.0	35.0	35.0	35.0	1-10	600	6.33	35
SWAN POINT CHANNEL	35.0	35.0	35.0	35.0	6-09	600	3.13	35
TOLCHESTER CHANNEL	31.0	35.0	36.0	35.0	6-09	450-600	10.87 **	35

* ALL DEPTHS REPORTED TO NEAREST FOOT.
** THE LAST 1.88 NM OVERLAPS WITH THE CHESAPEAKE AND DELAWARE CANAL CHANNEL.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12278

NM 45/10

BALTIMORE HARBOR CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2010								
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 (MILES)	DEPTH MLLW (FEET)
CRAIGHILL ENTRANCE	47.0	51.0	51.0	49.0	3-09	700	3.79	50
CRAIGHILL CHANNEL	49.0	51.0	51.0	47.0	4-09	700	3.24	50
CRAIGHILL ANGLE	44.0	46.0	48.0	45.0	7-10	700-1870	1.88	50
CRAIGHILL CHANNEL UPPER RANGE	51.0	50.0	51.0	51.0	5-09	700	1.19	50
CUTOFF ANGLE	50.0	51.0	49.0	49.0	3-09	700-1740	1.14	50
BREWERTON CHANNEL	51.0	51.0	51.0	50.0	4-09	700	3.50	50
BREWERTON ANGLE	49.0	50.0	50.0	49.0	1-09	700-1460	1.10	50
FORT McHENRY CHANNEL	50.0	50.0	50.0	50.0	3-10	700	4.22	50
CURTIS BAY CHANNEL	49.0	49.0	50.0	50.0	11-09	400-1275	2.25	50
BREWERTON CHANNEL	35.0	35.0	35.0	35.0	1-10	600	6.33	35
EASTERN EXTENSION	35.0	35.0	35.0	35.0	6-09	600	3.13	35
SWAN POINT CHANNEL	35.0	35.0	35.0	35.0	6-09	450-600	10.87 **	35
TOLCHESTER CHANNEL	31.0	35.0	36.0	35.0	6-09			

* ALL DEPTHS REPORTED TO NEAREST FOOT.
** THE LAST 1.88 NM OVERLAPS WITH THE CHESAPEAKE AND DELAWARE CANAL CHANNEL.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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Chart 14975

NM 45/10

DULUTH HARBOR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2010						
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET) LENGTH (NAUT. MILES) DEPTH (FEET) LWD (FEET)
DULUTH ENTRY	A	A	A	A		
1	25.7	30.3	31.5	29.8	7-2009	245-1000 .13 32
2	27.5	33.4	33.8	30.0	7-2009	245 .08 31
3	30.3	32.5	31.8	30.4	7-2009	245 .07 30
4	31.8	31.5	31.5	31.0	7-2009	245 .07 29
5	25.6	31.7	32.3	24.1	7-2010	245-480 .07 28
DULUTH HARBOR BASIN						
NORTHERN SECTION	25.3	27.7	28.1	24.9	7-2010	1100-2700 .64 28
SOUTHERN SECTION	24.3	25.6	26.2	22.1	7-2009; 7-2010	1200-2700 .91 27
EAST GATE BASIN (NORTH)	25.8	26.6	25.8	23.3	7, 9-2009	1500-3300 .33 27
WEST GATE BASIN	24.7	28.2	27.2	23.6	9-2009	400-850 .66 27
HOWARDS BAY	20.1	23.1	24.5	23.3	9-2009; 7-2010	100-750 .99 27
NORTH CHANNEL						
EASTERN SECTION	18.4	19.8	21.6	B14.7	6-2004; 9-2009	400 1.66 27
WESTERN SECTION	15.4	21.0	20.6	19.8	6-2004; 7-2009	400 .59 21
21ST AVE WEST CHANNEL	7.8	14.4	20.1	19.4	6-1998	200 .33 20
SOUTH CHANNEL						
EASTERN SECTION	20.4	22.5	23.8	25.0	9-2009	400-800 .74 27
WESTERN SECTION	21.8	22.5	22.9	22.2	7-2009	400 .83 23
CROSS CHANNEL	22.2	27.7	29.9	18.7	9-2009	1300 .33 27
UPPER CHANNEL	17.6	23.9	21.5	18.5	7-2009	500 1.00 23
MINNESOTA CHANNEL						
EASTERN SECTION	16.1	21.5	22.7	C19.1	7, 8-2009	600 .95 23
WESTERN SECTION	D13.4	14.6	10.6	E10.3	8-2009	200 2.39 20

A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE.
 B. SHOALING TO UNKNOWN DEPTH BEHIND THE 12 FT CURVE FROM 46°45'02.5"N - 92°06'08.8"W TO 46°45'07.2"N - 92°06'18.6"W
 C. SHOALING TO 9.6 FT IN THE OUTSIDE HALF OF THE QUARTER FOR THE NORTHERN 600 FT OF THE REACH.
 D. SHOALING TO 5.3 FT IN THE OUTSIDE HALF OF THE QUARTER
 E. SHOALING TO 5.7 FT IN THE OUTSIDE HALF OF THE QUARTER.

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

SECTION II
NGA/DLIS CATALOG CORRECTIONS

NM 45/10

Note: Underlining indicates that column in which a correction has been made or new information added.					Edition		Price Category	NTM
NGA Ref. No. (National Stk. No.)	Title	Scale = 1:	No.	Date				
REGION 7								
74BHA74205 (7642014014667)	Canceled Note: Replaced by Chart 74244							45/10
74BHA74237 (7642015273139)	Aus. 257, Townsville Harbour and Ross River Entrance	7,500	3	11/08	AHS	45/10		
<u>74BCO74243</u> (7642015273236)	<u>Aus. 827, Cape Bowling Green to Palm Isles</u> <u>19 30 38S 146 15 06E</u> <u>18 34 10S 147 49 00E</u>	<u>150,000</u>	<u>1</u>	<u>5/06</u>	<u>AHS</u>	<u>45/10</u>		
<u>74BHA74244</u> (7642015366781)	<u>Aus. 245, Port of Gladstone</u> <u>23 53 39S 151 08 52E</u> <u>23 44 49S 151 24 04E</u>	<u>25,000</u>	<u>1</u>	<u>4/07</u>	<u>AHS</u>	<u>45/10</u>		
<u>74BCO74248</u> (7642015366808)	<u>Aus. 253, Whitsunday Passage</u> <u>20 25 00S 148 40 30E</u> <u>20 11 44S 149 04 33E</u> Plan: Shute Harbour <u>20 18 48S 148 46 56E</u> <u>20 16 36S 148 48 48E</u>	<u>37,500</u>	<u>1</u>	<u>5/05</u>	<u>AHS</u>	<u>45/10</u>		
MISCELLANEOUS CHARTS AND PUBLICATIONS								
CDPUBQTLY (7644015310779)	Pub 140, North Atlantic Ocean and Adjacent Seas (Planning Guide), 2010		9					45/10
CDPUBQTLY (7644015310779)	Digital Nautical Publications-Quarterly Update (3rd Quarter 2010)		103		DS	45/10		

Price Categories effective 1 October 2010

A	21.25	E	11.00	G	6.50
D	13.25	F	11.00	H	11.00

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SECTION II
NAVIGATION PUBLICATIONS

NM 45/10

SAILING DIRECTIONS CORRECTIONS

PUB 140 9 Ed 2010 NEW EDITION
(NGA) 45/10

COAST PILOT CORRECTIONS

COAST PILOT 1 40 Ed 2010 Change No. 10
LAST NM 40/10

Page 203—Paragraph 33, lines 1 to 2; read:

In 2009, the controlling depth was 6.3 feet in the channel to the anchorages, thence 4.7 to 8 feet in ...
(CL 816/10; DD 18065) 45/10

Page 245—Paragraph 223, lines 4 to 5; read:

Barred Islands, 300 yards westward, uncovers at low water. In 2010, shoaling to 2 feet was reported within the Barred Islands at 44°14'07.6"N., 68°48'23.1"W. **Oak Island**, 1.5 miles west-southwestward ...
(CL 988/10) 45/10

Page 323—Paragraph 30, lines 12 to 21; read:

by a daybeacon. In 2009, the controlling depth in the entrance channel was 5.2 feet to Brimstone Point about 1.8 miles above the entrance, thence a naturally deep channel leads to Cow Island. A basin northwest of Cow Island surrounds the bare mudflats in the middle of the river. The bar is subject to change; local knowledge is advised. The area in the vicinity of the submerged pilings at the southeast end of the flats should be avoided.
(CL 777/10; DD 18006) 45/10

Page 340—Paragraph 285, line 6; read:

small craft. An anchorage area is in the cove and a buoy northwestward of Fishing Island ...
(CL 459/10; 24/10 CG1) 45/10

Page 392—Paragraph 221, line 7; read:

channel above a height of 83 feet. In 2010, a lift bridge with a design clearance of 7 feet down and 175 feet up was under construction; upon completion, it will replace the Chelsea Street bascule bridge. (See **117.1 through ...**
(CL 356/10) 45/10

Page 406—Paragraph 59; read:

In 2010, the controlling depth was 6.5 feet (8 feet at midchannel) to just inside the east jetty, thence 5.8 feet to the turning basin at the head of the project except for shoaling to bare around Blackman's Point; 6 feet can be carried in the

left outside quarter around the shoal. Depths of 5 to 6 feet were available in the anchorage basin and turning basin.
(CL 241/10; DD 17242; CL 723/10; DD 17941) 45/10

COAST PILOT 1 40 Ed 2010 Change No. 11

Page 85—Paragraphs 1033 to 1044; read:

(7) All bulk liquefied gas cargo carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7 that is flammable and/or toxic and that is not carried as certain dangerous cargo residue (CDC residue).

(8) The following bulk liquids except when carried as CDC residue:

- (i) Acetone cyanohydrin;
- (ii) Allyl alcohol;
- (iii) Chlorosulfonic acid;
- (iv) Crotonaldehyde;
- (v) Ethylene chlorohydrin;
- (vi) Ethylene dibromide;
- (vii) Methacrylonitrile;
- (viii) Oleum (fuming sulfuric acid); and
- (ix) Propylene oxide, alone or mixed with ethylene oxide.

(9) The following bulk solids:

(i) Ammonium nitrate listed as Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue; and

(ii) Ammonium nitrate based fertilizer listed as a Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue.

Certain dangerous cargo residue (CDC residue) includes any of the following:

(1) Ammonium nitrate in bulk or ammonium nitrate based fertilizer in bulk remaining after all saleable cargo is discharged, not exceeding 1,000 pounds in total and not individually accumulated in quantities exceeding two cubic feet.

(2) For bulk liquids and liquefied gases, the cargo that remains onboard in a cargo system after discharge that is not accessible through normal transfer procedures, with the exception of the following bulk liquefied gas cargoes carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7:

- (i) Ammonia, anhydrous;
- (ii) Chlorine;
- (iii) Ethane;
- (iv) Ethylene oxide;
- (v) Methane (LNG);
- (vi) Methyl bromide;

COAST PILOT 1 (Continued)

(vii) Sulfur dioxide; and (viii) Vinyl chloride. (FR 9/28/10)	45/10	(2) For bulk liquids and liquefied gases, the cargo that remains onboard in a cargo system after discharge that is not accessible through normal transfer procedures, with the exception of the following bulk liquefied gas cargoes carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7: (i) Ammonia, anhydrous; (ii) Chlorine; (iii) Ethane; (iv) Ethylene oxide; (v) Methane (LNG); (vi) Methyl bromide; (vii) Sulfur dioxide; and (viii) Vinyl chloride. (FR 9/28/10)	45/10	
COAST PILOT 1	40 Ed 2010	Change No. 12		
Page 308—Paragraph 593, lines 9 to 13; read: the channel is State maintained. In 2008, the controlling depth was 3.5 feet (6.6 feet at midchannel) from Buoy 4 to Buoy 18, thence 3.8 feet to the basin, with depths of 1.7 to 6.0 feet available in the basin except shoaling to bare in the northeast corner. In 1993, shoaling to ... (CL 1089/10; BPs 193934-37)	45/10			
Page 368—Paragraph 95, lines 10 to 14; read: lighted bell buoy. (14/10 CG1)	45/10			
COAST PILOT 3	43 Ed 2010	Change No. 11		
		LAST NM 39/10		
Page 87—Paragraphs 1185 to 1196; read: (7) All bulk liquefied gas cargo carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7 that is flammable and/or toxic and that is not carried as certain dangerous cargo residue (CDC residue). (8) The following bulk liquids except when carried as CDC residue: (i) Acetone cyanohydrin; (ii) Allyl alcohol; (iii) Chlorosulfonic acid; (iv) Crotonaldehyde; (v) Ethylene chlorohydrin; (vi) Ethylene dibromide; (vii) Methacrylonitrile; (viii) Oleum (fuming sulfuric acid); and (ix) Propylene oxide, alone or mixed with ethylene oxide. (9) The following bulk solids: (i) Ammonium nitrate listed as Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue; and (ii) Ammonium nitrate based fertilizer listed as a Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue. <i>Certain dangerous cargo residue (CDC residue) includes any of the following:</i> (1) Ammonium nitrate in bulk or ammonium nitrate based fertilizer in bulk remaining after all saleable cargo is discharged, not exceeding 1,000 pounds in total and not individually accumulated in quantities exceeding two cubic feet.		Page 273—Paragraph 186, line 4; read: head. In 2010, a controlling depth of 2.2 feet was ... (CL 1175/10; BPs 193947-48)	45/10	
			Page 316—Paragraph 166, lines 6 to 11; read: 76 feet; a fog signal is at the channel span of the bridge. (See 117.1 through 117.59 and 117.255 , chapter 2, for drawbridge regulations.) Rocks are on the western edge of ... (CL 1128/10)	45/10
			Page 342—Paragraph 96, lines 5 to 6; read: fishing village of Wenona . In 2010, the controlling depth was 1.8 feet. Gasoline, diesel fuel and some supplies ... (CL 1192/10; DD 18521)	45/10
COAST PILOT 4	42 Ed 2010	Change No. 2		
		LAST NM 42/10		
Page 110—Paragraphs 1516 to 1527; read: (7) All bulk liquefied gas cargo carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7 that is flammable and/or toxic and that is not carried as certain dangerous cargo residue (CDC residue). (8) The following bulk liquids except when carried as CDC residue: (i) Acetone cyanohydrin; (ii) Allyl alcohol; (iii) Chlorosulfonic acid; (iv) Crotonaldehyde; (v) Ethylene chlorohydrin; (vi) Ethylene dibromide; (vii) Methacrylonitrile; (viii) Oleum (fuming sulfuric acid); and (ix) Propylene oxide, alone or mixed with ethylene oxide. (9) The following bulk solids:				

COAST PILOT 4 (Continued)

(i) Ammonium nitrate listed as Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue; and

(ii) Ammonium nitrate based fertilizer listed as a Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue.

Certain dangerous cargo residue (CDC residue) includes any of the following:

(1) Ammonium nitrate in bulk or ammonium nitrate based fertilizer in bulk remaining after all saleable cargo is discharged, not exceeding 1,000 pounds in total and not individually accumulated in quantities exceeding two cubic feet.

(2) For bulk liquids and liquefied gases, the cargo that remains onboard in a cargo system after discharge that is not accessible through normal transfer procedures, with the exception of the following bulk liquefied gas cargoes carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7:

- (i) Ammonia, anhydrous;
- (ii) Chlorine;
- (iii) Ethane;
- (iv) Ethylene oxide;
- (v) Methane (LNG);
- (vi) Methyl bromide;
- (vii) Sulfur dioxide; and
- (viii) Vinyl chloride.

(FR 9/28/10)

45/10

(i) Ammonium nitrate listed as Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue; and

(ii) Ammonium nitrate based fertilizer listed as a Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue.

Certain dangerous cargo residue (CDC residue) includes any of the following:

(1) Ammonium nitrate in bulk or ammonium nitrate based fertilizer in bulk remaining after all saleable cargo is discharged, not exceeding 1,000 pounds in total and not individually accumulated in quantities exceeding two cubic feet.

(2) For bulk liquids and liquefied gases, the cargo that remains onboard in a cargo system after discharge that is not accessible through normal transfer procedures, with the exception of the following bulk liquefied gas cargoes carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7:

- (i) Ammonia, anhydrous;
- (ii) Chlorine;
- (iii) Ethane;
- (iv) Ethylene oxide;
- (v) Methane (LNG);
- (vi) Methyl bromide;
- (vii) Sulfur dioxide; and
- (viii) Vinyl chloride.

(FR 9/28/10)

45/10

**COAST PILOT 5 38 Ed 2010 Change No. 9
LAST NM 42/10**

Page 117—Paragraphs 1645 to 1656; read:

(7) All bulk liquefied gas cargo carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7 that is flammable and/or toxic and that is not carried as certain dangerous cargo residue (CDC residue).

(8) The following bulk liquids except when carried as CDC residue:

- (i) Acetone cyanohydrin;
- (ii) Allyl alcohol;
- (iii) Chlorosulfonic acid;
- (iv) Crotonaldehyde;
- (v) Ethylene chlorohydrin;
- (vi) Ethylene dibromide;
- (vii) Methacrylonitrile;
- (viii) Oleum (fuming sulfuric acid); and

(ix) Propylene oxide, alone or mixed with ethylene oxide.

(9) The following bulk solids:

Page 253—Paragraph 333, lines 8 to 15; read:

marked by a light, buoys, and daybeacons. In 2010, aids to navigation were relocated to mark the best water in the entrance channel to Light 7 due to shoaling to bare, thence the controlling depth was 7.4 feet (8 feet at midchannel) to the highway bridge, thence 5.6 feet (6.4 feet at midchannel) to the Intracoastal Waterway, thence 8 feet in the remainder of the channel, thence 7.4 to 8.0 feet in the turning basin except for ...

(DDs 17313-21)

45/10

Page 289—Paragraph 31, line 2 to Paragraph 32; read:

crosses St. Marks River about 0.5 mile below the small resort town of **Newport**.

(NOS 11406; NOS/10)

45/10

Page 307—Paragraph 286, lines 11 to 14; read:

River. In 2010, the controlling depth was 7.2 feet (10.0 feet at midchannel) to the Highway 90 Bridge; thence in 2009, 6.7 feet (9.2 feet at midchannel) to Gonzales Lake, thence 3.2 feet (3.9 feet at midchannel) to the Mansanto Dock.

(CL 664/10; DDs 17862-63; DD 16161)

45/10

COAST PILOT 5 (Continued)

Page 314—Paragraph 46, lines 6 to 9; read:
 at miles 1.6 and 2.5 respectively. In 2010, the controlling depth was 7.1 feet (9.5 feet at midchannel) to Daybeacon 30, thence 4.2 feet to the head of the project, thence a depth of 7.0 feet was available in ...
 (CL 980/10; DD 17919) 45/10

Page 328—Paragraph 225, lines 5 to 6; read:
 and a daybeacon. In 2010, the controlling depth in the channel was 7.3 feet.
 (CL 962/10; DD 18238) 45/10

Page 392—Paragraph 123, lines 5 to 6; read:
 buoys. In 2010, the controlling depth through the pass was 10 feet. The current ...
 (DD 18307) 45/10

Page 392—Paragraph 124, lines 6 to 7; read:
 maintained by the Corps of Engineers. In April-August 2010, the controlling depth was 5 feet. The channel is ...
 (DD 18307; DD 17517) 45/10

Page 437—Paragraph 249, lines 4 to 5; read:
 basin. In August 2010, the controlling depth was 34.4 feet (39.8 feet at midchannel) in the canal and 36.8 to 40.0 feet in ...
 (CL 1097/10) 45/10

Page 488—Paragraph 119, lines 7 to 8; read:
 clearance of 34 feet. Close N of the highway bridge is a pedestrian fixed bridge with a horizontal clearance of 32 feet and a vertical clearance of 12 feet. A marina, ...
 (CL 1133/10) 45/10

**COAST PILOT 7 42 Ed 2010 Change No. 27
LAST NM 42/10**

Page 141—Paragraphs 2213 to 2227; read:

- (7) All bulk liquefied gas cargo carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7 that is flammable and/or toxic and that is not carried as certain dangerous cargo residue (CDC residue).
- (8) The following bulk liquids except when carried as CDC residue:
 - (i) Acetone cyanohydrin;
 - (ii) Allyl alcohol;
 - (iii) Chlorosulfonic acid;
 - (iv) Crotonaldehyde;
 - (v) Ethylene chlorohydrin;
 - (vi) Ethylene dibromide;
 - (vii) Methacrylonitrile;
 - (viii) Oleum (fuming sulfuric acid); and

(ix) Propylene oxide, alone or mixed with ethylene oxide.

(9) The following bulk solids:

- (i) Ammonium nitrate listed as Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue; and
- (ii) Ammonium nitrate based fertilizer listed as a Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue.

Certain dangerous cargo residue (CDC residue) includes any of the following:

(1) Ammonium nitrate in bulk or ammonium nitrate based fertilizer in bulk remaining after all saleable cargo is discharged, not exceeding 1,000 pounds in total and not individually accumulated in quantities exceeding two cubic feet.

(2) For bulk liquids and liquefied gases, the cargo that remains onboard in a cargo system after discharge that is not accessible through normal transfer procedures, with the exception of the following bulk liquefied gas cargoes carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7:

- (i) Ammonia, anhydrous;
- (ii) Chlorine;
- (iii) Ethane;
- (iv) Ethylene oxide;
- (v) Methane (LNG);
- (vi) Methyl bromide;
- (vii) Sulfur dioxide; and
- (viii) Vinyl chloride.

(FR 9/28/10) 45/10

COAST PILOT 7 42 Ed 2010 Change No. 28

Page 454—Paragraph 131, line 4; read:
 1989-2009, the midchannel depth was 4 feet to the ferry ...
 (DD 15121) 45/10

Page 570—Paragraph 457; strike out.
 (CL 1129/10) 45/10

**COAST PILOT 8 32 Ed 2010 Change No. 4
LAST NM 37/10**

Page 61—Paragraphs 446 to 457; read:

(7) All bulk liquefied gas cargo carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7 that is flammable and/or toxic and that is not carried as certain dangerous cargo residue (CDC residue).

(8) The following bulk liquids except when carried as CDC residue:

- (i) Acetone cyanohydrin;
- (ii) Allyl alcohol;

COAST PILOT 8 (Continued)

- (iii) Chlorosulfonic acid;
- (iv) Crotonaldehyde;
- (v) Ethylene chlorohydrin;
- (vi) Ethylene dibromide;
- (vii) Methacrylonitrile;
- (viii) Oleum (fuming sulfuric acid); and
- (ix) Propylene oxide, alone or mixed with ethylene oxide.

(9) The following bulk solids:

- (i) Ammonium nitrate listed as Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue; and
- (ii) Ammonium nitrate based fertilizer listed as a Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue.

Certain dangerous cargo residue (CDC residue) includes any of the following:

(1) Ammonium nitrate in bulk or ammonium nitrate based fertilizer in bulk remaining after all saleable cargo is discharged, not exceeding 1,000 pounds in total and not individually accumulated in quantities exceeding two cubic feet.

(2) For bulk liquids and liquefied gases, the cargo that remains onboard in a cargo system after discharge that is not accessible through normal transfer procedures, with the exception of the following bulk liquefied gas cargoes carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7:

- (i) Ammonia, anhydrous;
- (ii) Chlorine;
- (iii) Ethane;
- (iv) Ethylene oxide;
- (v) Methane (LNG);
- (vi) Methyl bromide;
- (vii) Sulfur dioxide; and
- (viii) Vinyl chloride.

(FR 9/28/10) 45/10

**COAST PILOT 9 28 Ed 2010 Change No. 2
LAST NM 38/10**

Page 62—Paragraphs 444 to 455; read:

(7) All bulk liquefied gas cargo carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7 that is flammable and/or toxic and that is not carried as certain dangerous cargo residue (CDC residue).

(8) The following bulk liquids except when carried as CDC residue:

- (i) Acetone cyanohydrin;
- (ii) Allyl alcohol;
- (iii) Chlorosulfonic acid;
- (iv) Crotonaldehyde;

- (v) Ethylene chlorohydrin;
- (vi) Ethylene dibromide;
- (vii) Methacrylonitrile;
- (viii) Oleum (fuming sulfuric acid); and
- (ix) Propylene oxide, alone or mixed with ethylene oxide.

(9) The following bulk solids:

- (i) Ammonium nitrate listed as Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue; and

- (ii) Ammonium nitrate based fertilizer listed as a Division 5.1 (oxidizing) material in 49 CFR 172.101 except when carried as CDC residue.

Certain dangerous cargo residue (CDC residue) includes any of the following:

(1) Ammonium nitrate in bulk or ammonium nitrate based fertilizer in bulk remaining after all saleable cargo is discharged, not exceeding 1,000 pounds in total and not individually accumulated in quantities exceeding two cubic feet.

(2) For bulk liquids and liquefied gases, the cargo that remains onboard in a cargo system after discharge that is not accessible through normal transfer procedures, with the exception of the following bulk liquefied gas cargoes carried under 46 CFR 151.50-31 or listed in 46 CFR 154.7:

- (i) Ammonia, anhydrous;
- (ii) Chlorine;
- (iii) Ethane;
- (iv) Ethylene oxide;
- (v) Methane (LNG);
- (vi) Methyl bromide;
- (vii) Sulfur dioxide; and
- (viii) Vinyl chloride.

(FR 9/28/10) 45/10

Page 141—Paragraph 139, line 7; read:
miles SW from the rock. A buoy, 3.2 miles SSW ...

(LL/10) 45/10

Page 154—Paragraph 342, lines 6 to 8; read:
channels 16 and 68. In 2010, the controlling depth in the entrance and access channel was 12 feet. The controlling depth in the berthing area was 7 feet. Water, ...

(DD 18397) 45/10

COAST PILOT 9 28 Ed 2010 Change No. 3

Page 478—Paragraph 592, lines 4 to 5; read:
Westgold Dock (north) are on the causeway with 21 feet (6.4 m) alongside. The City Dock, 200 feet (61 m) in ...
(BP 193902) 45/10

COAST PILOT 9 (Continued)

Page 478—Paragraph 593, lines 2 to 8; read:

entrance to the inner harbor. In 2010, 20 feet (6.1 m) was available in the outer harbor entrance, thence 11.6 feet (3.5 m) in the inner harbor entrance, thence 10 feet (3.0 m) in the inner harbor and 9 feet (2.7 m) in the E side of the inner harbor. A barge ramp is in the inner ...

(BPs 193902-05)

45/10

DIGITAL PUBS - QUARTERLY CORRECTIONS

DIGITAL PUBS - QUARTERLY Ed 2010

(3RD QUARTER)

NEW EDITION

(NGA)

N45/10

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME I ATLANTIC COAST, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*616	<i>URI Temporary Research Lighted Buoy MV</i>	41 17 24 N 70 53 28 W	Fl Y 6s				Private aid. 45/10
*629	<i>URI Temporary Research Lighted Buoy NWCOX</i>	41 12 40 N 71 13 48 W	Fl Y 6s				Private aid. 45/10
7865	- <i>Lighted Buoy 8</i>	43 40 32 N 70 14 54 W	Fl R 2.5s	3	Red.		 * 45/10
17160	Gibbs Rock Daybeacon	41 42 03 N 70 44 55 W				Red and black keg on spindle.	Maintained from May 1 to Nov. 1. Private aid. * 45/10
*17846	RI STATE PIER NINE LIGHT 1	41 29 17 N 71 19 21 W	F G				Private aid. 45/10
*17847	RI STATE PIER NINE LIGHT 2	41 29 17 N 71 19 34 W	F R				Private aid. 45/10
*17915.1	Coasters Harbor Navy Channel Buoy 1	41 30 08 N 71 19 34 W					Private aid. 45/10
*17915.2	Coasters Harbor Navy Channel Buoy 2	41 30 17 N 71 19 29 W					Private aid. 45/10
*17915.3	Coasters Harbor Navy Channel Buoy 4	41 30 22 N 71 19 29 W					Private aid. 45/10
18776.1	Barrington River Hazard Buoy A						Remove from list. * 45/10
19115.3	Dutch Harbor Speed Buoy						Remove from list. * 45/10
21370	<i>Western Long Island Sound Dumping Ground Lighted Buoy WDA</i>	41 00 00 N 73 28 15 W	Fl Y 4s	6	6	Yellow.	Maintained from Oct. 1 to June 1. U.S. Army maintained. *
31415	- Buoy 8	40 40 00 N 73 18 01 W				Red nun.	 * 45/10

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 I ATLANTIC COAST, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
31595	- Buoy A2	40 36 08 N 73 41 11 W	*	*	*		Private aid. 45/10
31615	- Buoy A7	40 36 15 N 73 41 28 W	*	*	*		Private aid. 45/10
31840	- Buoy B34						Remove from list. * 45/10
31885	- Buoy B47	40 37 32 N 73 40 51 W	*	*			Private aid. 45/10
33225	- Buoy G15						Remove from list. * 45/10
33234	- Daybeacon G17						Remove from list. * 45/10
33235	- Buoy G17A						Remove from list. * 45/10
*33237	- Buoy G17	40 38 16 N 73 32 47 W					Private aid. 45/10
33240	- Daybeacon G18	40 38 17 N 73 32 40 W	*	*	*		Private aid. 45/10
33250	- Buoy G20	40 38 19 N 73 32 37 W	*	*	*		Private aid. 45/10
33290	- Buoy G31						Remove from list. * 45/10
33300	Whale Neck Point Daybeacon G39						Remove from list. * 45/10
33310	Whale Neck Point Buoy G41						Remove from list. * 45/10
33635	- Buoy Z2	40 37 35 N 73 29 39 W			Red.		Private aid. 45/10

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SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME I ATLANTIC COAST, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
37105	<i>Bayonne Terminal Channel Lighted Bell Buoy 4</i>						<i>Remove from list.</i>
							*
							45/10
*38534	<i>Upper Hudson River Research Lighted Buoy B</i>	40 58 54 N 73 53 17 W	Fl Y 6s			Yellow.	Seasonal. Private aid.
							45/10
38543	<i>Upper Hudson River Research Lighted Buoy A</i>	41 52 38 N 73 56 17 W	Fl Y 4s			Yellow.	Seasonal. Private aid.
							*
							45/10

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II ATLANTIC COAST, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
2955	<i>Deepwater Point Range Lighted Buoy 6D</i>	39 39 24 N 75 32 27 W	Fl R 4s		4	Red.	Replaced by LIB when endangered by ice.
							*
							45/10
5042	<i>Sinepuxent Bay Channel Lighted Buoy 11</i>	38 17 49 N 75 07 18 W	Fl G 4s		3	Green	Replaced by can from Dec. 1 to Mar. 15.
							*
							45/10
5772	- Buoy 55	37 47 01 N 75 32 00 W				Green can.	
			*				
							45/10
14785	- Daybeacon 4A	37 29 21 N 76 18 27 W				TR on pile.	
			*				
							45/10
24450	- LIGHT 1 On point of shoal.	38 13 56 N 76 06 38 W	Fl G 4s		16	4 SG on multi-pile structure.	
			*				
							45/10
24515	MIDDLE ISLAND BRIDGE WEST CHANNEL LIGHT 1	38 17 43 N 76 12 46 W	Fl G 4s		15	4 SG on pile.	
			*				
							45/10
28655	- Lighted Buoy 5	35 10 56 N 75 45 54 W	Fl G 4s		3	Green.	
			*				
							45/10

CORRECTIONS TO C. G. LIGHT LIST, VOLUME III ATLANTIC AND GULF COASTS, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
29310	- Daybeacon 36	28 58 42 N 82 47 06 W				TR on pile.	
			*				
							45/10

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME III ATLANTIC AND GULF COASTS, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
29325	- Daybeacon 39	28 59 06 N 82 46 07 W				SG on dolphin.	
		*					45/10
29350	- Daybeacon 44	28 59 24 N 82 45 08 W				TR on pile.	
		*					45/10

CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV GULF OF MEXICO, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
651.9	Petrobras BW Pioneer Lighted Buoy	26 41 46 N 90 30 30 W	Fl Y 2.5s			Yellow.	Marks subsurface turret buoy. Buoy not present when FPSO is on site. Private aid.
		*					45/10
*7422	BAYOU CASOTTE LIGHT 9	30 19 21 N 88 30 49 W	Fl G 2.5s	17	4	SG on pile.	Ra ref.
							45/10
10985	- LIGHT 96	29 50 32 N 89 37 23 W	Q R	17	3	TR on pile.	Ra ref.
				*			45/10
10990	- LIGHT 97	29 50 47 N 89 38 45 W	Fl G 2.5s	17	3	SG on pile.	Ra ref.
				*			45/10
11000	- LIGHT 101	29 51 24 N 89 40 50 W	Fl G 2.5s	17	3	SG on pile.	
				*			45/10
13655 33210	Gretna Harbor Traffic Control Light 97 RDB mile 96.6.	29 55 33 N 90 03 30 W	Fl R 5s (Night) Fl G 5s (Night)	16 16	On skeleton tower. 25		Operated by Vessel Traffic Safety Office New Orleans during periods of high water. Controls one-way traffic around Algiers Point.
		*					45/10
14065	LUCY LIGHT 135 RDB mile 134.9.	30 02 55 N 90 30 20 W	Iso G 6s	5	SG on skeleton tower.		
				*			45/10
*Add Heading: *Placid Canal							
*17106	- FLOODGATE LIGHT 1	29 20 29 N 90 37 55 W	Fl G 2.5s			SG on pile cluster.	Private aid.
							45/10

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV GULF OF MEXICO, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*Add Heading: *Bush Canal							
*17108	- FLOODGATE LIGHT 1	29 22 06 N 90 36 07 W	Fl G 2.5s			SG on pile.	Private aid. 45/10
*17108.01	- FLOODGATE LIGHT 2	29 22 06 N 90 36 06 W	Fl R 2.5s			TR on pile.	Private aid. 45/10
*17108.02	- FLOODGATE LIGHT 3	29 22 08 N 90 36 09 W	Fl G 2.5s			SG on pile.	Private aid. 45/10
*17108.03	- FLOODGATE LIGHT 4	29 22 09 N 90 36 09 W	Fl R 2.5s			TR on pile.	Private aid. 45/10
*17108.04	- FLOODGATE SIDEWALL STRUCTURE LIGHTS (2)	29 22 07 N 90 36 08 W	Fl W 2.5s			On barge structure.	Marks each sidewall of floodgate. Private aid. 45/10
*17108.05	- FLOODGATE CENTER GATE LIGHT	29 22 07 N 90 36 08 W	F R			On barge structure.	Shows only when center floodgate is closed. Private aid. 45/10
*17108.06	- FLOODGATE SIDEWALL CAISSON LIGHTS (2)	29 22 07 N 90 36 08 W	F R			On caisson structure.	Marks each sidewall of caisson. Private aid. 45/10
*17108.07	- FLOODGATE SOUTHEAST PILING LIGHT	29 22 05 N 90 36 08 W	Fl W 2.5s			On pile cluster.	Private aid. 45/10
*17108.08	- FLOODGATE NORTHEAST PILING LIGHT	29 22 07 N 90 36 06 W	Fl W 2.5s			On pile cluster.	Private aid. 45/10
40505	- Daybeacon 6						Remove from list. * 45/10
40541	- Buoy 16						Remove from list. * 45/10

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI PACIFIC COAST AND PACIFIC ISLANDS, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
385	Point Reyes Light	37 59 44 N 123 01 23 W	Fl W 5s	265	20	On cylindrical structure on top of square building. 37	Emergency light of reduced intensity when main light is extinguished. HORN: 1 blast ev 30s (3s bl). Operates continuously. *
							45/10
1705	NORTH ISLAND LIGHT N	32 42 51 N 117 12 33 W	Q W	20	3	NR on post on concrete platform.	*
							45/10
4480	Anchorage 6 Lighted Mooring Buoy "A"	37 49 43 N 122 21 11 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4480.1	Anchorage 6 Lighted Mooring Buoy "B"	37 49 55 N 122 21 16 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4480.2	Anchorage 6 Lighted Mooring Buoy "C"	37 50 11 N 122 21 19 W	Fl W 4s			White with blue band.	Private aid.
				*	*	*	45/10
4480.3	Anchorage 6 Lighted Mooring Buoy "D"	37 50 22 N 122 21 38 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4480.4	Anchorage 6 Lighted Mooring Buoy "E"	37 50 32 N 122 21 48 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4480.5	Anchorage 6 Lighted Mooring Buoy "F"	37 49 44 N 122 21 22 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4480.6	Anchorage 6 Lighted Mooring Buoy "G"	37 49 52 N 122 21 28 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4480.7	Anchorage 6 Lighted Mooring Buoy "H"	37 50 01 N 122 21 32 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4480.8	Anchorage 6 Lighted Mooring Buoy "I"	37 50 07 N 122 21 42 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4480.9	Anchorage 6 Lighted Mooring Buoy "J"	37 49 37 N 122 20 52 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10
4481	Anchorage 6 Lighted Mooring Buoy "K"	37 49 43 N 122 20 57 W	Fl W 4s			White with blue band.	Private aid.
				*		*	45/10

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Denotes a new entry when preceding the station number.

SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI PACIFIC COAST AND PACIFIC ISLANDS, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
4481.1	Anchorage 6 Lighted Mooring Buoy "L"	37 49 52 N 122 21 02 W	Fl W 4s			White with blue band.	Private aid.
			*			*	*
							45/10
4481.2	Anchorage 6 Lighted Mooring Buoy "M"	37 50 01 N 122 21 08 W	Fl W 4s			White with blue band.	Private aid.
			*			*	
							45/10
4481.3	Anchorage 6 Lighted Mooring Buoy "N"	37 50 09 N 122 21 14 W	Fl W 4s			White with blue band.	Private aid.
			*			*	
							45/10
4481.4	Anchorage 6 Lighted Mooring Buoy "O"	37 50 27 N 122 21 24 W	Fl W 4s			White with blue band.	Private aid.
			*				
							45/10
4481.5	Anchorage 6 Lighted Mooring Buoy "P"	37 50 33 N 122 21 35 W	Fl W 4s			White with blue band.	Private aid.
			*				
							45/10
23575	GRAVE ISLAND LIGHT	57 15 59 N 134 05 00 W	Fl W 4s	18	6	NR on spindle.	Obscured from 031° to 167°.
			*				
							45/10
23660	MARMION ISLAND LIGHT	58 11 55 N 134 15 24 W	Fl W 6s	50	6	NR on skeleton tower.	Obscured from 014° to 147°.
							*
							45/10
*25057	STARRIGAVAN BAY LIGHT	57 07 47 N 135 22 30 W	Fl W 2.5s	10		On breakwater.	Private aid.
							45/10
*26450	PORT MACKENZIE NORTH DOLPHIN LIGHT	61 16 01 N 149 54 53 W	Q Y	49		On dolphin.	Private aid.
							45/10
*26455	PORT MACKENZIE NORTH DOLPHIN LIGHT	61 16 13 N 149 54 53 W	Q Y	49		On dolphin.	Private aid.
							45/10

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VII GREAT LAKES AND THE ST. LAWRENCE RIVER ABOVE THE ST. REGIS RIVER, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
4685	SANDUSKY DOCK CHANNEL LIGHT	41 27 25 N 82 43 16 W	Fl G 4s	19 6	5	SG on pile.	
				*			45/10
5085	SQUAW ISLAND LIGHT 12	41 27 10 N 82 59 41 W	Q W	25 8	3	NW with daymarks worded "DANGER SHOALING"	
				*			45/10

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 VII GREAT LAKES AND THE ST. LAWRENCE RIVER ABOVE THE ST. REGIS RIVER, 2010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
5090	- Daybeacon 13	41 26 58 N 83 00 00 W				NW on pile worded "DANGER ROCKS".	*
							45/10
5096	- Daybeacon 15	41 26 57 N 83 00 04 W				NW on pile worded "DANGER ROCKS".	*
							45/10
5100	- Daybeacon 17	41 26 51 N 83 00 07 W				NW on pile worded "DANGER ROCKS".	*
							45/10
12840	DETOUR HARBOR ENTRANCE LIGHT 2	45 59 44 N 83 53 57 W	FIR 4s	28 9	4	TR on pile.	*
							45/10
12875	- Light	46 00 59 N 83 53 58 W	Fl W 5s	52 16	11	KRW on yellow octagonal tower with black skeleton superstructure.	*
							45/10
21765	Jackson Harbor Buoy 1	45 24 11 N 86 50 59 W				Green can.	Maintained from May 14 to Oct. 14.
				*			*
21766	Jackson Harbor Buoy 2	45 24 12 N 86 51 00 W				Red nun.	Maintained from May 14 to Oct. 14.
			*				*
							45/10

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 110, LIST OF LIGHTS, 2010 EDITION							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*16267.5 Poinsettia. J 5844.5		11° 13.5' N 61° 31.2' W	Mo(U).W. period 15s	66 20	10	Platform.	Horn: Mo.(U) 30s.
RACON							
							45/10
CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2010 EDITION							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
348 -Isla Santa Cruz, Bahia G 3106 Academy, Islote Caamano.		0° 45.4' S 90° 16.7' W	Fl.W. period 10s fl. 1s, ec. 9s	39 12	10	White round metal structure; 23.	
				*	*	*	45/10
352 -Punta Estrada. G 3106.5		0° 45.7' S 90° 18.3' W	Fl.W. period 3s fl. 1s, ec. 2s	46 14	8	Red fiberglass structure, yellow band; 49.	
				*	*	*	45/10
CORRECTIONS TO PUB 112, LIST OF LIGHTS, 2009 EDITION							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*14467 Tuntung Point. F 2554.5		13° 09.2' N 121° 26.4' E	Fl.(2)W. period 5s	10 3		Metal pipe on white platform; 10.	
							45/10
14828 -Bantolinao Point, reef, edge. F 2400		10° 20.1' N 123° 59.2' E	Fl.G. period 5s	30 9	11	White concrete tower; 30.	Visible 060°-294°.
				*			45/10
*17218.2 Chuk-to. M 4305.43		34° 45.0' N 127° 26.9' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
							45/10
*17230.2 Gamdeungseo. M 4298.55		34° 30.3' N 127° 14.3' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 33.	
							45/10
17382 -Outer port, E. breakwater, M 4267.5 head.		33° 31.8' N 126° 32.5' E	Fl.G. period 5s	46 14	9	White round concrete tower; 59.	
		*		*		*	
							45/10
17612 Changdo. M 4237		34° 37.4' N 126° 13.3' E	Fl.W. period 6s	102 31	8	White round concrete tower; 30.	
RACON			M(— —)		10		
	*	*	*		*	*	
							45/10
17621 Pulmugi-do. M 4216.9		34° 45.6' N 126° 13.4' E	Fl.W. period 5s	105 32	15	White square concrete tower; 36.	
RACON			Z(— — • •)		10		
	*		*		*	*	
							45/10

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

CORRECTIONS TO PUB 112, LIST OF LIGHTS, 2009 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
27636 <i>F 0689</i>	Bepore.	11° 09.5' N 75° 48.3' E	Fl.(2)W. period 15s	105 32	24	White octagonal concrete tower, red bands; 98.	Storm signal.
RACON			G(- - •)	*	*	*	*
							45/10

CORRECTIONS TO PUB 113, LIST OF LIGHTS, 2010 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*14251 <i>E 3688.5</i>	Katici.	42° 11.7' N 18° 56.2' E	Fl.R. period 4s	82 25	6	White round tower; 16.	
							45/10

CORRECTIONS TO PUB 114, LIST OF LIGHTS, 2010 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
9212 <i>B 0206.21</i>	--Quarleshaven, 059°.	51° 28.4' N 3° 43.4' E	Dir.W.R.G.	3	Grey mast; 82.	F.G. 057°30'-058°24', Al.W.G.-059°06', F.W.- 059°30', Al.W.R.-060°12', F.R.-061°.	
				*	*	*	45/10
9368 <i>B 0306</i>	-Range, front.					Remove from list.	
							45/10
9372 <i>B 0306.1</i>	--Rear, 572 meters 167°30' from front.					Remove from list.	
							45/10
10508 <i>B 1402</i>	-Belumer Dyke Range, front, inner head.					Remove from list.	
							45/10
10512 <i>B 1402.1</i>	--Rear, 141 meters 132°18' from front.					Remove from list.	
							45/10

CORRECTIONS TO PUB 116, LIST OF LIGHTS, 2010 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*6709 <i>B 0689</i>	-Mechelinki.	54° 37.1' N 18° 32.8' E	Fl.W. period 2s		Dolphin.		
							45/10

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

**PUBLICATIONS AFFECTED BY NOTICE TO MARINERS
THROUGH NM 45/10**

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.	
COMDTM165024	2010	21*,22,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45/10	SIGHT REDUCTION TABLES (AIR)	SRPUB249V1	2007	38/07*
COMDTM165025	2010	17/10*	SRPUB249V2	1952	46/52*	
COMDTM165026	2010	12*,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45/10	SRPUB249V3	1952	46/52*	
COMDTM165027	2010	21*,22,24,26,27,28,29,30,31,32,33,34,35,37,38,40,41,42,43,44,45/10	CHART NO. 1	WOBZC1	1997	18/98*
DIGITAL PUBS - QUARTERLY			CHART NO. 4	WOBZC4	1988	N23/91*
CDPUBQTLY	2010	N45/10*	ATLAS OF PILOT CHARTS	NVPUB106	2002	42/03*
FLEET GUIDES			NVPUB107	1998	30/99*	
PUBFGATL	2010	N35/10*	NVPUB109	2001	49/02*	
PUBFGPAC	2010	N35/10*	USCG NAVIGATION RULES	COMDTM166722D	1999	44/99*,52/00;16/04
NOS MISCELLANEOUS PUBLICATIONS			NOS TIDE TABLES	NOSPBTTCWPACINO	2010	N51/09*
NOSPBCATALOGA	2009	27/09*	NOSPBTTECSTNSA0	2010	N51/09*	
NOSPBCATALOGG	2009	9/09*	NOSPBTTEURAFR0	2010	N51/09*	
NOSPBCATALOGK	2009	31/09*	NOSPBTTWCSTNSA0	2010	N51/09*	
NOSPBCATALOGL	2009	19/09*	TIDAL CURRENT TABLES	NOSPBTCTATCSTN0	2010	N51/09*
NOSPBCATALOGP	2009	17/09*	NOSPBTCTPACAS0	2010	N51/09*	
ALMANACS						
AIRALMANAC111	2011	30/10*				
NAUTALMANAC11	2011	26/10*				
COAST PILOT						
NOSPBCP1	40	19*,21,24,31,34,35,37,38,40,45/10				
NOSPBCP2	39	48*,49/09;15,7,10,12,16,18,21,22,37,38,40/10				
NOSPBCP3	43	8*,9,12,14,18,23,34,37,38,39,45/10				
NOSPBCP4	42	40*,42,45/10				
NOSPBCP5	38	25*,26,31,34,36,37,39,42,45/10				
NOSPBCP6	40	15*,17,22,23,24,25,27,31,35,37,38/10				
NOSPBCP7	42	3*,5,9,13,15,16,17,21,22,23,24,26,27,31,34,35,36,37,38,39,41,42,45/10				
NOSPBCP8	32	31*,32,34,37,45/10				
NOSPBCP9	28	37*,38,45/10				
RADIO NAVIGATIONAL AIDS						
PUB117	2005	4/05*				
AMERICAN PRACTICAL NAVIGATOR						
NVPUB9	2002	36/02*,14,38/03;40/05				
INTERNATIONAL CODE OF SIGNALS						
PUB102	2003	20/03*				
WORLD PORT INDEX						
PUB150	2010	36/10*				
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*				

SECTION III

NM 45/10

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 281230Z October 2010:

2009 series	345(24)	395(11)	431(24)	441(28)
70(24)	354(11)	421(15,38)	437(28)	442(11,26)
2010 series	373(11)	427(38)	439(GEN)	

The summary of all NAVAREA IV messages in force as of 17 December 2009 is given in Section III of NM 52/09. Warnings issued during the subsequent quarters are issued in NM 13/10, 26/10 and 39/10.

NAVAREA IV WARNINGS issued from 211100Z to 281230Z October 2010.

439/10(GEN).

1. NAVAREA IV MESSAGES IN FORCE 230900Z OCT 10. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2010 SERIES: 395(11), 421(15,38), 427(38), 431(24), 437(28), 438(51).
2. THE SUMMARY OF ALL NAVAREA IV MESSAGES IN FORCE AS OF 17 DEC 09 IS GIVEN IN SEC III OF NM 52/09. WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/10, 26/10 AND 39/10.
3. CANCEL NAVAREA IV 417/10, 436/10.

(230917Z OCT 2010)

440/10. CANCELED.

441/10(28).

GULF OF MEXICO.
BAY OF CAMPECHE.

1. SEISMIC SURVEY IN PROGRESS UNTIL 28 FEB 11
BY M/V CGG ALIZE TOWING 12 8200 METER
LONG CABLES IN AREA BETWEEN
20-15N 19-35N AND 095-00W 094-00W.
WIDE BERTH REQUESTED.
2. CANCEL THIS MSG 01 MAR 11.

(250447Z OCT 2010)

442/10(11,26).

WESTERN NORTH ATLANTIC.
SPACE SHUTTLE.

1. HAZARDOUS OPERATIONS 012025Z TO 012159Z NOV,
ALTERNATE 022002Z TO 022133Z NOV
IN AREAS BOUND BY:
A. 28-37N 080-43W, 29-10N 080-05W,
29-02N 079-57W, 28-28N 080-35W.
B. 30-02N 079-51W, 30-53N 079-01W,
30-10N 078-11W, 29-26N 079-08W.
2. CANCEL THIS MSG 022233Z NOV.

(271156Z OCT 2010)

443/10 and 444/10. CANCELED.

SECTION III

HYDROLANTS

Messages in force 281230Z October 2010:

2008 series	392(37)	1724(35)	1879(51)	1952(26)	2003(51)
1354(24)	452(37)	1741(35)	1882(51)	1953(11,12)	2006(51,57)
1463(24)	471(35)	1745(51,52)	1894(37)	1962(24)	2007(24)
1852(37)	590(37)	1749(54)	1903(51)	1963(24)	2008(GEN)
1917(24)	642(35)	1796(57)	1904(15,38)	1964(24,51)	2009(25)
2009 series	845(24)	1797(24)	1907(37)	1965(52,53,56)	2011(24)
413(24)	914(37)	1798(24)	1908(24)	1968(35)	2013(57)
1321(51)	996(24)	1800(19)	1911(53)	1969(24)	2020(56)
2024(36)	1079(24)	1832(53,54)	1921(35,36)	1977(37)	2021(24)
2026(24)	1232(24)	1835(37)	1925(25)	1984(54,56)	2023(24)
2529(52)	1393(56)	1836(35)	1928(36)	1985(23)	2026(11)
2530(54)	1426(52)	1839(54)	1929(53)	1987(55)	2027(37,44)
2531(54)	1429(56)	1842(36)	1931(14,51)	1993(57)	2032(51)
2532(54)	1456(51)	1846(56)	1933(12)	1996(24)	2039(54)
2010 series	1473(37,43)	1851(24)	1936(57)	1997(24)	2041(36)
58(56)	1636(24)	1865(51)	1938(56)	1998(24)	2044(35)
103(24)	1642(37)	1876(57)	1941(51)	2000(36,38)	2047(37)
180(52)	1696(57)	1878(24)	1947(37)	2001(37)	2048(36,37)

The summary of all HYDROLANTS in force as of 17 December 2009 is given in Section III of NM 52/09.
Warnings issued during the subsequent quarters are issued in NM 13/10, 26/10 and 39/10.

HYDROLANT WARNINGS issued from 211100Z to 281230Z October 2010.

1993/10(57).

SOUTH ATLANTIC.

M/V ST JAMES PARK REPORTS CREWMAN WITH KIDNEY FAILURE
REQUIRING MEDICAL ASSISTANCE IN 33-35.1S 001-53.1W.

VESSELS IN VICINITY ABLE TO PROVIDE MEDICAL
ASSISTANCE REQUESTED TO ASSIST IF POSSIBLE.

REPORTS TO MRCC CAPE TOWN OR CAPE TOWN RADIO.

(211157Z OCT 2010)

1994/10 and 1995/10. CANCELED.

1996/10(24).

BRAZIL-SOUTHEAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 290159Z OCT
BY M/V WESTERN NEPTUNE TOWING 12 3.5 MILE
LONG CABLES AND M/V GEKO DIAMOND TOWING
250 METER LONG CABLE IN AREA BOUND BY
22-07.22S 040-01.61W, 22-18.54S 040-21.97W,
22-46.87S 039-55.99W, 22-32.22S 039-36.92W.
SIX MILE BERTH REQUESTED.
2. CANCEL THIS MSG 290259Z OCT.

(220116Z OCT 2010)

1997/10(24).

BRAZIL-SOUTHEAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 290159Z OCT
BY M/V OCEAN EUROPE AND M/V SANCO STAR
IN AREA BOUND BY
22-10.97S 040-11.05W, 22-29.10S 040-23.50W,
22-20.98S 040-37.37W, 22-05.77S 040-37.30W,
22-05.93S 040-20.33W.
- SIX MILE BERTH REQUESTED.
2. CANCEL THIS MSG 290259Z OCT.

(220132Z OCT 2010)

1998/10(24).

BRAZIL-SOUTHEAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 290159Z OCT
BY M/V RAMFORM SOVEREIGN TOWING 14 8100
METER LONG CABLES IN AREA BOUND BY
23-26.22S 041-41.85W, 23-11.87S 041-32.57W,
23-11.10S 041-17.27W, 23-32.25S 040-39.73W,
23-53.07S 040-53.15W.
- SIX MILE BERTH REQUESTED.
2. CANCEL THIS MSG 290259Z OCT.

(220150Z OCT 2010)

1999/10. CANCELED.

SECTION III

2000/10(36,38).

EASTERN NORTH ATLANTIC.

1. CABLE OPERATIONS IN PROGRESS UNTIL FURTHER
NOTICE BY CABLESHIP RENE DESCARTES
ALONG TRACKLINE JOINING
46-58N 016-52W, 46-58N 017-16W,
46-55N 017-38W, 46-44N 018-22W,
46-28N 019-20W, 46-12N 020-14W,
45-55N 021-13W, 45-51N 021-27W,
45-44N 021-14W, 45-27N 023-27W.
ONE MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 1927/10.

(221317Z OCT 2010)

2001/10(37).

SOUTHERN NORTH SEA.

- UNDERWATER OPERATIONS IN PROGRESS UNTIL FURTHER
NOTICE BY CABLESHIP WAVE SENTINEL WITH
SUBMERSIBLE VICINITY 52-24.0N 002-46.2E.
WIDE BERTH REQUESTED.

(221334Z OCT 2010)

2002/10. CANCELED.

2003/10(51).

EASTERN NORTH ATLANTIC.

- SEISMIC SURVEY IN PROGRESS UNTIL FURTHER
NOTICE BY CABLESHIP METEOR
ALONG TRACKLINE JOINING
12-30N 019-00W, 12-30N 020-00W,
12-30N 021-00W, 12-00N 021-00W,
11-30N 021-00W, 11-00N 019-00W.
ONE MILE BERTH REQUESTED.

(221353Z OCT 2010)

2004/10 and 2005/10. CANCELED.

2006/10(51,57).

EASTER ATLANTIC.

GULF OF GUINEA.

HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 1645Z TO 0139Z
COMMENCING DAILY 28 OCT THRU 28 NOV
IN AREA BOUND BY
00-27N 000-26W, 01-20S 000-41W,
00-48N 015-31W, 02-36N 015-15W.
2. CANCEL THIS MSG 290239Z NOV.

(222115Z OCT 2010)

2007/10(24).

BRAZIL-NORTH COAST.

ROCKETS.

1. HAZARDOUS OPERATIONS 1640Z TO 0140Z COMMENCING

DAILY 28 OCT THRU 28 NOV IN AREAS BOUND BY:

- A. 06-12N 047-33W, 05-41N 047-29W,
05-34N 048-27W, 06-05N 048-31W.
- B. 06-04N 045-57W, 05-46N 045-55W,
05-38N 047-36W, 06-56N 047-38W.

2. CANCEL THIS MSG 290240Z NOV.

(222241Z OCT 2010)

2008/10(GEN).

1. HYDROLANT MESSAGES IN FORCE 230900Z OCT 10. ONLY THOSE

MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.

2010 SERIES: 1724(35), 1741(35), 1745(51,52), 1749(54),
1796(57), 1797(24), 1798(24), 1800(19), 1832(53,54), 1835(37),
1836(35), 1839(54), 1842(36), 1846(56), 1851(24), 1865(51),
1876(57), 1878(24), 1879(51), 1882(51), 1894(37), 1903(51),
1904(15,38), 1907(37), 1908(24), 1911(53), 1921(35,36),
1923(23), 1925(25), 1928(36), 1929(53), 1931(14,51), 1933(12),
1936(57), 1938(56), 1941(51), 1947(37), 1952(26), 1953(11,12),
1959(56), 1962(24), 1963(24), 1964(24,51), 1965(52,53,56),
1968(35), 1969(24), 1977(37), 1978(51), 1983(56), 1984(54,56),
1985(23), 1987(55), 1989(51), 1991(24), 1992(24), 1993(57),
1994(52), 1996(24), 1997(24), 1998(24), 2000(36,38), 2001(37),
2003(51), 2006(51,57), 2007(24).

2. THE SUMMARY OF ALL HYDROLANT MESSAGES IN FORCE AS OF 17 DEC 09
IS GIVEN IN SEC III OF NM 52/09. WARNINGS ISSUED DURING THE
SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/10, 26/10 AND 39/10.

3. CANCEL HYDROLANT 679/10, 1668/10, 1763/10, 1910/10,
1966/10, 1990/10.

(230921Z OCT 2010)

SECTION III

NM 45/10

2009/10(25).

WESTERN NORTH ATLANTIC.
ONE WHITE FLARE SIGHTED IN 27-47N 060-11W.
VESSELS IN VICINITY REQUESTED TO KEEP
A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO RCC NORFOLK,
PHONE: 757 398 6231, FAX: 757 398 6392,
E-MAIL: D05-SMB-D5CC@USCG.MIL.

(231336Z OCT 2010)

2010/10. CANCELED.

2011/10(24).

BRAZIL-NORTHEAST COAST.
GUNNERY.
1. GUNNERY EXERCISES 291100Z TO 291500Z OCT
WITHIN FIVE MILES OF 05-30S 034-53W.
2. CANCEL THIS MSG 291600Z OCT.

(240111Z OCT 2010)

2012/10. CANCELED.

2013/10(57).

EASTERN SOUTH ATLANTIC.
ANGOLA.
SURVEY OPERATIONS IN PROGRESS UNTIL FURTHER NOTICE
BY M/V APOLLO TOWING 3000 METER LONG CABLES
IN AREA BOUND BY
07-28.49S 011-36.38E, 07-33.68S 011-40.74E,
07-37.04S 011-51.04E, 07-45.29S 011-49.99E,
07-45.28S 011-40.82E, 07-39.35S 011-35.06E,
07-31.69S 011-30.71E.
WIDE BERTH REQUESTED.

(240706Z OCT 2010)

2014/10 thru 2019/10. CANCELED.

2020/10(56).

EASTERN MEDITERRANEAN SEA.
EGYPT.
1. SEISMIC SURVEY IN PROGRESS UNTIL 30 NOV
BY M/V CGG AMADIUS TOWING SIX 8100 METER
LONG CABLES IN AREA BOUND BY
31-52.7N 031-11.7E, 31-38.5N 031-18.9E,
31-38.5N 031-54.2E, 31-52.7N 031-54.2E.
SIX MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 1959/10.
3. CANCEL THIS MSG 01 DEC.

(251231Z OCT 2010)

2021/10(24).

BRAZIL-NORTHEAST COAST.
NGA CHART 24016 (53RD ED).
ATOL DAS ROCAS LIGHT 03-51.4S 033-49.2W UNLIT.

(251255Z OCT 2010)

2022/10. CANCELED.

2023/10(24).

BRAZIL-NORTH COAST.
GUNNERY.
1. GUNNERY EXERCISES 301600Z OCT TO 021500Z NOV
IN AREA BETWEEN
00-00N 00-30N AND 046-30W 047-30W.
2. CANCEL THIS MSG 021600Z NOV.

(252346Z OCT 2010)

2024/10 and 2025/10. CANCELED.

2026/10(11).

FLORIDA TO LOUISIANA.
60 FOOT F/V MISS SUE, WHITE HULL WITH BLUE TRIM AND RED BOW,
UNREPORTED KEY WEST (24-33.5N 081-47.0W) TO
GRAND ISLE (29-13.7N 090-00.7W), LAST KNOWN
POSITION 25-47.7N 083-01.9W ON 23 OCT. VESSELS IN VICINITY
REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO ANY COASTAL RADIO STATION.

(261145Z OCT 2010)

SECTION III

2027/10(37,44).

NORTH SEA.
BALTIK SEA.
NAVTEX.

1. NAVTEX STATION PINNEBERG OFF AIR UNTIL 082359Z NOV.
PINNEBERG BROADCASTS WILL BE TRANSMITTED FROM
NAVTEX STATION NETHERLANDS COAST GUARD.
2. CANEL THIS MSG 090159Z NOV.

(261150Z OCT 2010)

2028/10 thru 2031/10. CANCELED.

2032/10(51).

EASTERN NORTH ATLANTIC.
CAPE VERDE ISLANDS.
VESSEL, THREE PERSONS ON BOARD, DISABLED AND ADRIFT
IN 16-16N 026-09W. VESSELS IN VICINITY REQUESTED
TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO MRCC CABO VERDE.

(270328Z OCT 2010)

2033/10 thru 2038/10. CANCELED.

2039/10(54).

AEGEAN SEA.
CABLE OPERATIONS IN PROGRESS UNTIL FURTHER
NOTICE BY CABLESHIP RAYMOND CROZE
ALONG TRACKLINE JOINING
40-00.09N 025-58.23E, 39-53.53N 026-05.19E,
39-34.98N 026-04.15E, 39-26.59N 025-58.04E,
39-26.60N 026-30.07E, 39-32.77N 026-36.10E.
WIDE BERTH REQUESTED.

(271600Z OCT 2010)

2040/10. CANCELED.

2041/10(36).

EASTERN NORTH ATLANTIC.
1. 11 LIFERAFTS ADRIFT VICINITY 47-39N 010-58W
AT 271300Z OCT.
2. CANEL THIS MSG 301700Z OCT.

(271700Z OCT 2010)

2042/10 and 2043/10. CANCELED.

2044/10(35).

SCOTLAND.
ISLAY.
NGA CHART 35119 (2ND ED).
CHUIRN LIGHT 55-40.2N 006-01.1W UNLIT.

(272341Z OCT 2010)

2045/10 and 2046/10. CANCELED.

2047/10(37).

EASTERN NORTH ATLANTIC.
1. DERELICT VESSEL ADRIFT VICINITY
46-54N 007-34W AT 272300Z OCT.
2. CANEL THIS MSG 310120Z OCT.

(280125Z OCT 2010)

2048/10(36,37).

EASTERN NORTH ATLANTIC.
1. UNDERWATER OPERATIONS IN PROGRESS UNTIL 29 OCT
BY CABLESHIP ILE DE BATZ IN AREA BOUND BY
47-47.81N 008-00.33W, 47-46.64N 007-53.07W,
47-40.35N 008-03.26W, 47-42.26N 008-11.86W.
WIDE BERTH REQUESTED.
2. CANEL THIS MSG 30 OCT.

(280433Z OCT 2010)

SECTION III

NM 45/10

NAVAREA XII

Messages in force 281230Z October 2010:

2010 series	424(18)	431(GEN)	434(18)
	403(19)	430(19)	433(19)
			435(18,83)

The summary of all NAVAREA XII messages in force as of 17 December 2009 is given in Section III of NM 52/09. Warnings issued during the subsequent quarters are issued in NM 13/10, 26/10 and 39/10.

NAVAREA XII WARNINGS issued from 211100Z to 281230Z October 2010.

430/10(19).

NORTH PACIFIC.

HAWAII.

ORDNANCE.

1. UNDERWATER ORDNANCE DETONATIONS IN PROGRESS
UNTIL 281159Z OCT IN AREAS BOUND BY:

- A. 22-05N 162-00W, 22-05N 165-00W,
21-55N 170-01W, 21-20N 170-00W,
21-29N 164-59W, 21-29N 162-00W.
- B. 20-58N 162-00W, 20-56N 164-58W,
20-48N 170-00W, 20-14N 169-58W,
20-22N 164-57W, 20-25N 162-00W.

2. CANCEL THIS MSG 281259Z OCT.

(221414Z OCT 2010)

431/10(GEN).

1. NAVAREA XII MESSAGES IN FORCE 230900Z OCT 10. ONLY THOSE
MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2010 SERIES: 403(19), 424(18), 427(18), 430(19).

2. THE SUMMARY OF ALL NAVAREA XII MESSAGES IN FORCE AS OF
17 DEC 09 IS GIVEN IN SEC III OF NM 52/09. WARNINGS
ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED
IN NM 13/10, 26/10 AND 39/10.

3. CANCEL NAVAREA XII 426/10.

(230926Z OCT 2010)

432/10. CANCELED.

433/10(19).

NORTH PACIFIC.

HAWAII.

MISSILES.

1. HAZARDOUS OPERATIONS 290130Z TO 290700Z OCT,
ALTERNATE 300200Z TO 300730Z AND
310230Z TO 310800Z OCT

IN AREA BOUND BY

- 22-00N 159-46W, 22-07N 160-25W,
23-07N 161-49W, 24-25N 162-27W,
29-56N 170-20W, 32-47N 169-47W,
35-34N 164-15W, 36-03N 162-31W,
31-30N 161-28W, 27-00N 162-00W,
24-11N 160-10W, 22-39N 159-36W,
22-10N 159-44W.

2. CANCEL THIS MSG 310900Z OCT.

(240828Z OCT 2010)

434/10(18).

EASTERN NORTH PACIFIC.

CALIFORNIA.

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
IN AREA BOUND BY
34-02N 119-04W, 33-52N 119-06W, 33-29N 118-37W,
33-20N 118-37W, 32-11N 120-16W, 31-54N 121-35W,
35-09N 123-39W, 35-29N 123-00W, 35-57N 121-32W,
34-04N 119-04W.

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 MHZ (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

SECTION III

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 427/10.

(251001Z OCT 2010)

435/10(18,83).

EASTERN NORTH PACIFIC.
HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0149Z TO 0321Z DAILY
30 OCT THRU 02 NOV IN AREAS BOUND BY:
A. 34-29N 120-40W, 34-31N 120-46W,
34-46N 120-41W, 34-44N 120-34W.
B. 34-07N 120-58W, 34-26N 120-52W,
34-22N 120-36W, 34-03N 120-43W.
C. 13-16N 126-14W, 17-32N 125-20W,
17-24N 124-40W, 13-08N 125-34W.
2. CANCEL THIS MSG 020421Z NOV.

(261351Z OCT 2010)

436/10 and 437/10. CANCELED.

SECTION III HYDROPACS

Messages in force 281230Z October 2010:

2007 series	1671(63)	2037(96)	2161(63)	2207(96)	2248(74)
1284(71)	1672(63)	2041(62)	2165(21)	2208(62)	2249(97)
2008 series	1674(74)	2060(GEN)	2169(61)	2209(63)	2250(94)
44(GEN)	1695(71)	2071(61)	2170(61)	2211(94)	2252(94)
1345(92)	1714(63)	2078(82)	2174(95)	2213(74)	2253(94)
2009 series	1776(GEN)	2079(82,83)	2175(95)	2215(62)	2254(94)
1128(22)	1783(63)	2080(63)	2176(95)	2216(62)	2256(83)
2364(63)	1805(92,93)	2081(83)	2177(95)	2218(GEN)	2258(63)
2366(63)	1808(22)	2089(63)	2178(95)	2219(96)	2259(63)
2010 series	1922(71)	2090(63)	2179(71)	2220(61)	2260(82)
75(22)	1930(74)	2103(62)	2180(71)	2222(96)	2261(91)
306(22)	1950(19)	2107(61)	2182(21)	2223(63)	2262(96)
375(97)	1954(93)	2109(81,82)	2183(63)	2224(94)	2263(63)
578(71)	1957(63)	2110(63)	2188(61)	2225(61)	2264(63)
593(71)	1965(71)	2116(95)	2189(74)	2227(93)	2265(63)
816(61)	1967(93)	2132(63)	2190(61)	2232(94)	2266(63)
917(62)	1969(97)	2133(63)	2192(94)	2233(18,21)	2268(63)
1550(73)	1970(94)	2136(95)	2193(96)	2234(93)	2270(63)
1591(91)	1971(94)	2139(73)	2194(63)	2235(62,63)	2271(91,93)
1594(63)	1991(62)	2146(61)	2195(21,22)	2240(72)	2272(62)
1639(76)	1992(63)	2150(63)	2196(63)	2242(63)	
1661(62)	1993(62,63)	2151(63)	2197(63)	2243(93)	
1668(62)	2027(93)	2158(63)	2200(61)	2244(61)	
1670(63)	2028(76)	2159(61)	2204(94)	2245(74)	

The summary of all HYDROPACS in force as of 17 December 2009 is given in Section III of NM 52/09.
Warnings issued during the subsequent quarters are issued in NM 13/10, 26/10 and 39/10.

HYDROPAC WARNINGS issued from 211100Z to 281230Z October 2010.

2193/10(96).

SAKHALIN-EAST COAST.

1. SURVEY OPERATIONS IN PROGRESS UNTIL 30 NOV BY
M/V DIABAZ AND M/V ISKATEL IN AREAS BOUND BY:
 - A. 51-17.15N 144-52.04E, 51-19.57N 144-52.17E,
51-19.48N 144-56.36E, 51-17.07N 144-56.22E.
 - B. 51-17.47N 144-23.44E, 51-20.30N 144-23.56E,
51-20.21N 144-28.14E, 51-17.40N 144-28.01E.
 - C. 51-03.38N 144-16.00E, 51-06.19N 144-16.11E,
51-06.12N 144-20.28E, 51-03.30N 144-20.16E.
2. CANCEL THIS MSG 01 DEC.

(211046Z OCT 2010)

2194/10(63).

INDIA-SOUTHWEST COAST.

HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 260900Z TO 261200Z,
290900Z TO 291200Z AND 291230Z TO 291430Z OCT
IN AREA BOUND BY
09-57.5N 075-59.5E, 09-57.7N 076-14.2E,
09-44.0N 076-17.5E, 09-42.5N 076-09.5E.
2. CANCEL THIS MSG 291530Z OCT.

(211101Z OCT 2010)

2195/10(21,22).

EASTERN NORTH PACIFIC.

DISTRESS SIGNAL RECEIVED ON 406 MHZ
IN 04-18.7N 103-11.9W. VESSELS IN
VICINITY REQUESTED TO KEEP A SHARP
LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO U.S. COAST GUARD ALAMEDA,
TELEX: 230172343, PHONE: 510 437 3701,
E-MAIL: RCCALAMEDA@USCG.MIL.

(211506Z OCT 2010)

2196/10(63).

INDIA-EAST COAST.

BAY OF BENGAL.

HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0230Z TO 1130Z
DAILY 25 OCT THRU 04 NOV WITHIN
FIVE MILES OF 13-50N 081-40E.
2. CANCEL THIS MSG 041230Z NOV.

(211521Z OCT 2010)

2197/10(63).

INDIA-WEST COAST.

1. SEISMIC SURVEY 22 OCT THRU 10 DEC
BY M/V BOS ANGLER TOWING FOUR
6000 METER LONG CABLES
IN AREA BOUND BY
20-23N 070-50E, 20-23N 071-40E,
20-32N 071-50E, 20-45N 071-40E,
20-45N 071-20E.
FIVE MILE BERTH REQUESTED.
2. CANCEL THIS MSG 11 DEC.

(211537Z OCT 2010)

2198/10 and 2199/10. CANCELED.

2200/10(61).

WESTERN INDIAN OCEAN.

KENYA.

PIRACY.

M/V ATTACKED IN 04-20S 040-25E AT 211600Z OCT.
VESSELS ARE ADVISED TO KEEP 100 MILES CLEAR
OF THIS POSITION AND TO EXERCISE EXTREME CAUTION.
REPORTS TO UKMTO DUBAI, PHONE: 97 150 552 3215,
E-MAIL: UKMTO@EIM.AE.

(212059Z OCT 2010)

2201/10 thru 2203/10. CANCELED.

2204/10(94).

TAIWAN-SOUTHWEST COAST.

GUNNERY.

1. GUNNERY EXERCISES 0001Z TO 0330Z DAILY
23, 24, 30 AND 31 OCT, 0001Z TO 0300Z
AND 0600Z TO 0800Z DAILY 25 THRU 29 OCT:
A. IN AREA BOUND BY
22-34N 118-55E, 22-59N 119-39E,
22-16N 119-37E, 22-21N 118-55E.
B. WITHIN 29 MILES OF 22-34N 119-16E.
2. CANCEL THIS MSG 310430Z OCT.

(220850Z OCT 2010)

2205/10 and 2206/10. CANCELED.

2207/10(96).

SEA OF OKHOTSK.

1. SEISMIC SURVEY IN PROGRESS UNTIL 30 NOV BY
M/V PROFESSOR POLSHKOV TOWING 6000 METER
LONG CABLE IN AREA BOUND BY
54-47-54.79N 154-53-52.91E,
55-39-18.43N 154-38-14.69E,
55-47-02.46N 155-38-38.98E,
54-37-20.15N 155-41-08.95E,
54-36-13.44N 155-20-57.42E.
THREE MILE BERTH REQUESTED.
2. CANCEL HYDROFAC 1789/10.
3. CANCEL THIS MSG 01 DEC.

(221327Z OCT 2010)

2208/10(62).

GULF OF OMAN.

ORDNANCE.

1. BOMBING EXERCISES IN PROGRESS UNTIL
311959Z OCT IN AREA BOUND BY
23-04N 060-53E, 22-40N 061-52E,
21-46N 061-25E, 22-10N 060-27E.
2. CANCEL THIS MSG 312059Z OCT.

(221452Z OCT 2010)

2209/10(63).

ANDAMAN SEA.

GULF OF MARTABON.

1. GEOPHYSICAL OPERATIONS 25 OCT THRU 10 NOV
BY M/V GENESIS IN AREA BOUND BY
16-16.01N 096-19.79E, 16-15.62N 096-44.04E,
16-04.51N 096-43.86E, 16-04.89N 096-19.58E.
2.5 MILE BERTH REQUESTED.
2. CANCEL THIS 11 NOV.

(221553Z OCT 2010)

2210/10. CANCELED.

SECTION III

NM 45/10

2211/10(94).

TAIWAN STRAIT.

GUNNERY.

1. GUNNERY EXERCISES 260001Z TO 260400Z OCT,
ALTERNATE 0001Z TO 0400Z DAILY 27 THRU 29 OCT:
 - A. IN AREA BETWEEN
23-29.9N 23-39.9N AND 119-05.5E 119-15.5E.
 - B. WITHIN TEN MILES OF 23-34.9N 119-10.5E.
2. CANCEL THIS MSG 290500Z OCT.

(221613Z OCT 2010)

2212/10. CANCELED.

2213/10(74).

AUSTRALIA-NORTHWEST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE
BY M/V SOUTHERN SUPPORTER IN AREA BETWEEN
19-25.00S 21-26.13S AND 112-53.00E 115-32.00E.
2.5 MILE BERTH REQUESTED.
2. CANCEL HYDROFAC 971/10.

(222310Z OCT 2010)

2214/10. CANCELED.

2215/10(62).

GULF OF ADEN.

PIRACY.

M/V ATTACKED IN 13-08N 048-44E AT 222300Z OCT.
VESSELS ARE ADVISED TO KEEP 100 MILES CLEAR
OF THIS POSITION AND TO EXERCISE EXTREME CAUTION.
REPORTS TO IMB PIRACY REPORTING CENTER,
TELEX: 34199, PHONE: 603 2031 0014,
E-MAIL: piracy@icc-ccs.org.

(230119Z OCT 2010)

2216/10(62).

GULF OF ADEN.

PIRACY.

M/V ATTACKED IN 13-09N 049-15E AT 230335Z OCT.
VESSELS TRANSITING THE AREA ARE ADVISED TO
EXERCISE EXTREME CAUTION. REPORTS TO
UKMTO DUBAI, PHONE: 97 150 552 3215,
E-MAIL: UKMTO@EIM.AE.

(230548Z OCT 2010)

2217/10. CANCELED.

2218/10(GEN).

1. HYDROFAC MESSAGES IN FORCE 230900Z OCT 10. ONLY THOSE
MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.
2010 SERIES: 1921(72), 1922(71), 1930(74), 1950(19), 1954(93),
1957(63), 1965(71), 1967(93), 1969(97), 1970(94), 1971(94),
1991(62), 1992(63), 1993(62,63), 2027(93), 2028(76), 2037(96),
2041(62), 2060(GEN), 2071(61), 2078(82), 2079(82,83), 2080(63),
2081(83), 2089(63), 2090(63), 2096(93), 2103(62), 2107(61),
2109(81,82), 2110(63), 2132(63), 2133(63), 2136(95), 2139(73),
2142(71), 2143(93), 2146(61), 2150(63), 2151(63), 2152(74),
2158(63), 2159(61), 2161(63), 2165(21), 2167(74), 2168(63),
2169(61), 2170(61), 2174(95), 2175(95), 2176(95), 2177(95),
2178(95), 2179(71), 2180(71), 2182(21), 2183(63), 2188(61),
2189(74), 2190(61), 2192(94), 2193(96), 2194(63), 2195(21,22),
2196(63), 2197(63), 2200(61), 2201(61), 2202(95), 2203(94),
2204(94), 2205(94), 2206(94), 2207(96), 2208(62), 2209(63),
2211(94), 2213(74), 2215(62), 2216(62), 2217(71,74).
2. THE SUMMARY OF ALL HYDROFAC MESSAGES IN FORCE AS OF 17 DEC 09
IS GIVEN IN SEC III OF NM 52/09. WARNINGS ISSUED DURING THE
SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/10, 26/10 AND 39/10.
3. CANCEL HYDROFAC 1717/10, 1797/10, 1801/10, 1803/10, 1860/10,
2017/10, 2046/10, 2054/10, 2098/10, 2099/10, 2100/10, 2102/10,
2111/10, 2114/10, 2134/10, 2144/10, 2149/10.

(230935Z OCT 2010)

2219/10(96).

SEA OF OKHOTSK.

MISSILES.

1. HAZARDOUS OPERATIONS 0600Z TO 1100Z
DAILY 28 THRU 30 OCT AND
310700Z TO 311200Z OCT:
 - A. IN AREA BOUND BY
47-36N 151-21E, 47-54N 151-06E,
48-06N 151-40E, 47-52N 151-58E.

- B. WITHIN 27 MILES OF 52-49N 146-17E.
C. WITHIN 27.5 MILES OF 57-09N 140-33E.
2. CANCEL THIS MESSAGE 311300Z OCT.

(231440Z OCT 2010)

2220/10(61).
WESTERN INDIAN OCEAN.
KENYA.
PIRACY.

M/V ATTACKED IN 04-14S 041-19E AT 231235Z OCT.
VESSELS ARE ADVISED TO KEEP 100 MILES CLEAR
OF THIS POSITION AND TO EXERCISE EXTREME CAUTION.
REPORTS TO UKMTO DUBAI, PHONE: 97 150 552 3215,
E-MAIL: UKMTO@EIM.AE.

(231538Z OCT 2010)

2221/10. CANCELED.

2222/10(96).
SEA OF JAPAN.
MISSILES.

1. HAZARDOUS OPERATIONS 2200Z TO 0200Z COMMENCING
DAILY 28 AND 29 OCT, 0400Z TO 0700Z DAILY
29 AND 30 OCT, 312300Z OCT TO 010300Z NOV
AND 010500Z TO 010800Z NOV IN AREA BOUND BY
41-58.7N 134-15.0E, 42-12.0N 133-14.3E,
42-23.8N 132-26.6E, 42-37.7N 132-03.8E,
42-37.5N 132-04.8E, 42-42.5N 132-33.0E,
42-36.4N 133-22.2E, 42-27.7N 134-25.0E.
2. CANCEL HYDROPAC 2142/10(71).
3. CANCEL HYDROPAC 2167/10(74), AID RESTORED.
4. CANCEL THIS MSG 010900Z NOV.

(240645Z OCT 2010)

2223/10(63).
WESTERN INDIAN OCEAN.
PIRACY.

M/V PIRATED IN 03-29N 059-35E AT 240542Z OCT.
VESSELS ARE ADVISED TO KEEP 100 MILES
CLEAR OF THIS POSITION AND TO EXERCISE
EXTREME CAUTION. REPORTS TO UKMTO DUBAI,
PHONE: 97 150 552 3215, E-MAIL: UKMTO@EIM.AE.

(240725Z OCT 2010)

2224/10(94).
TAIWAN-SOUTHWEST COAST.
GUNNERY.

1. GUNNERY EXERCISES 290001Z TO 290900Z OCT:
 - A. IN AREA BETWEEN
22-34.9N 22-54.9N AND 119-25.5E 119-45.5E.
 - B. WITHIN EIGHT MILES OF 22-44.9N 119-35.5E.
2. CANCEL THIS MSG 291000Z OCT.

(241253Z OCT 2010)

2225/10(61).
SOMALIA-SOUTH COAST.
PIRACY.
VESSEL HIJACKED 00-54S 043-08E AT
231311Z OCT. VESSELS ARE ADVISED TO
KEEP 100 MILES CLEAR OF THIS POSITION
AND TO EXERCISE EXTREME CAUTION.

(250034Z OCT 2010)

2226/10. CANCELED.

2227/10(93).
GULF OF THAILAND.

1. SEISMIC SURVEY IN PROGRESS UNTIL 30 NOV
BY M/V RAMFORM STERLING IN AREA BOUND BY
07-19-02N 103-19-32E, 07-24-45N 103-30-38E,
07-18-00N 103-37-50E, 07-08-36N 103-19-34E.
2. CANCEL HYDROPAC 2226/10(16), FALSE ALERT.
3. CANCEL THIS MSG 01 DEC.

(250055Z OCT 2010)

2228/10 thru 2231/10. CANCELED.

SECTION III

NM 45/10

2232/10(94).

TAIWAN STRAIT.

GUNNERY.

1. GUNNERY EXERCISES 2300Z TO 0400Z
COMMENCING DAILY 24 THRU 28 OCT AND
0600Z TO 0900Z DAILY 25 THRU 29 OCT:
 - A. IN AREA BOUND BY
24-48N 119-50E, 24-48N 120-20E,
23-55N 119-27E, 24-10N 119-08E.
 - B. WITHIN 10 MILES OF 24-11N 119-30E.
2. CANCEL THIS MSG 291000Z OCT.

(250901Z OCT 2010)

2233/10(18,21).

EASTERN NORTH PACIFIC.

DISTRESS SIGNAL RECEIVED IN 25-23N 120-23W.
VESSELS IN VICINITY REQUESTED TO KEEP A
SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO U.S. COAST GUARD.

(250914Z OCT 2010)

2234/10(93).

SOUTH CHINA SEA.

MAN OVERBOARD VICINITY 18-38N 112-18E
ON 21 OCT. VESSELS IN VICINITY REQUESTED
TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO MRCC HONG KONG, TELEX: 80282952,
PHONE: 852 2233 7999, E-MAIL: HKMRCC@MARDEP.GOV.HK.

(251546Z OCT 2010)

2235/10(62,63).

WESTERN INDIAN OCEAN.

PIRACY.

POSSIBLE MOTHERSHIP ACTIVITY IN 16-46N 062-20E
AT 251544Z OCT. VESSELS ARE ADVISED TO KEEP
100 MILES CLEAR OF THIS POSITION AND TO EXERCISE
EXTREME CAUTION. REPORTS TO UKMTO DUBAI,
PHONE: 971 50 552 3215, E-MAIL: UKMTO@EIM.AE.

(251830Z OCT 2010)

2236/10 thru 2239/10. CANCELED.

2240/10(72).

MAKASSAR STRAIT.

1. SEISMIC SURVEY IN PROGRESS UNTIL 30 NOV
BY M/V AKADEMICK FERSMAN TOWING
9000 METER LONG CABLE
IN AREA BOUND BY
00-47N 117-56E, 00-25N 119-50E,
04-44S 118-01E, 01-42S 116-40E.
WIDE BERTH REQUESTED.
2. CANCEL HYDROGRAPHIC 1921/10.
3. CANCEL THIS MSG 01 DEC.

(261505Z OCT 2010)

2241/10. CANCELED.

2242/10(63).

INDIA-WEST COAST.

1. UNDERWATER OPERATIONS 27 OCT THRU 21 NOV
BY M/V VOLANS IN AREA BOUND BY
18-39.38N 072-35.83E, 18-35.50N 072-21.06E,
18-28.50N 072-24.50E, 18-27.20N 072-27.25E,
18-22.00N 072-32.50E, 18-22.00N 072-41.00E,
18-27.00N 072-41.00E, 18-39.38N 072-36.86E.
ONE MILE BERTH REQUESTED.
2. CANCEL THIS MSG 22 NOV.

(261541Z OCT 2010)

2243/10(93).

GULF OF THAILAND.

1. SEISMIC SURVEY IN PROGRESS UNTIL 18 NOV BY
M/V BEAUFORT EXPLORER TOWING 3500 METER
LONG CABLE IN AREA BETWEEN
07-53N 08-16N AND 101-45E 102-12E.
2. CANCEL HYDROGRAPHIC 2241/10.
3. CANCEL THIS MSG 19 NOV.

(261606Z OCT 2010)

SECTION III

2244/10(61).
 WESTERN INDIAN OCEAN.
 TANZANIA.

PIRACY.
 M/V ATTACKED IN 09-26S 041-22E AT 261515Z OCT.
 VESSELS ARE ADVISED TO KEEP 100 MILES CLEAR
 OF THIS POSITION AND TO EXERCISE EXTREME
 CAUTION. REPORTS TO IMB PIRACY REPORTING
 CENTER, TELEX: 34199, PHONE: 603 2031 0014,
 FAX: 603 2078 5769, E-MAIL: PIRACY@ICC-CCS.ORG.

(261840Z OCT 2010)

2245/10(74).
 AUSTRALIA-EAST COAST.
 NGA CHART 74200 (8TH ED).
 NORTH REEF LIGHT 23-11.2S 151-54.2E UNRELIABLE
 AND RACON INOPERATIVE.

(262149Z OCT 2010)

2246/10 and 2247/10. CANCELED.

2248/10(74).
 AUSTRALIA-NORTH COAST.
 SEISMIC SURVEY IN PROGRESS UNTIL FURTHER NOTICE
 BY M/V AQUILA EXPLORER IN AREA BETWEEN
 11-20S 12-00S AND 127-30E 128-00E.
 SEVEN MILE BERTH REQUESTED.

(270347Z OCT 2010)

2249/10(97).
 WESTERN NORTH PACIFIC.
 GUNNERY.

1. GUNNERY EXERCISES 2300Z TO 0900Z COMMENCING
 DAILY 31 OCT THRU 29 NOV IN AREA BOUND BY
 27-55-15N 144-57-48E, 28-15-15N 146-29-47E,
 25-25-16N 147-37-47E, 25-00-16N 145-35-48E.
 2. CANCEL THIS MSG 301000Z NOV.

(271103Z OCT 2010)

2250/10(94).
 TAIWAN-SOUTHWEST COAST.
 GUNNERY.

1. GUNNERY EXERCISES 0300Z TO 0900Z DAILY
 01 THRU 05, 08 THRU 12, 15 THRU 19,
 22 THRU 26, 29 AND 30 NOV:
 A. IN AREA BETWEEN
 22-34.9N 22-54.9N AND 119-25.5E 119-45.5E.
 B. WITHIN 15 MILES OF 22-44.9N 119-35.5E.
 2. CANCEL THIS MSG 301000Z NOV.

(271104Z OCT 2010)

2251/10. CANCELED.

2252/10(94).
 NORTH PACIFIC.
 TAIWAN-EAST COAST.
 GUNNERY.

1. GUNNERY EXERCISES 2300Z TO 0400Z COMMENCING DAILY
 31 OCT THRU 04 NOV, 07 THRU 11, 14 THRU 18,
 21 THRU 25, 28 AND 29 NOV AND 0600Z TO 0900Z DAILY
 01 THRU 05, 08 THRU 12, 15 THRU 19, 22 THRU 26,
 29 AND 30 NOV:
 A. IN AREA BOUND BY
 22-26.9N 122-00.5E, 21-32.9N 122-00.5E,
 21-41.9N 121-40.5E, 22-14.9N 121-40.5E.
 B. WITHIN 28 MILES OF 21-58.0N 121-50.0E.
 2. CANCEL THIS MSG 301000Z NOV.

(271104Z OCT 2010)

2253/10(94).
 TAIWAN STRAIT.
 GUNNERY.

1. GUNNERY EXERCISES 0001Z TO 0900Z DAILY
 30 OCT THRU 04 NOV, 07 THRU 11, 14 THRU 18,
 21 THRU 25, 28 AND 29 NOV:
 A. IN AREA BETWEEN
 23-29.9N 23-39.9N AND 119-05.5E 119-15.5E.
 B. WITHIN TEN MILES OF 23-34.9N 119-10.5E.
 2. CANCEL THIS MSG 291000Z NOV.

(271104Z OCT 2010)

SECTION III

NM 45/10

2254/10(94).

TAIWAN STRAIT.

GUNNERY.

1. GUNNERY EXERCISES 0001Z TO 0330Z DAILY
01 THRU 26 NOV, ALTERNATE 06 THRU 10 DEC:
 - A. IN AREA BOUND BY
24-48N 119-50E, 24-48N 120-20E,
23-55N 119-27E, 24-10N 119-08E.
 - B. WITHIN 10 MILES OF 24-11N 119-30E.
2. CANCEL THIS MSG 100430Z DEC.

(271104Z OCT 2010)

2255/10. CANCELED.

2256/10(83).

SOUTH PACIFIC.

SPACE SHUTTLE.

1. HAZARDOUS OPERATIONS 012055Z TO 012234Z NOV,
ALTERNATE 022032Z TO 022208Z NOV
IN AREA BOUND BY
42-59S 171-56W, 41-36S 169-09W,
39-57S 166-08W, 37-18S 161-52W,
35-27S 159-12W, 33-02S 156-03W,
30-02S 152-30W, 27-58S 150-16W,
25-20S 147-36W, 21-26S 143-59W,
22-32S 142-31W, 23-09S 141-47W,
24-00S 142-23W, 27-01S 145-14W,
29-56S 148-15W, 33-15S 152-02W,
36-04S 155-37W, 38-23S 158-56W,
40-34S 162-24W, 43-06S 167-03W,
44-49S 170-49W, 43-46S 171-40W.
2. CANCEL THIS MSG 022308Z NOV.

(271211Z OCT 2010)

2257/10. CANCELED.

2258/10(63).

ARABIAN SEA.

PAKISTAN.

ROCKETS.

1. HAZARDOUS OPERATIONS 0300Z TO 0700Z DAILY
UNTIL 02 NOV IN AREA BETWEEN
25-11.69N 25-24.38N AND 066-44.69E 065-33.37E.
2. CANCEL THIS MSG 020800Z NOV.

(271359Z OCT 2010)

2259/10(63).

WESTERN INDIAN OCEAN.

PIRACY.

PIRATE ACTION GROUP IN 10-51N 063-28E
AT 271259Z OCT. VESSELS ARE ADVISED TO KEEP
100 MILES CLEAR OF THIS POSITION AND TO EXERCISE
EXTREME CAUTION. REPORTS TO UKMTO DUBAI,
PHONE: 971 50 552 3215, E-MAIL: UKMTO@EIM.AE.

(271433Z OCT 2010)

2260/10(82).

CORAL SEA.

NEW CALEDONIA.

GUNNERY.

1. GUNNERY EXERCISES 282100Z TO 290100Z OCT
WITHIN TEN MILES OF 23-00S 165-58E.
2. CANCEL THIS MSG 290200Z OCT.

(271508Z OCT 2010)

2261/10(91).

SOUTH CHINA SEA.

1. 12 PERSONS MISSING FROM M/V JIAN FU STAR IN
21-00N 119-49E AT 270055Z OCT. VESSELS IN
VICINITY REQUESTED TO KEEP A SHARP LOOKOUT,
ASSIST IF POSSIBLE. REPORTS TO MRCC HONG KONG,
TELEX: 80282952, PHONE: 852 2233 7999,
E-MAIL: HKMRCC@MARDEP.GOV.HK.
2. CANCEL HYDROFAC 2246/10.

(271522Z OCT 2010)

2262/10(96).

SEA OF OKHOTSK.

1. GEOPHYSICAL OPERATIONS 280001Z OCT TO 260001Z NOV

BY M/V ZEPHYR I TOWING 8000 METER LONG CABLE
ALONG TRACKLINES:

A. BETWEEN

59-30N 156-50E AND 55-17N 152-26E.

B. JOINING

54-46N 154-38E, 55-42N 154-41E,

58-02N 155-43E, 58-51N 156-26E,

59-32N 159-26E.

FIVE MILE BERTH REQUESTED.

2. CANCEL THIS MSG 260101Z NOV.

(271545Z OCT 2010)

2263/10(63).

INDIA-WEST COAST.

HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0230Z TO 1230Z

DAILY 01 THRU 07 NOV

IN AREA BETWEEN

15-11N 15-13N AND 073-52E 073-57E.

2. CANCEL THIS MSG 071330Z NOV.

(271610Z OCT 2010)

2264/10(63).

INDIA-WEST COAST.

HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS:

A. 020230Z TO 020830Z NOV

IN AREA BOUND BY

18-00N 070-45E, 18-00N 072-15E,

17-00N 072-40E, 15-40N 072-40E,

15-40N 071-00E, 16-10N 070-45E.

B. 020630Z TO 021730Z NOV

IN AREA BETWEEN

17-25N 16-10N AND 070-45E 072-20E.

2. CANCEL THIS MSG 021830Z NOV.

(271632Z OCT 2010)

2265/10(63).

INDIA-SOUTHWEST COAST.

HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 020900Z TO 021200Z,

050900Z TO 051200Z AND 051230Z TO 051430Z NOV

IN AREA BOUND BY

09-57.5N 075-59.5E, 09-57.7N 076-14.2E,

09-44.0N 076-17.5E, 09-42.5N 076-09.5E.

2. CANCEL THIS MSG 051530Z NOV.

(271638Z OCT 2010)

2266/10(63).

ARABIAN SEA.

PAKISTAN.

HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0400Z TO 1700Z DAILY

01 THRU 05, 08 THRU 12, 15 THRU 19,

22 THRU 26, 29 AND 30 NOV:

A. IN AREA BOUND BY

24-19.00N 066-58.00E, 24-00.00N 066-39.00E,

24-11.00N 066-27.00E, 24-24.30N 066-42.00E.

B. IN AREA BOUND BY

24-16.18N 066-20.50E, 24-22.00N 066-27.00E,

24-16.30N 066-33.00E, 24-10.30N 066-27.00E.

C. WITHIN 3.5 MILES OF 24-53.76N 066-36.40E.

2. CANCEL THIS MSG 301800Z NOV.

(271647Z OCT 2010)

2267/10. CANCELED.

2268/10(63).

ARABIAN SEA.

PIRACY.

M/V ATTACKED IN 13-15N 068-59E AT 271955Z OCT.

VESSELS ARE ADVISED TO KEEP 100 MILES CLEAR

OF THIS POSITION AND TO EXERCISE EXTREME

CAUTION. REPORTS TO IMB PIRACY REPORTING

CENTER, TELEX: 34199, PHONE: 603 2031 0014,

FAX: 603 2078 5769, E-MAIL: PIRACY@ICC-CCS.ORG.

(272203Z OCT 2010)

SECTION III

NM 45/10

2269/10. CANCELED.

2270/10(63).

INDIA-SOUTHWEST COAST.
ROCKETS.

1. HAZARDOUS OPERATIONS 291230Z TO 291430Z OCT
WITHIN:
 - A. FIVE MILES OF 08-31.98N 076-52.05E
BETWEEN 190 DEGREES AND 300 DEGREES.
 - B. 75 MILES OF 08-31.98N 076-52.05E
BETWEEN 220 DEGREES AND 260 DEGREES.
2. CANCEL THIS MSG 291530Z OCT.

(280107Z OCT 2010)

2271/10(91,93).

SOUTH CHINA SEA.
MAN OVERBOARD FROM M/V VEGA TURMALIN IN
19-06.7N 117-51.8E. VESSELS IN VICINITY
REQUESTED TO KEEP A SHARP LOOKOUT,
ASSIST IF POSSIBLE. REPORTS TO
MRCC HONG KONG, PHONE: 852 2233 7999,
E-MAIL: HKMRCC@MARDEP.GOV.HK.

(280450Z OCT 2010)

2272/10(62).

GULF OF ADEN.
PIRACY.

M/V ATTACKED IN 13-08N 049-14E AT 280539Z OCT.
VESSELS TRANSITING THE AREA ARE ADVISED TO
EXERCISE EXTREME CAUTION. REPORTS TO
UKMTO DUBAI, PHONE: 97 150 552 3215,
E-MAIL: UKMTO@EIM.AE.

(280720Z OCT 2010)

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 Web site (<http://www.nga.mil/NGAPortal/MSI.portal>), by referring to Section I (paragraph 50) of US Notice to Mariners 1/10 for those in-force as of 2 January 2010, or by contacting the Maritime Administration, Office of Security, Code MAR-420, Room W23-312, 1200 New Jersey Avenue S.E., Washington DC 20590, Telephone (202) 366-1883, FAX (202) 366-3954, Cell (202) 641-5071.

MARAD ADVISORIES in force 28 October 2010: 00-7, 05-1, 06-1, 07-1, 10-3, 10-4, 10-6, 10-7, 10-8 and 10-9.

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 Web site (<http://www.nga.mil/NGAPortal/MSI.portal>) or by referring to Section I (paragraph 5) of US Notice to Mariners 1/10 for those in-force as of 2 January 2010 and in Notice to Mariners 13/10.

SPECIAL WARNINGS in force 28 October 2010: 1, 29, 77, 81, 82, 89, 92, 107, 108, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124 and 125.

SECTION III

NM 45/10

MARINE INFORMATION

NOAA CHART NEW EDITIONS AND THEIR AVAILABILITY

NOAA recognizes two paper nautical chart products:

- the Print-on-Demand (POD) 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 Print-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. Each should be updated from the dates shown in the lower left corner of the chart. For questions, contact NOAA at help@nauticalcharts.gov or call 301-713-1968 x105. Dates of Latest Edition for charts are listed at <http://nauticalcharts.noaa.gov>.

This week's new editions released by NOAA are listed below (These NOAA charts are now available in both the Print-on Demand and digital raster formats. See <http://www.charts.noaa.gov/MCD/Dole.shtml> for details.):

16529	16 th Ed. Oct 2010 NEW EDITION ALASKA - SOUTH COAST - UNALASKA ISLAND - DUTCH HARBOR (New edition due to topographic changes.)	NAD 83 1:10,000	(NOS Silver Spring, MD)
16561	4 th Ed. Oct 2010 NEW EDITION ALASKA - ALASKA PENINSULA - MITROFANIA BAY AND KUIUKTA BAY (New edition due to hydrographic changes.)	NAD 83 1:80,000	(NOS Silver Spring, MD)

NGA CHART NEW EDITIONS AND THEIR AVAILABILITY

NGA recognizes two paper nautical chart products:

- the Enterprise Product on Demand-Maritime (ePOD-M) chart, and
- the traditional NGA paper chart distributed by the Defense Logistics Agency and the Federal Aviation Administration.

The Enterprise Product on Demand-Maritime (ePOD-M) chart is available the day after NGA clears a New Edition for release and is available to Department of Defense (DoD) customers and other authorized U.S. Government users. The traditional paper chart is available six to eight weeks later. Each is official, should be put into service immediately, and meets Federal chart carriage requirements immediately upon its release. Each should be updated from the dates shown in the lower left corner of the chart. For questions, contact NGA at mcddepod@nga.mil.

This week's new editions released by NGA are listed below. These NGA charts are now available for download in the ePOD-M format (large PDF print file) at the following websites:

- NIPRNet: <https://www.geointel.nga.mil/products/dnc/epods/index.htm>
- SIPRNet: <http://www.geoint.nga.smil.mil/products/dnc1/epods/index.htm>

56222	7 th Ed. October 30, 2010 NEW EDITION MINA TARABULUS (TRIPOLI) (Correct through NM 44/10).	WGS-84 1:10,000 Limited Distribution	(NGA Bethesda, MD)
57480	9 th Ed. October 23, 2010 NEW EDITION CAPE COLUMBINE TO CAPE OF GOOD HOPE (Correct through NM 43/10).	WGS-84 1:250,000	(NGA Bethesda, MD)
61331	5 th Ed. October 23, 2010 NEW EDITION BAIE ANDRANOAOOMBY TO HELODRANON' ANTSIRANANA (Correct through NM 43/10).	WGS-84 1:100,000 Limited Distribution	(NGA Bethesda, MD)

NEW EDITION OF SAILING DIRECTIONS

Pub. 140, Sailing Directions (Planning Guide) North Atlantic Ocean and Adjacent Seas, Ninth Edition, 2010, is now available through electronic access at the Maritime Safety Web site (<http://www.nga.mil/NGAPortal/MSI.portal>). This edition will be available on the Digital Nautical Publications-Quarterly Update, 4th Quarter 2010, CD-ROM.

Pub. 140 has been corrected to 9 October 2010, including Notice to Mariners No. 41 of 2010.

Digital Nautical publications will be updated using a binary patch file called “Publication Data Updates (PDU).” PDU files are cumulative or sequential ensuring customers will not miss any changes and may be accessed on the Maritime Safety Web site (<http://www.nga.mil/NGAPortal/MSI.portal>).

NGA DIGITAL NAUTICAL PUBLICATIONS-QUARTERLY UPDATE

The Digital Nautical Publications-Quarterly Update (Limited Distribution), Third Quarter 2010, is ready for issue. The publications within are corrected to 25 September 2010, including Notice to Mariners No. 39 of 2010*. To improve usability, the CD-ROM interface has changed from an executable (.exe) format to a web-based (HTML) format.

The production schedule of Digital Nautical Publications-Quarterly Update coincides with the production schedule of the quarterly Notice to Mariners issues, namely 13, 26, 39, and 52 or 53 of each year.

Disk No. 1 contains updated copies of NGA nautical publications, including all 42 Sailing Directions Enroutes/Planning Guides, The American Practical Navigator (Pub. 9)*, International Code of Signals (Pub. 102), Radio Navigational Aids (Pub. 117), World Port Index (Pub. 150)*, Distances Between Ports (Pub. 151)*, Radar Navigation and Maneuvering Board Manual (Pub. 1310)*, Sight Reduction Tables for Marine Navigation (Pub. 229)*, Sight Reduction Tables for Air Navigation (Pub. 249)*, Fleet Guides (Pub. 940 and Pub. 941), NOAA Tide Tables and Tidal Current Tables*, ONI MODU 101 Handbook, and Admiralty Sailing Directions NP24 (Black Sea and Sea of Azov Pilot).

Disk No. 2 contains the Summary of Corrections, List of Lights**, Chart No.1*, Notice to Mariners issues 51/2008 through 26/2010, including the associated high-resolution graphic correction files for printing, United States Coast Pilot Series**, USCG Light List Volumes, USCG Navigation Rules International-Inland*, and NWS Observing Handbook No. 1.

Both disks include marine navigation calculators, digital Chart/Publication Correction Record Cards and hyperlinks to the Web sites of various maritime organizations.

* Those publications marked by an asterisk are currently not updated via the PDU process, but are still updated via textual corrections published in the weekly Notice to Mariners. Where applicable, the copies of these publications included on the CD are updated to Notice to Mariners 26/2010, but it is the user’s responsibility to examine the Notice to Mariners for corrections between quarters accordingly.

** Those publications marked by a double asterisk are updated twice between quarters via the PDU e-mail subscription service. These Volumes will be corrected via the PDU e-mail subscription service.

It is important to note that this product is issued and updated quarterly and users must still refer to the Maritime Safety Web site at <http://www.nga.mil/NGAPortal/MSI.portal> for updates between issues. NGA also offers an e-mail subscription service for Publication Data Updates (PDU), which automatically delivers newly-released PDU files as e-mail attachments as well as announcements of new editions of publications. To enroll in the PDU e-mail subscription service, send a blank e-mail to join-pdu@goldweb.nga.mil from the e-mail account where you wish to receive the PDU file. Since the PDU files can vary in size from 500 kb to 3.5 Mb, subscribers should ensure that their e-mail service allows attachment files up to 4 Mb.

To update a publication between issues of the Digital Nautical Publications-Quarly Update product, users must install the publication file from the CD-ROM to their computer’s hard drive and apply any PDU file(s) issued during the quarter. An install executable has been included for each publication for ease of installation.

DoD, U.S. Coast Guard, or any other Executive Branch Agency subscribers of Digital Nautical Publications who have not yet received a copy should contact the Defense Logistics Agency Customer Support at:

Defense Supply Center Richmond
RMF – Hydrographic Section
ATTN: DSCR-FANAH
8000 Jefferson Davis Highway

Richmond, VA 23297-5339

Telephone: 804-279-6500
DSN: 695-6500
Toll Free: 800-279-6510 or 6524
Web site: <http://www.dscr.dla.mil/rmf>

AREAS TO BE AVOIDED (ATLAS MOORINGS) IN THE EQUATORIAL INDIAN OCEAN

The National Oceanic and Atmospheric Administration (NOAA) maintains an array of buoys called Autonomous Temperature Line Acquisition System (ATLAS) in the Equatorial Indian Ocean.

The ATLAS buoys (yellow 2 meter toroid buoys with radar reflector) that make up the array are located in the following positions:

Indian Ocean:

15 00.4N 90 00.1E
11 56.4N 89 54.5E
8 01.2N 89 00.1E
3 58.0N 89 36.5E
1 34.9N 90 05.8E
0 02.9N 89 50.5E
3 10.9N 82 24.7E
0 04.9N 80 33.8E
1 31.1S 80 32.2E
4 00.7S 80 31.5E
8 00.7S 80 27.5E
11 59.8S 80 29.6E
8 06.4S 66 56.6E
8 02.2S 66 59.5E
12 11.3S 67 12.7E
7 55.7S 55 04.5E
12 02.3S 54 58.0E

Mariners are advised to give all mooring positions a 5 NM wide berth.

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY'S IMPLEMENTATION OF A HARDCOPY TO DIGITAL TRANSITION STRATEGY

Since the mid-1990's, the National Geospatial-Intelligence Agency (NGA) has been working to improve digital navigation product support for the US Navy and other US Government users. The US Navy is transitioning to digital navigation, thus reducing the need for NGA to continue production of hardcopy charts. Therefore, NGA has begun a gradual transition from hardcopy chart production to a digital data maintenance environment. This notice is to advise mariners, chart agents, and other users of this strategy.

During the gradual transition from hardcopy charts to digital charts, NGA will continue to make certain hardcopy charts available only to US Government-approved entities, in accordance with US law or international agreement. These particular charts will be identified as "bilateral charts," since they are the product of international bilateral agreements and are duplicates of foreign copyright charts. Each bilateral chart will carry an NGA chart number, a National Stock Number (NSN), a bar code, and will show the number of any existing NGA chart that it replaces only when the chart is a one-for-one replacement. For those charts that are not a one-for-one replacement, no canceled chart number will appear. In the case where more than one new chart is being introduced to replace a single NGA chart, the existing chart will not be canceled until all new replacement charts have been announced in the Notice to Mariners.

Bilateral charts are the result of NGA international agreements and are duplicates of foreign copyrighted charts. The charts are printed in English, use metric units, refer to WGS-84 datum and are marked as "Distribution Limited." However, certain bilateral charts have not yet been converted to WGS-84 datum, and are of sufficiently large scale (generally larger than 1:50,000) where the difference from WGS-84 datum is noticeable. These exception charts are printed with datum shift values, which must be applied in order to plot GPS-derived positions correctly. The exception charts are scheduled for eventual conversion to WGS-84 datum; until this occurs, their chart numbers will appear bold-faced in the announcement list below.

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Bilateral charts will contain references to host nation charts and publications, and may use symbology not yet found in US Chart No. 1. In most cases, NGA will not attempt to change these references to the equivalent US charts, publications or symbology. However, it should be noted that relevant maritime information referenced in a foreign publication can also usually be found within Sailing Directions, Notice to Mariners No. 1 (Special Paragraphs), List of Lights, Radio Navigational Aids, or Chart No. 1. Updates to Sailing Directions and other electronic publications can be made through the application of digital patch files (PDU files), available for download from the NGA Maritime Safety Web site.

As the US Navy completes its transition to digital navigation, the use of bilateral charts will be gradually phased out. Until then, Section II of the Notice to Mariners, NGA/DLIS Catalog Corrections, will contain information about specific bilateral charts being announced as well as cancellation of any existing charts that they replace. Update information for bilateral charts will appear in Section I of the Notice to Mariners, Chart Corrections. Standard chart policy remains intact, in that NGA charts are not to be placed in service until their announcement appears in the US Notice to Mariners.

NGA has begun adopting bilateral charts in waters of Australia, Canada, and the UK, with additional countries to follow. What this further means is that NGA no longer provides certain hardcopy charts (i.e., those replaced by bilateral charts) for public sale. To obtain these hardcopy charts, civilian users will be required to purchase bilateral chart equivalents from their producer nations and their agents. Contact information for purchasing Australian, Canadian, and UK charts is listed below:

Australian Hydrographic Service Web site: <http://www.hydro.gov.au>

Australian Distribution Network: <http://www.hydro.gov.au/prodserv/distributors/distributors.htm>

Canadian Hydrographic Service Web site: <http://notmar.com/charts/index.php>

Canadian Sales Agents: <http://www.chs-shc.dfo-mpo.gc.ca/chs/en/Dealers/locate.htm>

UK Hydrographic Office Web site: <http://www.ukho.gov.uk>

UK Sales Agents: http://www.ukho.gov.uk/list_of_agents.html

NGA issues this notice weekly. It will also appear in the “What’s New @ Maritime” section of the Maritime Safety Web site (<http://www.nga.mil/NGAPortal/MSI.portal>); however, the following list of announced bilateral charts will only appear in the Notice to Mariners.

NGA bilateral Australian, Canadian, and UK charts announced to date:

<i>Former US Chart No.</i>	<i>Current US Chart No.</i>	<i>Foreign Chart No.</i>	<i>Originally Announced</i>	<i>Later Edition in NTM</i>
14002	14ACO14000	Can. 4023	23/04	
14005	14ACO14001	Can. 4012	23/04	
14006	14ACO14334	Can. 4016	9/09	
14009	14ACO14004	Can. 4015	23/04	
14009	14ACO14011	Can. 4047	23/04	
14009	14ACO14012	Can. 4002	29/04	
14009	14ACO14013	Can. 4013	29/04	
14009	14ACO14015	Can. 4045	29/04	
14014	14ACO14013	Can. 4013	29/04	
14040	14ACO14016	Can. 4010	29/04	
14040	14ACO14016	Can. 4010	29/04	
14041	14XHA14019	Can. 4011	29/04	
14042	14XHA14020	Can. 4396	1/05	
14043	14AHA14021	Can. 4116	8/05	42/08
14044	14AHA14022	Can. 4117	14/05	
14046	14BHA14023	Can. 4140	14/05	
14062	14XCO14025	Can. 4118	43/04	
14062	14XCO14026	Can. 4243	12/05	
14065	14BHA14027	Can. 4245	12/05	
14066	14XCO14026	Can. 4243	12/05	

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14066	14XHA14028	Can. 4230	14/05
14066	14XHA14029	Can. 4241	14/05
14066	14XHA14030	Can. 4242	33/05
14066	14XHA14031	Can. 4210	33/05
14067	14XHA14029	Can. 4241	14/05
14067	14XHA14032	Can. 4209	47/05
14068	14XHA14032	Can. 4209	47/05
14083	14AHA14036	Can. 4320	45/05
14085	14AHA14037	Can. 4328	45/05
14087	14AHA14039	Can. 4385	46/05
14088	14AHA14047	Can. 4201	46/05
14089	14AHA14048	Can. 4202	39/06
14090	14AHA14049	Can. 4237	6/05
14091	14AHA14050	Can. 4203	48/06
14093	14AHA14051	Can. 4236	25/07
14100	14XHA14052	Can. 4235	25/07
14100	14XHA14053	Can. 4234	25/07
14105	14AHA14054	Can. 4321	22/07
14115	14XCO14058	Can. 4227	29/04
14121	14XHA14059	Can. 4374	23/07
14123	14XHA14060	Can. 4375	23/07
14125	14AHA14064	Can. 4376	22/07
14133	14XHA14072	Can. 4278	23/07
14134	14XHA14073	Can. 4279	23/07
14136	14AHA14075	Can. 4266	25/07
14141	14AHA14076	Can. 4462	22/07
14144	14XHA14143	Can. 4950	38/03
14145	14AHA14077	Can. 4448	22/07
14146	14XHA14078	Can. 4404	25/07
14151	14XHA14079	Can. 4403	23/07
14156	14BHA14080	Can. 4419	22/07
14190	14ACO14096	Can. 4905	6/09
14203	14XHA14195	Can. 1431	42/03
14222	14XHA14211	Can. 1312	40/03
14253	14ACO14004	Can. 4015	23/04
14340	14ACO14334	Can. 4016	9/09
14342	14BCO14336	Can. 4626	11/10
14349	14AHA14339	Can. 4622	10/09
14350	14AHA14334	Can. 4841	12/10
14351	14AHA14334	Can. 4841	12/10
14360	14ACO14348	Can. 4017	12/10
14364	14AHA14359	Can. 4846	25/09
14366	14AHA14359	Can. 4846	25/09
14373	14BHA14362	Can. 4847	12/10
14415	14ACO14377	Can. 4020	12/10
14812	14XHA14809	Can. 2085	6/09
15008	15ACO15001	Can. 4730	12/10
15011	15ACO15002	Can. 7050	16/08
15017	15ACO15003	Can. 5450	33/07
15018	15ACO15004	Can. 4700	12/10
15020	15ACO15005	Can. 7011	12/10
15041	15ACO15007	Can. 4731	41/08
15061	15ACO15014	Can. 4732	42/08
15070	15BHA15024	Can. 5143	6/09
15080	15BHA15027	Can. 5023	46/07
15120	15ACO15030	Can. 4775	31/07
15140	15ACO15031	Can. 4776	12/10

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15160	15ACO15032	Can. 5300	34/08	
15312	15ACO15035	Can. 5400	6/09	
15670	15XCO15672	Can. 7570	44/09	
17008	17ACO17007	Can. 3002	40/08	
17412	17XHA17410	Can. 3890	40/08	
17413	17ACO17411	Can. 3802	42/08	
17414	17BCO17415	Can. 3854	42/08	
17416	17BCO17417	Can. 3858	41/08	
17438	17BHA17418	Can. 3960	43/08	
17438	17BHA17419	Can. 3959	41/08	
17438	17BHA17440	Can. 3956	12/10	
17441	17BHA17442	Can. 3927	12/07	
17441	17BHA17447	Can. 3746	25/07	
17444	17XHA17448	Can. 3955	32/08	
17445	17BHA17439	Can. 3957	12/10	
17464	17XHA17450	Can. 3924	12/10	
17465	17XHA17451	Can. 3742	41/08	
17480	17ACO17454	Can. 3744	12/10	
17485	17XHA17456	Can. 3936	44/09	
17486	17XCO17458	Can. 3727	13/09	
17489	17XHA17488	Can. 3598	12/10	
17495	17ACO17493	Can. 3605	6/07	
17513	17XHA17497	Can. 3539	8/05	1/08
17515	17XHA17496	Can. 3513	6/09	
17517	17XHA17498	Can. 3512	44/09	
17518	17BHA17499	Can. 3463	31/07	
17519	17BHA17500	Can. 3526	23/07	
17543	17ACO17501	Can. 3604	1/08	
17546	17XCO17510	Can. 3306	31/10	
17548	17BCO17511	Can. 3671	31/07	
17550	17ACO17514	Can. 3602	24/07	
18401	18BHA18404	Can. 3459	42/08	44/10
18405	18BHA18426	Can. 3493	25/07	
18406	18BHA18435	Can. 3481	23/07	
18407	18BHA18436	Can. 3494	12/07	
18408	18BHA18437	Can. 3495	42/08	
18413	18BHA18442	Can. 3442	31/07	
18414	18XHA18451	Can. 3478	31/07	
18415	18BHA18461	Can. 3441	24/07	
18416	18AHA18462	Can. 3440	24/07	
18418	18AHA18466	Can. 3419	24/07	
18420	18BHA18467	Can. 3479	12/07	16/08
18475	18XHA18472	Can. 3685	43/08	
35009	35ACO35002	UK 266	19/04	3/07
35009	35ACO35003	UK 268	19/04	3/07
35009	35ACO35004	UK 273	19/04	4/07
35009	35ACO35005	UK 278	23/04	4/07
35009	35ACO35006	UK 1191	24/04	8/06
35009	35ACO35010	UK 1192	28/04	12/06
35009	35ACO35013	UK 1409	23/04	49/04
35009	35ACO35014	UK 1407	23/04	33/09
35016	35ACO35015	UK 2635	26/06	10/08
35022	35ACO35017	UK 1128	16/08	32/08
35023	35ACO35018	UK 1129	37/07	
35031	35ACO35019	UK 1127	4/06	6/08
35032	35ACO35020	UK 1125	7/07	
35036	35ACO35024	UK1123	3/07	20/07

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35040	35ACO35006	UK 1191	24/04	8/06
35060	35ACO35010	UK 1192	28/04	
35080	35ACO35014	UK 1407	23/04	33/09
35081	35BHA35035	UK 734	28/04	52/08
35082	35BHA35037	UK 735	31/04	52/08
35084	35BHA35045	UK 1481	32/04	12/06
35086	35BHA35048	UK 736	32/04	4/09
35088	35BHA35050	UK 190	28/04	12/06
35100	35ACO35013	UK 1409	23/04	49/04
35101	35BHA35052	UK 223	33/04	
35120	35ACO35055	UK 115	23/04	10/08
35130	35ACO35056	UK 1942	12/06	
35135	35ACO35057	UK 2249	27/07	39/10
35136	35ACO35058	UK 2250	27/07	39/10
35141	35ACO35059	UK 2162	21/07	33/09
35144	35XCO35062	UK 2584	27/07	49/08
35150	35ACO35063	UK 1119	27/07	
35155	35ACO35064	UK 1234	27/07	
35159	35ACO35065	UK 3271	30/07	39/10
35160	35ACO35066	UK 1233	27/07	
35163	35ACO35067	UK 3272	27/07	
35166	35ACO35068	UK 3283	27/07	39/10
35169	35ACO35071	UK 3281	29/07	39/10
35170	35ACO35072	UK 3282	30/07	
35200	35ACO35001	UK 1954	28/04	33/09
35205	35ACO35073	UK 2720	27/07	6/08
35210	35ACO35074	UK 1785	27/07	6/08
35220	35ACO35075	UK 2721	37/07	6/08
35230	35ACO35078	UK 1794	24/07	10/08
35236	35AHA35079	UK 2207	28/07	39/10
35237	35AHA35089	UK 2208	30/07	12/10
35239	35AHA35090	UK 2210	28/07	
35243	35BHA35091	UK 3146	37/07	6/08
35246	35ACO35092	UK 1795	21/07	13/10
35247	35AHA35093	UK 1796	28/07	39/10
35248	35BHA35094	UK 2209	38/07	
35250	35BHA35095	UK 2540	29/07	7/08
35255	35AHA35096	UK 2171	30/07	
35256	35AHA35097	UK 2390	24/07	
35260	35ACO35104	UK 2722	27/07	7/08
35265	35ACO35106	UK 1778	27/07	33/09
35270	35AHA35109	UK 2169	29/07	
35272	35ACO35110	UK 1770	12/07	
35277	35BHA35113	UK 2326	22/06	7/08
35278	35BHA35114	UK 2343	4/06	
35279	35BHA35115	UK 2397	29/06	
35295	35BHA35116	UK 2481	22/06	
35296	35BHA35117	UK 2396	25/06	
35298	35BHA35118	UK 2168	7/07	33/09
35299	35ACO35119	UK 2724	26/06	5/07
35300	35ACO35121	UK 2723	18/06	
35302	35ACO35123	UK 2798	46/05	
35307	35ACO35126	UK 2199	5/06	
35308	35ACO35127	UK 2198	25/06	
35310	35ACO35128	UK 2725	27/06	
35350	35ACO35131	UK 2173	12/07	
35380	35ACO35138	UK 2254	30/06	

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35390	35ACO35139	UK 2423	22/06	
35400	35ACO35140	UK 2424	5/06	
35420	35ACO35147	UK 2049	18/06	
35421	35AHA35148	UK 1777	46/05	
35423	35AHA35149	UK 1773	46/05	
35424	35AHA35151	UK 1765	46/05	26/10
35011	35XCO35172	UK 219	8/08	33/09
36010	36ACO36000	UK 1121	26/06	
36015	36ACO36001	UK 2649	47/05	
36040	36ACO36002	UK 1410	47/05	
36060	36ACO36006	UK 1141	12/07	
36061	36BHA36007	UK 1468	20/07	
36062	36BHA36008	UK 1415	4/06	
36063	36BHA36009	UK 1447	12/07	
36081	36BHA36011	UK 1753	7/07	
36098	36AHA36012	UK 2221	47/05	
36103	36BHA36014	UK 2126	9/07	
36104	36BHA36016	UK 2220	6/07	
36106	36BHA36017	UK 2131	47/05	
36108	36BHA36018	UK 2000	4/06	
36110	36BHA36019	UK 2007	8/06	
36115	36BHA36020	UK 1994	3/07	
36116	36AHA36021	UK 1867	23/05	26/10
36117	36BHA36022	UK 1907	11/07	
36118	36BHA36023	UK 2383	25/06	
36119	36BHA36024	UK 2491	4/06	
36120	36ACO36025	UK 1826	13/07	
36127	36BHA36030	UK 3746	32/06	
36128	36BHA36030	UK 3746	32/06	
36137	36AHA36032	UK 1478	39/04	
36138	36AHA36033	UK 3275	39/04	9/05
36139	36BHA36034	UK 3274	39/04	33/09
36140	36ACO36035	UK 1178	39/04	33/09
36141	36BHA36036	UK 2878	41/04	9/05
36161	36BHA36039	UK 1152	52/04	
36162	36BHA36041	UK 1182	1/05	
36163	36BHA36042	UK 1176	1/05	
36165	36BHA36044	UK 1165	17/05	52/06
36180	36ACO36049	UK 2565	27/05	33/09
37043	37AHA37003	UK 1267	15/06	
37044	37AHA37004	UK 30	25/05	39/10
37045	37AHA37006	UK 1901	25/05	20/07
37046	37AHA37007	UK 1613	34/05	18/06
37047	37XHA37008	UK 1902	25/05	27/08
37060	36ACO36050	UK 442	25/05	
37075	37ACO37015	UK 2454	25/08	
37079	37AHA37016	UK 2625	32/05	39/10
37081	37AHA37017	UK 2045	32/05	4/06
37083	37AHA37019	UK 2037	25/05	39/10
37084	37AHA37020	UK 2036	5/06	38/08
37086	37AHA37021	UK 2631	31/05	16/08
37119	37AHA37027	UK 1698	8/06	
37122	37AHA37028	UK 1828	19/05	6/10
37141	37AHA37040	UK 1607	9/05	22/09
37145	37AHA37051	UK 1185	37/04	52/08
37147	37BHA37052	UK 1975	36/04	7/08
37150	37ACO37055	UK 1504	37/04	17/05

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37170	37ACO37057	UK 1503	38/04	8/08
37175	37ACO37058	UK 1187	38/04	8/08
37180	37ACO37059	UK 1190	38/04	10/05
37182	37AHA37062	UK 109	38/04	33/09
37183	37BHA37066	UK 1188	6/05	26/10
74071	74BHA74072	Aus. 615	35/07	
74071	74BHA74073	Aus. 616	35/07	
74071	74BHA74074	Aus. 617	35/07	
74141	74XHA74142	Aus. 618	35/07	
74141	74XHA74143	Aus. 610	35/07	
74151	74AHA74154	Aus. 809	12/07	
74152	74BHA74150	Aus. 208	8/07	44/10
74153	74BHA74155	Aus. 207	8/07	
74162	74BCO74163	Aus. 811	13/07	
74162	74BCO74164	Aus. 810	13/07	
74183	74AHA74180	Aus. 237	9/07	
74186	74AHA74189	Aus. 238	47/05	
74192	74BHA74213	Aus. 818	9/07	
74201	74BHA74199	Aus. 246	8/07	
74202	74BHA74208	Aus. 247	13/07	
74204	74BHA74209	Aus. 819	14/07	
74205	74BHA74244	Aus. 245	45/10	
74206	74AHA74212	Aus. 244	15/07	
74210	74BCO74245	Aus. 820	13/07	
74221	74BCO74227	Aus. 821	11/07	
74229	74BHA74226	Aus. 250	13/07	
74229	74BCO74246	Aus. 824	16/08	
74229	74BCO74247	Aus. 249	16/08	
74231	74BHA74226	Aus. 250	13/07	
74232	74BHA74216	Aus. 256	10/07	
74234	74BHA74237	Aus. 257	11/07	45/10
74252	74BHA74258	Aus. 263	41/10	
74253	74BCO74262	Aus. 830	13/07	
74271	74BCO74275	Aus. 833	18/07	
74271	74BCO74277	Aus. 280	35/07	
74272	74BHA74267	Aus. 834	13/07	
74287	74BHA74279	Aus. 289	52/06	
74293	74ACO74311	Aus. 839	12/06	
74294	74BCO74300	Aus. 292	47/05	
74294	74ACO74311	Aus. 839	12/06	
74310	74BCO74395	Aus. 302	18/07	
74320	74BCO74313	Aus. 303	18/07	
74330	74BCO74387	Aus. 304	52/06	
74340	74BCO74384	Aus. 305	35/07	
74350	74BCO74383	Aus. 306	35/07	44/10
74376	74BCO74377	Aus. 715	35/07	
74391	74BHA74390	Aus. 720	35/07	
74391	74BHA74396	Aus. 721	35/07	
74393	74BHA74397	Aus. 26	47/06	
74394	74BHA74397	Aus. 26	47/06	
74415	74ACO74416	Aus. 726	35/07	
74430	74ACO74431	Aus. 315	22/08	48/08
74450	74ACO74451	Aus. 319	34/07	48/08
74517	74ACO74031	Aus. 743	12/06	
74521	75AHA75147	Aus. 744	19/06	
74555	74ACO74593	Aus. 334	34/07	
74581	74AHA74585	Aus. 112	18/07	

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75010	75ACO75111	Aus. 341	36/07	
75010	75ACO75114	Aus. 342	36/07	
75110	75ACO75111	Aus. 341	36/07	
75120	75ACO75114	Aus. 342	36/07	
75132	75BHA75137	Aus. 137	19/06	42/08
75144	75BHA75146	Aus. 344	47/05	
75170	75ACO75166	Aus. 788	14/06	
75170	75ACO75167	Aus. 789	14/06	
75170	75ACO75168	Aus. 790	17/06	
75171	75AHA75164	Aus. 144	44/10	
75171	75AHA75165	Aus. 143	21/06	20/08
75171	75AHA75174	Aus. 158	18/06	
75173	75AHA75174	Aus. 158	18/06	
75175	75AHA75178	Aus. 154	18/06	25/08
75261	75AHA75274	Aus. 808	11/07	
75264	75AHA75269	Aus. 201	12/07	
75264	75AHA75267	Aus. 202	48/06	
75265	75AHA75266	Aus. 197	17/07	

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. _____

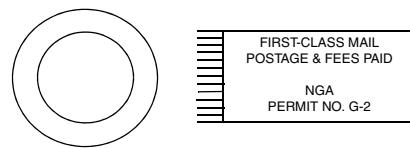
Sounding sensor or method used _____ Sounding(s) corrected for draft: Yes _____ No _____

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

User Feedback (continue on additional sheets as necessary)



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



HYDROARC REPORT SHEET

Observer _____

Ship/Organization _____

Phone _____ Email Address_____

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

Is hazard remotely monitored? Yes _____ No _____

If yes, list Internet URL where most recent position will be posted (if any): _____

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

Date of Insertion _____ Latitude _____ Longitude _____

Date of Expected Removal _____

Most Recent Observation: Date _____ Time (Local) _____

Latitude _____ Longitude _____ Datum _____

Navigation System _____ Verified by Navigator: Yes _____ No _____

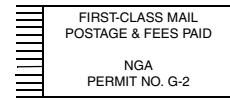
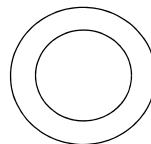
Sounding sensor or method used _____

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

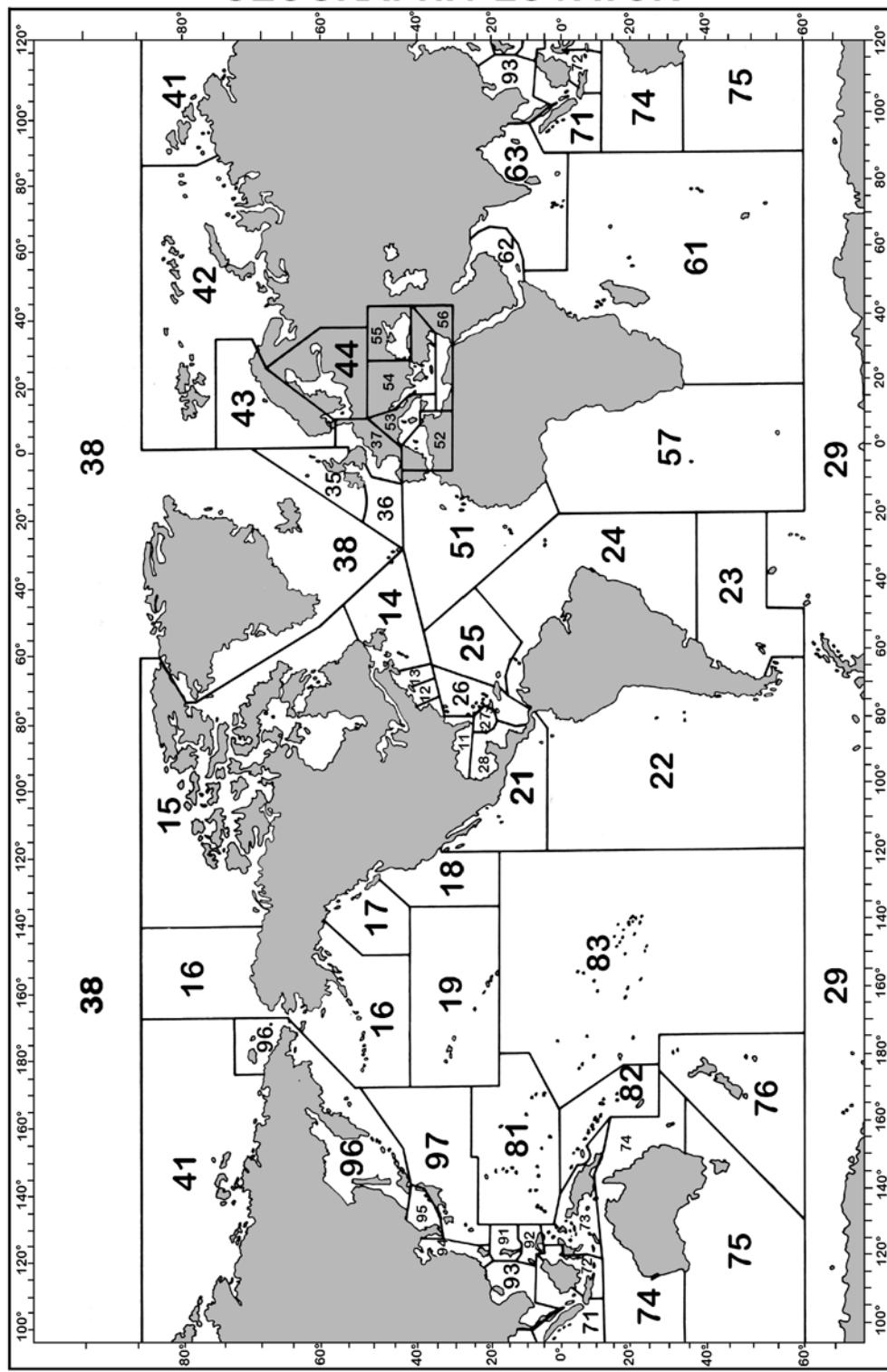
Details of Information Reported (continue on additional sheets as necessary): _____



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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/DLIS Catalog of Maps Charts and Related Products. 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 Subregion number of the pertinent geographic area, and then turning to the page or pages that list the chart numbers beginning with those two digits.

**IMPORTANT
NAVIGATIONAL INFORMATION
TIME—DATED**



**NOTICE TO
MARINERS**

PLEASE EXPEDITE DELIVERY