



U.S. Department
of Homeland Security
**United States
Coast Guard**

LOCAL NOTICE TO MARINERS

District: 5

Week: 01/16

LOCAL NOTICE TO MARINERS

Coastal Waters from Shrewsbury River, New Jersey to Little River, South Carolina

The Local Notice to Mariners contains all information relevant to the waterways within the Fifth Coast Guard District and is updated each Tuesday on the U.S. Coast Guard Navigation Center website at <http://www.navcen.uscg.gov/?pageName=lnmDistrict®ion=5> . If you have questions about the LNM, please contact:

COMMANDER, FIFTH COAST GUARD DISTRICT (dpw)
431 Crawford Street, Portsmouth, Virginia 23704
Telephone (Day) : (757) 398-6552 or CGD5Waterways@uscg.mil

AIDS TO NAVIGATION DISCREPANCY REPORTING

To report any Aids to Navigation discrepancies (missing, damaged, extinguished lights, off station), shoaling or hazards to navigation, discrepancies to bridge lighting, please contact the following 24 hour numbers:

1. For PA, NJ, DE waters, coastal and tributaries contact COGARD SECTOR DELAWARE BAY at (215) 271-4940.
2. For MD, DE in the Upper Chesapeake Bay and tributaries contact COGARD SECTOR BALTIMORE at (410) 576-2525.
3. For VA in Lower Chesapeake Bay below Smith Point Light and tributaries and VA, MD Eastern Shore Bay and coastal contact COGARD SECTOR HAMPTON ROADS at (757) 483-8567.
4. For NC waters, coastal and tributaries contact COGARD SECTOR NORTH CAROLINA at (910) 343-3882.

REFERENCES

Light List: ATLANTIC COAST, VOLUME II, COMDTPUB P16502.2, 2015 Edition.
U.S. Coast Pilot 3, Atlantic Coast: Sandy Hook, NJ to Cape Henry, VA, 2015 (48th) Edition.
U.S. Coast Pilot 4, Atlantic Coast: Cape Henry, VA to Key West, FL, 2015 (47th) Edition.
All bearings are in degrees TRUE - All times are in Local Time unless otherwise noted.

NAVIGATIONAL INTERNET SITES

Fifth Coast Guard District Prevention Division BLOGSPOT
<http://midatlantic.coastguard.dodlive.mil/>

2015 Light List/ Summary of Corrections.
<http://www.navcen.uscg.gov/index.php?pageName=lightListCorrections>

Bridges Public Notice Website.
<http://www.navcen.uscg.gov/?pageName=pnBridges>

NOAA Chart Corrections and Chart Viewer
<http://www.nauticalcharts.noaa.gov>

Coast Pilots, along with corrections are available at
<http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm>

NOAA Chart Corrections applicable to any particular NOAA chart:
<http://ocsddata.ncd.noaa.gov/nm/resultList.asp?Chart=> (apply specific chart number i.e. Chart 11548)

D5 LNM on Internet/Archived Back Issues for 2013/2014
<http://www.navcen.uscg.gov/?pageName=lnmDistrict®ion=5>

Chesapeake Bay Weather Buoys
<http://www.cbos.org>
Tides on Line
<http://www.tidesonline.nos.noaa.gov/>
Tides, Currents, PORTS
<http://www.tidesandcurrents.noaa.gov/>
Coast Guard District 5

Weather
<http://www.weather.gov/>

U.S. Army Corps of Engineers Willimington District Survey Maps and Shoaling Surveys
<http://www.saw.usace.army.mil/Missions/Navigation/HydrographicSurveys.aspx>
U.S. Army Corps of Engineers Norfolk District Survey Maps and Shoaling Surveys
<http://gis.nao.usace.army.mil/ESDS/>
U.s. Army Corps of Engineers Philadelphia District Survey Maps and Shoaling Surveys
<http://www.nap.usace.army.mil/Missions/CivilWorks/Surveys/Projects.aspx>

ABBREVIATIONS

A through H

ADRIFT - Buoy Adrift
AICW - Atlantic Intracoastal Waterway
Al - Alternating
B - Buoy
BKW - Breakwater
bl - Blast
BNM - Broadcast Notice to Mariner
bu - Blue
C - Canadian
CHAN - Channel
CGD - Coast Guard District
C/O - Cut Off
CONT - Contour
CRK - Creek
CONST - Construction
DAYMK/Daymk - Daymark
DBN/Dbn - Daybeacon
DBD/DAYBD - Dayboard
DEFAC - Defaced
DEST - Destroyed
DISCON - Discontinued
DMGD/DAMGD - Damaged
ec - eclipse
EST - Established Aid
ev - every
EVAL - Evaluation
EXT - Extinguished
F - Fixed
fl - flash
FI - Flashing
G - Green
GIWW - Gulf Intracoastal Waterway
HAZ - Hazard to Navigation
HBR - Harbor
HOR - Horizontal Clearance
HT - Height

I through O

I - Interrupted
ICW - Intracoastal Waterway
IMCH - Improper Characteristic
INL - Inlet
INOP - Not Operating
INT - Intensity
ISL - Islet
Iso - Isophase
kHz - Kilohertz
LAT - Latitude
LB - Lighted Buoy
LBB - Lighted Bell Buoy
LHB - Lighted Horn Buoy
LGB - Lighted Gong Buoy
LONG - Longitude
LNM - Local Notice to Mariners
LT - Light
LT CONT - Light Continuous
LTR - Letter
LWB - Lighted Whistle Buoy
LWP - Left Watching Properly
MHz - Megahertz
MISS/MSNG - Missing
Mo - Morse Code
MRASS - Marine Radio Activated Sound Signal
MSLD - Misleading
N/C - Not Charted
NGA - National Geospatial-Intelligence Agency
NO/NUM - Number
NOS - National Ocean Service
NW - Notice Writer
OBSCU - Obscured
OBST - Obstruction
OBSTR - Obstruction
Oc - Occulting
ODAS - Anchored Oceanographic Data Buoy

P through Z

PRIV - Private Aid
Q - Quick
R - Red
RACON - Radar Transponder Beacon
Ra ref - Radar reflector
RBN - Radio Beacon
REBUILT - Aid Rebuilt
RECOVERED - Aid Recovered
RED - Red Buoy
REFL - Reflective
RRL - Range Rear Light
RELIGHTED - Aid Relit
RELOC - Relocated
RESET ON STATION - Aid Reset on Station
RFL - Range Front Light
RIV - River
RRASS - Remote Radio Activated Sound Signal
s - seconds
SEC - Section
SHL - Shoaling
si - silent
SIG - Signal
SND - Sound
SPM - Single Point Mooring Buoy
SS - Sound Signal
STA - Station
STRUCT - Structure
St M - Statute Mile
TEMP - Temporary Aid Change
TMK - Topmark
TRLB - Temporarily Replaced by Lighted Buoy
TRLT - Temporarily Replaced by Light
TRUB - Temporarily Replaced by Unlighted Buoy
USACE - Army Corps of Engineers
W - White
Y - Yellow

Additional Abbreviations Specific to this LNM Edition: None

SECTION I - SPECIAL NOTICES

This section contains information of special concern to the Mariner.

PRINTABLE DIGITAL FILES OF UP-TO-DATE NOAA NAUTICAL CHARTS

NOAA's Office of Coast Survey provides up-to-date digital files of the NOAA nautical charts for federal agencies to use in performing the nation's business. Agencies may download the files and plot them or have them plotted under agency control. Send an e-mail from an official government address with a .gov or .mil extension to NauticalCharts@NOAA.gov for details. NOTE: Use of these files is limited to federal government agencies. All other users of NOAA charting products should continue to receive them from their regular suppliers. See www.NauticalCharts.NOAA.gov for information.

LNM: 26/11

NOAA PRODUCTION OF LITHOGRAPHIC CHARTS

The Federal Aviation Administration (FAA), NOAA's authorized lithographic printer, announced that the traditional printing of NOAA paper

nautical charts will be discontinued effective April 13, 2014. In the interim time period, NOAA lithographic charts will still be available from FAA and chart agents. NOAA Print-on Demand charts (POD) will continue to be available through two authorized vendors. NOAA charts are also available as NOAA Raster Navigational Charts (RNC), Electronic Navigational Charts (ENC), and as a portable document format (PDF). For more information, please visit NOAA's Office of Coast Survey's homepage at <http://www.nauticalcharts.noaa.gov/>. The POD charts produced by NOAA's POD partners are, and will continue to be considered published by NOAA, and will meet all mandatory carriage requirements as specified by navigation safety regulations: 33 CFR 164.01 and 33CFR 164.33.

LNM: 47/13

ECDIS DATA PRESENTATION AND PERFORMANCE CHECK

In order to promote safety of navigation, the International Hydrographic Organization (IHO) has produced two Electronic Navigational Chart (ENC) datasets designed to alert mariners to the possibility that their Electronic Chart and Display Information System (ECDIS) software may require upgrading. The IHO recommends that all mariners using ECDIS and ENCs visit the following website where they can find more information and instructions for using the test ENC datasets: <http://www.iho.int> > IHO News Links > ECDIS Data Presentation and Performance Check or directly from: http://www.iho.int/srv1/index.php?option=com_content&view=article&id=585&Itemid=828.

LNM: 09/12

IMPORTANT SAFETY NOTICE ABOUT THE RELIABLE OPERATION OF ECDIS

Following an announcement by the International Maritime Organization (IMO) concerning potential display anomalies in some ECDIS systems, the International Hydrographic Organization (IHO) issued an ENC Data Presentation and Performance Check in October 2011. This check is intended to assist mariners and to help determine the extent of the anomalies. IHO has received reports from mariners confirming that a number of ECDIS fail to display some significant underwater features in the "Standard" display mode. For all significant objects to be visible to the mariner, these ECDIS must be operated in "Full display" or "All display" mode until a software upgrade is made available from the manufacturer. Mariners are strongly encouraged to use the IHO ENC Data Presentation and Performance Check issued through ENC service providers and also available directly from the IHO website (www.iho.int) to check the operation of their ECDIS and to determine whether their system is affected. IHO Circular Letter 33/2012 is available on the Coast Guard's Navigation Center website (<http://www.navcen.uscg.gov>) under the heading News and Notices.

LNM: 12/12

CAUTION TO BE USED IN RELIANCE UPON AIDS TO NAVIGATION

The aids to navigation depicted on charts comprise a system of fixed and floating aids with varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid. With respect to buoys, the buoy symbol is used to indicate the approximate position of the buoy body and the sinker, which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecision-s in position fixing methods, prevailing atmospheric and sea conditions, the slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying lengths of chain, and the fact that buoy body and/or sinker positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which often occur more than a year apart. The position of the buoy body can be expected to shift inside and outside the charting symbol due to the forces of nature. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice, running ice or other natural causes, collisions, or other accidents. For the foregoing reasons, a prudent mariner must not rely completely upon the position or operation of floating aids to navigation, but will also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass close aboard always risks collision with a yawing buoy or with the obstruction the buoy marks.

US - ATLANTIC SEACOAST - NORTH ATLANTIC RIGHT WHALES WARNING - ENDANGERED NORTH ATLANTIC RIGHT WHALES

Critically endangered right whales may be encountered in offshore and coastal waters. Right whales are slow moving and at risk of serious injury or death due to collisions with vessels. U.S. law (50 CFR 224.105) prohibits operating vessels 65 feet (19.8 m) or greater in excess of 10 knots in specific managed locations along the U.S. east coast during times when right whales are likely to be present. See enclosed compliance guide for specific times, areas, and exceptions to this law. Intentionally approaching within 500 yards of right whales is prohibited and is a violation of U.S. law. A minimum distance of 500 yards must be maintained from a sighted whale unless hazardous to the vessel or its occupants. The National Oceanic and Atmospheric Administration (NOAA) recommends that operators assume that any whale sighted is a right whale unless confirmed otherwise. NOAA also recommends speeds of 10 knots or less in areas used by right whales and outside of seasonally managed areas when consistent with safety of navigation. In the northeast, please report all right whale sightings, collisions, or entanglements to 866-755-6622 or to the Coast Guard via channel 16. WHALESNORTH Mandatory Ship Reporting Area is active year-round. For more information, consult the U.S. Coast Pilot. MSR arrival reports can be sent via TELEX number 48156090 or email to rightwhale.msr@noaa.gov.

LNM: 44/15

U.S. COAST GUARD AUXILIARY – PUBLIC EDUCATION CLASSES – FIND BY ZIPCODE

The National Public Education Calendar Database provides a single, unified national database that holds and displays all public education courses taught by our various flotillas nationwide. In addition, a Zip Code search permits members of the general public to enter a Zip Code of interest, and find all public education courses being taught within a selected distance from that Zip Code. The National Public Education Calendar Database provides a single, unified national database that holds and displays all public education courses taught by our various flotillas nationwide. In addition, a Zip Code search permits members of the general public to enter a Zip Code of interest, and find all public education courses being taught within a selected distance from that Zip Code. [Http://www.cgauz.org/boatinged/class_finder/index.php](http://www.cgauz.org/boatinged/class_finder/index.php)

LNM: 20/14

WESTERN ATLANTIC AND U.S. COASTAL WATERS - NORTH CAROLINA – SUNKEN MILITARY CRAFT ACT (SMCA) –PROHIBITION ON DISTURBING, REMOVING ARTIFACTS OR DAMAGING SUNKEN CRAFT

All mariners are advised of the special protections provided to sunken military craft by the "Sunken Military Craft Act" (SMCA) (Public Law 108-375). Along the U.S. East Coast, and particularly off North Carolina, there are many sunken U.S. and foreign military craft. Sunken military craft may be the final resting places of military personnel who died in service to their country and are also important historical resources. One very notable example is the wreck of the USS MONITOR, off the NC Coast, also protected by the National Marine Sanctuaries Act. Under international and U.S. law, sunken foreign military craft, including those located in U.S. waters, remain the property of their respective country's government. Sovereign immune vessels, such as military crafts, are afforded protections under U.S. and international law. Included among these vessels are at least three known sunken German submarines (commonly called U-boats) located in waters off the North Carolina coast. These U-boats remain the property of the Federal Republic of Germany. In accordance with the SMCA, no person shall engage in or attempt to engage in any activity directed at a sunken military craft that disturbs, removes, or injures the sunken craft or the associated contents of the craft except as authorized by law. This includes, but is not limited to, the equipment, cargo, contents of the vessel, and the remains and personal effects of the crew and passengers. Mariners are urged to exercise due care when operating in the vicinity of military wrecks, as they can be damaged by both purposeful or inadvertent activities including anchoring, fishing, diving, and other marine activities. Special dangers, such as unexploded ordnance, may also be associated with sunken military craft, and should be considered when operating in these areas. Violations of the SMCA may subject individuals to penalties of up to \$100,000 and to liability for damages. Mariners who witness theft of material from, disturbance of, or damage to a sunken military craft are asked to report it to the nearest U.S. Coast Guard unit.

LNM: 45/09

SAFETY NOTICE - NAVIGATIONAL RANGE STRUCTURES ON ELECTRONIC CHARTS

The U.S. Coast Guard has become aware that Coast Guard information used to depict a rangeline on NOAA Electronic Navigational Charts (ENC) may not be of sufficient accuracy to accurately portray the rangeline on the ENC. Mariners are cautioned that the position of a rangeline as shown on an ENC may not reflect its true position.

LNM: 04/11

USCG NAVIGATIONAL INFORMATION SERVICE (NIS)/USCG NAVIGATION CENTER

The United States Coast Guard Navigational Information Service (NIS), operated by the USCG Navigation Center, is staffed 24 hours a day, 7 days a week. The NIS provides information on the current operational status, effective policies, and general information on GPS, DGPS, Navigational Rules, and maritime information. The NIS also disseminates Safety Broadcasts (BNM), Local Notice to Mariners (LNM), and the latest Notice Advisory to Navstar (NANU). These notices can also be obtained via-e-mail subscription through the USCG Navigation Center website (<http://www.navcen.uscg.gov/?pageName=gpsSubscribe>). In addition, the NIS investigates all reports of degradation or loss of GPS, DGPS and AIS service. Mariners are encouraged to report all degradation of radio navigation services to the NIS via any of the following: Phone: 703-313-5900, Email: webmaster@navcen.uscg.mil or on the World Wide Web at <http://www.navcen.uscg.gov>.

NAUTICAL CHART UPDATES

The National Ocean Service (NOS) has moved and expanded the function of its "critcorr" website. The new "Nautical Chart Updates" website allows the mariner to update their nautical charts from one database that includes information from NOS, and NGA Notice to Mariners, the Coast Guard Local Notice to Mariners and the Canadian Coast Guard Notice to Mariners. To access the website and for more information go to: and click on: <http://www.nauticalcharts.noaa.gov>.

NATIONAL OCEAN SERVICE (NOS) - CHARTS, PUBLICATIONS, AND TABLES - SALES AGENTS

Sales agents for Charts and Coast Pilots of the National Ocean Service are located in many U. S. ports and in some foreign ports. A list of authorized sales agents and chart catalogs is available free upon request from National Ocean Service, Distribution Division (N/ACC3), 6501 Lafayette Avenue, Riverdale, Maryland 20737.

USCG NATION-WIDE AUTOMATIC IDENTIFICATION SYSTEM (NAIS) NETWORK TESTING

On August 10, 2015, the U.S. Coast Guard will begin AIS Application Specific Message (AIS-ASM) testing. The test transmissions will occur between 0001-2359Z, 7 days/week. The test messages can be identified by their Maritime Mobile Service (MMSI) number: 300669139 or 00366613 and by the words "USCG TEST" within the contents of the message. Mariners are requested to contact the USCG Navigation Center at 1-703-313-5900 or TIS-PF-NISWS@uscg.mil with any questions, comments, or to report any safety and/or operational impacts caused by this testing.

Application Specific Messages to be tested include: messages 6, 8, 25, and 26, DAC=367, FI's=22, 29, 33, 35; AIS Safety Related Text (SRM) messages: 8 (DAC=001, FI=0) and 14. The messages will be of various lengths, using repetitions of the text "USCG TEST". For further information on AIS messages, DACs, and FI's visit <http://www.navcen.uscg.gov/?pageName=AIMessages>.

LNM: 31/15

BROADCAST NOTICES TO MARINERS

This section contains corrections to federal and private Aids to Navigation, as well as NOS Corrections. Navigation information having been of immediate concern to the Mariner and promulgated by the following Broadcast Notices to Mariners (BMNs) have been incorporated in this notice when still significant at the date of this publication.

CCGD5 (D5) - 622, 623, 624-15.

Sector Delaware Bay (DB) - 661, 665, 675, 676, 677, 678-15, 001, 002, 003, 004-16.

Sector Baltimore (BA) - 533, 534, 535, 537, 538, 540-15.

Sector Hampton Roads (HR) - 007-16, 006-16, 005-16, 004-16, 003-16, 002-16, 591-15, 589-15, 586-15, 585-15, 573-15, 566-15, 565-15, 552-15, 551-15, 549-15, AND 481-15.

Sector North Carolina (NC) - 656-15, 657, 658, 659, 660, 662, 663-15, 001, 002, 003-16.

SECTION II - DISCREPANCIES

This section lists all reported and corrected discrepancies related to Aids to Navigation in this edition. A discrepancy is a change in the status of an aid to navigation that differs from what is published or charted.

DISCREPANCIES (FEDERAL AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
60	Absecon Inlet Lighted Buoy 1	MISSING	12316	677DB	01/16	
91	Hereford Inlet Lighted Wreck Buoy WR2	MISSING	12316	462DB	35/15	
220	Great Gull Bank Lighted Buoy 4	MISSING	12211	504D5	41/15	
350	Cape Charles Light	LT EXT	12222	384HR	18/13	
485	Chesapeake Bay Southern Approach Lighted Buoy 15	LT EXT	12200	003HR	01/16	
585	Navy Air Combat Maneuvering Range Tower Light G	LT EXT	12200	407NC	27/12	
825	Frying Pan Shoals Slough Buoy 1	MISSING	11536	191NC	14/15	
925	Barnegat Inlet Lighted Buoy 4	MISSING	12324	362DB	26/15	
1170	Absecon Inlet Lighted Buoy 1	MISSING	12316	677DB	01/16	
1270	Great Egg Harbor Inlet Lighted Buoy 1	OFF STA	12316	620DB	47/15	
1275	Great Egg Harbor Inlet Lighted Buoy 2	OFF STA	12316	621DB	47/15	
1290	Great Egg Harbor Inlet Junction Lighted Buoy GH	OFF STA	12316	656DB	50/15	
2097	Rehoboth Bay Channel Light 2	LT EXT	12216	584DB	44/15	
2145	Rehoboth Bay Channel Daybeacon 17B	STRUCT DEST	12216	415DB	29/15	
2490	Baker Range Light 2B	DAYMK MISSING/STRUCT DMGD	12311	615DB	46/15	
2505	Baker Range Front Light	REDUCED INT	12311	483D5	37/15	
2510	Baker Range Rear Light	LT EXT	12311	164DB	08/14	
2925	Deepwater Point Range Lighted Bell Buoy 2D	LT EXT	12311	002DB	01/16	
3230	Chester Range Front Light	LT EXT	12312	472DB	36/15	
4150	Kinkora Upper Range Rear Light	LT EXT	12314	616DB	47/15	
4155	Upper Delaware River Channel Lighted Buoy 71	OFF STA	12314	676DB	52/15	

4785	Isle of Wight Bay Warning Buoy C	OFF STA	12211	121BA	08/15
4870	Isle of Wight Bay Light 13	TRLB/STRUCT DEST	12211	121BA	09/15
4871	Isle Of Wight Bay Light 14	TRLB/STRUCT DEST	12211	121BA	09/15
5010	Sinepuxent Bay Channel Light 4	STRUCT DEST/TRLB	12211	491BA	08/15
5037	Sinepuxent Bay Channel Buoy 10A	MISSING	12211	121BA	08/15
5042	Sinepuxent Bay Channel Lighted Buoy 11	OFF STA	12211	492BA	45/15
5045	Sinepuxent Bay Channel Daybeacon 11A	TRLB/STRUCT DEST	12211	408BA	31/15
5070	Sinepuxent Bay Channel Wreck Light WR16	MISSING/TRLB	12211	345BA	26/15
5075	Sinepuxent Bay Channel Daybeacon 17	TRLB/STRUCT DEST	12211	006BA	02/15
5105	Sinepuxent Bay Channel Buoy 27	MISSING	12211	179BA	13/15
5120	Sinepuxent Bay Channel Buoy 29	MISSING	12211	182BA	13/15
5130	Sinepuxent Bay Channel Buoy 33	MISSING	12211	493BA	45/15
5135	Sinepuxent Bay Channel Daybeacon 35	TRUB/STRUCT DEST	12211	184BA	13/15
5145	Sinepuxent Bay Channel Light 39	TRLB/STRUCT DEST	12211	186BA	13/15
5200	Chincoteague Bay Light 28	TRUB/STRUCT DEST	12211	188BA	13/15
5205	Chincoteague Bay Daybeacon 26	TRUB/STRUCT DEST	12211	189BA	13/15
5215	Chincoteague Bay Daybeacon 23	TRUB/STRUCT DEST	12211	190BA	13/15
5220	Chincoteague Bay Light 21	TRLB/STRUCT DEST	12211	191BA	13/15
5235	Chincoteague Bay Daybeacon 19	TRLB/STRUCT DEST	12211	192BA	13/15
5420	Chincoteague Bay Channel Daybeacon 4	TRLB/STRUCT DEST	12211	217HR	10/15
5425	Chincoteague Bay Channel Daybeacon 6	TRUB/STRUCT DEST	12211	218HR	10/15
5430	Chincoteague Bay Channel Light 8	TRUB/STRUCT DEST	12211	219HR	10/15
5435	Chincoteague Bay Channel Light 9	TRUB/STRUCT DEST	12211	220HR	10/15
5445	Chincoteague Bay Channel Light 12	TRLB/STRUCT DMGD	12211	221HR	11/15
5450	Chincoteague Bay Channel Daybeacon 14	TRUB/STRUCT DEST	12211	222HR	11/15
5455	Greenbackville Light 1	STRUCT DEST/TRLB	12211	522HR	41/15
5477	Chincoteague Bay Daybeacon 16A	TRUB/STRUCT DEST	12211	223HR	11/15
5485	Chincoteague Bay Daybeacon 19	TRLB/STRUCT DEST	12211	192BA	13/15
5487	Chincoteague Bay Daybeacon 20	MISSING/TRLB	12211	258HR	16/15
5490	Chincoteague Bay Light 21	TRLB/STRUCT DEST	12211	191BA	13/15
5495	Chincoteague Bay Daybeacon 23	TRUB/STRUCT DEST	12211	190BA	13/15
5505	Chincoteague Bay Daybeacon 26	TRUB/STRUCT DEST	12211	189BA	13/15
5510	Chincoteague Bay Light 28	TRUB/STRUCT DEST	12211	188BA	13/15
5610	Virginia Inside Passage Lighted Buoy 7	MISSING	12210	073HR	08/14
5755	Virginia Inside Passage Daybeacon 49	STRUCT DEST	12210	306HR	20/15
5767	Virginia Inside Passage Daybeacon 52	DAYMK MISSING	12210	242HR	26/14
5772	Virginia Inside Passage Buoy 55	MISSING	12210	111HR	12/13
5773	Virginia Inside Passage Buoy 55A	MISSING	12210	386HR	41/12
5776	Virginia Inside Passage Buoy 57	MISSING	12210	241HR	26/14
5777	Virginia Inside Passage Buoy 59	MISSING	12210	387HR	41/12
5820	Virginia Inside Passage Warning Daybeacon B	DAYMK MISSING	12210	470HR	50/12
5850	Virginia Inside Passage Light 80	LT EXT/DAYMK MISSING	12210	284HR	18/15
5870	Virginia Inside Passage Daybeacon 82	STRUCT DEST	12210	285HR	18/15
5875	Virginia Inside Passage Daybeacon 84	DAYMK MISSING	12210	286HR	18/15
5885	Virginia Inside Passage Light 87	STRUCT DEST	12210	264HR	17/15
5930	Virginia Inside Passage Daybeacon 102	DAYMK MISSING	12210	265HR	17/15
5935	Virginia Inside Passage Daybeacon 103	STRUCT DEST/DAYMK MISSING	12210	266HR	17/15
5940	Virginia Inside Passage Daybeacon 105	STRUCT DEST	12210	267HR	17/15
5945	Virginia Inside Passage Daybeacon 106	STRUCT DEST	12210	261HR	17/15
5955	Virginia Inside Passage Buoy 110	MISSING	12210	425HR	45/12
6030	Virginia Inside Passage Daybeacon 131	STRUCT DEST	12210	209HR	22/13
6035	Virginia Inside Passage Daybeacon 132	STRUCT DEST	12210	210HR	22/13

6045	Virginia Inside Passage Daybeacon 136	DAYMK MISSING	12210	055HR	07/15
6050	Virginia Inside Passage Lighted Buoy 137	MISSING	12210	040HR	05/14
6115	Virginia Inside Passage Daybeacon 153	DAYMK MISSING	12210	056HR	07/15
6137	Virginia Inside Passage Daybeacon 157B	DAYMK MISSING	12210	057HR	07/15
6139	Virginia Inside Passage Buoy 158A	OFF STA	12210	354HR	35/13
6145	Virginia Inside Passage Light 160	DAYMK MISSING	12210	058HR	07/15
6160	Virginia Inside Passage Daybeacon 163	STRUCT DEST	12210	226HR	14/15
6170	Virginia Inside Passage Daybeacon 165	DAYMK MISSING	12210	059HR	07/15
6180	Virginia Inside Passage Light 169	STRUCT DMGD	12210	060HR	07/15
6210	Virginia Inside Passage Light 180	STRUCT DMGD	12210	384HR	36/11
6260	Virginia Inside Passage Buoy 194	MISSING	12210	215HR	23/13
6355	Virginia Inside Passage Light 215	LT EXT	12224	323HR	32/13
6485	Virginia Inside Passage Daybeacon 244	TRLB/STRUCT DEST	12224	339HR	44/12
6495	Virginia Inside Passage Daybeacon 245A	MISSING/TRUB	12224	420HR	22/15
6570	Virginia Inside Passage Buoy 263	MISSING	12224	338HR	22/15
6675	Wachapreague Channel Light 9	TRLB/STRUCT DEST	12210	447HR	08/15
6736	Quinby Inlet Channel Buoy 2	MISSING	12210	350HR	35/13
6736.1	Quinby Inlet Channel Buoy 2A	MISSING	12210	351HR	35/13
6740	Quinby Inlet Channel Lighted Buoy 4	MISSING	12210	352HR	35/13
6745	Virginia Inside Passage Light 160	DAYMK MISSING	12210	058HR	07/15
6766	Quinby Creek Buoy 5	MISSING	12210	218HR	23/13
6776	Quinby Creek Lighted Buoy 9	MISSING	12210	129HR	18/12
6780	Quinby Creek Light 11	MISSING/STRUCT DEST	12210	353HR	35/13
6820	Great Machipongo Inlet Light 5	LT EXT	12224	559HR	49/15
6855	Great Machipongo Inlet Daybeacon 13	TRLB/STRUCT DEST	12210	467HR	34/15
6991	Sand Shoal Channel Daybeacon 3	STRUCT DEST	12224	421HR	29/15
6993	Sand Shoal Channel Daybeacon 5	STRUCT DEST	12224	422HR	29/15
7275	Chesapeake Channel Lighted Buoy 42	RAC INOP	12226	424HR	29/15
7440	Chesapeake Channel Lighted Buoy 62	RAC INOP	12225	423HR	29/15
7450	USN Aerial Gunnery Area Warning Daybeacon A	STRUCT DEST/HAZ NAV/TRLB	12228	500BA	45/15
9470	Elizabeth River Channel Lighted Gong Buoy 5	REDUCED INT	12245	007HR	01/16
10030	Elizabeth River Southern Branch Light 20	STRUCT DEST/TRLB	12253	529HR	41/15
10130	Lynnhaven Inlet Light 1L	LT EXT	12254	002HR	01/16
10145	Lynnhaven Inlet Buoy 6	OFF STA	12254	591HR	01/16
10520	Little Creek Harbor Light 5	STRUCT DEST/TRLB	12255	514HR	40/15
10575	Willoughby Bay Channel Daybeacon 1	TRLB/STRUCT DEST	12245	164HR	10/15
11995	Jamestown Island Daybeacon 2	STRUCT DEST	12248	208HR	13/15
13497	York River East Range Rear Light	LT EXT	12241	298HR	19/15
13555	York River West Range Rear Light	LT IMCH	12238	493HR	49/14
13925	Upper York River Channel Light 13	LT EXT	12243	346HR	23/15
15395	Morattico Creek Daybeacon 2	STRUCT DMGD	12237	177HR	11/15
17260	Wicomico River Warning Daybeacon	DAYMK MISSING	12286	323BA	24/15
18345	Upper Potomac River Channel Lighted Buoy 59	LT EXT	12289	535BA	52/15
19900	Eastport Harbor Daybeacon 7	STRUCT DEST/TRLB	12283	533BA	50/15
21500	Cape Charles City Light 11	LT EXT	12224	586HR	52/15
21605	Hungar Creek Daybeacon 2	MISSING/TRLB	12226	280HR	26/14
21615	Hungar Creek Daybeacon 5	TRLB/STRUCT DEST	12226	085HR	08/15
21784	Nandua Creek Channel Daybeacon 8	TRUB/STRUCT DEST	12226	197HR	12/15
21790	Nandua Creek Channel Warning Daybeacon F	DAYMK MISSING	12226	203HR	12/15
21792	Nandua Creek Channel Daybeacon 9	TRUB/STRUCT DEST	12226	456HR	33/15
21805	Nandua Creek Channel Daybeacon 13	STRUCT DMGD	12226	199HR	12/15
21820	Nandua Creek Channel Daybeacon 17	TRLB/STRUCT DMGD	12226	200HR	12/15
21825	Nandua Creek Channel Daybeacon 19	TRUB/STRUCT DEST	12226	201HR	12/15

21830	Nandua Creek Channel Daybeacon 21	TRUB/STRUCT DEST	12226	202HR	12/15
22030	Onancock Creek Channel Daybeacon 20	DAYMK MISSING	12228	578HR	50/15
22140	Chesconessex Creek Daybeacon 4	TRUB/STRUCT DEST	12228	318HR	21/15
22475	Starling Creek Daybeacon 6	TRUB/STRUCT DEST	12228	330HR	22/15
22630	Upper Pocomoke River Daybeacon 8	TRUB/STRUCT DEST	12228	504BA	41/14
23410	Goose Creek Channel Daybeacon 6	TRLB/STRUCT DEST	12231	121BA	11/15
24601	Tar Bay Warning Daybeacon A	STRUCT DEST/DAYMK MISSING	12261	526BA	51/15
25855	Tilghman Island Harbor Lighted Buoy 5	OFF STA	12266	540BA	01/16
27145	Wilson Point Junction Light	LT EXT	12278	537BA	01/16
28035	Oregon Inlet Buoy 15	OFF STA	12204	633NC	49/15
28410	Roanoke Sound Channel Daybeacon 12	TRLB/STRUCT DEST	12204	293NC	21/15
28775	Hatteras Inlet Channel Daybeacon 23	TRUB/STRUCT DEST	11555	435NC	30/15
28815	Rollinson Channel Light 30	STRUCT DEST/TRLB	11555	560NC	37/15
28830	Rollinson Channel Light 34	STRUCT DEST/TRLB	11555	647NC	50/15
28870	Austin Creek Entrance Channel Light 1	STRUCT DEST/TRLB	11555	652NC	50/15
28875	Austin Creek Light 2	STRUCT DEST/TRLB	11555	612NC	46/15
29130	Lookout Bight Lighted Buoy 4	LT EXT	11545	001NC	01/16
29300	Harkers Island East Channel Light 10	TRLB/STRUCT DEST	11545	222NC	16/13
29345	Beaufort Inlet Channel Lighted Buoy 7	LT EXT	11547	660NC	52/15
29380	Beaufort Inlet Channel Lighted Gong Buoy 15	OFF STA/LT EXT	11547	535NC	40/15
29435	Morehead City Channel Range Rear Light	STRUCT DEST	11547	389NC	27/14
29590	Swansboro Harbor Buoy 2	OFF STA	11541	663NC	01/16
29945	New River Channel Daybeacon 53	TRUB/STRUCT DEST	11542	329NC	24/15
30090	Banks Channel Daybeacon 9A	TRUB/STRUCT DEST	11541	246NC	15/15
30130	Banks Channel Daybeacon 19	TRUB/STRUCT DEST	11541	276NC	20/15
30140	New River To Cape Fear River Junction Light BC	TRLB/STRUCT DEST	11541	175NC	12/15
30200	Wrightsville Channel Junction Daybeacon WC	TRUB/STRUCT DEST	11541	198NC	14/15
30270	Carolina Beach Inlet Buoy 2	OFF STA	11534	529NC	41/15
30270	Carolina Beach Inlet Buoy 2	OFF STA	11534	630NC	49/15
30280	Carolina Beach Inlet Buoy 4	MISSING	11534	530NC	41/15
30310	Cape Fear River Entrance Range Front Light	REDUCED INT DAYTIME	11534	027D5	03/15
30312	Cape Fear River Entrance Range Rear Light	REDUCED INT DAYTIME	11534	026D5	03/15
30491	Federal Point Range Front Light	STRUCT DEST	11534	436NC	32/15
31125	Calabash Creek Light 4	STRUCT DEST/TRLB	11534	568NC	43/15
31170	Whale Head Bay Light 1	TRLB/STRUCT DEST	12204	263NC	18/15
31976	Roanoke Marshes Warning Daybeacon	STRUCT DEST	12204	467NC	35/15
32360	Bluff Shoal Light Bl	LT EXT	11548	619NC	47/15
33010	Pungo River Channel Daybeacon 15	STRUCT DEST/TRLB	11553	561NC	43/15
33135	South Creek Channel Daybeacon 7	TRUB/STRUCT DEST	11554	393NC	28/15
33490	Cedar Island North Light	LT EXT/DAYMK MISSING/STRUCT DMGD	11550	045NC	29/14
33535	West Bay Light 7WB	DAYMK MISSING	11544	498NC	38/15
33801	Dawson Creek Entrance Buoy 4	OFF STA	11552	662NC	52/15
34315	Trent River Daybeacon 20	TRLB/STRUCT DEST	11552	523NC	39/15
34335	Core Sound Buoy 3A	OFF STA	11550	038NC	05/15
34840	Beaufort Harbor Channel Daybeacon 8	STRUCT DEST/TRUB	11547	569NC	43/15
35400	New Jersey Intracoastal Waterway Daybeacon 102	TRLB/STRUCT DEST	12316	268DB	18/15
36009	New Jersey Intracoastal Waterway Buoy 263A	MISSING	12316	625DB	48/15
36880	Elizabeth River Southern Branch Light 20	STRUCT DEST/TRLB	12253	529HR	41/15

37640	Great Bridge to Albemarle Sound Light 123	STRUCT DEST/TRLB	12206	603NC	46/15
38080	Pungo River Channel Daybeacon 15	STRUCT DEST/TRLB	11553	561NC	43/15
38155	Goose Creek Daybeacon 4	STRUCT DEST/TRLB	11553	629NC	48/15
38325	Adams Creek Daybeacon 6	STRUCT DEST/TRUB	11541	611NC	46/15
38731	Causeway Channel Buoy 5A	MISSING	11547	656NC	51/15
38825	Peletier Creek Entrance Channel Daybeacon 2	TRUB/STRUCT DEST	11541	502NC	38/15
39205	Bogue Sound - New River Light 55	TRLB/STRUCT DEST	11541	462NC	34/15
39225	Bogue Sound - New River Daybeacon 63	TRUB/STRUCT DEST	11541	316NC	23/15
39290	Bogue Sound - New River Daybeacon 70	TRUB/STRUCT DEST	11541	142NC	10/15
39520	New River To Cape Fear River Junction Light BC	TRLB/STRUCT DEST	11541	175NC	12/15
39547	New River - Cape Fear River Buoy 99	OFF STA	11541	NONENC	51/15
39575	New River - Cape Fear River Daybeacon 108	TRUB/STRUCT DEST	11541	369NC	27/15
39705	New River - Cape Fear River Daybeacon 150	TRUB/STRUCT DEST	11534	NONENC	33/15
39740	New River - Cape Fear River Daybeacon 156	TRLB/STRUCT DEST	11534	186NC	13/15
39750	New River - Cape Fear River Daybeacon 159	TRLB/STRUCT DEST	11534	051NC	06/15
39836	New River - Cape Fear River Daybeacon 164	TRUB/STRUCT DEST	11534	486NC	36/15
39966	Federal Point Range Front Light	STRUCT DEST	11534	436NC	32/15
40095	Cape Fear River - Little River Light 18	STRUCT DEST/TRLB	11534	558NC	43/15
40195	Cape Fear River - Little River Daybeacon 39	STRUCT DEST/TRUB	11534	559NC	42/15
40305	Cape Fear River - Little River Daybeacon 71	TRUB/STRUCT DEST	11534	477NC	36/15
40365	Cape Fear River - Little River Daybeacon 87	STRUCT DEST/TRLB	11534	602NC	42/15
40395	Cape Fear River - Little River Daybeacon 97	STRUCT DEST/TRLB	11534	548NC	42/15
40445	Cape Fear River - Little River Daybeacon 115	STRUCT DEST/TRUB	11534	592NC	45/15

DISCREPANCIES (FEDERAL AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
3845	Enterprise Upper Range Rear Light	RELIGHTED	12314	679DB	01/16	01/16
9255	Thimble Shoal Channel Lighted Bell Buoy 9	WATCHING PROPERLY	12254	581HR	51/15	01/16
9665	Craney Island Creek Light 2CI	RELIGHTED	12245	001HR	01/16	01/16
10495	Little Creek Harbor Range Front Light	RELIGHTED	12255	590HR	01/16	01/16
21145	Seagirt Marine Terminal West Channel Lighted Buoy 4	RELIGHTED	12281	539BA	01/16	01/16
21370	North Channel Buoy 4	RESET ON STATION	12222	503HR	39/15	01/16

DISCREPANCIES (PRIVATE AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
9	Ocean Power Lighted Data Buoy A	MISSING	12323	585DB	49/13	
793.6	NC Artificial Fishing Reef Buoy AR366	MISSING	11539	282NC	19/14	
819	NC Artificial Fishing Reef Buoy AR425	MISSING	11520	079NC	04/14	
1690	Bidwell Creek Entrance Light 2	LT EXT	12304	NONEAC	37/06	
1960	Fortescue Creek Entrance Buoy 4	OFF STA	12304	NONEDB	17/13	
2035	Lewes Breakwater Front Light	LT EXT	12216	282DB	27/13	
2137	Bakers Channel Lighted Buoy 1B	BUOY DMGD/LT EXT	12216	592DB	44/15	
4346	Upper Delaware River Pipeline Outfall Buoy	MISSING	12314	129DB	18/12	
4900	Thorofare Channel Buoy 10	OFF STA	12211	121BA	09/15	

4925	Ocean Pines Yacht Club Light 2	LT EXT	12211	398BA	29/15
4991.16	Little Assawoman Bay Daybeacon 15	DAYMK MISSING	12211	491HR	38/15
4991.22	Little Assawoman Bay Daybeacon 21	STRUCT DMGD	12214	490HR	38/15
5165	Chincoteague Bay State Boundary Line Buoy B	DAYMK IMCH	12211	528HR	46/12
5165	Chincoteague Bay State Boundary Line Buoy B	OFF STA	12211	024HR	04/14
5175	Chincoteague Bay State Boundary Line Buoy D	DAYMK IMCH	12211	429HR	46/12
5180	Chincoteague Bay State Boundary Line Buoy E	DAYMK IMCH	12211	430HR	46/12
5185	Chincoteague Bay State Boundary Line Buoy F	MISSING	12211	431HR	46/12
5190	Chincoteague Bay State Boundary Line Buoy G	DAYMK IMCH	12211	432HR	46/12
5265	George Island Channel Daybeacon 8	DAYMK IMCH	12211	346HR	38/12
5453	Coards Marsh Sanctuary Daybeacon A	STRUCT DEST	12211	433HR	46/12
5453.1	Coards Marsh Sanctuary Daybeacon B	STRUCT DEST	12211	434HR	46/12
5453.2	Coards Marsh Sanctuary Daybeacon C	STRUCT DEST	12211	435HR	46/12
5457	Greenbackville Sanctuary Daybeacon A	DAYMK DMGD	12211	476HR	43/11
5457.1	Greenbackville Sanctuary Daybeacon B	DAYMK DMGD	12211	477HR	43/11
7669	UMCES Lighted Data Buoy JI	MISSING	12264	439BA	36/14
7860	Bay Bridge Marina Light 5	LT EXT	12270	350BA	44/12
9853	Elizabeth River Town Point Reach No Wake Buoy A	OFF STA	12253	328HR	35/14
10125	Lynnhaven Roads Fishing Pier Lights (2)	MISSING	12254	319HR	31/13
10186	Lynnhaven River Daybeacon 1LR	STRUCT DEST	12254	080HR	08/15
10762.03	Lafayette River Northern Branch Daybeacon 3	DAYMK MISSING	12245	251HR	26/14
10762.1	Lafayette River Northern Branch Daybeacon 12	DAYMK MISSING	12245	252HR	26/14
12127	Glasshouse Point Lower Ferry Light	LT EXT	12251	367HR	24/15
12950	Back River South Channel Daybeacon 2	STRUCT DEST	12238	332HR	24/13
12958	Back River South Channel Daybeacon 8	DAYMK MISSING	12238	193HR	12/15
13050	Harris River Approach Daybeacon 3	DAYMK MISSING	12238	036HR	06/12
13050	Harris River Approach Daybeacon 3	DAYMK MISSING	12238	168HR	20/14
13065	Harris River Approach Daybeacon 6	OFF STA	12238	169HR	20/14
13065	Harris River Approach Daybeacon 6	OFF STA/DAYMK DMGD	12238	037HR	06/12
14940	Windmill Point Marina Light 3	LT EXT	12235	348HR	23/12
15005	Broad Creek Northern Branch Daybeacon 1N	DAYMK DMGD	12235	234HR	24/13
15050	Broad Creek Northern Branch Daybeacon 12	DAYMK MISSING	12235	431HR	49/14
16275	Buzzards Point Daybeacon 3	DAYMK DMGD	12235	390HR	26/15
16555	Lake Conoy Warning Daybeacon A	MISSING	12233	251BA	19/10
16612	Coan River Marina Buoy 1	MISSING	12233	121BA	10/15
16613	Coan River Marina Buoy 2	MISSING	12233	121BA	10/15
16614	Coan River Marina Buoy 3	MISSING	12233	121BA	10/15
16853	Potomac River Sandy Point Lighted Data Buoy A	MISSING	12233	282BA	20/14
17845	Nanjemoy Creek Buoy 5	OFF STA	12288	497BA	45/15
18014	Aquia Creek Daybeacon 31	DAYMK IMCH	12288	422BA	34/14
18014.1	Aquia Creek Daybeacon 32	DAYMK DMGD	12288	NONEBA	34/14
18014.2	Aquia Creek Daybeacon 33	DAYMK IMCH	12288	423BA	34/14
18014.3	Aquia Creek Daybeacon 34	DAYMK DMGD	12288	424BA	34/14
18075	Possum Point Pier Light	LT EXT	12288	448BA	37/15
18170	Leesylvania Park Light 2	LT EXT	12288	449BA	37/15
18793.1	Tanner Creek Warning Daybeacon A	DAYMK MISSING	12233	179BA	23/13
18793.2	Tanner Creek Daybeacon 1	DAYMK MISSING	12233	178BA	23/13

19152	Academy Of Natural Science Intake Light B	STRUCT DEST/HAZ NAV	12264	121BA	08/15
19612	South River Warning Buoy A	MISSING	12270	039BA	06/13
19613	South River Warning Buoy B	MISSING	12270	040BA	06/13
20063	Severn River - Mill Creek Buoy 11	SINKING	12283	238BA	16/15
20210	Forked Creek Daybeacon 2	DAYMK MISSING	12282	240BA	18/14
21175	Fairfield Channel Buoy 2	MISSING	12281	036BA	08/12
21180	Fairfield Channel Buoy 4	MISSING	12281	037BA	08/12
21180	Fairfield Channel Buoy 4	OFF STA	12281	286BA	37/12
21185	Fairfield Channel Buoy 6	MISSING	12281	233BA	17/07
21362	North Locust Point Marine Terminal Pier 7 Warning Buoy A	MISSING	12281	569BA	01/15
22095	Onancock Creek -South Branch Buoy 1	OFF STA	12228	292BA	30/08
22430	Pocomoke Sound State Boundary Line Daybeacon H	TRUB/STRUCT DEST	12228	165BA	13/15
22440	Pocomoke Sound State Boundary Line Daybeacon K	TRUB/STRUCT DEST	12228	NONEBA	31/15
22985	Ward Creek Warning Daybeacon A	MISSING	12231	503BA	31/05
23315	Jones Creek Daybeacon 4	DAYMK MISSING	12231	402BA	44/08
23340	Jones Creek Daybeacon 12	DAYMK DMGD	12231	620BA	45/11
23670	Dorchester/Somerset County Line Marker DD	TRUB/STRUCT DEST	12231	166BA	13/15
23715	Dames Quarter Creek Channel Daybeacon 4	OFF STA/TRUB	12261	242BA	24/07
25010	Cambridge Municipal Yacht Basin Light 1	MISSING	12266	316BA	40/12
25015	Cambridge Municipal Yacht Basin Light 2	MISSING	12266	317BA	40/12
25020	Cambridge Channel Range Front Light	LT EXT	12268	420BA	46/08
25025	Cambridge Channel Range Rear Light	LT EXT/DAYMK DMGD	12268	418BA	46/08
25330	Pier Street Marina Daybeacon 1	STRUCT DEST/HAZ NAV	12266	157BA	20/13
25335	Pier Street Marina Daybeacon 2	STRUCT DEST/HAZ NAV	12266	168BA	21/13
25760	Upper Edge Creek Daybeacon 5	STRUCT DEST/HAZ NAV	12266	011BA	02/15
26225	Oak Creek Warning Buoy	STRUCT DEST	12270	265BA	35/12
26275	Cox Creek Daybeacon 5	MISSING	12270	184BA	24/13
26343	Greenwood Creek Buoy 1G	OFF STA	12270	NONEBA	12/15
26343.1	Greenwood Creek Buoy 2	OFF STA	12270	NONEBA	12/15
26343.2	Greenwood Creek Buoy 3	OFF STA	12270	NONEBA	12/15
26343.3	Greenwood Creek Buoy 4	OFF STA	12270	NONEBA	12/15
26343.4	Greenwood Creek Buoy 5	OFF STA	12270	NONEBA	12/15
26343.5	Greenwood Creek Buoy 6	OFF STA	12270	NONEBA	12/15
26343.6	Greenwood Creek Buoy 8	OFF STA	12270	NONEBA	12/15
26343.7	Greenwood Creek Buoy 10	OFF STA	12270	NONEBA	12/15
26343.8	Greenwood Creek Buoy 12	OFF STA	12270	NONEBA	12/15
26343.9	Greenwood Creek Buoy 13	OFF STA	12270	NONEBA	12/15
26990	Shallow Creek Daybeacon 9	DAYMK MISSING	12278	NONEBA	20/11
27230	Upper Gunpowder River Buoy 2	MISSING	12274	280BA	19/15
27240	Upper Gunpowder River Buoy 4	MISSING	12274	279BA	19/15
27245	Upper Gunpowder River Daybeacon 5	STRUCT DEST	12274	278BA	19/14
27250	Upper Gunpowder River Buoy 6	MISSING	12274	277BA	19/15
27255	Upper Gunpowder River Buoy 7	MISSING	12274	276BA	19/15
27265	Upper Gunpowder River Buoy 9	OFF STA	12274	275BA	19/15
27270	Upper Gunpowder River Buoy 10	OFF STA	12274	274BA	19/15
27280	Upper Gunpowder River Daybeacon 12	OFF STA	12274	273BA	19/15
27415	Fairlee Creek Buoy 8	OFF STA/BUOY DMGD	12278	361BA	28/14
27920	Upper Elk River Buoy 8	OFF STA	12274	127BA	16/13
27925	Upper Elk River Buoy 9	OFF STA	12274	128BA	16/13
31060	Shalotte Inlet Buoy 2	MISSING	11534	005NC	01/14
31087	Shalotte Inlet Buoy 9	MISSING	11534	317NC	23/13
33427.5	Swan Point Warning Daybeacon B	DAYMK MISSING	11552	177NC	12/15

33428	Swan Point Warning Light C	DAYMK MISSING	11552	178NC	12/15
33428.5	Swan Point Warning Daybeacon D	DAYMK MISSING	11552	179NC	12/15
35230	Manahawkin Bay Lower Warning Light	LT EXT	12324	371DB	32/13
35780	Absecon Waterway Upper Pier Light	LT IMCH	12316	521DB	38/14
35785	Absecon Waterway Lower Pier Light	LT IMCH	12316	522DB	38/14
36777.3	Cape May Village Daybaecon 4	STRUCT DEST	12316	556DB	41/15
39621.2	Bradley Creek Light 2	DAYMK DMGD	11541	NONENC	01/16
39621.3	Bradley Creek Daybeacon 3	DAYMK DMGD	11541	NONENC	01/16
	Asquith Creek Daybeacon 6	DAYMK IMCH	12282	520BA	45/14
	Back River Buoy 6	BUOY DMGD		263BA	33/13
	Beach Cove South Channel Daybeacon 8	MISSING	12216	NONEAC	10/06
	Cherrystone Artifical Reef Buoys	MISSING	12221	NONED5	24/05
	Cox Creek Channel Buoy 6 (Patapsco)	ADRIFT	12278	296BA	36/13
	Cox Creek Channel Buoy 7 (Patapsco)	ADRIFT	12278	297BA	36/13
	East Cod Creek Daybeacon 4	DAYMK MISSING	12233	120BA	21/12
	East Cod Creek Daybeacon 6	DAYMK DMGD	12285	318BA	26/09
	Fox Hill Channel Daybeacon 4	DAYMK DMGD	12238	173HR	23/12
	Fox Hill Channel Daybeacon 6	STRUCT DEST	12238	174HR	23/12
	Grassy Sound North Pier Light	MISSING	12316	0068AC	41/12
	Grassy Sound South Pier Light	MISSING	12316	0069AC	41/12
	Harris River Approach Daybeacon 10	DAYMK DMGD	12238	NONEHR	05/12
	Indian River Bay Shellfish Excl. Buoy	MISSING	12216	NONEAC	08/12
	Little Cove Point Warning Light C	STRUCT DEST	12264	286BA	36/13
	Old House Cove Warning Daybeacon A	MISSING	12231	0498BA	31/05
	Old House Cove Warning Daybeacon B	MISSING	12231	0499BA	31/05
	Old House Cove Warning Daybeacon C	MISSING	12231	0500BA	31/05
	Parramore Artifical Reef Buoy	MISSING	12210	0071ES	21/05
	Shark River Light 5	LT EXT		395DB	28/15
	VIMS Clay Bank Lighted Data Buoy A	MISSING	12243	NONEHR	14/14
	VIMS Clay Bank Lighted Data Buoy B	MISSING	12243	NONEHR	14/14
	VIMS Clay Bank Lighted Data Buoy C	MISSING	12241	NONEHR	14/14
	Vims Water Qual Monitor Device (3)	MISSING		NONEHR	14/14
	Wachapreague Artifical Reef Buoys	MISSING	12210	0072ES	21/05

DISCREPANCIES (PRIVATE AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
None						

PLATFORM DISCREPANCIES

Name	Status	Position	BNM Ref.	LNM St	LNM End
None					

PLATFORM DISCREPANCIES CORRECTED

Name	Status	Position	BNM Ref.	LNM St	LNM End
None					

SECTION III - TEMPORARY CHANGES and TEMPORARY CHANGES CORRECTED

This section contains temporary changes and corrections to Aids to Navigation for this edition. When charted aids are temporarily relocated for dredging, testing, evaluation, or marking an obstruction, a temporary correction shall be listed in Section IV giving the new position.

TEMPORARY CHANGES

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
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802	NOAA Lighted Data Buoy 41036 (ODAS)	DISCONTINUED	11520	008D5	02/15
1540	Delaware Bay Main Channel Lighted Buoy 10	RELOCATED FOR DREDGING	12214	140D5	12/15
1550	Delaware Bay Main Channel Lighted Buoy 12	RELOCATED FOR DREDGING	12214	140D5	12/15
1565	Delaware Bay Main Channel Lighted Buoy 14	RELOCATED FOR DREDGING	12214	140D5	12/15
1570	Delaware Bay Main Channel Lighted Buoy 16	RELOCATED FOR DREDGING	12304	140D5	12/15
1590	Delaware Bay Main Channel Lighted Buoy 25	RELOCATED FOR DREDGING	12304	140D5	12/15
3680	Upper Delaware River Channel Lighted Buoy 8	RELOCATED FOR DREDGING	12314	392D5	32/15
3735	Upper Delaware River Channel Lighted Buoy 15	RELOCATED FOR DREDGING	12314	573D5	48/15
3860	Upper Delaware River Channel Lighted Buoy 30	RELOCATED FOR DREDGING	12314	573D5	48/15
3925	Upper Delaware River Channel Buoy 39	RELOCATED FOR DREDGING	12314	573D5	48/15
3930	Upper Delaware River Channel Lighted Buoy 40	RELOCATED FOR DREDGING	12314	573D5	48/15
5397	Chincoteague Channel Lighted Buoy 28	RELOCATED FOR DREDGING	12210	618D5	51/15
6348	Virginia Inside Passage Daybeacon 213	TRUB	12224	NONED5	02/14
8117	NOAA Lighted Data Buoy SN	DISCONTINUED	12278	602D5	50/15
8150	Brewerton Channel Range Front Light	RELOCATED	12281	181D5	14/15
9520	Elizabeth River Channel Lighted Bell Buoy 10	RELOCATED FOR DREDGING	12245	623D5	52/15
9552.5	Norfolk International Terminal North Channel Lighted Buoy 6N	RELOCATED FOR DREDGING	12245	623D5	52/15
9620	Elizabeth River Channel Lighted Buoy 20	RELOCATED FOR DREDGING	12245	623D5	52/15
9630	Elizabeth River Channel Lighted Buoy 23	RELOCATED FOR DREDGING	12245	623D5	52/15
11897	James River Channel Lighted Buoy 27A	DISCONTINUED FOR DREDGING	12248	541D5	44/15
11904	James River Channel Lighted Buoy 29A	DISCONTINUED FOR DREDGING	12248	541D5	44/15
19697	NOAA Lighted Data Buoy AN	DISCONTINUED	12283	604D5	50/15
21510	Mud Creek Channel Daybeacon 1	DISCONTINUED FOR DREDGING	12224	271HR	17/15
21515	Mud Creek Channel Daybeacon 2	TRUB	12224	221D5	18/15
23395	Goose Creek Channel Entrance Lighted Buoy 1	Other	12231	598D5	50/15
28025	Oregon Inlet Lighted Buoy 12	DISCONTINUED	12204	301D5	24/15
28030	Oregon Inlet Buoy 14A	DISCONTINUED FOR DREDGING	12204	534D5	43/15
28234	Old House Channel Lighted Buoy 2H	DISCONTINUED	12206	410D5	34/15
28669	Hatteras Inlet Buoy 9	DISCONTINUED	11555	269D5	21/15
28670	Hatteras Inlet Buoy 9A	DISCONTINUED	11555	269D5	21/15
28699.1	South Ferry Terminal Lighted Buoy 1SF	DISCONTINUED	11555	437D5	36/15
28700	South Ferry Terminal Buoy 2SF	DISCONTINUED	11555	437D5	36/15
28701	South Ferry Terminal Buoy 3SF	DISCONTINUED	11555	437D5	37/15
28703	South Ferry Terminal Lighted Buoy 4SF	DISCONTINUED	11555	437D5	36/15
28705	South Ferry Terminal Lighted Buoy 5SF	DISCONTINUED	11555	437D5	36/15
28707	South Ferry Terminal Buoy 6SF	DISCONTINUED	11555	437D5	36/15

28717	South Ferry Terminal Lighted Buoy 8SF	DISCONTINUED	11555	437D5	36/15
28719	South Ferry Terminal Lighted Buoy 10SF	DISCONTINUED	11555	437D5	36/15
28724	Hatteras Inlet Lighted Buoy 9B	DISCONTINUED	11555	269D5	21/15
28726	Hatteras Inlet Lighted Buoy 10	DISCONTINUED	11555	269D5	21/15
28726.1	Hatteras Inlet Buoy 10A	DISCONTINUED	11555	269D5	21/15
28726.2	Hatteras Inlet Lighted Buoy 10B	DISCONTINUED	11555	269D5	21/15
28729	Hatteras Inlet Lighted Buoy 11	DISCONTINUED	11555	269D5	21/15
28730.1	Hatteras Inlet Channel Lighted Buoy 11A	DISCONTINUED	11555	297D5	27/14
28730.15	Hatteras Inlet Channel Buoy 11AA	DISCONTINUED	11555	269D5	21/15
28730.2	Hatteras Inlet Channel Lighted Buoy 11B	DISCONTINUED	11555	269D5	21/15
28733	Hatteras Inlet Channel Lighted Buoy 12AA	DISCONTINUED	11555	269D5	21/15
28733.1	Hatteras Inlet Channel Buoy 12B	DISCONTINUED	11555	269D5	21/15
28733.2	Hatteras Inlet Channel Buoy 12C	DISCONTINUED	11555	269D5	21/15
28735.2	Hatteras Inlet Channel Lighted Buoy 13	DISCONTINUED	11555	NONED5	23/15
28955	Teaches Hole Channel Lighted Buoy 20	DISCONTINUED	11550	173D5	14/15
29388	Beaufort Inlet Channel Lighted Buoy 16A	DISCONTINUED FOR DREDGING	11547	372D5	30/15
29655	New River Inlet Buoy 1	DISCONTINUED	11541	067D5	06/15
29660	New River Inlet Buoy 2	DISCONTINUED	11541	067D5	06/15
29665	New River Inlet Buoy 3	DISCONTINUED	11541	491D5	43/14
29670	New River Inlet Buoy 4	DISCONTINUED	11541	491D5	43/14
29680	New River Inlet Buoy 6	DISCONTINUED	11541	491D5	43/14
29700	New River Inlet Buoy 8	DISCONTINUED	11541	491D5	43/14
29721	New River Inlet Buoy 10A	DISCONTINUED	11541	491D5	43/14
29723	New River Inlet Buoy 10B	DISCONTINUED	11541	491D5	43/14
29725	New River Inlet Buoy 11	DISCONTINUED	11541	491D5	43/14
29726	New River Inlet Buoy 11A	DISCONTINUED	11541	491D5	43/14
30355	Cape Fear River Entrance Channel Lighted Buoy 9	RELOCATED FOR DREDGING	11534	022D5	03/15
30360	Cape Fear River Entrance Channel Lighted Buoy 10	RELOCATED FOR DREDGING	11534	022D5	03/15
30370	Cape Fear River Entrance Channel Lighted Buoy 11	RELOCATED FOR DREDGING	11534	022D5	03/15
30373	Cape Fear River Entrance Channel Lighted Buoy 13	RELOCATED FOR DREDGING	11534	022D5	03/15
34885	Town Creek Channel Daybeacon 2	TRUB	11547	515D5	41/12
35995	New Jersey Intracoastal Waterway Daybeacon 258	TRUB	12316	227DB	15/15
38825	Peletier Creek Entrance Channel Daybeacon 2	TRUB	11541	493D5	39/15
40223	Cape Fear River - Little River Buoy 46A	RELOCATED	11534	589D5	50/15
40225	Cape Fear River - Little River Buoy 47	RELOCATED	11534	589D5	50/15
40235	Cape Fear River - Little River Buoy 48	RELOCATED	11534	589D5	50/15

TEMPORARY CHANGES CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
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None

PLATFORM TEMPORARY CHANGES

Name	Status	Position	BNM Ref.	LNM St	LNM End
None					

PLATFORM TEMPORARY CHANGES CORRECTED

Name	Status	Position	BNM Ref.	LNM St	LNM End
None					

SECTION IV - CHART CORRECTIONS

This section contains corrections to federally and privately maintained Aids to Navigation, as well as NOS corrections.

This section contains corrective actions affecting chart(s). Corrections appear numerically by chart number, and pertain to that chart only. It is up to the mariner to decide which chart(s) are to be corrected. The following example explains individual elements of a typical chart correction.

Chart Number	Chart Edition	Edition Date	Last Local Notice to Mariners	Horizontal Datum Reference	Source of Correction	Current Local Notice to Mariners
12327	91st Ed.	19-APR-97	Last LNM: 26/97	NAD 83		27/97
Chart Title: NY-NJ-NEW YORK HARBOR - RARITAN RIVER						
Main Panel 2245 NEW YORK HARBOR					CGD01	
(Temp)	ADD	NATIONAL DOCK CHANNEL BUOY 3			at 40-41-09.001N	074-02-48.001W
		Green can				
Corrective Action		Object of Corrective Action			Position	

(Temp) indicates that the chart correction action is temporary in nature. Courses and bearings are given in degrees clockwise from 000 true. Bearings of light sectors are toward the light from seaward. The nominal range of lights is expressed in nautical miles (NM) unless otherwise noted.

12210	40th Ed.	01-AUG-15	Last LNM: 52/15	NAD 83		01/16
<i>Chart Title: Chincoteague Inlet to Great Machipongo Inlet;Chincoteague Inlet</i>						
Main Panel 550 CHINCOTEAGUE INLET TO GREAT MACHIPONGO INLET. Page/Side: A						
ADD	Obstruction in Feet; 24 Obstrn			Chart No. 1: K41 (NOS NW-25506)	NOS 37-47-19.600N	075-24-21.900W

12211	45th Ed.	01-MAY-13	Last LNM: 52/15	NAD 83		01/16
<i>Chart Title: Fenwick Island to Chincoteague Inlet;Ocean City Inlet</i>						
CHART DE-MD-VA-FENWICK ISLAND TO CHINCOTEAGUE INLET. Page/Side: N/A						
RELOCATE	Cape Windsor Channel Daybeacon 2CW				CGD05 from 37-27-00.494N to 38-27-00.494N	075-04-16.651W 075-04-16.651W
RELOCATE	Cape Windsor Channel Daybeacon 3				CGD05 from 37-27-04.494N to 38-27-04.494N	075-04-17.651W 075-04-17.651W
RELOCATE	Cape Windsor Channel Daybeacon 4				CGD05 from 37-27-06.494N to 38-27-06.494N	075-04-18.651W 075-04-18.651W
RELOCATE	Cape Windsor Channel Daybeacon 5				CGD05 from 37-27-06.494N to 38-27-06.494N	075-04-10.651W 075-04-10.651W
RELOCATE	Cape Windsor Channel Daybeacon 7				CGD05 from 37-27-12.494N to 38-27-12.494N	075-04-13.651W 075-04-13.651W

12222	55th Ed.	01-FEB-15	Last LNM: 51/15	NAD 83		01/16
<i>Chart Title: Chesapeake Bay Cape Charles to Norfolk Harbor</i>						
Main Panel 559 CHESAPEAKE BAY CAPE CHARLES TO NORFOLK HARBOR. Page/Side: A						
(Temp)	RELOCATE	Elizabeth River Channel Lighted Bell Buoy 10			CGD05 from 36-56-35.931N to 36-56-36.331N	076-20-22.966W 076-20-24.914W

SECTION VI - PROPOSED CHANGES

Periodically, the Coast Guard evaluates its system of aids to navigation to determine whether the conditions for which the aids to navigation were established have changed. When changes occur, the feasibility of improving, relocating, replacing, or discontinuing aids are considered. This section contains notice(s) of non-approved, proposed projects open for comment. SPECIAL NOTE: Mariners are requested to respond in writing to the District office unless otherwise noted (see banner page for address).

PROPOSED WATERWAY PROJECTS OPEN FOR PUBLIC COMMENT

<u>Proposed Project(s)</u>	<u>Closing</u>	<u>Docket No.</u>	<u>Ref. LNM</u>
None			

Proposed Change Notice(s)

COAST GUARD POLICY ON NOTIFICATION OF PROPOSED CHANGES

Periodically, the Coast Guard, evaluates the system of aids to navigation to determine whether the conditions for which the aids to navigation were established have changed. When changes occur, the feasibility of improving, relocating, replacing, or discontinuing the aid is considered. In this regard, the Coast Guard is evaluating changes in aids to navigation as noted in the below articles. Users can provide feedback by filling out the District 5 Waterway Proposals data/feedback form, located at the NAVCEN D5 LNM website:

http://www.navcen.uscg.gov/pdf/Inms/D05%20LNM%202015%20Special%20Notice_Waterway_Proposal%20Feedback%20Form.pdf

This section also includes Public Notices for proposed changes to the bridges within the Fifth Coast Guard with a request for comments as indicated.

LNM: 41/11

NJ – COASTAL - HEREFORD INLET - DISCONTINUED AID TO NAVIGATION

The Coast Guard is proposing to discontinue Hereford Inlet Lighted Wreck Buoy WR2 (LLNR 91). Aid was established to mark sunken sailing vessel on north side of inlet. Due to shifting shoal wreck in now located nearly on the beach head well clear of navigational channel. The Coast Guard has requested NOAA to update charts with appropriate wreck symbol. Interested Mariners and other stakeholders are strongly encouraged to comment on the potential impacts this proposal would have on navigational safety. You may provide feedback using the U. S. Coast Guard Fifth District Waterway Data Sheet, available online at

http://www.navcen.uscg.gov/pdf/Inms/D5_LNM_2014_Special_Notice_Waterway_Proposal_Feedback_Form.pdf. All comments will be carefully considered and are requested prior to 05 January 2016 to be considered in the analysis. Refer to project number 05-16-019(D).

Send comments to michael.a.davis@uscg.mil or CGD5Waterways@uscg.mil, or

U.S. Coast Guard Fifth District
Waterways Management (dpw)

Attn: Michael Davis
431 Crawford Street
Portsmouth, VA 23704

Charts: 12200 12214 12316 12318

LNM: 49/15

DC – ANACOSTIA RIVER – SEASONAL AIS SYNTHETIC AIDS TO NAVIGATION

The U.S. Coast Guard is proposing to add Seasonal, Dec 1. To Mar 15, AIS Synthetic ATON to Potomac River-Mattawoman Creek to Georgetown-Anacostia River:

Anacostia River Lighted Buoy 3 (LL 18735) 38 51 47.704—77 00 35.813

AIS is an internationally adopted radio communication protocol that enables the autonomous and continuous exchange of navigation safety related messages amongst vessels, lifeboats, aircraft, shore stations, and aids to navigation (AIS ATON). AIS ATON stations broadcast their presence, identity (9-digit Marine Mobile Service Identity (MMSI) number), position, and status at least every three minutes or as needed.

Synthetic AIS ATON's signal can be received by any existing AIS mobile device, but they would require an external system for their portrayal (i.e., AIS message 21 capable ECDIS, ECS, radar, PC). How they are portrayed currently varies by manufacturer, but the future intention is for the portrayal to be in accordance with forthcoming International Standards (i.e., IEC 62288 (Ed. 2), IHO S-4 (Ed. 4.4.0)).

Mariners and other waterway stakeholders are encouraged providing feedback using the USCG Fifth District Waterway Data Sheet. Refer to Project Number 05-16-021. All comment will be carefully considered and are requested prior to January 4, 2016 to complete the process.

Comments on this proposal in writing, either personally or through their organization, may be sent to:

Commander (dpw)
Fifth Coast Guard District
431 Crawford Street, Rm. 100
Portsmouth, VA. 23704
Or email to: CGD5Waterways@uscg.mil

Charts: 12285 12289

LNM: 50/15

VA – RAPPAHANNOCK RIVER – QUEENS CREEK – REVISED PROPOSED CHANGES TO AIDS TO NAVIGATION MARKING QUEENS CREEK

After review of the Queens Creek Condition Survey provided by the Army Corp of Engineers Norfolk District on 30 Nov 2015, the Coast Guard is soliciting comments on the following changes to the aids to navigation system marking Queens Creek. This proposal supersedes the proposal published in LNM 47/15.

The Coast Guard is proposing the follow changes:

Change Queens Creek Warning Daybeacon A to Queens Creek Light 1 with a flashing 2.5 second light.

Discontinue and remove Queens Creek Warning Light, former Queens Creek Light 2.

Establish Queens Creek Buoy 2 in position: 37 29 23.680N—76 19 16.440W.
Establish Queens Creek Buoy 3 in position: 37 29 18.160N—76 19 21.260W.
Discontinue and remove Queens Creek Warning Daybeacon B, former Queens Creek DBN 4.
Discontinue and remove Queens Creek Warning Daybeacon C, former Queens Creek Light 5.
Establish Queens Creek Lighted Buoy 5 in position: 37 29 13.790N—76 19 26.350W with a flashing 4 second light.
Establish Queens Creek Buoy 6 in position: 37 29 14.230N—76 19 29.030W.
Establish Queens Creek Buoy 8 in position: 37 29 14.380N—76 19 40.030W.
Discontinue and remove Queens Creek Warning Daybeacon E, former Queens Creek DBN 8.
Rename/renumber Queens Creek Warning Daybeacon D to Queens Creek Daybeacon 9.
Discontinue and remove Queens Creek Warning Daybeacon F, former Queens Creek DBN 9.
Establish Queens Creek Buoy 10 in position: 37 29 12.420N—76 19 54.580W.
Rename/renumber Queens Creek Warning Daybeacon G to Queens Creek Daybeacon 11.
Rename/renumber Queens Creek Warning Daybeacon H to Queens Creek Daybeacon 12.
All buoys will be assigned an Ice Condition of ICE 3; removed when endangered by ice.
Interested Mariners and other stakeholders are strongly encouraged to comment on the potential impacts this proposal would have on navigational safety. You may provide feedback using the U. S. Coast Guard Fifth District Waterway Data Sheet, available online at http://www.navcen.uscg.gov/pdf/Inms/D5_LNM_2014_Special_Notice_Waterway_Proposal_Feedback_Form.pdf.
All comments will be carefully considered and are requested prior to January 11, 2016 to be considered in the analysis. Refer to project number 05-16-018(D)
Send comments to Albert.L.Grimes@uscg.mil or CGD5Waterways@uscg.mil, or mailed to
U.S. Coast Guard Fifth District
Waterways Management (dpw)
431 Crawford Street
Portsmouth, VA 23704
Attn: Albert Grimes, Room 100
Chart 12235 LNM: 51/15

VA – JAMES RIVER – DEEP WATER SHOALS LIGHT – AIDS TO NAVIGATION CHANGE

The Coast Guard is proposing to discontinue and remove the sound signal from Deep Water Shoals Light (LL 11780). Interested Mariners and other stakeholders are strongly encouraged to comment on the potential impacts this proposal would have on navigational safety. You may provide feedback using the U. S. Coast Guard Fifth District Waterway Data Sheet, available online at http://www.navcen.uscg.gov/pdf/Inms/D5_LNM_2015_Special_Notice_Waterway_Proposal_Feedback_Form.pdf.
All comments will be carefully considered and are requested prior to December 28, 2015 to be considered in the analysis.
Send comments to Albert.L.Grimes@uscg.mil or CGD5Waterways@uscg.mil, or mail to:
U.S. Coast Guard Fifth District
Waterways Management (dpw)
Attn: Albert Grimes
431 Crawford Street, Rm. 100
Portsmouth, VA 23704
Chart 12251 LNM: 48/15

SECTION VII - GENERAL

This section contains information of general concern to the Mariners. Mariners are advised to use caution while transiting these areas.

VA - WILLOUGHBY BAY - THIMBLE SHOAL CHANNEL - HELICOPTER AIRBORNE MINE COUNTERMEASURES OPERATIONS

Helicopter Mine Countermeasures Squadron Fourteen (HM-14) routinely conducts airborne mine countermeasures (AMCM) operations utilizing the MH-53E helicopter at low altitudes over the following inland and coastal waterways:

- Willoughby Bay
- Thimble Shoal Channel from the Naval Station Norfolk piers to the Chesapeake Bay Bridge Tunnel.
- An area of the Chesapeake Bay, adjacent to the Thimble Shoal Channel from Thimble Shoal to the Chesapeake Bay bridge tunnel extending to the north four miles to form a four by seven mile rectangle.

During these operations, the aircraft will be operating at altitudes as low as seventy-five feet and will produce localized winds in excess of 125 miles per hour. Rotor wash produced winds pose a considerable hazard to vessels, especially sailing vessels. The devices the helicopters tow range in size and appearance from a large orange and white sled approximately the size of a pick up truck to slightly submerged steel pipes thirty feet in length, both of which have submerged cable extending well beyond the visible portion of the towed device. The Aircraft Commanders have been directed to exercise every effort to conflict and avoid surface vessels.

All mariners are requested to remain well clear of the helicopters, the towed devices, and the area extending directly behind the aircraft for four hundred yards. Do not approach or cross the area directly behind the towed device as a submerged hazard exists regardless of whether the device is in motion or stationary.

These operations involve large naval helicopters at flight altitudes of 100 feet or less, towing surface and sub-surface devices at speeds up to 25

VA - WILLOUGHBY BAY - THIMBLE SHOAL CHANNEL - HELICOPTER AIRBORNE MINE COUNTERMEASURES OPERATIONS

knots. Helicopters may be identified by a rotating amber position light on centerline of main hull flashing 90 times per minute. An area of hurricane-force winds exists within a 250-foot radius around these helicopters, sufficient to blow people and objects from exposed decks and capsize small craft. The towed devices may be completely invisible and include large cables on or just below the surface streaming up to 1200 feet behind the aircraft. AMCM helicopters will transit to and from the area described above in the following manner: Outboard from the seaplane ramp at the Norfolk Naval Air Station across Willoughby Bay to the main shipping channel, then easterly along the main channel to Buoy 21. From Buoy 21 either East, SE or SSE to the operating area. The return flight will follow the same path as the outbound flight. To minimize the potential for mishap, vessels are requested to remain well clear of these danger zones when AMCM operations are encountered.

Charts: 12200 12205 12221 12222 12245 12254

LNLM: 01/16

VA -YORK RIVER - U.S. NAVAL WEAPONS STATION - CHEATHAM ANNEX - SMALL ARMS LIVE FIRE DANGER ZONE

A Danger zone has been established within an area beginning at Mean High Water on the shore at the U.S. Naval Weapons Station, Cheatham Annex facility on the York River, located at 37-17-33.10N, 076-36-19.06W; then northeast to a point on the York River at 37-18-36.650N, 076-34-39.010"W, thence south, southeast to 37-18- 59.37N, 076-34-13.65W; then southwest to a point on the shore located at 37-17-26.750N, 076-36-14.890W. Vessels may transit this area at any time, however, no vessel shall anchor, fish or conduct any waterborne activities within the Danger Zone established in accordance with this regulation any time live firing exercises are being conducted. Any time live firing is being conducted a red flag will be displayed in a conspicuous location along the shore to signify the range is active. At night, red lights will be displayed.

Chart 12241

LNLM: 01/16

VA - COASTAL - U.S. NAVAL BASE DAM NECK, VIRGINIA BEACH - SMALL ARMS RANGE LIVE FIRE SCHEDULE

All vessel operators are reminded to review Navigation Regulations as described in paragraph 334.380 of Chapter 2, of U.S. Coast Pilot 4, Atlantic Coast: Cape Henry to Key West (45th) Edition when operating south of the entrance to the Chesapeake Bay, off the Dam Neck Naval Firing Range. When firing is in progress during daylight hours, red flags will be displayed at conspicuous locations on the beach at the facility. Vessels shall proceed through the area with caution and shall remain in the area no longer than necessary for transit. The U.S. Naval Base Dam Neck Live Fire Range will be active during periods advertised by Broadcast Notice to Mariners.

Charts: 12203 12205 12207 12221

LNLM: 01/16

VA - COASTAL - STATE MILITARY RESERVATION, CAMP PENDLETON, VIRGINIA BEACH - SMALL ARMS LIVE FIRE SCHEDULE

The Camp Pendleton State Military Reservation Live Fire Small Arms Range described as all of the waters seaward of the mean high water shore line within a sector between radial lines extending 13,500 yards seaward and bearing 070 degrees true and 150 degrees true, respectively, from a point on shore at 36- 48- 58.3N, 075- 57- 59.0W. All vessel operators are reminded to review Navigation Regulations as described in paragraph 334.380 of Chapter 2, of U.S. Coast Pilot 4, Atlantic Coast: Cape Henry to Key West (45th) Edition when operating south of the entrance to the Chesapeake Bay. Firing will take place only during daylight hours and red flags will be displayed at conspicuous locations on the beach at the facility. Vessels shall proceed through the area with caution and shall remain in the area no longer than necessary for transit.

Charts: 12203 12205 12207 12221

LNLM: 01/16

VA - VIRGINIA CAPES OPERATING AREA (VCOA) - PERMANENT MINE WARFARE TRAINING FIELDS ESTABLISHMENT

The U.S. Navy has established four permanent mine warfare training fields within the Virginia Capes Operating Areas. The Bounding coordinates for each field are as follow:
AREA A: 37-09.0N 075-31.0W, 37-09.0N 075-34.7W, 37-12.0N 075-31.0W, 37-12.0N 075-34.7W.
AREA B: 36-29.0N 075-31.8W, 36-29.0N 075-35.5W, 36-26.0N 075-35.5W, 36-26.0N 075-31.8W.
AREA C: 36-29.0N 075-20.8W, 36-29.0N 075-24.5W, 36-26.0N 075-24.5W, 36-29.0N 075-20.8W.
AREA D: 36-46.5N 075-47.8W, 36-46.5N 075-46.5W, 36-47.5N 075-46.5W, 36-47.5N 075-47.8W.
Each area contains inert bottom and moored training mines that pose a potential hazard to dredging operations and trawler nets. All moored mines will be placed at a minimum of 40 feet depth (MLLW) to preclude them as hazards to navigation. The scheduled implant dates for the minefields are 05-09 December, 2014.

Chart 12200

LNLM: 01/16

VA – APPROACHES TO CHESAPEAKE BAY – HYDROPHONE DEPLOYMENT

The U.S. Navy has deployed four hydrophones in DANGER AREA 334.390 (W-50). The Hydrophones are located in the following approximate positions: 36-49.0N 075-52.7W, 36-49.0N 075-52.6W, 36-48.9N 075-52.5W, AND 36-48.8N 075-52.5W. The Hydrophones are moored at a depth of approximately 25 feet below the water surface, and they pose a hazard to trawler nets. The Hydrophones will be deployed for an indefinite amount of time for the purposes of collecting data in support of a U.S. Navy environmental impact survey of marine mammals in the Virginia Beach Coast Areas.

LNLM: 07/15

NC - NEW RIVER - FIRING EXERCISES

1. The Commanding General, Marine Corps Installations East-Marine Corps Base Camp Lejeune (MCIE-MCB CamLej), North Carolina, has advised that the area in the Atlantic Ocean between a point approximately 4.5 miles east of Bogue Inlet to a point approximately 10 miles southwest of New River Inlet, North Carolina, within the existing danger zone (depicted as 334.440) as shown on National Ocean Service Chart 11543, will be hazardous to navigation because of field firing exercises during the periods and times stated below. Firing will be up to 15 nautical miles seaward.

NC - NEW RIVER - FIRING EXERCISES

Vessels are urged to avoid the above area during the periods stated except for the Atlantic Intracoastal Waterway, where mariners traveling through this area can expect a delay of about one to four hours during the below times. Range Control Boats, MCIE-MCB CamLej North Carolina monitor Channel 16 VHF-FM (156.8 MHz) and the working Channel 82 VHF-FM (161.725 MHz). Range Control can be reached by phone at 910-451-3064 or 4449.

2. The restricted areas in the Atlantic Ocean East of the New River Inlet as shown on National Ocean Service Chart 11543, will be closed to navigation because of firing exercises during the following periods:

Atlantic Coast Sector Live Fire Operations

8:00 a.m. to 5:00 pm Daily (USS Ship-Naval Gunfire)

8:00 a.m. to 10:00 pm Daily (Stinger Missiles and ranges)

Atlantic Coast Sector Non-Live fire operations

12:01 a.m. to Midnight Daily (USS Ship-Maneuvering)

3. The restricted areas in the New River, as shown on National Ocean Service Chart 11542, that WILL be closed to navigation because of Stone Bay Rifle Range firing exercises during the following periods:

Stone Creek Sector 12:01 a.m. to Midnight – daily

Stone Bay Sector 12:01 a.m. to Midnight – daily

West of the 77 (deg) 26(min) longitude line.

The restricted areas that MAY be closed to navigation because of firing exercises during the following periods:

Traps Bay Sector 12:01 a.m. to Midnight – daily

Courthouse Bay Sector 12:01 a.m. to Midnight – daily

Stone Bay Sector 12:01 a.m. to Midnight – daily

East of the 77 (deg) 26 (min) longitude line.

Grey Point Sector 12:01 a.m. to Midnight – daily

Farnell Bay Sector Sunrise to Sunset – daily

Morgans Bay Sector Sunrise to Sunset – daily

Jacksonville Sector Sunrise to Sunset – daily

4. The Target Bombing Area N1/BT-3 Impact Area in the Atlantic Ocean East of the New River Inlet as shown on National Ocean Service Chart 11543, may be closed to navigation because of firing exercises during the following periods:

N1/BT-3 Live Fire Operations:

8:00 a.m. to 5:00 pm Daily (USS Ship-Naval Gunfire)

8:00 a.m. to 10:00 pm Daily (Stinger Missile and ranges)

N1/BT-3 Non-Live Fire Operations:

12:01 a.m. to Midnight Daily (USS Ship-Maneuvering)

5. Atlantic Intracoastal Waterway, Inland Waters in the Browns Island Inlet area between Bear Creek and Onslow Beach, may be closed for firing exercises during the following periods:

Live Fire Operations:

8:00 a.m. to 5:00 pm Daily (USS Ship-Naval Gunfire)

8:00 a.m. to 10:00 pm Daily (Ranges)

Non-Live Fire Operations:

12:01 a.m. to Midnight Daily (Boat-Maneuvering)

6. Ship operations consisting of landing craft, amphibious vehicles, and helicopters may be conducted in the Onslow Beach operating area and all sectors of New River from 12:01 a.m. to Midnight – daily. Range Control Boats, MCIE-MCB CamLej North Carolina monitor Channel 16 VHF-FM (156.8 MHz) and the working Channel 82 VHF-FM (161.725 MHz). Range Control can be reached by phone at 910-451-3064 or 4449.

7. Due to unexploded ordnance on Browns Island and in the adjacent waterways and marsh areas, Browns Island is off limits to all unauthorized personnel. Vessels may transit the surrounding waters, however no vessel shall bottom fish or anchor.

Charts: 11541 11542 11543

LNM: 01/16

DREDGING AND MARINE CONSTRUCTION CAUTIONS

Mariners are cautioned to stay clear of dredge, booster, floating (pontoon) and submerged pipelines, barges, derricks and operating wires associated with dredging and marine construction operations. Operators of vessels of all types should be aware that dredges and floating pipelines are held in place by cables, attached to anchors some distance away from the equipment. Buoys are attached to the anchors so that the anchors may be moved as the dredge advances and the location of the submerged pipelines are marked by buoys on each side of the channel. Mariners are cautioned to strictly comply with the Inland Rules of the Road when approaching, passing and leaving the area of operations, and remain a safe distance away from the dredge, booster, buoys, cables, pipeline, barges, derricks, wires and related equipment. Dredging projects are usually conducted twenty-four (24) hours a day seven (7) days a week. All fishnets, crabpots and structures in the general area must be removed prior to commencement of any work. A NO WAKE transit is requested of all vessels passing the dredge and if necessary to clarify a SAFE PASSAGE contact the dredge on the appropriate VHF-FM channels.

LNM: 01/16

PA/NJ - WILMINGTON TO PHILADELPHIA - DELAWARE RIVER MAIN CHANNEL MARCUS HOOK - HAZARD TO NAVIGATION

A USACE survey conducted on 21DEC2015 has identified a cylinder shaped object within the channel boundaries approximately 150 feet east of the centerline in position 39-48-15.1N, 075-25-02.3W. The object is located between the charted positions of Marcus Hook Range Lighted Buoy 6M (3160) and Marcus Hook Range Lighted Buoy 9M (3210) in a depth of approximately 32.4 feet at MLLW. Mariners should use extreme caution when transiting the area.

Chart 12312

LNM: 51/15

NJ – SHARK RIVER – DREDGING

Mariners are advised that the dredge MURDEN will be conducting dredging operations in the Shark River, in the vicinity of the entrance to the inlet, in Avalon-By-The-Sea until 14 January, 2016. Operations will take place 12 hours a day, during daylight hours. The dredge may be contacted on

NJ – SHARK RIVER – DREDGING

VHF 13 & 16. Mariners are advised to use extreme caution while transiting the area.

Chart 12324

LNLM: 01/16

PA/DE – DELAWARE RIVER - MARCUS HOOK RANGE - CHESTER RANGE - EDDYSTONE RANGE –SAFETY ZONE

The Coast Guard will be enforcing a safety zone within the waters of the Delaware River, from Marcus Hook, Pennsylvania north to Eddystone, Pennsylvania, beginning December 04, 2015 until March 15, 2016. The safety zone will cover all navigable waters in the Delaware River within 500 yards of vessels and machinery conducting rock blasting, dredging, and rock removal operations. This zone is intended to protect personnel, vessels, and the marine environment in these navigable waters while operations are being conducted. Entry into, transiting, or anchoring within the safety zone is prohibited unless authorized by the Captain of the Port (COTP), Delaware Bay, or his designated representative. One side of the Delaware River main navigational channel will be closed in locations spanning from Marcus Hook, Pennsylvania to Eddystone, Pennsylvania, in the vicinity of the rock blasting, rock removal, and dredging operation, for the duration of the project. Vessels wishing to transit the safety zone in the main navigational channel may do so if they can make satisfactory passing arrangements with the drill boat APACHE, dredge TEXAS, or dredge NEW YORK, in accordance with the Navigational Rules in 33 Code of Federal Regulations Subchapter E via VHF-FM Channel 13 at least 30 minutes prior to arrival. If vessels are unable to make satisfactory passing arrangements with the drill boat APACHE, dredge TEXAS, or dredge NEW YORK, they may request permission from the COTP or his designated representative on VHF-FM channel 16. All vessels must operate at the minimum safe speed necessary to maintain steerage and reduce wake. During this project rock blasting will be conducted, via explosive detonations, by the drill boat APACHE at approximately 9 am and 4 pm, daily. No vessels may transit through the safety zone during times of explosives detonation. During rock blasting operations, vessels will be required to maintain a 500 yard distance from the drill boat APACHE. The drill boat APACHE will make broadcasts, via VHF-FM Channel 13 and 16, at 15 minutes, 5 minutes, and 1 minute prior to detonation, as well as a countdown to detonation via VHF-FM 16. After every explosive detonation a survey will be conducted to ensure the navigational channel is clear for vessels to transit. The drill boat APACHE will make broadcasts, via VHF-FM channel 13 and 16, confirming when the channel is clear to transit. Vessels requesting to transit through the safety zone shall proceed as directed by the designated representative of the Captain of the Port and shall contact the drill boat APACHE on VHF-FM channel 13 for safe passing information. If you have any questions regarding the contents of this bulletin, please contact the Waterways Management staff at (215) 271-4814 or the Situation Unit Controller at (215) 271-4807

Chart 12312

LNLM: 49/15

NJ – SANDY HOOK – DGPS SITE UNUSABLE TIME APPROVAL

The DGPS site located in Sandy Hook, NJ will be unusable due to preventive maintenance during the following dates and times: PRIMARY DATE 12JAN2016 1430Z – 1830Z 0930 – 1330 EST.

LNLM: 52/15

NJ – GREAT EGG INLET OT TOWNSENDS INLET – DREDGING

Great Lakes Dredge & Dock Company is currently conducting dredging operations from Corson's Inlet borrow area located directly northeast of the north end of Strahmere and southeast of the south end of Peck Beach. Dredged marterial will be hydraulically placed via a submerged pipeline on the north end of Strathmere, middle section of Sea Islan City and sother end of Peck Beach. The cutter suction dredge ILLINOIS is scheduled to complete work approximately by 15 April, 2016. Additional vessels expected to be onscene are the tender tug RE ENTERKIN, hydrographic survey vessel MUSKEGON RIVER, derrick tender tug ATLANTIC DAWN, anchor barge tender tug's CAVALIER STATE and NORTH STAR STATE. Operations are expected to take place 24 hours a day, 7 days a week and all vessels will monitor VHF Channels 13 & 16. Mariners are urged to use caution when transiting the area.

LNLM: 01/16

NJ – INTRACOASTAL WATERWAY – WATERWAY POINT PLEASANT CANAL

Mariners are advised bulkhead repair work is currently being conducted in the Point Pleasant Canal until 11 January, 2016. Repair work will be conducted North of Route 88 bridge near Point Pleasant, NJ. There will be a barge and work boats in the area and at ties in the channel. The barge will be secured to the bulkhead with cables that are marked and lighted. The cables will extend 60 to 90 feet from the barge. The work boats can be contacted on VHF Channel 13. Mariners are urged to use caution when transiting this area.

Chart 12324

LNLM: 01/16

MD – APPROACHES TO BALTIMORE HARBOR – MIDDLE RIVER – NEW PRIVATE AIDS TO NAVIGATION

On or about January 18, 2016, Lockheed Martin will be establishing three yellow unit buoys to mark a discharge pipe outfall being installed immediately adjacent to Martin State Airport. The three buoys will be placed approximately 10 feet from each other. Frog Mortar Creek Outfall Special Buoys A, B, and C in approximate position 39 19 32.646N, 76 24 25.142W, Private aid, Y.

Chart 12278

LNLM: 52/15

MD – SEVERN AND MAGOTHY RIVERS – CONSTRUCTION OPERATIONS

Marine construction operations are scheduled to occur in the Severn River from 04 January, 2016 to 01 April, 2016 during daylight hours. The stone revetment project is located in approximate position 38-59-35.1N 076-28-52.4W and will include work boats and material barges on site. Concerned mariners may contact the Central Marine Construction Vessel PUSHHERMAN on VHF Channels 13 & 16. Mariners are urged to use caution when transiting the area.

LNLM: 01/16

MD – PATUXENT RIVER – SOLOMONS ISLAND & VICINITY - BRIDGE INSPECTION

Mariners are advised that an engineering firm, on behalf of the Maryland State Highway Administration, will be performing inspections at the Route 4 (Thomas Johnson Memorial Bridge) over Patuxent River, at river mile 4.0, at California, MD. The inspections will be conducted for three days between December 21, 2015 and January 15, 2016; from 7 a.m. to 5 p.m. A 25-foot work boat will be operating in the vicinity of the bridge performing inspections of the channel, fenders, dolphins and lower portions of the concrete support piers. The work boat may be reached on VHF-FM channel 13, (302) 250-6073 and (443) 807-3793. Following inspections, the work boat will transit across the waterway in the vicinity of the

MD – PATUXENT RIVER – SOLOMONS ISLAND & VICINITY - BRIDGE INSPECTION

bridge spans to perform a hydrographic survey. Mariners should use caution when transiting the area.

Chart 12284

LNM: 51/15

MD/VA - LOWER CEDAR POINT TO MATTAWOMAN CREEK - UPPER POTOMAC RIVER

The National Oceanic and Atmospheric Administration (NOAA) Office of National Marine Sanctuaries is seeking comment on the proposed Malloes Bay - Potomac River National Marine Sanctuary by January 15, 2016. Malloes Bay – Potomac River is a 14 square mile area of the tidal Potomac River adjacent to Charles County, Maryland. It was nominated as a national marine sanctuary through the Sanctuary Nomination Process with broad community support. The area encompasses historic shipwrecks of national significance that merit the additional management authority of the National Marine Sanctuaries Act. Nearly 200 known vessels span from the Revolutionary War through the present, and include the remains of the largest "Ghost Fleet" of World War I wooden steamships built for the U.S. Emergency Fleet, which are listed on the National Register of Historic Places. The geographic bounds of the proposed sanctuary run approximately bank-to-bank from Brent Point (Aquia Creek in Virginia) in the south to Sandy Point (Maryland) in the north. On October 7, 2015, NOAA issued in the Federal Register a "Notice Of Intent To Conduct Scoping, Hold Public Scoping Meetings And To Prepare A Draft Environmental Impact Statement And Management Plan" on the proposed sanctuary requesting stakeholder input. Interested Mariners and other stakeholders are strongly encouraged to review the proposed sanctuary and comment on the potential impacts this proposal could have on navigational safety by January 15, 2016.

To find out more about the proposed sanctuary, visit: <http://sanctuaries.noaa.gov/malloes-bay/>

The link to the Federal Register Notice is provided from the website above in the "Additional Resources" section. You may also find it at:

<https://www.federalregister.gov/articles/2015/10/07/2015-25510/notice-of-intent-to-conduct-scoping-and-to-prepare-a-draft-environmental-impact-statement-for-the>

To provide comment, please visit: <http://www.regulations.gov/#1docketDetail;D=NOAA-NOS-2015-0111>

Chart 12288

LNM: 51/15

MD – CHESAPEAKE BAY – SMITH POINT TO COVE POINT – BRIDGE INSPECTION

Mariners are advised that an engineering firm, on behalf of the Maryland State Highway Administration, will be performing inspections and testing at the US 13 (Business) (Market Street) Bridge over Pocomoke River, at river mile 15.6, at Pocomoke City, MD. The inspections and testing will be conducted from January 18, 2016 until January 22, 2016; from 8 a.m. to 5 p.m. Inspection personnel and equipment will relocate from the moveable span to allow for safe vessel passage through the bridge. Mariners should use caution when transiting the area.

Chart 12230

LNM: 52/15

VA – JAMESTOWN ISLAND TO JORDAN POINT – DREDGING

Cottrell Contracting Corporation of Chesapeake VA, advises the dredge MARION will be conducting dredging operations within James River between James River Channel Lighted Buoy 57 (LLNR 12200) and James River Channel Lighted Buoy 66 (LLNR 12250) from 18 December, 2015 through 25 January, 2016. Operations are expected to take place 24 hours a day, 7 days a week and dredge may be contacted on VHF Channels 13 & 16.

Chart 12251

LNM: 51/15

VA – DRIVER – DGPS SITE UNUSABLE TIME APPROVAL

The DGPS site located in Driver, VA will be unusable due to preventive maintenance during the following dates and times: PRIMARY DATE 18JAN2016 1200Z – 2200Z 0700 – 1700 EST, SECONDARY DATE 19JAN16 1200Z – 2200Z 0700 – 1700 EST.

LNM: 52/15

VA – CHESAPEAKE BAY – NEWPORT NEWS CHANNEL – DREDGING

The dredge ROCKBRIDGE of Cottrell Contracting Corporation of Chesapeake, VA, is currently conducting dredging operations in the vicinity of Newport News Channel Lighted Buoy 2 (LLNR 10840) and Newport News Channel Lighted Buoy 14 (LLNR 10890). Operations will take place 24 hours a day 7 days a week and the dredge may be contacted on VHF Channels 13 & 16. Mariners are urged to use caution when transiting this area.

Chart 12245

LNM: 52/15

VA – CHESAPEAKE BAY – HAMPTON ROADS BRIDGE TUNNEL – FIBER OPTIC CABLE INSTALLATION

Mariners are advised that Precon Marine, Inc will be performing an underwater fiber optic cable installation project across the Hampton Roads Bridge Tunnel Channel from Fort Monroe, VA. to Willoughby Spit, VA. in a route parallel to the Hampton Roads Bridge approximately 1000 feet on the east side of the bridge and Fort Wool. The work period is scheduled to be performed starting January 9th, 2016 and ending by February 14th, 2016. Equipment on-site will be the Tug DOTTI J, a crew boat Bay Surveyor, 30' x 90' material barge and a 60' X 200' crane barge. The work scope of this project also includes periodic Dive Operations at which the required dive notifications will be displayed. The Tug DOTTI J and Crew boat Bay Surveyor will monitor and answer VHF-FM channels 13 and 16 and will issue hourly security calls regarding the operations of this project. This project will require a partial and full closure of the main shipping channel between the hours of 05:00 to 17:00 on January 13th, 2016. Partial closure will be from 05:00 to 09:00 allowing traffic to transit the South side of the channel; full closure will be from 09:00 to 13:00 and then a partial closure from 13:00 to 17:00 allowing traffic to transit the North side of the channel. This channel closure is pending final approval by the Commander, Fifth Coast Guard District. Mariners should use extreme caution and maintain a no wake speed when transiting this work area.

Chart 12245

LNM: 51/15

VA – CHESAPEAKE BAY – LITTLE CREEK INLET – DEMOLITION AND REPAIR WORK

The U.S. Navy is currently conducting demolition and repair work to the ramp adjacent to and East of the entrance jetty to Joint Expeditionary Base Little Creek, VA. Mariners are requested to remain well clear of this area during demolition and repair work. Work is expected to continue until November 2016.

Chart 12254

LNM: 52/15

VA – CHESAPEAKE BAY – ELIZABETH RIVER SOUTHERN BRANCH – DREDGING

Cottrell Contracting is currently conducting dredging operations within Norfolk Harbor and Craney Island Reach until 31 January, 2016. Dredging operations are expected to take place 24 hours a day, 7 days a week with work crews monitoring VHF Channels 13 & 16. Vessel traffic is requested to exercise caution when transiting in the vicinity of the dredge.

Chart 12253

LNM: 52/15

NC - ATLANTIC INTRACOASTAL WATERWAY (AICW) - SHOALING CONDITIONS - UPDATED

Mariners are advised that shoaling conditions exist 6at AICW Mile Markers 237, 271, 280 and 321 in North Carolina. Severe shoaling has restricted the federal channel depths and horizontal clearances of the AICW in the following locations:

AICW MM 237 - Browns Inlet Intersection in the vicinity of Bogue Sound – New River Buoy 61A (LLNR 39223) - 200 yard shoal extending into the federal channel with depths varying from <1' to 5' at mean low water - Approximate position is 34°35'49.20"N, 077°14'30.80"W to 34°35'52.70"N, 077°14'26.90"W

AICW MM 271 - Howards Creek Intersection in the vicinity of New River – Cape Fear River Buoy 99A (LLNR 39548) - 350 yard shoal extending into the federal channel with depths varying from <2' to 5' at mean low water - Approximate position is 34°21'18.00"N, 077°40'53.00"W to 34°21'13.00"N, 077°41'02.00"W

AICW MM 280 - Masons Inlet Intersection in the vicinity of New River – Cape Fear River Buoy 121 (LLNR 39597) - 250 yard shoal extending into the federal channel with depths varying from <1' to 4' at mean low water - Approximate position is 34°14'52.70"N, 077°46'58.40"W to 34°15'00.00"N, 077°46'51.60"W

AICW MM 321 - Lockwoods Folly Inlet Intersection in the vicinity of Cape Fear River – Little River Buoy 47 (LLNR 40225) - 250 yard shoal extending into the federal channel with depths varying from <1' to 5' at mean low water - Approximate position is 33°55'14.80"N, 078°14'10.60"W to 34°55'15.50"N, 078°13'58.80"W

Mariners are urged to transit at their slowest safe speed and proceed with caution when navigating in these areas. Shoaling conditions increase the potential for groundings. Any grounding of a vessel poses a significant risk to injury to those onboard and a risk of substantial damage to a vessel. There have been and continue to be groundings in these identified locations.

It is highly recommended that all mariners conduct proper pre-voyage planning when intending to transit these areas and do so at the high tide, in daylight hours, ensure vessel drafts are adequate to transit the AICW and do not attempt to overtake or meet other vessels in these hazardous areas.

These areas are subject to continual and sometimes rapid environmental changes. Mariners are highly encouraged to obtain the most recent U.S. Army Corps of Engineers Wilmington, North Carolina District hydrographic survey information, centerline waypoints and controlling depth at: <http://www.saw.usace.army.mil/Missions/Navigation/HydrographicSurveys/AIWW.aspx>

Some aids to navigation on the AICW may not be charted and may be marking best water outside of the federal channel due to continually shifting shoals. Consult Local Notice to Mariners, 5th Coast Guard District for the latest positions and status of aids to navigation at: <http://www.navcen.uscg.gov/?pageName=InmDistrict®ion=5>

The U.S. Coast Guard will continue to monitor the conditions of AICW and update mariners as necessary. To report any aids to navigation discrepancies or hazards to navigation, please contact the Sector North Carolina Command Center at (910) 343-2200.

Charts: 11534 11541 11542

LNM: 51/15

NC – CAROLINA BEACH INLET – SHOALING

Mariners are advised that an area of shoaling has been reported in the vicinity of Carolina Beach Inlet between buoys 1 (LLNR 30265) through 6 (LLNR 30290). The report indicated shoaling of 2.0 feet at mean low water. Mariners are urged to use caution when transiting this area.

Chart 11534

LNM: 52/15

SECTION VIII - LIGHT LIST CORRECTIONS

An Asterisk *, indicates the column in which a correction has been made to new information

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
4950	Cape Windsor Channel Daybeacon 2CW	38-27-00.494N 075-04-16.651W				TR on pile.	Private Aid. 01/16
		*					
4955	Cape Windsor Channel Daybeacon 3	38-27-04.494N 075-04-17.651W				SG on pile.	Private Aid. 01/16
		*					

SECTION VIII - LIGHT LIST CORRECTIONS (Continued)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
4960	Cape Windsor Channel Daybeacon 4	38-27-06.494N 075-04-18.651W				TR on pile.	Private Aid. 01/16
4965	Cape Windsor Channel Daybeacon 5	* 38-27-06.494N 075-04-10.651W				SG on pile.	Private Aid. 01/16
4970	Cape Windsor Channel Daybeacon 7	* 38-27-12.494N 075-04-13.651W				SG on pile.	Private Aid. 01/16
13235	POQUOSON RIVER LIGHT 15	* 37-10-06.467N 076-24-06.233W	FI G 2.5s	15	4	SG on pile.	01/16
19215	CAPE ST. MARYS MARINA BREAKWATER LIGHT						* Remove from list. 01/16
24480	Muddy Hook Cove Channel Daybeacon 2	38-15-41.007N 076-10-07.649W				TR on pile.	* 01/16
24530	HONGA RIVER BACK CREEK ENTRANCE CHANNEL LIGHT 1BC 20 feet outside channel limit.	38-18-53.857N 076-12-52.878W	FI G 4s	15	4	SG on pile.	* 01/16
24535	HONGA RIVER BACK CREEK CHANNEL LIGHT 3 20 feet outside channel limit.	38-18-55.290N 076-13-26.206W	Q G	15	4	SG on multi-pile structure.	* 01/16
24550	Honga River Warning Daybeacon A	38-21-05.862N 076-13-04.518W				NW on pile worded DANGER SHOAL.	* 01/16
24580	TAR BAY CHANNEL LIGHT 1	38-20-58.196N 076-16-18.028W	FI G 2.5s	15	4	SG on pile.	* 01/16
24600	Tar Bay Channel Warning Daybeacon B	38-20-42.886N 076-14-36.976W				NW on pile. worded DANGER SHOAL.	* 01/16
37083	Chesapeake Outfall Warning Daybeacon A						* Remove from list. 01/16
37083.1	Chesapeake Outfall Warning Daybeacon B						* Remove from list. 01/16

PUBLICATION CORRECTIONS

None

ENCLOSURES

Enclosures

1. Summary of Bridge Regulations/Construction/Permits.
 2. Summary of Dredging.
 3. Summary of Marine Events.
 4. Summary of Coast Guard Sector North Carolina shoaling/waterway projects.
 5. Summary of Coast Guard Sector Hampton Roads shoaling/waterway projects.
-
-

SUMMARY OF D5 BRIDGE PERMITS/REGULATIONS/CONSTRUCTION

(Yellow indicates new item)

CURRENT PROJECTS

Permits:

SECTOR BALTIMORE

- **Maryland** - None
- **Washington DC**
Anacostia River – Frederick Douglass Memorial/South Capitol Street (swing) Bridge – District of Columbia Department of Transportation is proposing to replace the existing drawbridge with a new fixed bridge at essentially the same location. The replacement project will modify the existing vertical and horizontal clearance of the bridge. Presently, in the closed position to vessels, the charted vertical clearance of the existing swing-type bridge is 40 feet above MHW, with unlimited vertical clearance in the full open position. The existing horizontal clearance is two channels of 149 feet each. The proposed replacement will be a fixed bridge that will provide a vertical clearance of 42 feet above MHW with a proposed horizontal clearance of 150 feet.
- **Virginia (Northern)**
Potomac River – US 301/Harry W. Nice Memorial (fixed) Bridge Crossing - Study underway to consider rehabilitation or replacement of existing bridge. Draft FONSI has been released. MDTA is developing Navigation Evaluation to propose navigational clearances.

SECTOR DELAWARE BAY

- **Delaware** - None
- **New Jersey (Central & Southern)**
Raccoon Creek – US 130 (fixed) Bridge - proposed new fixed bridge structure to replace (lift) bridge. Permit 2-15-5 signed December 9, 2015.
- **Pennsylvania** - None

SECTOR HAMPTON ROADS

Virginia (Southern)

AICW – Elizabeth River Southern Branch – I-64/High Rise Bridge – VDOT has proposed a fixed bridge with a minimum vertical clearance of 100 feet above mean high water, while maintaining the existing 125-foot horizontal clearance. The information gathered as a result of this preliminary public notice will assist the U.S. Coast Guard in determining adequate minimum vertical and horizontal clearances for the proposed crossing of the Southern Branch of the Elizabeth River. It is requested that mariners and adjacent property owners express their views from a navigational standpoint, in writing, on the proposed project giving sufficient detail to establish a clear understanding of their reasons for support of or opposition to this project. Comments will be received for the record at the office of Commander (dpb), Fifth Coast Guard District, 431 Crawford Street, Portsmouth, VA 23704-5004 through January 4, 2016. The Preliminary Public Notice may be accessed at: <http://www.navcen.uscg.gov/?pageName=pnBridges&Active=1®ion=5>

SECTOR NORTH CAROLINA

- **North Carolina**
Oregon Inlet – Bonner (fixed) Bridge – Bridge Permit transmitted to NCDOT on August 12, 2015. Pre-construction meeting held on December 9, 2015 at Coastal Studies Institute; 850 NC-345, Wanchese, NC 27981.

Regulations:

SECTOR BALTIMORE

- **Maryland** – None
- **Washington, DC & Virginia (Northern)** – None

SECTOR DELAWARE BAY

- **Delaware** – None
- **New Jersey (Central & Southern)**
NJICW – Barnegat Bay – SR37 (vertical-lift) Bridge – The CG is temporarily modifying the drawbridge operating schedule between December 1, 2015 and March 31, 2018. Over the span of two and half years, the drawbridge will be closed to navigation for three four-month closure periods in the winter months. Extensive replacement of parts and repairs to the bridge necessitate these closures.
- **Pennsylvania** – None

SECTOR HAMPTON ROADS

Virginia (Southern)

Black Narrows & Lewis Creek Channel – SR 175 (basculer) Bridge – Test regulation and Public Notice 5-1340 was issued; comment period ended October 2, 2014. The deviation tested a change for the drawbridge operation schedule to determine whether a permanent change to the schedule was needed to open on demand. Final Rule to be published in Federal Register.

SECTOR NORTH CAROLINA

- **North Carolina** - None

Construction, et al:

SECTOR BALTIMORE

- **Maryland**
Susquehanna River – US 40 & I-95/Hayden & Tydings (fixed) Bridges – Foundation and substructure repairs are in progress through 2016.
Susquehanna River – I-95 Millard E Tydings Memorial (fixed) Bridge – Cleaning, painting, and repairs are in progress through August 2017. During daylight hours Monday through Saturday a barge and crew boat will be working in various locations near the structure and a debris shield will be secured to the lower truss member

throughout the bridge but will not affect navigational clearances.

Curtis Creek – I-695 Baltimore Beltway (fixed portions) Bridge – Painting work is scheduled to continue through the fall of 2016. To facilitate the work, a platform will reduce the available vertical clearance outside the channel to 49 feet above MHW.

Potomac River – Arlington Memorial Bridge - Mariners are advised that emergency concrete and steel repairs will be conducted from August 17, 2015 until February 2, 2016. Work will be completed from a barge anchored in and around the navigable channel and will be relocated outside the channel during non-working hours. The bridge has a vertical clearance of 30 feet at MHW and a horizontal clearance of 142 feet when unobstructed. Mariners should exercise extreme caution when transiting the area.

Choptank River – MD 331/Dover (fixed) Bridge – CG Bridge Permit signed by CGHQ on 16 SEP 2014. Maryland State Highway Administration is constructing a new fixed single-span concrete bridge, adjacent to the existing swing bridge to be completed in March 2016. The existing swing bridge will be retained for historic purposes and placed in the open position to navigation. The new bridge will have a vertical clearance of 48.5 feet above mean high water (MHW) and a horizontal clearance with two separate 80-foot channels between face of pilings.

Pocomoke River - US 13 (Business) (Market Street) Bridge - Inspections and testing will be conducted from January 18, 2016 until January 22, 2016; from 8 a.m. to 5 p.m. Inspection personnel and equipment will relocate from the moveable span to allow for safe vessel passage through the bridge. Mariners should use caution when transiting the area.

Patuxent River - Route 4 (Thomas Johnson Memorial Bridge) - Inspections will be conducted for three days between December 21, 2015 and January 15, 2016; from 7 a.m. to 5 p.m. A 25-foot work boat will be operating in the vicinity of the bridge performing inspections of the channel, fenders, dolphins and lower portions of the concrete support piers. The work boat may be reached on VHF-FM channel 13, (302) 250-6073 and (443) 807-3793. Following inspections, the work boat will transit across the waterway in the vicinity of the bridge spans to perform a hydrographic survey. Mariners should use caution when transiting the area.

- **Washington DC –**

Potomac River – Arlington Memorial Bridge - Mariners are advised that emergency concrete and steel repairs will be conducted from August 17, 2015 until February 2, 2016. Work will be completed from a barge anchored in and around the navigable channel and will be relocated outside the channel during non-working hours. The bridge has a vertical clearance of 30 feet at MHW and a horizontal clearance of 142 feet when unobstructed. Mariners should exercise extreme caution when transiting the area.

Potomac River - Francis Scott Key (fixed) Bridge - DDOT has completed a design for rehabilitation. This work commenced in May 2015 and is scheduled to continue for two years. Most of the work has to do with repairing cracks on the concrete arches, floor beams, piers and abutments, and repairing some deterioration of the underside of the bridge deck.

Washington Channel – Francis Case Bridge - Scaffolding will be installed on the bridge from December 5, 2015 until April 15, 2016. The charted vertical clearance of the bridge is 18 feet above mean high water and the scaffolding will restrict the vertical clearance by 4 feet, leaving a vertical clearance of 14 feet available. Red quick flashing lights will be installed every 10 feet to mark the edge of the scaffolding. Mariners should exercise extreme caution when transiting the area.

Virginia (Northern) - None

SECTOR DELAWARE BAY

- **Delaware - None**
- **New Jersey (Central & Southern)**

Delaware River – Commodore Barry (fixed) Bridge – To facilitate painting, work will continue until March 2016. Work platforms will be installed 3 feet beneath the bridge in various locations reducing the vertical clearance to 178 ft. above mean high water at the edge of the navigable channel (187 ft. center of channel). Mariners should exercise caution.

Drag Channel & Great Egg Harbor Bay (GEHB) – Garden State Parkway (fixed) Bridges - Marine work consisting of several activities including but not limited to test pile installation, temporary cofferdam construction, pier substructure construction, superstructure erection and demolition are in progress through December 31, 2015 for the replacement of the existing southbound bridges. In addition to replacing the southbound causeway, the project includes the demolition of the remaining portions of the Beesely's Point Bridge (US Route 9 over GEHB and Drag Channel). Daily hours of construction operations are Monday through Saturday from 7 a.m. to 5 p.m. with a second shift and 24-hour operations scheduled for specific activities. It is anticipated that closure or reduced horizontal clearance of the navigational channels will be required.

ICW – Manahawkin Bay – State Route 72 (fixed) Bridges – Construction work will continue from December 2015 through February 2016 in the vicinity of the existing and new Route 72 Bridges. The existing navigation channel will remain clear during the project except from December 10, 2015 until December 24, 2015 when the channel width will be restricted by 30 feet for a lighted work barge. The bridge will have a 55 feet vertical clearance above mean high water (MHW) over the navigational channel and a 100 feet horizontal clearance between fender systems when complete. The construction operations will include removal of work trestles, fender installation, and lighting installation. Tugboats and barges will be used and will monitor VHF Channel 13 in the event that mariners need to contact the contractor. Mariners should use extreme caution when transiting the area.

Nacote Creek – Old New York Road (fixed) Bridge – Priority repair operations will take place from 01 October 2015 through April 2016 from barges in and near the channel with the ability to move away from the channel when requested.

Oldmans Creek – US 130 Bridge – Bridge repairs will be performed from November 1, 2015 through March 31, 2016. Wedges, pier repair, floor beam work, counter-weight support work, and cleaning and painting will be completed. We are advising mariners to use extreme caution when transiting the area.

Delaware River - Interstate 276/Delaware River Turnpike Bridge - Repainting and miscellaneous improvements will be performed from mid-November 2015 through December 31, 2017. All work on the bridge superstructure will be performed 7 am to 7 pm during the week and 6 am to 6 pm on the weekends. The overhead work will never occupy more than 55% of the channel and will reduce the vertical clearance by 5 ft. The construction company can be contacted at 856-429-3400. Mariners should use extreme caution when transiting the area.

Mantua Creek - Conrail Railroad Bridge -- Construction on the new tower span vertical-lift drawbridge has been extended through April 2016. The bridge will remain closed to maritime traffic on Mantua Creek until construction is complete. The new bridge will have vertical clearances of 2 feet in the closed position and 25 feet in the open position and a horizontal clearance of 44 feet on a skewed channel between the pile bents.

Pennsylvania –

Delaware River – Walt Whitman Bridge (I-76) - Painting of the suspension spans and towers will be conducted from October 19, 2015 to March 31, 2018, between 7 a.m. and 5 p.m. daily. A work platform extending 3 feet beneath the lower portion of the bridge will be installed over the entire length of the bridge. The vertical clearance of the bridge will be reduced by 3 feet to approximately 136 feet above MHW. Mariners should use caution when transiting the area.

Delaware River - Interstate 276/Delaware River Turnpike Bridge - Repainting and miscellaneous improvements will be performed from mid-November 2015 through December 31, 2017. All work on the bridge superstructure will be performed 7 am to 7 pm during the week and 6 am to 6 pm on the weekends. The overhead work will never occupy more than 55% of the channel and will reduce the vertical clearance by 5 ft. The construction company can be contacted at 856-429-3400. Mariners should use extreme caution when transiting the area.

SECTOR HAMPTON ROADS

- ***Virginia (Southern)***

AICW – Elizabeth River Southern Branch – Dominion Blvd Replacement (fixed) Bridge Project – Contractors have installed the permanent beam and construction continues through March 2017. The fixed height is at 95 feet above MHW. The old steel (basculer) bridge spans have been completely removed.

Lynnhaven Inlet – US 60/John A. Lesner (fixed) Bridge – Work is in progress through June 2017 for a new replacement bridge at essentially the same location. The new bridge will have a vertical clearance of 45 feet above MHW, along with a horizontal clearance of 150 feet between face of the fenders. A dredge material placement site will be located southwest of the existing bridge, adjacent to the boat ramp facility and used as a staging area. The contractor will access the lay down and staging area via the waterway through a proposed temporary bulkhead.

Mattox Creek – Route 205/James Monroe Highway (fixed) Bridge – Work is in progress through July 1, 2016 to complete demolition and replacement the existing fixed highway bridge, with a new two-lane fixed highway bridge on the same alignment. The new bridge will have a vertical clearance of 4.7 feet above mean high water, along with a horizontal clearance of 49.5 feet between piles.

Poquoson River – Route 17 (fixed) Bridge – replacement bridge work in progress through 2015.

SECTOR NORTH CAROLINA

- ***North Carolina***

Gallants (Beaufort) Channel – US 70/Grayden Paul (fixed) Bridge – Work is in progress through May 31, 2017 for construction of a high-level fixed bridge relocated between Radio Island and Michael J Field in Carteret County. When completed, the new high-level fixed bridge will have a vertical clearance of 65 feet above MWH, along with a horizontal clearance of 100 feet between pile bents. The construction operation will include in-water work involving pile driving, concrete placement, girder setting, and concrete deck installation with post tensioning. Tugboats and barges will be used and will monitor VHF channel 13 in the event that mariners need to contact the contractor. Waterway closures are being planned.

Cape Fear River – Wilmington Bypass (fixed) Bridge – Construction of new highway bridge in Brunswick and New Hanover Counties, NC. When completed, the Cape Fear River Bridge will have a vertical clearance of 64 feet at mean high water and a horizontal clearance of 160 feet. Work barges and structures will be located along the sides of the waterway through December 2016. The channel shall remain open to navigation.

AICW - Alternate Route - Pasquotank River – US 158 Replacement Bridge Project – a temporary work pier will be installed on the southwest side of the eastbound US 158 drawbridge. The temporary platform will not be in the navigational channel and the drawbridge will be fully operational. The temporary pier will be in place throughout the replacement bridge project until December 30, 2015.

FUTURE PROJECTS:

Permits/Construction:

- ***Maryland***

Potomac River - Theodore Roosevelt (fixed) Bridge - DDOT is conducting an investigation and assessment of the bridge, which will be completed winter of 2015. They'll assess structural condition, needs for extended life cycle, and safety compliance improvements. Then will do a design analysis of alternatives with construction in the future (no date given).

- ***Washington, DC*** –

Anacostia River – 11th Street Bridge Park – Proposed fixed pedestrian bridge park to be built on retained substructure of old 11th Street Bridge.

- ***Virginia (Northern)*** - None

- ***Delaware*** – None

- ***New Jersey (Central & Southern)*** – None

- ***Pennsylvania*** – None

- ***Virginia (Southern)*** – None

- **North Carolina**
Mid-Currituck Sound (fixed) Bridge – Proposed new fixed structure in final review of the design.
Perquimans River – US 17 business (fixed) Bridge – Proposed new fixed bridge structure to replace (swing) bridge in final review of the design and environmental package.
Alligator River – US 64 (fixed) Bridge Proposed new fixed bridge structure to replace (swing) bridge in final review of the design and environmental package.
Atlantic Intracoastal Waterway – SR 50 Sears Landing Surf City (fixed) Bridge Proposed new fixed bridge structure to replace (swing) bridge in final review of the design and environmental package.
Cape Fear River – Wilmington bypass south (fixed) Bridge Proposed new fixed bridge structure in review of the design and environmental package.
Straits Waterway - Harkers Island Bridge – Proposed new fixed bridge structure to replace existing swing span bridge (Bridge No. 73). Draft Vessel Height Survey Report in review.

Regulations:

- **Maryland** – None
- **Washington, DC** – None
- **Virginia (Northern)** – None
- **Delaware** – None
- **New Jersey (Central & Southern)** – None
- **Pennsylvania** –
Delaware River – Conrail Railroad Bridge (Delair, NJ) – Remote Operation Test Deviation.
Coast Guard currently evaluating incorporation of AIS into the bridge remote operations system.
- **Virginia (Southern)** – None
- **North Carolina** – None

SUMMARY OF DREDGING/MARINE CONSTRUCTION PROJECTS CURRENTLY IN PROGRESS

PA/NJ - Delaware River - Sturgeon Trawling Operations (Chart 12312)

Mariners are advised that F/V AMY MARINE conducting trawling operations to capture and relocate sturgeon at various locations within the Marcus Hook, Chester, Eddystone, and Tinicum Ranges of the Delaware River main navigation channel ending on or about **March 15, 2016**. Ref LNM 49/15

NJ – Delaware Bay – Delaware River – Oldmans Creek (Chart 12312)

Mariners are advised that repairs will be performed from November 1, 2015 through **March 31, 2016** at the US130 Bridge across Oldmans Creek, at mile 3.1, in Oldmans Township, Nortonville, NJ. (Ref LNM 46/15)

NJ – Gravens Thorofare- Cornell Harbor, Pennsylvania Harbor, Sterbeck Harbor, And Princeton Harbor - Dredging

Dredging operations will be conducted in Gravens Thorofare in Avalon, NJ within the following reaches: Princeton Harbor, Sterbeck Harbor, Pennsylvania Harbor, and Cornell Harbor until **31 January, 2015**. Ref LNM 36/15

NJ – Barnegat Inlet To Little Egg Inlet Long Beach Sound – Beachfill Operations (Charts 12323, 12318)

PADRE ISLAND, DODGE ISLAND, and LIBERTY ISLAND conducting beach fill operations along the Atlantic Ocean coastline from Beach Haven to Loveladies until **April, 2016**. Ref LNM 16/15

NJ - Great Egg Harbor Inlet – Dredging (Chart 12318)

Mariners are advised that the dredge ILLINOIS is conducting dredging operations in Great Egg Harbor Inlet until **January 30, 2016**. Ref LNM 48/15

NJ – Great Egg Harbor Inlet – Dredging Operations (Chart 12316)

Great Lakes Dredge and Dock Company will be conducting beach nourishment at Great Egg and Peck Beach, Ocean City, NJ until **30 January, 2016**. Ref LNM 40/15

NJ – Great Egg Harbor Inlet – Risley Channel – Bridge Repairs (Chart 12316)

Mariners are advised that the JFK Memorial Bridge, at mile 1.1, over Risley Channel in the Borough of Longport, NJ will be under-going emergency bearing repairs from September 10, 2015 through **15 January, 2016**. Ref LNM 35/15

NJ – New Jersey Intracoastal Waterway (NJICW) – Avalon – Dredging (Chart 12316)

Mariners are advised that Barnegat Bay Dredging; dredge FULLERTON will be conducting dredging operations in Avalon, NJ in the NJICW, between channel marker Buoy 386 and 399, from December 2, 2015 to **March 15, 2016**. Ref LNM 49/15

NJ – Intracoastal Waterway – Sandy Hook To Little Egg Harbor – Barnegat Bay – Bridge Maintenance (Chart 12324)

On the Thomas Mathis Bridge (SR37), at mile 14.1, over the Barnegat Bay are scheduled between **15 July 2015 and 31 May 2018**. Ref LNM 28/15

NJ - Intracoastal Waterway (ICW) – Manasquan River To Cape May Canal – Manahawkin Bay – Bridge Construction

(Chart 12324)

Mariners are advised that construction work by Schiavone Construction Company will continue from December, 2015 through **February 2016** in the vicinity of the existing and new Route 72 Bridges over Manahawkin Bay, at NJICW mile 37.4, in Ship Bottom, Ocean County, NJ. Ref LNM 49/15

NJ- Great Egg Harbor Inlet – Dredging (Chart 12318)

Mariners are advised that the dredge ILLINOIS will be conducting dredging operations in Great Egg Harbor inlet until **30 January, 2016**. Ref LNM 42/15

DE/NJ – Delaware Bay - Dredging

Mariners are advised that Weeks Marine vessels B.E. LINDHOLM and R.N. WEEKS are currently conducting dredging operations in Delaware Bay, near Lewes, DE until **April, 2016**. Ref LNM 21/15, LNM 45/15

DE – Roosevelt Inlet - Dredging (Chart 12316)

Mariners are advised that dredging operations will be conducted in the Roosevelt Inlet, University of Delaware Basin, in the vicinity of Lewes, DE, from October 26, 2015 to **8 January, 2016**.

DE – Delaware Bay – Prime Hook – Dredging Operations (Chart 12304)

Mariners are advised that the dredge CHARLESTON will be conducting dredging operations in Delaware River, in Prime Hook, Delaware from September 25, 2015 until **15 March, 2016**. Ref LNM 38/15

NJ – Mantua Creek – Construction (Chart 12312)

Construction on the Conrail Railroad E. Jefferson Street Bridge over the Mantua Creek in Paulsboro, NJ will continue until **April, 2016**. Ref LNM 42/15

NJ/PA – Delaware River – Upper Delaware – Rancocas Creek – Emergency Drawbridge Repairs (Chart 12314)

Mariners are advised that the SR#38 Swing Bridge (Centerton Bridge CR 635), at mile 7.8, across Rancocas Creek, in Centerton, NJ will be closed to vessels requiring an opening **until further notice**. Ref LNM 19/15

PA – Delaware River – Philadelphia And Camden Waterfronts – Bridge Maintenance (Chart 12213)

Painting of the suspension spans and towers at the Walt Whitman Bridge (I-76) across the Delaware River, mile 96.8, Philadelphia, PA, until **31 March, 2018**. Ref LNM 42/15

NJ/PA - (Wilmington To Philadelphia) - Delaware River – Bridge Painting (Chart 12312)

Bridge painting on the Commodore Barry Bridge, at mile 81.4, across the Delaware River, between Bridgeport NJ and Chester, PA, through **March 2016**. Ref LNM 08/15

NJ – Delaware River – Paulsboro – Concrete Wharf Construction (Chart 12312)

Weeks Marine constructing a new 850 foot wide concrete wharf structure on the Delaware River at the Paulsboro Marine Terminal, Paulsboro, New Jersey until **January 2016**. Ref: LNM 42/14

DE - Indian River – Dredging Operations

Mariners are advised that dredging operations will be conducted in Indian River, near Millsboro, DE through **01 April, 2016**. Ref LNM 42/15

MD – Chesapeake Bay – Approaches To Baltimore Harbor – Baltimore Harbor – Marine Construction Project (Chart 12281)

Pier rebuilding project at Dundalk Marine Terminal Berth 4 in Baltimore, MD until **July 2016**. Ref. LNM 30/14

MD – Chesapeake Bay – Baltimore Harbor – Marine Construction (Chart 12273)

Marine pile driving and commercial diving operations are scheduled to occur in Baltimore Harbor, at various locations along the terminal bulkhead at Dundalk Marine Terminal in Baltimore, MD, through **31 January, 2016**. Ref LNM 28/15

MD - Chesapeake Bay - Susquehanna River - Bridge Repairs (Chart 12274)

Blastech Enterprises, will be conducting repairs, cleaning, and painting on the Millard E. Tydings Memorial Bridge on I-95, at mile 3.2, over Susquehanna River in Havre De Grace, MD, from April 15, 2015 through **15 August, 2016**. Ref LNM 11/15

MD – Chesapeake Bay – South River – Pochontas Creek – Dredging Operations (Chart 12270)

Mariners are advised that dredging operations are scheduled to occur in Pochontas Creek from October 26, 2015 until **15 February, 2016**. Ref LNM 42/15

MD – Chesapeake Bay – Eastern Bay & South River – South River – Directional Drilling Operation (Chart 12270)

Mariners are advised that horizontal directional drilling operations are scheduled to occur under the South River until **15 February, 2016**. Ref LNM 44/15

MD – Chesapeake Bay – South River – Church Creek – Dredging operations (Chart 12270)

Mariners are advised that dredging operations are scheduled to occur in Church Creek from October 26, 2015 until **15 February, 2016**. Ref LNM 42/15

MD – Chesapeake Bay – Severn River – Spa Creek – Annapolis Harbor – Marine Construction Project (Chart 12282.12283)

Mariners are advised that a bulkhead replacement project is scheduled to occur in Annapolis Harbor from October 26, 2015 through **25 April, 2016**. Ref LNM 41/15

MD/DC – Anacostia River – Washington D.C. – Marina Construction (Chart 12285)

Bellingham Marine has commenced construction of multiple docking facilities for the Yards Marina on the Anacostia River, in Washington D.C, near Yards Park. Construction is expected to be completed sometime in **May of 2016**. Ref LNM 37/15

DC – Upper Potomac River/Washington Channel (Chart 12289)

Dockside demolition/bulkhead repair until **December, 2020**. Ref: LNM 12/14

MD – Chesapeake Bay – Potomac River – Emergency Bridge Repairs (Chart 12285)

Emergency concrete and steel repairs be being conducted on the Arlington Memorial Bridge, at mile 110.0, across the Potomac River in Washington, DC from 17 Aug 2015 until **02 February 2016**. Ref LNM 31/15, Updated in LNM 32/15

VA/MD – Potomac River – Lower Cedar Point To Mattawoman Creek– Drilling Operations (Chart 12288)

Mariners are advised that marine drilling operations for core samples are scheduled to occur in the Potomac River from September 14, 2015 through **15 January, 2016**. Ref LNM 34/15

DC – Potomac River – Washington Channel – Bridge Maintenance (Chart 12289)

Mariners are advised that scaffolding will be installed at the Francis Case Bridge, at mile 0.0, across Washington Channel in Washington, DC from 05 Dec 2015 until **15 April 2016**. Ref LNM 48/15

MD – Choptank River Route 331 Dover Road – Bridge Replacement (Chart 12268)

McLean Contracting Corporation will commence construction a new bridge just south of the existing Dover Road Route 331 Bridge until **November 2017**. Ref LNM 39/14

VA – James River/Newport News Shipbuilding Waterfront (Chart 12248)
Dredging – Dredge MOBRO 112 – **Until further notice.** Ref: LNM 14/14.

VA – Chesapeake Bay – James River – Jordan Point To Richmond – Bridge Maintenance (Chart 12252)
Mariners are advised that CSX Transportation, Incorporated will be performing a maintenance and repair project at the CSX Hopewell (Seaboard System Railroad) Bridge across the Appomattox River, mile 2.5, at Hopewell, VA. Bridge maintenance will be performed between 7 a.m. and 5 p.m., from November 30, 2015 until December 12, 2015 and from January 5, 2016 until **January 12, 2016.** Ref LNM 47/15

VA – James River – Foundation Repairs To Power Distribution Towers (Chart 12248)
Mariners are advised that Precon Marine Construction, Inc. Tug SAVANNAH/ELLIE LEE are currently conducting foundation repairs to the power distribution towers crossing the James River. The work period is scheduled to be completed in **February/March 2016.** Ref LNM 25/15

VA – Chesapeake Bay – James River – Tylers Beach – Dredging (Chart 12248)
Salmons Inc, dredge barge is currently conducting dredging operations in the James River, Tyler's Beach in Isle of Wight County, VA. Dredging operations will take place during daylight hours Monday through Saturday with a completion date of **17 January 2016.** Ref LNM 48/15

VA – Jamestown Island To Jordan Point – Dredging (Chart 12251)
Cottrell Contracting Corporation of Chesapeake VA, advises the dredge MARION will be conducting dredging operations within James River between James River Channel Lighted Buoy 57 (LLNR 12200) and James River Channel Lighted Buoy 66 (LLNR 12250) from 18 December, 2015 through **25 January, 2016.** Ref LNM 51/15

VA – James River – Newport News – Demolition and Pier Repairs Updated (Chart 12248)
Crofton Diving Corporation currently conducting demolition and repair operations to the James River Fishing Pier until **28 August, 2016.** Ref LNM 27/15, 37/15

VA – Chesapeake Bay – Hampton Roads Bridge Tunnel – Fiber Optic Cable Installation (Chart 12245)
Precon Marine, Inc Tug DOTTI J, will be performing an underwater fiber optic cable installation project across the Hampton Roads Bridge Tunnel Channel from Fort Monroe, VA. to Willoughby Spit, VA. in a route parallel to the Hampton Roads Bridge approximately 1000 feet on the east side of the bridge and Fort Wool. The work period is scheduled to be performed starting January 9th, 2016 and ending by **February 14th, 2016.** Ref LNM 51/15

VA – Naval Weapons Station – Cheatham Annex – Dredging Operations (Chart 12245)
The dredge MOBRO 12 beginning 15 November 2015 until **15 February, 2016** will be conducting dredging operations at Cheatham Annex, Pier CAD. Ref LNM 45/15

VA – Chesapeake Bay – Norfolk Harbor – Dredging (Chart 12253)
Cottrell Contracting Corporation of Chesapeake, VA dredge LEXINGTON will be conducting dredging operations in various locations within the Norfolk Harbor Federal Channel from 12 December, 2015 through **01 June, 2016.** Ref LNM 49/15

VA – Lynnhaven River – Western Branch – Dredging Operations (Chart 12254)
Carolina Marine Structures Inc are currently conducting dredging operations within the Lynnhaven River – Western Branch and Old Donation Creek. Dredging operations are expected to be completed sometime in **April, 2016.** Ref LNM 06/15

VA – Chesapeake Bay – Elizabeth River – Midtown Tunnel Construction (Chart 12253)
SKW Constructors construction operations of new Midtown Tunnel, channel restrictions, temporary buoys established, barge traffic. **Until further notice.** Ref LNM 33/14, 33/15

VA – Chesapeake Bay – Little Creek Inlet – Demolition And Repair Work (Chart 12254)
The U.S. Navy is currently conducting demolition and repair work to the ramp adjacent to and East of the entrance jetty to Joint Expeditionary Base Little Creek, VA., until **November 2016.** Ref LNM 52/15

VA – Chesapeake Bay – Elizabeth River Southern Branch – Dredging (Chart 12253)
Cottrell Contracting conducting dredging operations within Norfolk Harbor and Craney Island Reach until **31 January, 2016.** Ref LNM 52/15.

VA - Chesapeake Bay - Southern Branch Elizabeth River – Marina Construction (Chart 12253)
Hodges and Hodges Enterprises constructing a small community six slip marina with pavilion on the Elizabeth River a half mile north of the Great Bridge Locks until **January 15, 2016.** Ref LNM 47/15

VA – Chesapeake Bay – Elizabeth River Southern Branch – Pier Rehabilitation Operations (Chart 12206)
The Mclean Contracting Company is currently engaged in a pier rehabilitation operation with a crane and barge at the Chesapeake VA, Roanoke Cement Facility on the Southern Branch of Elizabeth River. Operations are expected to be completed on **31 January, 2016.** Ref LNM 40/15

VA – Atlantic Intracoastal Waterway (AICW) – Norfolk Harbor to Albemarle Sound (Chart 12253)
Dominion Steel Bridge (Rt.17) Replacement - Construction ongoing until **February, 2017.** Ref: LNM 07/13.

NC – Oregon Inlet, NC - Oregon Inlet Channel - Dredging (Chart 12205)

Mariners are advised that the Army Corps of Engineers dredge MURDEN and dredge CURRITUCK will be conducting dredging operations in the vicinity of the Oregon Inlet Channel at Oregon Inlet, NC from December 2, 2015 until **January 15, 2016**. Ref LNM 49/15

NC – Hatteras Inlet - Dredging (Chart 11555)

Mariners are advised that the Dredge CAROLINA will be conducting operations starting on November 15, 2015 through **January 29, 2016**. Ref LNM 46/15

NC - Perquimans River - Hertford - NC - Bridge Construction (Chart 12205)

Construction repairs to the fender system on the Route 17 Bridge crossing the Perquimans River in Hertford, NC. The repairs are to the fender system and anticipated to take place between January 4, 2016 and **August 30, 2016**. Ref LNM 49/15

NC – Morehead City – Construction (Chart 11541)

Precon Marine will be conducting repair and replacement work to the fendering system on the North and East piers at PCS Barge Docks in Morehead City. Work will consist of small sectional barges moored to the pier with equipment and personnel working during daylight hours. Work period will be from November 19, 2015 to **April 1, 2016**. Ref LNM 46/15

NC – Atlantic Ocean – Carlina Beach - Dredging

Mariners are advised that Marinex Construction Dredge SAVANNAH will be conducting beach nourishment at Carolina Beach near the Ocean Blvd Public Beach access until **April 30, 2016**. Ref LNM 50/15

NC – Cape Fear River – Bridge Construction (Chart 11537)

A new highway bridge on the Wilmington Bypass, over the Cape Fear River, mile 35.5, in Brunswick and New Hanover Counties, NC, through **December 2016**. Ref: LNM 49/14, 31/15, 37/15, 46/15, 48/15

NC – Cape Fear River - Dredging (Chart 11537)

Mariners are advised that starting on November 18, 2015 the Dredge BRUNSWICK will commence dredging via a submerged pipeline on the Cape Fear River in Wilmington, North Carolina. Dredging will be conducted between the Cape Fear Memorial Bridge (Highway 17) to Berth 9 of the North Carolina State Port. The project is expected to operate twenty four (24) hours per day seven (7) days a week until **February 15, 2016**. Ref LNM 46/15

SUMMARY OF D5 MARINE EVENTS/FIREWORKS DISPLAYS

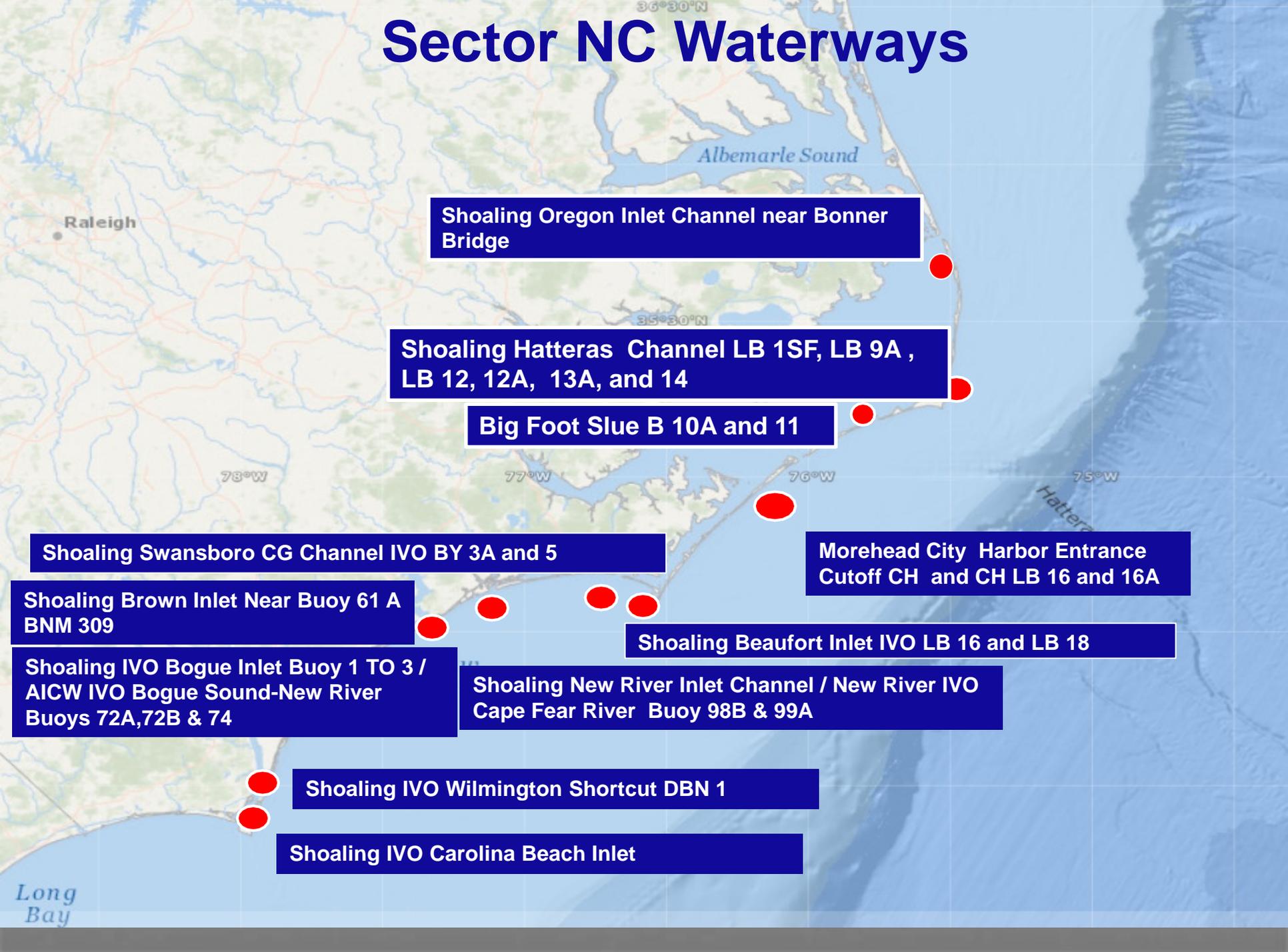
FIREWORKS – DISPLAY PRECAUTIONS AND REGULATIONS

Fireworks barges and launch sites on land will have signs labeled FIREWORKS--DANGER--STAY AWAY to provide on scene notice that the safety zone will be enforced. Vessels may not enter, remain in, or transit through the safety zone during the enforcement period unless authorized by the Coast Guard Captain of the Port (COTP) or designated Coast Guard patrol personnel on scene. All persons and vessels shall comply with the instructions of the COTP or the designated on-scene-patrol personnel, and upon being hailed by siren, radio, flashing light or other means, the operator of a vessel shall proceed as directed. Other Federal, State and local agencies may assist these personnel in the enforcement of the safety zone.

MD – Chesapeake Bay – Severn River – Sailing regatta series

Mariners are advised that the Annapolis Yacht Club's 2015-2016 Frostbite Series sail races are scheduled to occur on the Severn River each Sunday afternoon from November 8, 2015 through December 13, 2015, on January 1, 2016, and each Sunday afternoon from January 28, 2016 through **March 13, 2016**, between approximately 1 p.m. and 4:30 p.m. Each race consists of up to 25 participants, with seven fleets starting at various times, and a maximum of 125 participating sailboats and auxiliary sailboats (18 to 49 feet in length). The races will occur in the Severn River, between the Severn River (US-50) Bridge and the mouth of the Severn River, with a start line in the vicinity of U.S. Naval Academy seawall. Interested mariners may contact the Special Events Committee boat on marine band radio channel 72 VHF-FM, if necessary. Charts 12282, 12283.

Sector NC Waterways



Shoaling Oregon Inlet Channel near Bonner Bridge

Shoaling Hatteras Channel LB 1SF, LB 9A, LB 12, 12A, 13A, and 14

Big Foot Slue B 10A and 11

Shoaling Swansboro CG Channel IVO BY 3A and 5

Morehead City Harbor Entrance Cutoff CH and CH LB 16 and 16A

Shoaling Brown Inlet Near Buoy 61 A BNM 309

Shoaling Beaufort Inlet IVO LB 16 and LB 18

Shoaling IVO Bogue Inlet Buoy 1 TO 3 / AICW IVO Bogue Sound-New River Buoys 72A,72B & 74

Shoaling New River Inlet Channel / New River IVO Cape Fear River Buoy 98B & 99A

Shoaling IVO Wilmington Shortcut DBN 1

Shoaling IVO Carolina Beach Inlet

AREA	MAINTENANCE	DESCRIPTION	BNM/ MSIB/ LNM
Hatteras Ferry	Dredging	Dredge Carolina Until 01/29/2016	LNM 46/15
Cape Fear River	Dredging	Dredge Brunswick Until 02/15/2016	LNM 46/15
Carolina Beach	Dredging	Dredge Savannah Until 04/30/2016	
Oregon Inlet	Dredging	Dredge Murden and Currituck Until 01/15/2016	LNM 49/15

Fireworks Location	Fireworks Sponsor/Event Name	Fireworks Vendor	Safety Zone	Date
N/A				

AREA	MARINE EVENT	DESCRIPTION	MEP
N/A			





WWM SHOALING LIST

NTM	AREA	SHOALING DESCRIPTION
BNM 311-13	Nandua Creek	Shoaling at the entrance to Nandua Creek to 2 FT MLW
LNM 24/13	VIP Day Beacon 189 to VIP Light 230	Shoaling to less than 6 FT MLW
LNM 24/13	Sand Shoal Channel Light 1 to Sand Shoal Light 10	Shoaling to less than 6 FT MLW
LNM 24/13	VIP Day Beacon 139 to VIP Day Beacon 184	Shoaling to less than 6 FT MLW
LNM 24/13	VIP Warning Day Beacon AA to VIP Day Beacon 121	Shoaling to less than 6 FT MLW
BNM 170-14	Queen Creek entrance light 2QC to day beacon 10	Shoaling to less than 3 FT MLW
BNM 272-14	Cape Charles to Wolf Trap inside passage Day Beacon 244	Shoaling depth of 1 FT MLW
BNM 293-14	East of Long Creek Day Beacon 7 IVO of Pleasure House Point	Shoaling depth of 2.4 FT MLW
BNM 030-15	Between Milford Haven East Light 6 and Light 9	Shoaling depth of 3 FT MLW



WWM SHOALING LIST cont

NTM	AREA	SHOALING DESCRIPTION
BNM 011-15	Extending 10 FT Channelward of Davis Creek Light 6.	Shoaling depth of 2 FT MLW
BNM 182-15	Extending 50 yards Channelward from Horn Harbor Light 8	Shoaling depth of 1-2 FT 1 hour before low tide
BNM 241-15	IVO of Linkhorn Day Beacon 20A and Linkhorn Bay Light 21	Shoaling depth of 1.6 FT MLW
BNM 363-15	Between Pagan River Day Beacon 15 and Day Beacon 17	Shoaling depth of 4 FT MLW.
BNM 328-15	Established Trub Horn Harbor 8A at the entrance of Horn Harbor.	Shoaling depth of 5 FT MLW.
BNM 327-15	Established temporary buoy Mildford Haven East 6A at the entrance of Milford Haven.	Shoaling depth of 4FT MLW.
BNM 471-15	James River Tribell Shoal Reach, between Channel lighted buoys 27 & 29. Two temp green buoys will be placed to mark shoaling.	Shoaling depth of 23.6FT MLW.
BNM 544-15	Queen Creek entrance light 2 to light 5 and daybeacon 4	Shoaling depth of 2 FT MLW reducing channel width.
BNM 573-15	Milford Haven Channel IVO light 3 extending 100 yds east of daybeacon 3A	Shoaling depths of less than 1 FT MLW reported in the Federal Channel.



WWM DREDGING PROJECTS

BNM	DATES	AREA	DESCRIPTION
321-15	03 Jun – 31 Dec 15	Southern Branch of Elizabeth River	IVO Route 337. Monday-Saturday, 12 hr. ACE Superfund Site. Not to exceed 50% of width of Federal channel 31 Oct – 30 Nov 15.
045-15	13 Feb 15 – 24 Apr 16	Western Branch of Lynnhaven River & Old Donation Creek	Daylight hours only.
474-15	14 Sep – 31 Dec 15	Bayville Creek	Daylight hours only. Mon – Fri.
547-15	Dec 2015 – 31 Jan 16	Norfolk Harbor, CI Reaches, NIT Dredging	7 days a week, 24 hours a day.



WWM BRIDGES

NTM	PROJECT	DATES	AREA	DESCRIPTION
LNM	Veterans Bridge (Dom Blvd)	01 JAN 13 - 01 APR 17	Elizabeth River/Southern Branch	VC 95 ft high with four-lanes.
LNM	John A Lesner Bridge	10 JUN 14 - 01JUL17	Lynnhaven Inlet	Bridge expansion.
LNM	I-64 High Rise	9 DEC 15 – 23 DEC 15	Elizabeth River, Southern Branch	Emergency fendering repair. Barge decreases channel width by 40FT.



WWW PROJECTS

NTM	PROJECT	DATES	AREA	DESCRIPTION
BNM 401-15	James River Fishing Pier	19 SEP 14 – 28 AUG 16	James River	James River Fishing Pier Demo & Replacement.
BNM 589-15	HRBT Cable Crossing	09 JAN 16 – 14 FEB 16	Thimble Shoals Channel	Precon Marine cable laying project. Full & Partial Channel closures on 13 JAN 16.



WWM MARINE EVENTS

DATE	EVENT	AREA/WATERWAY	DESCRIPTION
31 DEC 15	Cape Charles Crab Pot Drop	Cape Charles Harbor	Fireworks



ANCHORAGES

DATE	VESSEL	ANCHORAGE	POC
21 Dec 1600 – 07 Jan 2359	M/V MG SAKURA, 9331529	Bravo, Western side	Capes Shipping Agency 757-625-3658
30 Dec 0700 – 01 Jan 2359	M/V STEFANOS, 9583744	Bravo	Capes Shipping Agency 757-625-3658
01 Jan 0001 – 07 Jan 2359	M/V ISOLDA, 9180360	Bravo	T Parker Host 757-627-6286



WWM DEADSHIP TOWS

DATE	NAME /LENGTH	POC	FROM	TO