



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

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## LOCAL NOTICE TO MARINERS

**District: 9**

**Week: 41/16**

Issued by: Commander (dpw)  
Ninth Coast Guard District  
1240 East Ninth Street,  
Cleveland, OH 44199-2060  
Telephone: (216) 902-6069

Direct questions about this LNM to the above address.

All distances in this publication are STATUTE MILES unless otherwise noted.

\*District Nine Internet Address\* <http://www.uscg.mil/d9/uscgd9.html>

\*District Nine Local Notice to Mariners email Address\* D09-DG-District-D9-LocalNoticetoMariners@uscg.mil

\*\* Navigation Information Service watchstander, 24 hours a day at (703) 313-5900 \*\* \*\*Internet Address\*\* <http://www.navcen.uscg.gov/>

Light List Reference: Commandant Publication P16502.7, VOL VII, 2016 Edition

Coast Pilot Reference: 2016 U.S. Coast Pilot 6 Great Lakes 46th Edition

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

The Local Notice to Mariners is available on the Internet at <http://www.navcen.uscg.gov/?pageName=InmMain> You will also have links to other government agencies- web pages including the US Army Corps of Engineers and the National Ocean Service.

### REPORT DISCREPANCIES IN AIDS TO NAVIGATION TO THE NEAREST COAST GUARD UNIT

The Ninth District and all Sector offices for their areas of responsibility issue a BROADCAST NOTICE TO MARINERS.

The following Broadcast Notice to Mariners have been incorporated into this week's Local Notice to Mariners:

Sector Buffalo, NY - B195-16 through B197-16

Ninth District - C182-16 through C183-16

Sector Detroit, MI - D136-16 through D137-16

Sector Lake Michigan, WI - M451-16 through M461-16

Sector Sault Ste Marie, MI - S134-16 through S137-16

The United States Coast Guard Navigation 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 for GPS and DGPS. The

NIS also disseminates Safety Broadcasts (BNM), Local Notice to Mariners (LNM), and the latest Notice Advisory to Navstar Users (NANU). NANU notices can be obtained via email subscription through the USCG Navigation Center website: <http://cgls.uscg.mil/mailman/listinfo/nanu>. In addition, the NIS investigates all reports of degradation or loss of GPS, DGPS or AIS service. Users are encouraged to report all degradation or loss of radio navigation services to the NIS via any of the following: Phone: (703) 313-5900, mail to: [webmaster@smtp.navcen.uscg.mil](mailto:webmaster@smtp.navcen.uscg.mil), or on the internet at: <http://www.navcen.uscg.gov>

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### ABBREVIATIONS

#### A through H

ADRIFT - Buoy Adrift  
AICW - Atlantic Intracoastal Waterway  
AI - 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

#### 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

#### 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

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  
 Fl - Flashing  
 G - Green  
 GIWW - Gulf Intracoastal Waterway  
 HAZ - Hazard to Navigation  
 HBR - Harbor  
 HOR - Horizontal Clearance  
 HT - Height

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

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:

LIB - Lighted Ice Buoy

## SECTION I - SPECIAL NOTICES

This section contains information of special concern to the Mariner.

### 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 to navigation with varying degrees of reliability. Prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid to navigation. 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 the practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecision in position fixing methods, prevailing atmospheric and sea conditions, slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying length of chain, and the fact that the 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. Due to the forces of nature, the position of the buoy body can be expected to shift inside and outside the charted symbol. The mariner is also cautioned that 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 that the buoy marks.

LNM: 06/14

### 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](http://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

### ZIKA VIRUS UPDATE

The U.S. Department of Transportation's Maritime Administration (MARAD) has issued MARAD Advisory 2016-03 on the Zika Virus and Impacts on Maritime Commerce. The Advisory can be found at <https://www.marad.dot.gov/newsroom/advisory/2016/marad-advisory-2016-03/>. U.S. flag operators are requested to forward this link to their ships by the most expeditious means.

LNM: 39/16

### RANGE STRUCTURES

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

#### **USACE NOTICE TO NAVIGATION INTERESTS**

Current Federal Channel conditions, shoaling, and the most recent channel surveys are available at the following Army Corps of Engineers web sites:

Buffalo: <http://www.lrb.usace.army.mil/>  
Detroit: <http://www.lre.usace.army.mil/>  
Chicago: <http://www.lrc.usace.army.mil/>  
Rock Island: <http://www.mvr.usace.army.mil/>

LNM: 28/12

#### **GREAT LAKES- AIS PROGRAM**

The following aids to navigation have been established as either synthetic or virtual ATON. Synthetic AIS ATON is a signal broadcasted from an AIS base station to coincide with an existing physical aid to navigation. Virtual AIS ATON is a signal broadcasted from an AIS base station that is electronically charted, but non-existent as a physical aid to navigation. Buoys and lighted buoys that are replaced by a can or nun winter mark will be synthetic AIS ATON year round. Buoys and lighted buoys that are not replaced with a can or nun winter mark will be synthetic AIS ATON during their advertised season in the light list and virtual AIS ATON when not on station.

LNM: 42/15

#### **St. LAWRENCE SEAWAY - Carleton Island to Charity Shoal - Chart 1430 (C)**

Tibbetts Point Light (LLNR 1735)

LNM: 42/15

#### **LAKE ERIE - PA - Erie Harbor - Chart 14835**

Erie Harbor Entrance Lighted Bell Buoy "1" (LLNR 3515)  
Erie Harbor Entrance Lighted Buoy "5" (LLNR 3535)

LNM: 42/15

#### **LAKE ERIE - OH - Toledo Harbor - Chart 14847**

Maumee Bay Entrance Lighted Buoy "1" (LLNR 6045)  
Maumee Bay Lighted Buoy "10" (LLNR 6090)  
Maumee Bay Lighted Buoy "21" (LLNR 6155)  
Maumee Bay Lighted Buoy "30" (LLNR 6195)

LNM: 42/15

#### **LAKE ERIE - OH - Sandusky harbor - Chart 14845**

Moseley Channel Lighted bell Buoy "1" (LLNR 4580)  
Moseley Channel Lighted Buoy "2" (LLNR 4585)

LNM: 42/15

#### **LAKE ERIE - MI - Monroe Harbor - Chart 14846**

Monroe Harbor Lighted Buoy "1" (LLNR 6570)  
Monroe Harbor Lighted Buoy "2" (LLNR 6575)

LNM: 42/15

#### **DETROIT RIVER - MI - Detroit River - Chart 14848**

East Outer Channel Lighted Buoy "16" (LLNR 6960)  
Amherstburg Channel Lighted Buoy "23" (LLNR 6965)  
River Rouge Canal Entrance Lighted Buoy "2" (LLNR 8160)  
Belle Isle Lower Junction Lighted Buoy (LLNR 8205)  
Belle Isle North Lighted Buoy "113" (LLNR 8245)  
Peché Island Lighted Buoy "114" (LLNR 8255)

LNM: 42/15

**LAKE St. CLAIR - MI - Lake St. Clair - Chart 14850**

Lake St. Clair Lighted Buoy "2" (LLNR 8420)  
Lake St. Clair Lighted Buoy "8" (LLNR 8450)  
Lake St. Clair Lighted Buoy "29" (LLNR 8565)  
Lake St. Clair Lighted Buoy "30" (LLNR 8570)

LNM: 42/15

**St. CLAIR RIVER - MI - Head of St. Clair River - Chart 14852**

Russel Island Shoal Lighted Buoy "R1" (LLNR 9745)  
Fawn Island Lighted Buoy "38" (LLNR 9780)  
Marine City Shoal Lighted Buoy "40" (LLNR 9790)  
St. Clair Middle Ground Lighted Buoy "52" (LLNR 9885)  
Stag Island Lighted Buoy "58" (LLNR 9935)

LNM: 42/15

**LAKE HURON - MI - Lake Huron Cut - Chart 14862**

Lake Huron Cut Lighted Buoy "1" (LLNR 10035)  
Lake Huron Cut Lighted Buoy "11" (LLNR 10085)  
Lake Huron Cut Lighted Buoy "12" (LLNR 10090)

LNM: 42/15

**LAKE HURON - MI - Saginaw Bay - Chart 14867**

Charity Island Shoal Lighted Bell Buoy "1" (LLNR 10530)  
Charity Island Shoal Lighted Buoy "3" (LLNR 10535)  
Saginaw Bay Channel Lighted Buoy "5" (LLNR 10600)  
Saginaw Bay Channel Lighted Buoy "6" (LLNR 10605)  
Saginaw Bay Channel Lighted Buoy "15" (LLNR 10660)  
Saginaw Bay Channel Lighted Buoy "16" (LLNR 10665)

LNM: 42/15

**LAKE HURON - MI - Harrisville to Forty Mile Point - Chart 14864**

Alpena Junction Lighted Buoy "AL" (LLNR 11390)  
Nordmeer Wreck Lighted Buoy "WR1" (LLNR 11505)

LNM: 42/15

**STRAITS of MACKINAC - MI - De Tour Passage to Waugoshance Point - Chart 14881**

Round Island Lighted Buoy "3" (LLNR 12575)  
Round Island Lighted Buoy "5" (LLNR 12590)

LNM: 42/15

**LAKE SUPERIOR - MN - Duluth Harbor - Chart 14975**

Duluth Harbor Basin Traffic Buoy (LLNR 15870)

LNM: 42/15

**LAKE MICHIGAN - MI - Waugoshance to Seul Choix Point - Chart 14911**

New Shoal Lighted Buoy "1" (LLNR 17740)  
New Shoal Lighted Bell Buoy "3" (LLNR 17745)  
Grays Reef passage Channel Lighted Buoy "7" (LLNR 17780)

LNM: 42/15

**LAKE MICHIGAN - MI - Platte Bay to Leland - Chart 14912**

Pyramid Point Shoal Lighted Buoy "5" (LLNR 18350)  
Sleeping Bear Lighted Bell Buoy "7" (LLNR 18365)

LNM: 42/15

**LAKE MICHIGAN - IL - Calumet and Indiana harbor - Chart 14929**

Chicago Lake Front Northeast Shoal Lighted Buoy "2" (LLNR 19790)

LNM: 42/15

**LAKE MICHIGAN - WI - Upper Green Bay - Chart 14909**

St. Martin Island Shoal Lighted Buoy "2" (LLNR 21435)  
Chambers island West Shoal Lighted Bell Buoy "3" (LLNR 21900)  
Green island Southeast Shoal Buoy "2" (LLNR 21975)

LNM: 42/15

**LAKE MICHIGAN - WI - Big Bay De Noc - Chart 14908**

Southwest Drisco Shoal Lighted Buoy "DA" (LLNR 21605)

LNM: 42/15

**LAKE MICHIGAN - WI - Little Bay De Noc - Chart 14915**

Little Bay De Noc Lighted buoy "8" (LLNR 21630)

LNM: 42/15

**LAKE MICHIGAN - WI - Menominee and Marinette Harbors - Chart 14917**

Menominee Entrance Lighted Buoy "1" (LLNR 21920)  
Menominee Entrance Lighted Buoy "2" (LLNR 21925)

LNM: 42/15

**LAKE MICHIGAN - WI - Lower Green Bay - Chart 14910**

Sherwood Point Traffic Lighted Bell Buoy (LLNR 22005)

LNM: 42/15

**LAKE MICHIGAN - WI - Head of Green bay - Chart 14918**

Green Bay Harbor Entrance Channel Lighted Buoy "1" (LLNR 22105)  
Green Bay Harbor Entrance Channel Lighted Bell Buoy "2" (LLNR 22110)  
Green Bay Harbor Entrance Channel Lighted Buoy "5" (LLNR 22125)  
Green Bay Harbor Entrance Channel Lighted Buoy "9" (LLNR 22145)  
Green Bay Harbor Entrance Channel Lighted Buoy "10" (LLNR 22150)

LNM: 42/15

**THE DATES OF LATEST EDITIONS, NAUTICAL CHARTS AND MISCELLANEOUS MAPS**

Up to date information on latest editions, nautical charts and miscellaneous maps can be found at the following web address:  
<http://www.nauticalcharts.noaa.gov/>

LNM: 32/13

**COAST PILOT 6-NEW EDITION**

PUBLICATION–National Oceanic Atmospheric Administration (NOAA)–U. S. Coast Pilot 6, Great Lakes and their connecting waterways, 46th Edition, 2016, has been issued and is ready for free download and weekly updates at <http://nauticalcharts.noaa.gov/nsd/cpdownload.htm>.

Only Print-on-Demand (POD) bound copies are available for purchase; see <http://www.nauticalcharts.noaa.gov/staff/charts.htm#POD>.

The 2016 Edition cancels the preceding 2015 Edition, and incorporates all previous corrections.

LNM: 08/16

**THE 2016 ELECTRONIC LIGHT LIST**

The 2016 Light List is now available.

Coast Guard Light Lists are a means for communicating aids to navigation information to the maritime public. The last government printed Light Lists were the 2014 editions. While the Light Lists will no longer be available in government printed form, commercial reproductions may be available for purchase from maritime service providers. Local Notices to Mariners will continue to advertise Light List corrections and NAVCEN will continue to publish a compilation of corrections.

2016 Light Lists are available on the USCG Navigation Center's website at: <http://www.navcen.uscg.gov/?pageName=lightLists>

Complete versions of the 2016 Light Lists are updated weekly on the NAVCEN website and mariners should download applicable copies and updates as needed at: <http://www.navcen.uscg.gov/?pageName=lightListWeeklyUpdates>.

A summary of 2016 Light List corrections are available at: <http://www.navcen.uscg.gov/?pageName=lightListCorrections>

Guidance for use of electronic navigation publications onboard U.S. vessels can be found at:  
[http://www.uscg.mil/hq/cgvc/cvc/policy/policy\\_letters/543/CG-543\\_pol10-05.pdf](http://www.uscg.mil/hq/cgvc/cvc/policy/policy_letters/543/CG-543_pol10-05.pdf)

LNM: 02/16

#### **USE OF ELECTRONIC CHARTS AND PUBLICATIONS IN LIEU OF PAPER CHARTS, MAPS, AND PUBLICATIONS**

The U.S. Coast Guard has issued Navigation and Vessel Inspection Circular (NVIC) No. 01-16 which contains guidance on the use of electronic charts and publications in lieu of paper charts, maps, and publications. This guidance applies to U.S. flagged vessels subject to U.S. domestic chart, map, and publication carriage requirements contained in Titles 33 and 46 of the Code of Federal Regulations. The NVIC can be viewed at <https://www.uscg.mil/hq/cg5/nvic/default.asp> or <https://cgportal2.uscg.mil/library/directives/SitePages/Home.aspx>.

LNM: 06/16

#### **GREAT LAKES - Great Lakes Water Levels**

The expected water levels on the Great Lakes for October 14, 2016. Connecting Channels and the St. Lawrence River, given in inches above (+) or below (-) Low Water Datum (LWD). LWD is a plane of reference used on a navigation chart. It is also known as chart datum.

Great Lakes:

Lake Ontario +17, Lake Erie +33, Lake St. Clair +36, Lake Michigan-Huron +28, Lake Superior +18.

St. Lawrence River:

Above Long Sault Dam +25, Above Iroquois Dam +15, Ogdensburg +13, Alexandria Bay +13, Head of River at Cape Vincent +17.

Detroit River:

Lake Erie at Pelee Passage +33, Mouth of River at Gibraltar +34, Fort Wayne +39, Head of River above Belle Isle +36.

St. Clair River:

Mouth of River at St. Clair Flats +36, Algonac +39, St. Clair +33, Blue Water Bridge +34, Head of River at Fort Gratiot +30, Lake Huron Approach Channel +28.

St. Marys River:

Mouth of River at Detour +28, West and Middle Neebish +25, Head of Little Rapids +26, U.S. Slip +25, Above Locks +21, Head of River at Point Iroquois +18.

Available water depth is determined for a location by adding (if +) or subtracting (if -) the amount from the above to the water depth shown on National Oceanic and Atmospheric Administration (NOAA) navigational charts. Caution: Depths so determined are representative of a still water surface elevation, disturbed by neither wind nor other causes. Depth, however, may be reduced or increased as much as several feet for short periods of time due to these disturbances, or when sections of channels develop shoals. Vessel masters should refer to the Local Notice to Mariners for extent of shoaling and scattered bedrock projections in all channels. For further information direct inquiries to: Department of the Army, Detroit District Corps of Engineers P. O. Box 1027, Detroit, MI 48231, (313) 226-6443. Additional information can be found on the U.S. Army Corps of Engineers Information Center website at

<http://www.lre.usace.army.mil/Missions/GreatLakesInformation/GreatLakesWaterLevels/WaterLevelForecast/ConnectingChannelsForecast.asp>

LNM: 41/16

#### **ST. LAWRENCE RIVER- NY - Isle St. Regis To A Croil Islands- CHART 1435**

The following aids to navigation have been permanently discontinued by request of the SLSDC:

Galop Island Sluff In Downstream Buoy (LLNR 825)

St. Lawrence Seaway Buoy "121A" (LLNR 830)

LNM: 35/16

#### **LAKE ERIE – NY – Buffalo Ship Canal – Chart 14833**

There is a steel I-beam protruding out of the water in approximate position 42-51.640N 078-52.100W. The steel I-beam is marked with a temporary white buoy FL W 4s.

LNM: 17/16

#### **LAKE ERIE - OH - West End of Lake Erie - Chart 14846**

Port Clinton East Pierhead Light "1" (LLNR 5870) The Day mark has been temporarily discontinued due to significant damage to the structure. The light remains operational and will remain operational until construction. The pier and light structure are scheduled to be replaced during the summer of 2016. During the construction the aid to navigation structure will be removed to make way for the pier construction. A lighted buoy will mark the east side of the channel entrance at that time. Upon completion of the construction a new aid to navigation structure will be installed with a light and day mark. Future updates can be found in the Local Notice to Mariner as the construction progresses and aid to navigation signals change.

LNM: 47/15

**LAKE HURON - Saginaw Bay - Chart 14863**

Tawas Light (LLNR 11240) The light in the lighthouse has been permanently discontinued. The light has been moved to Tawas Point in position AT 44-14-54N/083-27-32W. The characteristic of the light has changed FL W 4(1)s. The range of the light is 11 statute miles. The red sector has been discontinued.

LNM: 40/16

**LAKE HURON- MI – Straits of Mackinac – Chart 14881**

Spectacle Reef Light (LLNR 11730) has changed its lighting characteristics. The nominal range of this aid has changed to (10 statute miles) and the flash has changed to FI R 4s. All mariners are requested to transit the area with caution.

LNM: 07/16

**STRAITS OF MACKINAC - De Tour Passage to Waugoshance Point - Chart 14881**

The following seasonal aids to navigation will be decommissioned for the season this year on November 14 which is earlier than the advertised Light List date:

Mackinac Bridge Lighted Bell Buoy "1" (LLNR 12625)  
Mackinac Bridge Lighted Gong Buoy "2" (LLNR 12630)  
Mackinac Bridge Lighted Bell Buoy "3" (LLNR 12645)  
Mackinac Bridge Lighted Gong Buoy "4" (LLNR 12650)  
Cheboygan Traffic Lighted Bell Buoy (LLNR 12180)

LNM: 39/16

**LAKE MICHIGAN - MI - Waugoshance Point to Seul Choix Point - Chart 14911**

An uncharted object has been reported north of the LCA track lines east of Lansing Shoal in approximate position 45-54.647'N 085-24.970'W. The object appears to be 23-24 feet below the surface at low water datum.

LNM: 30/15

**LAKE MICHIGAN - IL - Illinois River - Aton Discrepancy**

The Coast Guard has received a report that the red nun buoy and green can buoy on the Illinois River at MM 283.9 are switched around. All mariners transit the area with caution.

LNM: 34/16

**CHICAGO RIVER – IL – Chicago – Chart 14928**

A temporary 60 foot floating dock for paddle craft is positioned on the southern bank of the South Branch of the Chicago River at mile 322.5, approximately 1000 feet west of the S. Halsted St Bridge through December, 2016. Mariners should be aware of the structure and be on the lookout for arriving/departing paddle craft.

LNM: 44/15

**ST. MARY'S RIVER - Munuscong Lake to Sault Ste. Marie - Chart 14883**

Middle Neebish South Range Front Light (LLNR 13275) The light and day mark will be discontinued beginning on September 12, 2016 for approximately 60 days for construction repairs.

LNM: 36/16

**ST. MARY'S RIVER - Munuscong Lake to Sault Ste Marie - Chart 14883**

Sugar Island Leading Light (LLNR 14040) The light has been replaced with a Sector Port Entry Light. The light displays an ISO W 6s light in the channel center, a green light when right of channel center, and a red light when left of channel center while down bound.

LNM: 37/16

**ST. MARYS RIVER - MI - Chart 14884 - Chart 14883 - Chart 14882**

The aids in the St. Mary's River previously advertised in the Advanced Section, Section V of the Local Notice to Mariner to become synthetic AIS ATON have been turned off due to coverage issues. This problem is being resolved and the aids should be turned back on prior to the Spring 2016 navigation season.

LNM: 50/15

**LAKE SUPERIOR - MI - St. Mary's River to Au Sable Point - Chart 14962**

Little Lake Harbor has shoaled to less than 4 feet across the entrance between Little Lake Harbor Light "2" (LLNR 14540) and Little Lake Harbor Light "3" (LLNR 14545). The aids to navigation will continue to be

maintained however transiting into this harbor is not recommended due to the shoaling.

LNM: 12/16

## 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
1410	St. Lawrence Seaway Light 204	REDUCED INT			40/16	
<b>3410</b>	<b>Dunkirk Light</b>	<b>LT EXT</b>	<b>14823</b>	<b>B-197-16</b>	<b>41/16</b>	
3765	Ashtabula Harbor Lighted Buoy 3	LT EXT	14836	B188-16	39/16	
4155	Cleveland Harbor East Basin Channel Lighted Buoy 8	LT EXT	14839	B191-16	40/16	
4625	Sandusky Straight Channel Range Front Light	DAYMK MISSING	14842	D118-16	35/16	
6785	Long Point Light (C)	LT IMCH		B158-16	33/16	
9690	Grande Pointe Light 23	LT EXT	14853	D107-16	34/16	
<b>9790</b>	<b>Marine City Shoal Lighted Buoy 40</b>	<b>OFF STA/BUOY DMGD</b>	<b>14853</b>	<b>D-136-16</b>	<b>41/16</b>	
9870	Courtright Light (C)	LT EXT		D074-16	23/16	
10065	Lake Huron Cut Light 7	REDUCED INT/SS INOP/RAC INOP	14865	D033-16	14/16	
<b>10115</b>	<b>Port Sanilac Light</b>	<b>LT IMCH</b>	<b>14862</b>		<b>41/16</b>	
10210	Point Aux Barques Light	LT EXT	14862	D130-16	39/16	
16505	Two Harbors East Breakwater Light	REDUCED INT	14966	S117-16	37/16	
17280	South Shore Buoy 10	MISSING	14997	S130-16	40/16	
17370	Brule Narrows Lighted Buoy 32	LT EXT	14997	S131-16	40/16	
21940	Menominee Pier Light 6	LT EXT	14917	M115-16	17/16	

### DISCREPANCIES (FEDERAL AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
3490	Willis Crib Dock Light	RELIGHTED	14823		41/16	41/16
9630	St Clair Flats Light 13	RELIGHTED	14853		37/16	41/16
10560	Saginaw Bay Channel Range Rear Light	RELIGHTED	14867		40/16	41/16
12580	Round Island Passage Light	WATCHING PROPERLY	14881		41/16	41/16
13190	Harwood Point East Range Front Light	WATCHING PROPERLY	14887	S-136-16	41/16	41/16
13195	Harwood Point East Range Rear Light	WATCHING PROPERLY	14887	S-137-16	41/16	41/16

### DISCREPANCIES (PRIVATE AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
2515	Youngstown Safe Boating Zone Lighted Float A	OFF STA/LT IMCH	14816	B118-16	29/16	
3905	Painesville Inner Intake Crib Lighted Buoy 1	MISSING	14837		24/16	
4035	Cleveland Intake Lighted Buoy	LT EXT	14826		30/16	
4190	Whiskey Island Marina Entrance Light 1	LT IMCH/DAYMK MISSING	14839	B059-16	21/16	
4191	Whiskey Island Marina Entrance Light 2	DAYMK MISSING	14839	B060-16	21/16	
4810	Causeway Leading Light	LT EXT	14845		20/16	
4945	Lyman Harbor Light	LT EXT	14845		20/16	
5280	Lakeside Marine Inc. Pierhead Light	LT EXT	14842		29/16	
5590	Kellstone Crib Light	LT EXT	14842	D066-16	22/16	
5832	Catawba Miller Light A	MISSING	14842		29/16	

5832.1	Catawba Miller Light B	MISSING	14842		29/16
5832.2	Catawba Miller Light C	MISSING	14842		29/16
5840	Catawba State Park Pier Light	LT IMCH	14842		29/16
5846	Catawba Island Marina South Light 1	LT EXT	14842		29/16
5847	Catawba Island Marina South Light 2	LT IMCH	14842		29/16
8396.1	Port Lagoon Light 1	LT EXT	14853		30/16
8695	Grosse Point Club Harbor Entrance West Light	LT EXT	14853	D179-15	42/15
19580	Burns Harbor East Light	LT EXT	14926		30/16
<b>19750</b>	<b>Hammond Marina Entrance Light 2</b>	<b>LT EXT</b>	<b>14926</b>		<b>41/16</b>
19955	Burnham Park Harbor Light	LT EXT	14926	M404-16	36/16

**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
2525	Lewiston Ski Jump Light	DISCONTINUED	14816		28/16	46/16
4451	Vermilion Museum Lighthouse	DISCONTINUED	14826	B002-16	08/16	
5870	Port Clinton East Pierhead Light 1	DISCONTINUED	14842		27/16	
6015	Cooley Canal Front Range Light	DISCONTINUED	14846		11/16	
6016	Cooley Canal Rear Range Light	DISCONTINUED	14846		11/16	
10200	Harbor Beach Marina Lighted Buoy 3	DISCONTINUED	14862		17/16	
13275	Middle Neebish South Range Front Light	DISCONTINUED	14887	S123-16	39/16	
15260	Gull Island Light	Reduced Intensity	14973	S085-16	39/16	
18450	Manistee North Pierhead Light	Reduced Intensity	14938	M126-16	19/16	
18965	Grand Haven South Pierhead Entrance Light	Reduced Intensity	14933	M443-16	40/16	
18975	Grand Haven South Pierhead Inner Light	Reduced Intensity	14933	M443-16	40/16	
19505	South Haven South Pierhead Light	DISCONTINUED	14906	M406-16	36/16	

**TEMPORARY CHANGES CORRECTED**

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

**PLATFORM TEMPORARY CHANGES**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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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.

**14837                    29th Ed.                    01-OCT-13                    Last LNM: 45/11                    NAD 83                    41/16**

Chart Title: Fairport Harbor

Main Panel 1160 FAIRPORT HARBOR LAKE ERIE-OHIO. Page/Side: N/A

CHANGE	tabulation - FAIRPORT HARBOR AND GRAND RIVER <a href="http://ocsddata.ncd.noaa.gov/ntm/SupportImage.aspx?ItemID=268203">http://ocsddata.ncd.noaa.gov/ntm/SupportImage.aspx?ItemID=268203</a> ; tabulation - FAIRPORT HARBOR AND GRAND RIVER (NOS NW-25918)	NOS 41-44-52.000N	081-16-13.000W
CHANGE	tabulation - FAIRPORT HARBOR AND GRAND RIVER <a href="http://ocsddata.ncd.noaa.gov/ntm/SupportImage.aspx?ItemID=268237">http://ocsddata.ncd.noaa.gov/ntm/SupportImage.aspx?ItemID=268237</a> ; tabulation - FAIRPORT HARBOR AND GRAND RIVER (NOS NW-25948)	NOS 41-44-52.000N	081-16-13.000W

**14839                    38th Ed.                    01-MAY-15                    Last LNM: 01/16                    NAD 83                    41/16**

Chart Title: Cleveland Harbor, including lower Cuyahoga River

Main Panel 1161 CLEVELAND HARBOR INCLUDING LOWER CUYAHOGA RIVER. Page/Side: A

CHANGE	tabulation - CUYAHOGA AND OLD RIVERS CHANNEL DEPTHS <a href="http://ocsddata.ncd.noaa.gov/ntm/SupportImage.aspx?ItemID=268204">http://ocsddata.ncd.noaa.gov/ntm/SupportImage.aspx?ItemID=268204</a> ; tabulation - CUYAHOGA AND OLD RIVERS CHANNEL DEPTHS (NOS NW-25923)	NOS 41-28-18.200N	081-43-16.600W
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**14860                    37th Ed.                    01-MAY-16                    Last LNM: 40/16                    NAD 83                    41/16**

Chart Title: Lake Huron

Main Panel 1312 LAKE HURON. Page/Side: A

RELOCATE	Tawas Light Change to Fl W 4(1)s 46ft 11 St M (MRASS)	CGD09 from 44-15-13.409N to 44-14-54.000N	083-26-58.352W 083-27-32.000W
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**14863                    32nd Ed.                    01-MAR-14                    Last LNM: 40/16                    NAD 83                    41/16**

Chart Title: Saginaw Bay;Port Austin Harbor;Caseville Harbor;Entrance to Au Sable River;Sebewaing Harbor;Tawas Harbor

**Inset 1317 TAWAS HARBOR MICHIGAN INSET. Page/Side: N/A**

RELOCATE	Tawas Light Change to Fl W 4(1)s 46ft 11 St M (MRASS)	CGD09 from 44-15-13.409N to 44-14-54.000N	083-26-58.352W 083-27-32.000W
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**Main Panel 1316 SAGINAW BAY MICHIGAN. Page/Side: N/A**

RELOCATE	Tawas Light Change to Fl W 4(1)s 46ft 11 St M (MRASS)	CGD09 from 44-15-13.409N to 44-14-54.000N	083-26-58.352W 083-27-32.000W
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**14901 16th Ed. 01-JUN-16 Last LNM: 28/16 NAD 83 41/16**

*ChartTitle: Lake Michigan (Mercator Projection)*

**Main Panel 1361 LAKE MICHIGAN. Page/Side: A**

CHANGE	Calumet Harbor Breakwater South End Light HORN to (MRASS)	CGD09 at 41-43-33.652N	087-29-35.956W
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**14905 31st Ed. 01-JAN-07 Last LNM: 22/16 NAD 83 41/16**

*ChartTitle: Waukegan to South Haven;Michigan City;Burns International Harbor;New Buffalo*

**Main Panel 1371 LAKE MICHIGAN WAUKEGAN TO SOUTH HAVEN . Page/Side: N/A**

CHANGE	Calumet Harbor Breakwater South End Light HORN to (MRASS)	CGD09 at 41-43-33.652N	087-29-35.956W
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**14926 12th Ed. 01-OCT-10 Last LNM: 41/16 NAD 83 41/16**

*ChartTitle: SMALL-CRAFT BOOK CHART - Chicago and South Shore of Lake Michigan (book of 30 charts)*

**Extension 1461 CHICAGO AND VICINITY PAGE 13. Page/Side: 13**

CHANGE	Indiana Harbor Light 7 F G 45ft 8 St M "7"	CGD09 at 41-40-00.758N	087-26-31.264W
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**Extension 1478 CHICAGO AND VICINITY PAGE 27. Page/Side: 27**

CHANGE	Bridge Construction; Chart No. 1: D.d, with magenta screen extending 500 feet from bridge (NOS NW-25928)	NOS 41-38-41.000N	087-33-33.700W
ADD	Bridge Construction Label; Bridge under construction (see note) (NOS NW-25928)	NOS 41-38-41.000N	087-33-33.700W
ADD	Bridge Construction Note; CAUTION: Fixed and floating obstructions, some submerged, may exist within the magenta tinted bridge construction area. Mariners are advised to proceed with caution. (NOS NW-25928)	NOS 41-38-31.400N	087-33-17.000W
ADD	Bridge Construction Note; CAUTION: Fixed and floating obstructions, some submerged, may exist within the magenta tinted bridges construction area. Mariners are advised to proceed with caution. (NOS NW-25928)	NOS 41-38-32.500N	087-34-01.200W

**Extension 1480 CHICAGO AND SOUTH SHORE PAGE 29. Page/Side: 29**

CHANGE	Calumet Harbor Breakwater South End Light HORN to (MRASS)	CGD09 at 41-43-33.652N	087-29-35.956W
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**14927 25th Ed. 01-AUG-06 Last LNM: 48/15 NAD 83 41/16**

*ChartTitle: Chicago Lake Front;Gary Harbor*

**Main Panel 1482 CHICAGO LAKE FRONT. Page/Side: N/A**

CHANGE	Calumet Harbor Breakwater South End Light HORN to (MRASS)	CGD09 at 41-43-33.652N	087-29-35.956W
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**14929 25th Ed. 01-DEC-10 Last LNM: 41/16 NAD 83 41/16**

*ChartTitle: Calumet, Indiana and Buffington Harbors, and Lake Calumet*

**Main Panel 1485 CALUMET AND INDIANA HARBORS. Page/Side: N/A**

CHANGE	Bridge Construction; Chart No. 1: D.d, with magenta screen extending	NOS 41-38-41.000N	087-33-33.700W
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	500 feet from bridge (NOS NW-25928)		
CHANGE	Calumet Harbor Breakwater South End Light HORN to (MRASS)	CGD09 at 41-43-33.652N	087-29-35.956W
CHANGE	Indiana Harbor Light 7 F G 45ft 8 St M "7"	CGD09 at 41-40-00.758N	087-26-31.264W
ADD	Bridge Construction Label; Bridge under construction (see note) (NOS NW-25928)	NOS 41-38-41.000N	087-33-33.700W
ADD	Bridge Construction Note; CAUTION: Fixed and floating obstructions, some submerged, may exist within the magenta tinted bridge construction area. Mariners are advised to proceed with caution. (NOS NW-25928)	NOS 41-38-31.400N	087-33-17.000W
ADD	Bridge Construction Note; CAUTION: Fixed and floating obstructions, some submerged, may exist within the magenta tinted bridges construction area. Mariners are advised to proceed with caution. (NOS NW-25928)	NOS 41-38-32.500N	087-34-01.200W

### SECTION V - ADVANCE NOTICES

This section contains advance notice of approved projects, changes to aids to navigation, or upcoming temporary changes such as dredging, etc. Mariners are advised to use caution while transiting these areas.

#### SUMMARY OF ADVANCED APPROVED PROJECTS

<u>Approved Project(s)</u>	<u>Project Date</u>	<u>Ref. LNM</u>
None		

Advance Notice(s)

**LAKE ERIE - West End of Lake Erie - Chart 14830**

Change the following buoys to seasonal maintained from April 7 to November 1.

- Erie Proving Ground Buoy "H" (LLNR 5815)
- Erie Proving Ground Buoy "J" (LLNR 5820)
- Erie Proving Ground Buoy "K" (LLNR 5825)
- Erie Proving Ground Buoy "L" (LLNR 5830)

LNM: 31/16

**ST. CLAIR RIVER - MI - Chart 14852**

Harts landing Light (LLNR 9860) change the light characteristic from FG to FI G 6(1) and increase the range from 8 to 9 statute miles. It has been reported that the FG characteristic is difficult to see with the background lights.

LNM: 48/15

**LAKE HURON - MI - Harrisville to Forty Mile Point - Chart 14864**

Thunder Bay Traffic Lighted Bell Buoy "TB" (LLNR 11355) Add synthetic AIS to this aid when commissioned for the season and virtual AIS from December 01 to April 28.

LNM: 18/16

**LAKE HURON - MI - Lake Huron Cut - Chart 14862**

Lake Huron Cut Light "7" (LLNR 10065) Permanently discontinue the fog signal and RACON.

LNM: 43/15

**LAKE HURON - MI - Detour Passage to Waugoshance Point - Chart 14881**

Cheboygan Traffic Lighted Bell Buoy (LLNR 12180) Add synthetic AIS to this aid when commissioned for the season and virtual AIS from December 07 to May 01.

LNM: 18/16

**LAKE MICHIGAN - WI - Algoma to Sheboygan - Chart 14903**

Kewaunee Shoal Light (LLNR 20950) change the seasonal fog signal operation from Apr. 1 to Dec. 1, to Apr. 1 to Nov. 1.

LNM: 27/14

**LAKE MICHIGAN - MI - Waugoshance Point to Seul Choix Point - Chart 14911**

Simmons Reef Lighted Bell Buoy "2" (LLNR 17760) discontinue the nun winter mark from November 28 to April 21.

LNM: 15/16

**LAKE MICHIGAN - WI - Upper Green Bay - Chart 14909**

St. Martin Island Light (LLNR 21450) change the characteristic of the light from AL WR 10s to FI W 10s. The range would be reduced from 18 statute miles to 16 statute miles.

LNM: 31/14

**LAKE MICHIGAN - WI - Upper Green Bay - Chart 14909**

Baileys Harbor Entrance Lighted Bell Buoy (LLNR 21235) Add synthetic AIS to this aid when commissioned for the season and virtual AIS from October 14 to April 21.

LNM: 18/16

**LAKE MICHIGAN - MI - Holland Harbor - Chart 14932**

Holland Harbor South Pierhead Light (LLNR 19295) change the characteristic from AL WR 10s to FI R 10s and reduce the range of the light from 17 statute miles to 15 statute miles.

LNM: 39/12

**LAKE MICHIGAN - WI - Upper Green Bay - Chart 14909**

Boyer Bluff Light (LLNR 21770) reduce the range of the light from 8 statute miles to 6 statute miles.  
Eagle Bluff Light (LLNR 21825) reduce the range of the light from 7 statute miles to 6 statute miles.

LNM: 28/15

**LAKE MICHIGAN - IN - Indiana Harbor - Chart 14929**

Indiana Harbor Light "6" (LLNR 19695) Remove the higher intensity beam on bearing 165.5 degrees.  
Indiana Harbor Light "7" (LLNR 19700) Remove the higher intensity beam towards the lake.

LNM: 46/15

**LAKE MICHIGAN - IL - Calumet River - Chart 14929**

Calumet Harbor Breakwater South End Light (LLNR 19800) change the characteristic of the light from AI WR 10s to FI R 10(1)s. Change the fog signal from operating continuously to "Fog Signal operates by keying microphone five times on VHF FM Channel 83A".

LNM: 48/15

**LAKE SUPERIOR - MI - Big Bay Point to Redridge - Chart 14964**

Copper Harbor Entrance Lighted Bell Buoy "CH" (LLNR 15180) Add synthetic AIS to this aid when commissioned for the season and virtual AIS from October 14 to May 14.

LNM: 18/16

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**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).

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**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)

**ST LAWRENCE RIVER - Ile St. Regis To/A Croil Islands - Chart 1433(C)**

St. Lawrence Seaway Buoy "19" (LLNR 125) permanently discontinue.

LNM: 25/16

**LAKE ONTARIO - Clayton To False Duck Island - Chart 14802**

East Charity Shoal Traffic Lighted Buoy (LLNR 1765) discontinue the physical lighted buoy and make the aid to navigation an AIS virtual ATON.

LNM: 25/16

**ST. CLAIR RIVER - Chart - 14852**

Russell Island Light (LLNR 9725) Change the characteristic of the light to FG eliminating the white and green sector. The range of the light will be 8 statute miles.

LNM: 39/16

**LAKE HURON - Harrisville to Forty Mile Point - Chart 14864**

Alpena Light (LLNR 11370) reduce the range of the light from 12 statute miles to 10 statute miles.

LNM: 39/16

**LAKE MICHIGAN - Waugoshance Point to Seul Coix Point - Chart 14911**

Boulder Reef Lighted Bell Buoy "1" (LLNR 21525) permanently change the seasonal decommissioning date from December 1 to November 14.

LNM: 39/16

**For any comments or questions on these proposed changes please contact:**

Mr. Doug Sharp of the Ninth District Aids to Navigation office at (216) 902-6070.

LNM: 30/13

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**SECTION VII - GENERAL**

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

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**Waterways Analysis and Management System Study - 2016**

The Coast Guard is conducting a Waterways Analysis and Management System Study on the following waterways during 2016. The study focuses on the area's aid to navigation system, waterborne commerce, marine casualty information, emergency response plans, routine and emergency communication capabilities, and future development projects. Any company or individual wishing to comment on the waterway reviews listed below is encouraged to contact the Coast Guard unit listed or email comments to [william.d.sharp@uscg.mil](mailto:william.d.sharp@uscg.mil). Any comments emailed will be forwarded to the appropriate unit for use in the WAMS project. A survey is attached to the Local Notice to Mariner and can be used to comment on these reviews or on any waterways located in the Great Lakes.

Sackets Harbor (LLNR 1755 - 2024.9)  
Oswego Harbor (LLNR 2025 - 2140)  
Sodus Bay (LLNR 2145 -2275)  
Buffalo Black Rock Canal (LLNR 2665 - LLNR 3360)  
Dunkirk Harbor (LLNR 3365 - LLNR 3492)  
Commander  
Sector Buffalo  
1 Fuhrmann Blvd.  
Buffalo, N.Y. 14203  
(716) 843-9524

Huron Harbor (LLNR 4430 - LLNR 5455)  
Commanding Officer  
USCGC Bristol Bay (WTGB 102)  
110 Mt. Elliot Avenue  
Detroit, Mi. 48207  
(313) 568-9548

Munising/Grand Marais (LLNR 14550 - LLNR 14615)  
Marquette (LLNR 14620 - LLNR 14720)  
Boundary Waters / Lake of the Woods (LLNR 16925 - LLNR 17715)  
Commander  
Sector Sault Ste. Marie  
337 Water St.  
Sault Ste. Marie, Mi. 49783  
(906) 635-3270

Keweenaw Waterway (LLNR 14725 - LLNR 15250)  
Commanding Officer  
USCGC Alder (WLB 216)  
1201 Minnesota Avenue  
Duluth, Mn. 55802  
(218) 529-3131

LNM: 39/12

**GREAT LAKES - Marine Events**

Marine events such as races, parades, regattas, and fireworks displays are frequently held in the Great Lakes region. Advance information on specific events is contained in enclosure (2) of this publication. The public is reminded to listen to the local broadcast notice to mariners for the most up-to-date information on a marine event. Mariners are advised that some events may require temporary aids to navigation that are not displayed on a chart or in the Light List, and that they should exercise additional caution while operating in the vicinity of a scheduled marine event.

LNM: 24/13

**NEW YORK BARGE CANAL – NY – Erie Canal – Chart 14786 – Bridge Maintenance**

From April 1, 2016 through October 31, 2017, two platforms will be installed under the E-63A, I-81 Bridges at Mile 150.7 over the Erie Canal at Hastings, NY that are 8 feet wide and hang approximately 4 feet below low steel. Flashing red lights will be displayed on the bottom four-corners of the platforms and a minimum of 85 feet horizontal clearance will be clear of any obstructions to allow vessels to pass under the bridge.

LNM: 45/15

**LAKE ONTARIO - NY -Braddock Bay - Chart 14804**

The Wesson Group, LLC will be constructing a new break wall within the mouth of Braddock Bay beginning on August 1, 2016 December, 31 2016. Hours of operation are 0700 - 1900 Monday to Saturday. Mariners should use extreme caution when transiting the area and stay clear of the operations, For further information contact Jeff Lantiegne or Matt Schuler at (315)525-7184.

LNM: 34/16

**LAKE ERIE – NY – Niagara River – Chart 14816 – Bridge Maintenance**

From June 13 through October 27, 2016 scaffolding will be installed under the American Rapids Bridge at Goat Island over the Niagara River that hangs approximately 7 feet below low steel. Man lifts will be used during the installation and removal of the scaffolding. Spotters will warn of approaching vessels and move the man lifts to allow vessels to pass.

LNM: 23/16

**LAKE ERIE – NY – Niagara River – Chart 14822 – Bridge Maintenance**

From July 10, 2016 through May 18, 2019 scaffolding that extends approximately 6 feet below low steel will be installed under the Peace Bridge at Mile 1.5 over the Black Rock Canal. Amber lights will mark the bottom and four corners of the scaffolding hanging below low steel. Scaffolding under the bridge over the Niagara River will remain above low steel.

LNM: 16/15

**LAKE ERIE – NY – Niagara River – Chart 14832 – Bridge Inspection**

From October 18 to October 26, 2016 between the hours of 0800 and 1800 daily divers will be inspecting the North Grand Island Bridge at Mile 18.0 over the Niagara River. Spotters will warn of approaching vessels and move the divers to allow vessels to pass. A dive safety boat will monitor VHF-FM Marine Channel 16.

LNM: 39/16

**LAKE ERIE –OH –Fairport Harbor – Chart 14837**

Kokosing Industrial has established a mooring buoy to facilitate the construction on going in Fairport Harbor. The buoy is a standard white mooring buoy with a blue stripe and is 3 to 5 foot height and is marked with a Quick Flashing White Light. The buoy has been placed in the following position: 41° 45'51"N 081° 16'01"W, and will remain in place until December 2016. For further information contact Travis Lake at (231) 420-0093 or Mike Schmeltzer at (231) 420-1195.

LNM: 30/16

**LAKE ERIE –OH –Willoughby – Chart 14825**

Durocher Marine will be conducting repairs to dredging out fall pipe in Willoughby, OH. Operations will commence July 20th 2016 thru November 15th 2016. Hours of operation are from 0700- 1900 during normal operation and 24 hrs a day as needed. Spud barge, material barge(s), and Tug Champion will be working at the end of the Willoughby outfall pipe. Vessels may contact Tug Champion on marine VHF Channel 13, and 16. For further information contact Travis Lake at (231) 420-0093 or Mike Schmeltzer at (231) 420-1195.

LNM: 27/16

**LAKE ERIE – OH - Avon Lake - Chart 14826**

Geo Gradel Co. will commence dredging operations in Avon Lake, OH in the vicinity of NRG Power Station, beginning on September 26, 2016 to October 31, 2016. Hours of operation are from 0700 to 1700, Monday to Friday. Tug Mighty John III will monitor channels 19 and 16. Mariners are requested to reduce speed and use caution around dredging equipment, for further information contact David J. Fingel at 419-265-0574.

LNM: 39/16

**LAKE ERIE – OH – Maumee River - Chart 14846 – Bridge Replacement**

From July 1, 2015 through December 31, 2017, Bridge demolition and construction activities will be performed at the State Route 109 Bridge at Mile 44.4 over the Maumee River near Napoleon, Ohio. Mariners should use caution when transiting the area.

LNM: 20/14

**LAKE ERIE – OH – Maumee River - Chart 14846 – Bridge Discrepancy**

The Coast Guard has received a report that the lights on the CSX Railroad Bridge at Mile 11.38 over the Maumee River are extinguished.

LNM: 14/15

**LAKE ERIE – OH – Maumee River - Chart 14846 – Dredging Operations**

Luedtke Engineering Co. will commence dredging operations in the vicinity of Maumee Bay, Toledo, OH, beginning on September 15, 2016 November 20, 2016. Hours of operation are 24 Hours 7 days a week. Tug Paul Luedtke will monitor channels 10, 19 and 16. Mariners are requested to reduce speed and use caution around dredging equipment, for further information contact Kevin Hollenbeck at 734-502-3833 or Tom Zatkovic at 517-575-7022.

LNM: 37/16

**LAKE ERIE – OH – Toledo Harbor – Chart 14847 – Bridge Maintenance**

From September 6 through November 5, 2016 spider scaffolding will be installed on the Veterans Glass Memorial I-280 Bridge at Mile 3.25 over the Maumee River that will not extend below low steel.

LNM: 35/16

**LAKE ERIE –OH – Toledo Harbor – Chart 14847 – Bridge Maintenance**

From October 10, 2016 through November 1, 2017 scaffolding that hangs approximately 3 feet below low steel will be installed under the Anthony Wayne Bridge at Mile 5.16 over the Maumee River except for the center 200 foot navigation channel will be clear of any scaffolding or equipment. From January 9, 2016 through March 24, 2017 additional scaffolding that hangs approximately 3 feet below low steel will be placed in the center 200 foot of the channel. From October 10, 2016 through October 31, 2016 and again from October 9, 2017 through October 31, 2016 mariners are required to provide a 2-hour advance notice of arrival during the installation and removal of the scaffolding directly to the drawtender of the Craig Memorial Bridge on VHF-FM Marine Radio Channel 16 or by calling: 419-409-0404.

LNM: 40/16

**LAKE ERIE – OH – Port Clinton – Chart 14842 – Bridge Maintenance**

From November 7 through November 20, 2016 daily, the Monroe Street Highway Bridge at Mile 0.4 over the Portage River will have one leaf in the fully open position while one leaf is in the down, secured to masted navigation position during bridge leaf removal. From noon on December 31, 2016 through noon on April 1, 2017 during the construction of the new bridge leaves the bridge will remain secured to masted navigation. Obstructions of the vertical clearance will be marked with steady burning amber lights on the bottom and four corners of the obstructions until the permitted bridge lighting can be installed.

LNM: 41/16

**LAKE ERIE – OH – Lorain Harbor – Chart 14841 – Bridge Maintenance**

From May 2 through November 5, 2016 a 120 foot by 30 foot barge will be working at the 21st Street Bridge at Mile 2.0 over the Black River. The barge will move to allow vessels to pass with a 1 hour advance notice. Mariners should provide advance notice directly to the barge on VHF-FM Marine channel 16 or by calling: 614-679-2564.

LNM: 36-16

**LAKE ERIE – OH – Cleveland Harbor - Chart 14839 – Bridge Discrepancy**

Due to mechanical discrepancies the Willow Avenue Bridge at Mile 1.02 over the Old River Channel of the Cuyahoga River will be secured to recreational vessels except the bridge will open and remain open from 1900 to 0100, Monday through Friday. On weekends and federal holidays the bridge will open for recreational vessels and remain open from 1000 to 1400 and from 1700 to 0200. Commercial vessels are requested to provide at least 2-hours advance notice of arrival by contacting the Carter Road Bridge Operator on VHF-FM Channel 16 or by calling (216) 664-4767. The Bridge Operator is requested to announce the estimated arrival time and bridge opening on VHF-FM Channel 16 as general marine information. Signs shall be posted on the upriver and downriver sides advertising the bridge schedule for boaters. Mariners are urged to use caution and avoid congregating on both sides of the drawbridge awaiting scheduled openings.

LNM: 38/16

**LAKE ERIE – OH – Cleveland Harbor – Chart 14839 – Bridge Maintenance**

From January 25, 2017 through February 19, 2017 the River Terminal Railroad Bridge at Mile 5.42 over the Cuyahoga River will be secured to masted navigation. Vessels able to pass under the bridge without an opening may do so at any time.

LNM: 31/16

**DETROIT RIVER – MI –Detroit River– Chart 14848**

E. C. Korneffel Co. will be conducting shoal installation operations in the Detroit River between Grosse Ile and Stony Island. Operations will commence July 1st, 2016 thru December 31st, 2017 from 7:00 A.M. to 7:00 P.M. Monday through Saturday. Vessels may contact CAPTAIN DAVE on marine VHF Channel 16 or 13. For further information contact Mr. Bruce Kresslein at (734-676-2131).

LNM: 26/16

**DETROIT RIVER –MI – River Rouge – Chart 14848 – Bridge Maintenance**

From October 24 through October 28, 2016 between the hours of 0700 and 1500 the Conrail Bridge at Mile 1.48 over the River Rouge will require a 4 hour advance notice for openings. Vessels should provide advance notice by calling: 313-297-5425.

LNM: 39/16

**LAKE HURON – MI – Alpena Harbor – Chart 14864 – Bridge Maintenance**

From October 11, 2016 through June 10, 2017 the Second Avenue Highway Bridge at Mile 0.4 over the Thunder Bay River at Alpena, MI will be rehabilitated. From October 11 through November 8, 2016 the bridge will require a 12-hour advance notice for openings. Mariners should provide advance notice by calling 989-464-3416. From November 9, 2016 through June 10, 2017 the bridge will be secured to masted navigation. Vessels able to pass under the bridge without an opening may do so at any time. From April 15, 2017 through June 10, 2017 scaffolding that extends approximately 3 feet below low steel will be installed under the bridge. Steady burning amber lights will be displayed on the bottom and four corners of the scaffolding. Periodically during this project a barge will be used at the bridge.

LNM: 23/16

**LAKE HURON – MI – Inland Route- Chart 14886 – Bridge Maintenance**

From November 14, 2016 through January 2, 2017 the State Street Bridge at Mile 0.92 over the Michigan Inland Route at Cheboygan will require a 12 hour advance notice for openings. Mariners should provide advance notice by calling: 231-627-9414 or 231-238-7775 or 800-577-1911 or 231-627-4312. From January 2 through March 31, 2017 the bridge will be secured to masted navigation. Scaffolding will be installed that hangs

**LAKE HURON – MI – Inland Route- Chart 14886 – Bridge Maintenance**

approximately 6 feet below the bridge and a barge will be used at the bridge. A 30 foot wide channel will be maintained to allow vessels to pass under the bridge.

LNM: 41/16

**LAKE HURON – MI – Straits of Mackinaw – Chart 14881**

Kokosing Industrial, Inc- Durocher Marine Division will be installing Pipe Anchors for Enbridge Crossing Pipe. Kokosing-I barge will be working off an anchor spread with the Tug Champion as a platform for dive operations by Ballard Marine. Diving operations will install pipe anchors on the Enbridge pipeline at various locations across the line. Pleasure craft and passing vessels should remain a safe distance from the working areas of 1500+ feet. Operations will commence August 29th, 2016 through October 30th, 2016 hours of operation are 0700-1900, 24 hour operation possible if needed, seven days a week. Vessels may contact Tug Champion on marine VHF-FM Channel 13 or 16. For further information contact Mr. Lee Barnhill at (989) 464-6009.

LNM: 35/16

**LAKE MICHIGAN – IL – Chicago River – Chart 14927 – Bridge Discrepancy**

The Coast Guard has received a report that the Ohio Street Bridge at Mile 2.09 (CORPS MILE 326.0) over the North Branch of the Chicago River is stuck in the closed to navigation position due to an electrical failure. Estimated time of repair is October 31, 2016.

LNM: 41/16

**LAKE MICHIGAN – IL – Chicago River – Chart 14927 – Bridge Maintenance**

From October 23, 2015 through May 22, 2017 one leaf of the Lake Street Bridge at Mile 1.64, CORPS MILE 325.5, over the South Branch of the Chicago River will be secured to masted navigation.

LNM: 35/16

**LAKE MICHIGAN – IL – Chicago River – Chart 14927 – Bridge Discrepancy**

The Coast Guard has received a report that the dolphins near the location of the former Polk Street Bridge at Mile 2.16 over the South Branch of the Chicago River and the former Erie Street Bridge at Mile 2.21 over the North Branch of the Chicago River are a hazard to navigation.

LNM: 21/16

**LAKE MICHIGAN – IL – Chicago River – Chart 14927 – Bridge Maintenance**

From March 1 through December 31, 2016, Monday through Saturday, 0700 to 1700 and 2200 to 0500 daily, a 120 foot by 55 foot or smaller barges will be working at the Adams Street Bridge at Mile 2.08, CORPS MILE 325.1, over the South Branch of the Chicago River. The barges will move if provided a 30 minute advance notice of arrival on VHF-FM Marine Channel 16 or by calling: 312-656-7636.

LNM: 35/16

**LAKE MICHIGAN – IL – Chicago River – Chart 14927 – Bridge Discrepancy**

The Coast Guard has received a report that the following bridges over the Main, North, and South Branches of the Chicago River have lights showing improper characteristics, obstructed, missing, or lights that are extinguished:

Columbus Drive Bridge at Mile 0.67

Michigan Avenue Bridge at Mile 0.85

Grand Avenue Bridge at Mile 2.00

Chicago Avenue Bridge at Mile 2.40

North Halstead Street Bridge at Mile 2.65

LNM: 33/16

**LAKE MICHIGAN –IL – Chicago River – Chart 14928 – Bridge Maintenance**

From December 5, 2016 through March 31, 2017 one leaf of the Michigan Avenue Bridge at Mile 0.85 (CORPS MILE 326.3) over the Main Branch of the Chicago River will be secured to masted navigation and will have scaffolding that hangs approximately 1 foot below low steel. The other bridge leaf will operate normally and be free of any scaffolding.

LNM: 40/16

**LAKE MICHIGAN – MI – Manistique – Chart 14908**

The Great Lakes Dock & Materials, L.L.C. will be conducting dredging operations in the vicinity of Manistique, MI. Operations will commence October 15th, 2016 through November 30st, 2016 hours of operation are 24 hours a day, seven days a week. Vessels may contact Tug defiance and Barge Wisconsin on marine VHF-FM Channel 16 or 18. For further information contact Mr. Joseph Bailey at (231) 755-2225 (Office) or (231) 206-1379 (Cell).

LNM: 41/16

**LAKE MICHIGAN – WI – Green Bay – Chart 14910**

The Luedtke Engineering Co will be conducting dredging operations in the vicinity of Green Bay, WI. Operations will commence September 20th, 2016 through December 31st, 2016 hours of operation are 24 hours a day, seven days a week. Vessels may contact Tug Kurt Luedtke on marine VHF-FM Channel 10, 16 or 19. For further information contact Mr. Aaron Wills at (231) 871-0062 or Mr. Craig Argue(231) 740-1253.

Chart 14910

LNM: 36/16

**LAKE MICHIGAN –WI – Milwaukee Harbor – Chart 14924 – Bridge Winter Hours**

From November 20, 2016 through April 15, 2017 all city of Milwaukee operated bridges will require a 12 hour advance notice for openings.

**LAKE MICHIGAN –WI – Milwaukee Harbor – Chart 14924 – Bridge Winter Hours**

Mariners should provide advance notice to the Lead Bridge Operator on VHF-FM Marine Channel 16 or by calling: 414-286-2575.

LNM: 38/16

**LAKE MICHIGAN –WI – Milwaukee Harbor – Chart 14924 – Bridge Discrepancy**

The Coast Guard has received a report that one leaf of the South First Street Bridge at Mile 1.78 over the Kinnickinnic River is stuck in the down position. The bridge is able to operate the other leaf.

LNM: 38/16

**LAKE MICHIGAN –WI – Milwaukee Harbor – Chart 14924 – Bridge Winter Hours**

From November 20, 2016 through April 15, 2017 the Canadian Pacific Railroad Bridges at Mile 1.05 over the Menomonee River and Mile 1.67 over the Burnham Canal will require a 12 hour advance notice for openings. Mariners should provide advance notice directly to the drawtender by calling: 414-389-3772 or 414-207-2779 or 414-389-3763.

LNM: 39/16

**LAKE MICHIGAN – WI – Milwaukee Harbor – Chart 14924 – Bridge Maintenance**

From October 25 through December 16, 2016 one leaf of the Water Street Bridge at Mile 0.94 over the Milwaukee River will be secured to masted navigation. Monday through Friday between the hours of 0700 and 1900 a barge will be working under the secured leaf. During non-working hours the barge will be lighted and moored outside of the navigation channel.

LNM: 40/16

**LAKE MICHIGAN – IN – Indiana Harbor, Chart 14929 – Bridge Underwater Hazard**

The Coast Guard has received a report of an underwater obstruction near the position of the former Canal Street Bridge at Mile 1.88 over the Indiana Harbor Canal.

LNM: 01/14

**LAKE MICHIGAN – IN – Indiana Harbor Canal – Chart 14926 – Bridge Maintenance**

From 0600 on October 11 to 0600 on October 14, 2016 the Conrail Railroad Bridge at Mile 0.71 over the Indiana Harbor Canal will be secured to masted navigation. Vessels able to pass under the bridge without an opening may do so at any time.

LNM: 37/16

**LAKE MICHIGAN –IN –Michigan City– Chart 14926**

Great Lakes Dock & Materials, L.L.C., will be Extending the West Intake in Lake Michigan outside of Michigan City, IN. Operations will commence June 1st 2016 thru November 30th 2016. Hours of operation are 24 hrs a day. Tugs will be entering and exiting the harbor daily. Tugs will be working and anchoring in Lake Michigan as well as anchoring in the harbor. Mariners should use extreme caution when transiting the area and stay clear of the Operations. Vessels may contact Tug Hannah Avery, Tug Meredith Ashton and Tug Fischer Hayden on marine VHF Channel 16, and 07. For further information contact Joseph Bailey at (231) 755-2225 or at (231) 206-1379.

Chart 14926

LNM: 28/16

**LAKE MICHIGAN – IL – Calumet-SAG Channel – Chart 14927 – Bridge Maintenance**

From March 28 through November 11, 2016 scaffolding will be installed under one half of the Chatham Street Bridge at Mile 14.77 over the Calumet-SAG Channel that extends approximately 4 feet below low steel. The scaffolding will be on the same side of the river as the scaffolding on the Division Street Bridge allowing vessels to pass through both bridges without major course changes. A 60 foot by 40 foot barge may be used under the scaffolding. The barge may be contacted on VHF-FM Marine Radio Channel 16.

LNM: 13/16

**LAKE MICHIGAN – IL – Calumet-SAG Channel – Chart 14927 – Bridge Discrepancy**

The Coast Guard has received a report that the lights on the Chatham Street Bridge at Mile 14.77 (CORPS MILE 318.3) over the Calumet-SAG Channel are extinguished.

LNM: 39/16

**LAKE MICHIGAN – IL – Little Calumet River – Chart 14927 – Bridge Maintenance**

From August 25 through December 30, 2016 between the hours of 0700 and 1500, Monday through Friday a 100 foot by 35 foot barge under the Indiana Avenue Bridge at Mile 10.80 (CORPS MILE 322.3) over the Little Calumet River. The barge will move with a 30 minute advance notice. Mariners should provide advance notice directly to the barge on VHF-FM Marine Radio Channel 16.

LNM: 40/16

**LAKE MICHIGAN – IL – Little Calumet River – Chart 14927 – Bridge Maintenance**

From August 22, 2016 through December 9, 2016 scaffolding that extends approximately 2 feet below low steel will be installed under the South Hallstead Street Bridge at Mile 13.00 (CORPS MILE 320.1) over the Little Calumet River.

LNM: 33/16

**LAKE MICHIGAN – IL – Calumet River – Chart 14928 – Bridge Maintenance**

From August 3 through November 18, 2016 between the hours of 0700 and 1530 Monday through Friday the 92nd Street Bridge at Mile 0.76 (CORPS MILE 332.4) over the Calumet River will require a 2 hour advance notice for openings. Mariners should provide advance notice directly to the drawtender on VHF-FM Marine Channel 16 or by calling: 312-747-0014 or 312-747-2470. A 20 foot long pontoon boat will be working under

**LAKE MICHIGAN – IL – Calumet River – Chart 14928 – Bridge Maintenance**

the bridge. The pontoon boat will move to allow vessels to pass.

LNM: 32/16

**LAKE MICHIGAN – IL – Calumet River – Chart 14928 - Bridge Discrepancy**

The Coast Guard has received a report that the lights on the Cicero Avenue Bridge at Mile 18.08 (CORPS MILE 314.9) and the Northern Illinois Toll Highway Bridges (I-294) at Mile 17.35 (CORPS MILE 315.6) over the Calumet-SAG Channel are extinguished.

LNM: 38/16

**LAKE MICHIGAN – WI – Lower Fox River – Chart 14918 – Bridge Maintenance**

From July 15, 2016 through May 15, 2017 from 0630 to 1600 Monday through Friday two 40 foot by 40 foot barges will be working at the Walnut Street Bridge at Mile 1.81 and the Tillemann Memorial Bridge at Mile 2.27 both over the Fox River at Green Bay, WI. The barges will move to allow vessels to pass. The barges may be contacted on VHF-FM Marine Channel 16 or by calling: 262-422-4741 or 262-366-9558. From January 15, 2017 through March 31, 2017 both bridges will be secured to masted navigation. Vessels able to pass under the bridges without an opening may do so at any time.

LNM: 29/16

**LAKE MICHIGAN – WI – Fox River - Chart 14916 – Bridge Construction**

From October 2, 2014 through November 30, 2018 an 80 foot by 50 foot and a 40 foot by 40 foot barge will be constructing the new State Highway 441 Little Lake Buttes des Mortts Bridge at Mile 36.0 over the Fox River at Menasha, WI. A 30 foot wide channel will be maintained through the main navigational draws. Amber lights will mark the low steel of both bridges and red lights will mark the cofferdams around the new piers. The barges will be lighted in accordance with the Navigation Rules.

LNM: 40/14

**LAKE MICHIGAN –MI – Manistee Harbor – Chart 14938 – Bridge Maintenance**

From 0700 on October 17 until 0700 on October 19, 2016 the U.S. ROUTE 31 Bridge at Mile 1.4 over the Manistee River will be secured to masted navigation for emergency maintenance. Vessels able to pass under the bridge without an opening may do so at any time.

LNM: 39/16

**LAKE MICHIGAN – IN - Indiana Harbor - Chart 14926**

Durocher Marine will commence dredging operations in Indiana Harbor and Canals, East Chicago, in the vicinity of the Turning Basin and Main Channel, beginning on September 13, 2016 to November 01, 2016. Hours of operation are 24 hours/7 days. Tug Valerie and Barge Kkosing 2 will monitor channels 18 and 16. Mariners are requested to reduce speed and use caution around dredging equipment, for further information contact Mike Schmeltzer at 231-627-5633 or 231-420-1195.

LNM: 39/16

**LAKE MICHIGAN – MI – Grand Haven – Chart 14933**

The King Company INC, will be conducting construction operations on Grand Haven South Pier. Operations will commence August 29th, 2016 through December 1st, 2016 hours of operation are 0600-2000, seven days a week. Vessels may contact Crane Barge HJLIII on marine VHF-FM Channel 73 or 16. For further information contact Mr. Dave Herweyer at (616) 399-1784 or (616) 836-6551.

LNM: 35/16

**LAKE MICHIGAN – MI – Grand Haven – Chart 14933 – Bridge Maintenance**

From October 10 through October 13, 2016 between the hours of 0900 and 1500 each day the US Route 31 Bridge at Mile 2.89 over the Grand River will require a 20 minute advance notice for openings while crews inspect and wash the bridge. Vessels able to pass under the bridge without an opening may do so at any time however heavy amounts of water may fall from the bridge without advance notice.

LNM: 37/16

**LAKE MICHIGAN – MI – South Haven – Chart 14906 - Bridge Maintenance**

From October 3, 2016 through June 30, 2017 four 62 foot by 51 foot barges will be working under the Blue Star Memorial Highway at mile 2.2 over the Black River at South Haven, MI. A 20 foot wide channel will be maintained for vessels to pass under the bridge.

LNM: 37/16

**LAKE SUPERIOR – MI – Houghton Hancock – Chart 14972 – Bridge Maintenance**

From September 15, 2016 through December 31, 2016 and again from March 16, 2017 through June 15, 2017, the U.S. 41 Bridge at Mile 16.0 over the Keweenaw Waterway in Houghton-Hancock, MI will be locked in the intermediate position providing approximately 35 feet of clearance at low water datum. The bridge will open fully on the hour, every hour except at 0800, noon, and 1700, excluding holidays and weekends when the bridge will open fully on the hour every hour for recreational vessels. The bridge will operate on signal for commercial vessels.

LNM: 43/15

**LAKE SUPERIOR –MI –Little Girls Point – Chart 14966**

Three large concrete erosion control structures have been reported dislodged due to flooding at Omans Creek Boat Launch on Little Girls Point, Michigan of Lake Superior. One structure is reported 10 yards from the shoreline and location of the other two is unknown. Mariners are advised to keep a close lookout and travel at slow speed.

LNM: 30/16

**LAKE SUPERIOR – MI – Keweenaw Waterway – Chart 14973 – Bridge Regulation**

The Coast Guard has published a Final Rule in the Federal Register (81 FR 66810) changing the operation of the US41 Bridge. Effective October 31, 2016 the draw of the US41 Bridge at mile 16.0 over the Keweenaw Waterway between Houghton and Hancock, shall open on signal; except that from April 15 through December 14, between midnight and 4 a.m., the draw shall be placed in the intermediate position and open on signal if at least 2 hours notice is given. From December 15 through April 14 the draw shall open on signal if at least 12 hours notice is given. To view all documents and comments associated with this rule making go to <http://www.regulations.gov>, type "USCG-2016-0582" in the "SEARCH" box and click "SEARCH." Click on Open Docket Folder on the line associated with this rulemaking. If you have questions on this rule, call or email Mr. Lee D. Soule, Bridge Management Specialist, Ninth Coast Guard District; telephone 216-902-6085, email [Lee.D.Soule@uscg.mil](mailto:Lee.D.Soule@uscg.mil).

LNM: 40/16

**LAKE SUPERIOR –MN – Duluth-Superior Harbor – Chart 14975 – Bridge Maintenance**

From January 22 through March 5, 2018 the Duluth Ship Canal Bridge at Mile 0.25 over the Duluth Ship Canal will be secured to masted navigation. Vessels able to pass under the bridge without an opening may do so at any time.

LNM: 40/16

**LAKE SUPERIOR - MN – Duluth-Superior Harbor - Chart 14975**

Roen Salvage Company will commence dredging operations in the vicinity of Duluth-Superior Harbor MN, beginning on June 25, 2016 October 31, 2016. Hours of operation are 24 Hours 7 days a week. Derrick 73 will monitor channels 7 and 16. The pipeline will be marked with brightly colored buoys. Placement are will NOT be enclosed by a turbidity barrier. Mariners should use extreme caution when transiting the area and stay clear of the operations, for further information contact Barry Kuzay at (920)743-6533.

LNM: 34/16

**LAKE SUPERIOR –MN –Duluth Superior Harbor – Chart 14975**

ROEN SALVAGE Co. will be conducting dredging operations in Duluth-Superior Harbor, WI. Operations will commence July 25th 2016 thru October 31st 2016. Hours of operation are 24 hours a day. Vessels may contact Tug John R. Asher or Tug Chas Asher on marine VHF Channel 07, and 16. For further information contact Barry Kuzay at (920) 743-6533.

LNM: 31/16

**LAKE SUPERIOR –MN –Duluth Superior Harbor – Chart 14975**

Marine Tech, will be dredging in various locations throughout the harbor. Operations will commence July 18th 2016 thru November 15th 2016. Hours of operation are 24 hrs a day Monday to Friday. Mariners should use extreme caution when transiting the area and stay clear of the Operations. Vessels may contact Tug Callie M or Tug Miss Laura on marine VHF Channel 16, and 13. For further information contact Nick Patterson at (281) 720-2833 ext 203..

LNM: 30/16

**LAKE SUPERIOR– MN – Duluth - Superior Harbor – Chart 14975 – Bridge Maintenance**

From August 22 through October 17, 2016 between the hours of 0700 and 1500, Monday through Saturday workers will utilize under bridge vehicles to replace lighting on the John A. Blatnik, I-535 Bridge at mile 2.74 over the St. Louis Bay and River. Spotters will warn workers of approaching vessels and move the man lifts to allow vessels to pass.

LNM: 33/16

**LAKE SUPERIOR –MN – Duluth-Superior Harbor – Chart 14975 – Bridge Maintenance**

From February 1 through May 12, 2017 the Minnesota Slip Bridge at the mouth of the Minnesota Slip will be secured to masted navigation. Vessels able to pass under the bridge without an opening may do so at any time.

LNM: 40/16

**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
5170	<i>Bay Point Shoal Lighted Buoy 2</i>	41-30-12.029N 082-41-28.254W	FI R 4s		5	Red.	Maintained from Apr. 14 to Nov. 14.
	Marks east side of shoal.						
8420	<i>Lake St. Clair Lighted Buoy 2</i>	42-21-54.270N 082-53-52.330W	FI R 4s		5	Red.	AIS MMSI: 993672211

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## SECTION VIII - LIGHT LIST CORRECTIONS (Continued)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks	
19700	INDIANA HARBOR LIGHT 7	41-40-00.758N 087-26-31.264W	F G	45 14	8	SG on white cylindrical tower.	Higher intensity beam towards lake.	41/16
					*			
19800	Calumet Harbor Breakwater South End Light	41-43-33.652N 087-29-35.956W	Al WR 10s 0.2s W fl 4.8s ec. 0.2s R fl 4.8s ec.	50 15	W 17 R 14	White square skeleton tower with red band. Lower half open. 46	HORN: 1 blast ev 15s (2s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.	41/16
								*

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**ENCLOSURES**


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**(1) Summary of Dredging**

[41-16 Summary Of Dredging.docx](#)

Construction Operations in Effect

LNM: 14/14

**(2) GREAT LAKES - General - Marine Events**

[PASSAGE THROUGH MACARTHUR LOCK.pdf](#)   [2016-BRL-NOTICEtoNav-Schedule-Page.pdf](#)   [41-16 Marine Events.docx](#)

Summary of Marine Events

LNM: 14/14

**(3) WATERWAYS ANALYSIS AND MANAGEMENT SURVEY**

[WAMS Doc.pdf](#)   [AIS ATON Announcement II.pdf](#)

Great Lakes WAMS Questionnaire

LNM: 14/14

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J. E. RYAN, RDML  
U. S. Coast Guard  
Commander, Ninth Coast Guard District

## SUMMARY OF DREDGING/CONSTRUCTION OPERATION IN EFFECT

The LNM column is where the entry originally appeared and where detailed information may be obtained. The dates listed are tentative.

<b>LOCATION</b>	<b>LNM</b>	<b>SUBJECT</b>	<b>HOURS / DAYS</b>	<b>UNTIL</b>
<b><u>NEW YORK STATE BARGE CANAL</u></b>				
Erie Canal, NY	19/13	DREDGING OPERATIONS	24 HRS / 7 DAYS	01 May 13 – TBD
Lockport, Brockport, and Fairport, NY	19/13	STABILIZATION OPERATIONS	24 HRS / 7 DAYS	01 May 13 – TBD
Buffalo River, NY	34/14	HABITAT RESTORATION	24 HRS / 7 DAYS	25 Aug 14 – TBD
<b><u>LAKE ONTARIO</u></b>				
Braddock Bay, NY	35/16	CONSTRUCTION/DREDGING	0700-1900 / 6 DAYS	01 Aug 16 – 31 Dec 16
<b><u>LAKE ERIE</u></b>				
Cleveland, OH	05/13	CONSTRUCTION	24 HRS / 7 DAYS	29 Jan 13 – TBD
Fairport, OH	15/16	CONSTRUCTION	0600-2200 HRS / 7 DAYS	15 Apr 16 – 19 Dec 16
Willoughby, OH	28/16	CONSTRUCTION	0700-1900 / 7 DAYS	20 Jul 16 - 15 Nov 16
Maumee River, OH	37/16	DREDGING OPERATIONS	24 HRS / 7 DAYS	15 Sep 16 - 20 Nov 16
Avon Lake, OH	39/16	DREDGING OPERATIONS	0700-1700/ 5 DAYS	26 Sep 16 – 31 Oct 16
<b><u>DETROIT RIVER</u></b>				
Detroit, MI	33/14	CONSTRUCTION	24 HRS/ 7 DAYS	11 Aug 14- TBD
Grosse Isle, MI	26/16	SHOAL INSTALLATION	24 HRS / 7 DAYS	01 Jul 16 – 31 Dec 17
<b><u>LAKE ST. CLAIR</u></b>				
None Reported				
<b><u>LAKE HURON</u></b>				
None Reported				
<b><u>STRAITS OF MACKINAC</u></b>				
Straits of Mackinaw, MI	35/16	CONSTRUCTION	0700-1900/ 7 DAYS	29 AUG 16 – 30 OCT 15
<b><u>ST MARYS RIVER</u></b>				
None Reported				

## SUMMARY OF DREDGING/CONSTRUCTION OPERATION IN EFFECT

The LNM column is where the entry originally appeared and where detailed information may be obtained. The dates listed are tentative.

<u>LOCATION</u>	<u>LNM</u>	<u>SUBJECT</u>	<u>HOURS / DAYS</u>	<u>UNTIL</u>
<b><u>LAKE SUPERIOR</u></b>				
Portage Lake, MI	31/13	SEDIMENT REMEDIATION	24 HRS / 7 DAYS	01 Sep 13 – TBD
Ashland, WI	20/16	CONSTRUCTION	0600-1800 HRS / M-S	11 May 16 – 30 Nov 16
Duluth-Superior, MN	30/16	DREDGING OPERATIONS	24HRS/ M-F	18 Jul 16 – 15 Nov 16
Duluth-Superior, MN	31/16	DREDGING OPERATIONS	24HRS/ M-F	25 Jul 16 – 31 Oct 16
Duluth-Superior, MN	35/16	DREDGING OPERATIONS	24HRS/ 7 DAYS	25 Jul 16 – 31 Oct 16
<b><u>LAKE MICHIGAN</u></b>				
Green Bay, WI	20/16	DREDGING OPERATIONS	0700-1900 HRS / M-F	28 Mar 16 - 13 Nov 16
Michigan City, IN	28/16	CONSTRUCTION	24 HRS/ 7 DAYS	01 Jun 16- 30 Nov 16
Grand Haven, MI	35/16	CONSTRUCTION	0600-2000/ 7 DAYS	29 Aug 16 - 01 Dec 16
Green Bay, WI	36/16	DREDGING OPERATIONS	24 HRS /7 DAYS	20 Sep 16 - 31 Dec 16
East Chicago IN	39/16	DREDGING OPERATIONS	24 HRS/7 DAYS	13 Sep 16 – 01 Nov 16
Manistique, MI	41/16	DREDGING OPERATIONS	24 HRS/ 7 DAYS	15 Oct 16- 30 Nov 16



**US Army Corps  
of Engineers®**

DETROIT DISTRICT

ATTN: CELRE-DE  
477 MICHIGAN AVENUE  
DETROIT MI 48226-2575  
HTTP://WWW.LRE.USACE.ARMY.MIL/

**NOTICE TO NAVIGATION INTERESTS**

**DATE:** 04/28/2016

**POC:** Technical Services  
Branch  
313-226-2384

**NOTICE NUMBER:** 6274

**LOCAL NUMBER:** L16-11  
**WATERWAY:** ST. MARYS RIVER

**EFFECTIVE:** 04/28/2016 14:20 thru Until Further Notice  
EDT

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**RESTRICTED VESSEL PASSAGE THROUGH THE MACARTHUR LOCK**  
**ST MARYS FALLS CANAL**

The following restrictions will be implemented at the MacArthur Lock further notice. These restrictions are required due to embedded gate anchorage concerns on gates 2 and 5. The Mac Arthur Lock will be operated using both upper and lower intermediate gates (gates 3 and 4)

Special Procedures for transiting of the MacArthur Lock by vessels not exceeding 730 feet in length when Gate 5 is out of service.

Upbound Vessels:

Vessels with friction winches and no bow overhang:

Maximum Vessel Length = 730 feet

For vessels 730 feet in length, Boom #8 (the chamber boom) will remain in the raised position while Gate #4 (the lower intermediate gate) is closed. This will allow 15.5 feet of clearance between the vessel and the upper intermediate gate sill and 25 feet of clearance between the vessel and Gate #4. At the request of the captain, vessels can be moved the last 25 feet to their final position using winch power only.

Vessels without friction winches or with bow overhang:

Maximum Vessel Length = 660 feet

For vessels 660 feet in length, Boom #8 will be lowered before Gate #4 is closed. This will provide 30 feet of clearance between the vessel and Boom #8 and 15 feet of clearance between the vessel and the upper gate sill.

Downbound Vessels:

Vessels with friction winches and no bow overhang:

Maximum Vessel Length = 730 feet

For vessels greater than 660 feet, Boom #8 will remain in the lowered position until the vessel is brought to a full stop with wheel motionless or in a zero pitch condition and the check cables out forward and aft. The vessel must be stopped when the bow of the vessel is no closer than 30 feet from the chamber boom. The chamber boom will then be raised and the vessel shall be moved forward into final position using winches only.

For vessels 730 feet in length, this will provide for 15.5 feet of clearance between the vessel and the upper gate sill and 25 feet clearance between the vessel and Gate #4.

Vessels without friction winches or with bow overhang:

Maximum Vessel Length = 660 feet

For vessels 660 feet in length, Boom #8 will remain lowered. This will provide for 30 feet of clearance between the vessel and Boom #8, and will provide 15 feet of clearance between the vessel and the upper gate sill.

//signed//

DAVID L. WRIGHT, P.E.  
Chief, Operations  
USACE-Detroit



US Army Corps  
Of Engineers  
Buffalo District  
1776 Niagara Street  
Buffalo, New York 14207-3199

# Notice to Navigation Interests

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Notice No. M16-01      Date 9 December 2015  
Black Rock Channel & Tonawanda Harbor, NY  
Waterway

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Black Rock Lock Operations - The Black Rock Lock hours and dates for the 2016 navigation season are as follows:

1 January - 16 April	8:00 am - 4:00 pm Monday - Friday
3 May - 6 May	Closed for Maintenance
17 April - 14 May	8:00 am - 4:00 pm Monday - Sunday
15 May - 17 September (Extended Season)	8:00 am - 10:00 pm Weekdays 11:00 am - 10:00 pm Weekends
18 September - 29 October	8:00 am - 4:00 pm Monday - Sunday
30 October - 31 December	8:00 am - 4:00 pm Monday - Friday

**For any lock transit requests during the period 3 May thru 6 May 2016 please call 716-879-4403 to check on current maintenance and lock reopening status.**

The lock will be closed on the following 2016 Federal Holidays:

**01 January / 18 January / 15 February / 11 November / 24 November / 26 December**

Commercial traffic will be accommodated on a 24-hour basis with prior notification.

Questions on lock operations may be directed to the Black Rock Lock during scheduled operating hours by calling (716) 879-4403 or to the New York/Pennsylvania Operations and Maintenance Office between the hours of 7:00 a.m. and 3:00 p.m. at (716) 879-4293, Fax (716) 879-4356. The Lock may also be contacted on marine radio channel 16 (working Channel 12).

**Tug and Barge Operators are reminded that Personal Flotation Devices (PFDs) are required for all Barge personnel during the approach and while transiting the Lock and are recommended for all vessel crew members and passengers.**

The Black Rock Lock Channel extends from Buffalo Harbor to the Black Rock Lock. It is three and one-half miles in length. The Federal navigation channel has a minimum width of 200 feet. Pleasure crafts are required to yield the right-of-way to commercial vessels due to the confined waters of the channel.

The Black Rock Lock and the Black Rock Channel provide safe passage for vessels to travel between Buffalo Harbor and Tonawanda Harbor around the reefs, rapids and fast currents that exist in the upstream portion of the Niagara River.

In combination with the New York State Erie Canal, Black Rock Lock and Black Rock Channel provide an inland water route between Lake Erie and the Atlantic Ocean. Branch canals in the New York State canal system provide vessels access to Lake Erie and Lake Champlain.

Charts: 14832 - Upper Niagara River, New York  
14833 - Buffalo Harbor, New York

Edward F. Gawarecki  
Chief, NY/PA O&M Office

**GREAT LAKES - GENERAL – MARINE EVENTS – SAFETY ZONES – SECURITY ZONES**

Events listed below are those events that may have accompanying special local regulations.

<b>Location</b>	<b>LNM</b>	<b>EVENTS</b>	<b>Dates</b>	<b>Time (Local)</b>	<b>POC or Sponsor</b>	<b>Number</b>
<b><u>LAKE ONTARIO</u></b>						
None Reported						
<b><u>LAKE ERIE</u></b>						
Cleveland, OH	19/16	Edgewater Yacht Club 2016 Race Program	10 May 16 – 30 Oct 16		Sector Buffalo	716-843-9322
<b><u>DETROIT RIVER, LAKE ST CLAIR AND ST CLAIR RIVER</u></b>						
Belle Isle, MI	37/16	Fall Lightning Chill Races	11 Sep 16 – 23 Oct 16 (Sundays)	1300-1600	Sector Detroit	313-568-9580
St. Clair Shores, MI	39/16	GLYC Fall Series	02 Oct 16 – 29 Oct 16 (Sundays)	0900-1700	Sector Detroit	313-568-9580
Marine City, MI	41/16	Popcorn String across river	16 Oct 16	1600-1615	Sector Detroit	313-568-9580
<b><u>LAKE HURON</u></b>						
None Reported						
<b><u>LAKE SUPERIOR</u></b>						
None Reported						
<b><u>ST. MARYS RIVER</u></b>						
None Reported						
<b><u>STRAITS OF MACKINAC</u></b>						
None Reported						
<b><u>LAKE MICHIGAN</u></b>						
None Reported						

Waterway Analysis and Management System Survey

Name of Waterway: \_\_\_\_\_

User Information

\_\_\_ Commercial User

\_\_\_ Recreational User

Number of years in the maritime industry or number of years using this waterway: \_\_\_\_\_

Number of transits in the waterway per year: \_\_\_\_\_

Number of night transits of waterway: \_\_\_\_\_

Seasonal Dates: Start: \_\_\_\_\_ End: \_\_\_\_\_

Name of Vessel: \_\_\_\_\_

Vessel Description: \_\_\_\_\_

Length: \_\_\_\_\_ Beam: \_\_\_\_\_ Draft: \_\_\_\_\_ Gross Tons: \_\_\_\_\_

Net Tons: \_\_\_\_\_ Bridge Height of Eye: \_\_\_\_\_

Cargo Carried: \_\_\_\_\_

Navigational tools used: (ECDIS/ECPINS, GPS, DGPS, VISUAL, RADAR) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What area do you believe is the most dangerous or difficult to navigate: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Are the floating aids to navigation (lighted and unlighted buoys) adequate for this waterway: \_\_\_\_\_

\_\_\_\_\_

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Are the fixed aids to navigation (lights, ranges, lighthouses, daybeacons) adequate for this waterway: \_\_\_\_\_

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Are the year round and lighted ice buoys adequate: \_\_\_\_\_

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Are there buoys that you feel should be changed to fixed aids to navigation?

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Are there any buoys that could be eliminated from this waterway: \_\_\_\_\_

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Are there any buoys with sound signals that the bell or gong could be removed:

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Are there any areas that require additional aids to navigation in this waterway:

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Do the nautical charts, Coast Pilot, and Light List meet your needs for this waterway: \_\_\_\_\_

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Are there private Aids to Navigation that you find misleading or interfere with the current system in the waterway:

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Any addition comments on this waterway: \_\_\_\_\_

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Thank you for taking time to comment on this waterway. Your input as a mariner very valuable to the U. S. Coast Guard in evaluating waterways to make them safe and as easily navigable as possible. Please feel free to contact Mr. Doug Sharp at [william.d.sharp@uscg.mil](mailto:william.d.sharp@uscg.mil) or (216) 902-6070 with any other questions or concerns about any aids to navigation in the Great Lakes. The survey can be mailed to:

Commander (dpw-2)  
Ninth Coast Guard District  
1240 East Ninth Street  
Cleveland, Ohio 44199

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## U.S. Coast Guard to Test Automatic Identification System (AIS) Aids to Navigation (ATON)

In the near future, the U.S. Coast Guard and other authorized agencies and organizations (i.e., U.S. Army Corps of Engineers, Marine Exchange of Alaska) will begin transmitting AIS ATON messages and marine safety information via AIS for testing and evaluation. The exact content, location, and times of these broadcasts will be announced in future Local Notices to Mariners.

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. These broadcasts can originate from an AIS station located on an existing physical aid to navigation (Real AIS ATON) or from another location (i.e., AIS Base Station). An AIS Base Station signal broadcasted to coincide with an existing physical aid to navigation is known as a Synthetic AIS ATON. An electronically charted, but non-existent as a physical aid to navigation, is identified as a Virtual AIS ATON. The latter two can be used to depict an existing aid to navigation that is off station or not watching properly or to convey an aid to navigation that has yet to be charted. All three variants 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 capable of receiving and displaying these test AIS messages are encouraged to provide feedback and report any anomalies to the USCG NAVCEN Website: <http://www.navcen.uscg.gov> | Contact Us Tab | Subject: AIS | Category: AIS Testing.

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### Example of Local Notice to Mariners Chart Corrections for AIS ATONs

#### Chart Correction for *Real AIS ATON*

<b>12326</b>	<b>52nd Ed.</b>	<b>01-JUNE-13</b>	<b>Last LNM: 53/13</b>	<b>NAD 83</b>		<b>LNM/14</b>
<i>Chart Title: Approaches to New York</i>						
ADD		Magenta circle AIS Chart No. 1: S17.2 to ABC Channel Lighted Whistle Buoy A and			CGD 40-27-27.991N	073-50-12.228W
CHANGE		Characteristic to RW "A" Mo (A) WHIS Racon ( " ) AIS				

#### Chart Correction for *Synthetic AIS ATON*

<b>18649</b>	<b>68th Ed.</b>	<b>01-JUNE-13</b>	<b>Last LNM: 52/13</b>	<b>NAD 83</b>		<b>LNM/14</b>
<i>Chart Title: Entrance to San Francisco Bay</i>						
ADD		Magenta circle AIS Chart No. 1: S17.2 to ABC Approach Lighted Whistle Buoy AB and			CGD 37-44-59.749N	122-41-33.940W
CHANGE		Characteristic to RW "AB" Mo (A) WHIS Racon ( - ) AIS				

#### Chart Correction for *Virtual AIS ATON*

<b>12314</b>	<b>33rd Ed.</b>	<b>01-JUNE-12</b>	<b>Last LNM: 51/13</b>	<b>NAD 83</b>		<b>LNM/14</b>
<i>Chart Title: Delaware River Philadelphia to Trenton</i>						
ADD		ABC Railroad Bridge South Starboard V-AIS ATON Chart No. 1: S18.2		to	CGD 39-58-55.059N	075-04-06.856W
ADD		ABC Railroad Bridge South Port V-AIS ATON Chart No. 1: S18.2		to	38-58-55.803N	076-23-04.547W

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## Virtual AIS ATON Symbology for Electronic Chart Display and Information System (ECDIS)

Port Lateral (IALA B)	A Virtual object marking the port side of a channel	
Starboard Lateral (IALA B)	A Virtual object marking the starboard side of a channel	
Isolated Danger	A Virtual object marking an isolated danger	
Safe Water	A Virtual object marking safe water	
Special Purpose	A Virtual object used to mark an area or feature referred to in nautical documents	

## AIS ATON Symbology of the International Electrotechnical Commission (IEC) and International Maritime Organization (IMO)

