

## LOCAL NOTICE TO MARINERS (LNM) APP USER GUIDE

**Disclaimer:** This guide is produced to assist users in effectively navigating and utilizing NAVCEN's Local Notice to Mariners (LNM) Application, a dynamic tool that sources up-to-date data related to the Light List, discrepant federal aids, discrepant private aids, temporary changes, and marine events. The spatial reference for this application is WGS 1984. LNM data will be refreshed near the top of every hour and every fifteen minutes after. The Light List data will be refreshed every twenty-four hours at approximately 0520 EST. The updated data will provide constant accurate data to mariners, ensuring alignment with the U.S. Coast Guard's responsibility to protect the Marine Transportation System (MTS) and marine environment as outlined in 46 USC Chapter 700. This guide will help you in understanding the application's functionality promoting optimal and efficient use.

### Maritime Safety Information Products

To start: on the Chart, mouse over the pancake menu (☰) and select the layers you wish to view. On the form, select the Product and District you wish to view and enter the Aid Name and/or Waterway Name if desired, then click submit. ([User Guide](#))

The screenshot shows the 'Marine Safety Information (MSI) & Light List (L/L) Map Viewer' interface. At the top, there are buttons for 'Print MSI & L/L', 'MSI & L/L Prefaces', and 'Download MSI Files'. The main area is a map of the Boston Harbor region. A popup window titled 'Mayflower Ledge Buoy 8' is open, displaying the following information:

- LNM UID: 100119449185
- ATON GROUP: DISCREPANCIES - FEDERAL AIDS
- LLNR: 9890
- NAME: Mayflower Ledge Buoy 8
- DISCREP CORR STATUS: Correction
- Status Unreported
- DISCREP STATUS: SINKING
- DISTRICT: 1
- AID NUMBER: 200100196281
- ATON UID: 100119449185
- WTRW UID: 100116381892
- WATERWAY NAME: Gloucester Harbor
- AID TYPE: FD
- AID SUBTYPE: FL

The map interface also includes a 'Data to Table' button, a zoom level indicator (Zoom: 10), and a coordinate box showing Lat: 042° 17' 05" (42.285°) and Lon: -070° 01' 51" (-70.031°). The map is overlaid with various navigational aids and depth contours.

**\*\*Zoom Level Requirement\*\*:** To ensure all geospatial data renders correctly for viewing or printing, the map must be zoomed in to level 8 or higher for LNM's and zoom level 11 for the Light List. All data may not display fully or accurately at lower zoom levels.

## Understanding the Application's Functionality

Marine Safety Information (MSI) & Light List (L/L) Map Viewer



### Layer Button (Upper Right Corner)

- **Description:** Toggle various data layers on the chart to display different types of information.
- **Use:** Select or deselect layers to tailor the information on the chart to your needs.

#### Layers:

##### **Physical Map** (Source: OpenStreetMap)

- **Description:** Shows natural and human-made geographical features, providing a comprehensive view of the terrain.

##### **Satellite Map** (Source: US Geological Survey)

- **Description:** Offers a realistic depiction of the Earth's surface, useful for analyzing environmental conditions.

##### **Electronic Navigational Chart (ENC)** (Source: NOAA)

- **Description:** Visualizes nautical information including depth contours and navigational aids.

##### **Inland Electronic Navigational Chart (IENC)** (Source: Army Corps of Engineers)

- **Description:** Visualizes nautical information including depth contours and navigational aids for inland waterways including rivers, lakes, and canals.

### **Light List (Source: USCG)**

- **Description:** Visualizes lights and other aids to navigation (ATON) that are maintained by or under the authority of the USCG.

### **Load All LNM Layers**

- **Description:** Visualizes all applicable LNM features at the same time.

### **Discrepant Federal Aids**

- **Description:** Visualizes discrepant federal ATON that is not watching properly and could potentially pose a hazard to navigation.

### **Discrepant Federal Aids Corrected**

- **Description:** Visualizes corrective action on discrepant federal ATON. Corrections will be visualized for two weeks after the date the correction occurred.

### **Discrepant Private Aids**

- **Description:** Visualizes discrepant private ATON that is not watching properly and could potentially pose a hazard to navigation.

### **Discrepant Private Aids Corrected**

- **Description:** Visualizes corrective action on discrepant private ATON. Corrections will be visualized for two weeks after the date the correction occurred.

### **Temporary Changes**

- **Description:** Displays intentional short-term changes to the authorized aid location.

## Temporary Changes Corrected

- **Description:** Displays the conclusion of temporary changes to the light list. Corrections will be visualized for two weeks after the date the correction occurred.

## Marine Events

- **Description:** Visualizes organized water events of limited duration conducted according to a prearranged schedule, and which present an extra or unusual hazard to the safety of life that cannot be protected against the existing Navigation Rules.

## Miscellaneous

- **Description:** Displays any category of navigational information that does not fit into one of the existing categories.

## Bridges

- **Description:** Displays any structure built over a navigable waterway.

## Changes

- **Description:** Visualizes improvement, relocation, replacement, or discontinuation to ATON within a navigable area.

## Advanced Notice of Change

- **Description:** Displays an advanced announcement of improvement, relocation, replacement, or discontinuation to ATON within a navigable area that has been finalized by the District Commander.

## Proposed Notice of Change

- **Description:** Displays any potential changes to ATON and other marine features within a navigable waterway that have not been officially finalized by the District Commander.

## Hazards to Navigation

- **Description:** Visualizes an obstruction or danger that can pose a significant risk to the safe navigation of vessels.

## TESS Advisory

- **Description:** Displays a Technology, Engineering, Science, and Skills advisory that alerts stakeholders about vulnerabilities that may impact maritime infrastructure.

## Marine Construction

- **Description:** Displays any ongoing building or modification activities occurring in a navigable waterway that may impact navigation.

## MSIB

- **Description:** Displays a Marine Safety Information Bulletin that includes information pertaining to the LNM.

## Naval Activity

- **Description:** Lays out an area in which any planned military operations will occur.

## Safety Zone

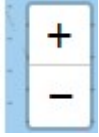
- **Description:** Displays an area where access is restricted for safety or environmental reasons.

## Additional Features on the Chart



### North Arrow (Above Zoom Controls)

- **Description:** Indicates geographic north
- **Use:** Allows user to understand program's orientation in relation to geographic North.



### Zoom Controls (“+” and “- “)

- **Description:** Transition smoothly between a detailed and a general overview of the chart. ATON clusters will appear until zoom level 8 for all LNM layers and zoom level 11 for the Light List layer where individual aids can then be viewable in an area.
- **Use:** Adjust the chart's scale to either zoom in for detail or out for a broader view.



### Full-Screen Mode (Below Zoom Controls)

- **Description:** Expand the chart to full screen for an unobstructed view.
- **Use:** Enhances visibility and interaction with chart features.



### Measurement Tool (|----->)

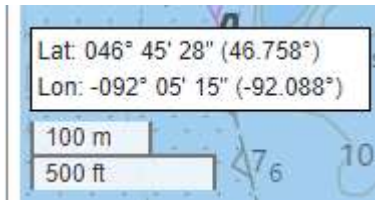
- **Description:** Measure distances directly on the chart, useful for planning and analysis.
- **Use:** Click to set start and end points; the tool calculates the distance.

**Note:** When you use the measurement tool, a single click activates it and turns the indicator green. Once activated, it will continuously draw measurement lines until you click it again. On the second click, the tool deactivates, and the indicator turns white. If you want to remove any drawn lines, simply click the 'x' button.



### Clear Measurements (X)

- **Description:** Erase measured distances on the chart.
- **Use:** Click once to clear any measured distances.



### Scale Indicator (Lower Left-Hand Corner)

- **Description:** Shows distances in miles and kilometers, adjusting with zoom level.
- **Use:** Essential for assessing distances and chart areas accurately.



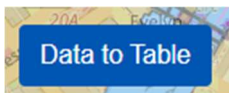
### Change Measurements (“nm”, “km”, and “mi”)

- **Description:** Shows distances in nautical miles, kilometers, and miles when measuring distances, click to rotate through measurements.
- **Use:** Essential for assessing distances and chart areas accurately based on measurement needs.



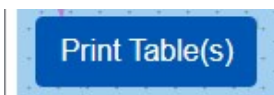
### Locate (Under Change Measurements)

- **Description:** Allows user to zero-in on their location at the time of using the application.
- **Use:** Ensures viewable information is in range and pertinent to the user’s current location.



### Data to Table (Under Location)

- **Description:** Creates a table comprised of all ATON in the selected area, providing location, Light List, physical information, and discrepancy data.
- **Use:** Essential for assessing all ATON in the selected area for navigational purposes.



### Print Table (Under Generate Table)

- **Description:** Creates a printable table with all information displayed from a generated table.
- **Use:** Useful for establishing a reference and for physical planning.

## Screenshot

- **Description:** Allows the user to take a snapshot of a selected area to paste onto a document. On windows click “Windows-Shift-S” to open the screenshot panel then drag box to desired area on map.
- **Use:** Useful for planning and noting marked data in locations of interest.

## How to Print an LNM

To print an LNM on the Map Viewer,

1. Click on the layer button and select the desired categories. For example, a user may choose the “Light List layer” and the “ATON Discrepancies layer”.
2. Pan to the area relevant to the chosen data layers.
3. Click the "Data to Table" button located on the left side of the screen.
4. Click the "Print Table"
5. Save or print the document to their device.

**Note:** The document will be formatted as shown by the image below.

Light List							
LLNR	Name and Waterway	Position	Characteristic	Height	Range	Structure	Remarks
10909	Logan Airport Security Zone Lighted Buoy 24 Logan Airport Security Zone	42-20-45.060N 071-00-28.860W	F1 W 4s			White and orange .	Marked RESTRICTED AREA.
10910	Boston Main Channel Lighted Buoy 10 President Roads	42-20-39.801N 071-00-37.869W	F1 R 6s		3	Red.	Replaced by nun when endangered by ice. AIS: MMSI 993672067
10912	Logan Airport Security Zone Buoy 25 Logan Airport Security Zone	42-20-49.200N 071-00-35.400W				White and orange.	Marked RESTRICTED AREA.
10919	Logan Airport Security Zone Buoy 26 Logan Airport Security Zone	42-21-02.880N 071-00-56.880W				White and orange.	Marked RESTRICTED AREA.
10920	Boston Main Channel Lighted Buoy 12 President Roads	42-20-57.934N 071-01-08.012W	F1 R 2.5s		3	Red.	Replaced by nun when endangered by ice.
10071	Logan Airport Security Zone Buoy 27	42-21-06.960N				White and orange	Marked RESTRICTED AREA



To print an LNM by USCG District,

1. Click the “Print MSI & L/L” tab.
2. Select “Light List” or “LNM”.
3. Select the desired USCG District.
4. If selecting “Light List” select desired volume.
5. If desired, select “Print by Waterway” or “Print by Category”
6. Click “Submit”
7. Click “Print LL/LNM”
8. Save or print document to device.

**Note:** The document will be formatted as shown by the image below.

11/27/24, 8:54 AM

Maritime Safety Information Products | Navigation Center

**Local Notice to Mariners for District 9 11/27/2024**

**Algoma**

**Temporary Changes**

NAME	LLNR	STATUS	AID TYPE
Algoma Light 1	20980	DISCONTINUED	FD

**Ashtabula Harbor**

**Additional MSI Categories**

TITLE	SUBCATEGORY	DESCRIPTION	LOCATION
Lake Erie - Ashtabula Harbor/General/Marine Construction (Excluding Bridges)/Facilities, Barriers, Manmade Reefs, Riprap, Jetties/Dikes	Marine Construction (Excluding Bridges)	General/Marine Construction (Excluding Bridges)/Facilities, Barriers, Manmade Reefs, Riprap, Jetties/Dikes From: 2024-10-01 To: 2025-03-30 Location: 41.91835° N / 80.7905° W 41.91832° N / 80.78703° W 41.91618° N / 80.78385° W 41.91561° N / 80.7866° W 41.91621° N / 80.78806° W 41.91835° N / 80.7905° W A submerged breakwater was constructed in Ashtabula harbor. It is connected to the existing East Breakwater. The submerged breakwater is connected to the East Breakwater at the first angle point of the East Breakwater, as entering the harbor, from the lake. All elevations referenced are referred to Low Water Datum (LWD), IGLD 1985. The center line of the submerged breakwater approximately follows the same azimuth as the first segment of the East Breakwater, in a south easterly direction, for approximately 1000', then slightly bends to the east for another two segments, for approximately 500'. The first 1000' (Area "A") has a crest design height of -2.0' with a crest width of 9', and a footprint of approximately 150', with the next 100' transitioning to the dimensions in the next item. The final 400 (Area "B") has a crest height of -5.0', with a crest width of 9', and a footprint of approximately 50'	

**Bay Point State Park Hazard**

**Private Discrepancies**

NAME	LLNR	STATUS	AID TYPE
Johnson Island Light 1	5247	LT EXT	PA

**BIG TRAVERSE BAY**

**Federal Discrepancies**

NAME	LLNR	STATUS	AID TYPE
Warroad Range Rear Light	17020	LT EXT	FD