NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

Formerly LS-51, 1st Ed., 1938 RAPP 1340

SOUNDINGS IN FEET

14882

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

LAKE HURON - MICHIGAN

ST MARYS RIVER

DE TOUR PASSAGE TO MUNUSCONG LAKE

Mercator Projection
Scale 1:40,000 at Lat 46°

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

Additional information can be obtained at nauticalcharts.noaa.gov.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 do not require conversion to NAD 83 for plotting on this chart.

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum) Depths are referred to the sloping surface of the river when the gage below the locks reads 578.4 feet and Lake Huron is at elevation 577.5 feet.

Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).

SAILING DIRECTIONS. Bearings of sailing courses are true and distances given thereon are in statute miles between points of departure.

AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation. See Canadian List of Lights, Buoys and Fog Signals for information not included in the U.S. Coast Guard Light List.

SYMBOLS AND ABBREVIATIONS. For complete list of symbols and abbreviations see Chart No. 1.

BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above Low Water Datum, bridge and overhead clearances are reduced correspondingly. For clearances see U.S. Coast Pilot 6.

AUTHORITIES. Hydrography and topography by the National Ocean Service,Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and Canadian authorities.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 6 for important supplemental information.

Sailing courses and limits indicated in magenta are recommended by the Lake Carriers Association and the Canadian Shipowners Association.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot 6 for details.

Pump-out facilities

CAUTION

POTABLE WATER INTAKES (PWI)

Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Commissioner of Food and Drugs (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.

SOURCE DIAGRAM

Most of the hydrography identified by the letter 'I' was surveyed by the U.S. Army Corps of Engineers prior to 1974. Other outlined areas represent the limits of the most recent hydrographic survey information that has been endorsed by the Coast Survey. Surveys are bar-coded in this diagram by the year of survey. Some shoreline currently maintained by the U.S. Army Corps of Engineers are periodically resurveyed, and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

SOURCE

B2	1970-1989	NOS Surveys — partial bottom coverage
g		Canadian Surveys
I	Pre-1974	Lake Survey Surveys — partial bottom coverage

NOTE C

The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the St. Mary's River. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161. The U.S. Coast Guard Sector Sault Ste. Marie, Michigan, should be consulted for specific rules and reporting requirements. Although mandatory VTS participation is limited to the navigable waters of the United States, certain vessels are encouraged or may be required, as a condition of port entry, to report beyond this area to facilitate traffic management within the VTS area.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 9th Coast Guard District in Cleveland, Ohio or at the Office of the District Engineer, Corps of Engineers in Detroit, Michigan.

Refer to charted regulation section numbers.

NOTE B

The channel legend reflects the Corps of Engineers project depth. For further information on the most recent channel depths, direct inquiries to the Office of the District Engineer, Corps of Engineers, Detroit, Michigan.

NOTE D

Mariners are warned that numerous uncharted stakes and fishing structures some submerged, may exist in the area of this chart. Such structures are not charted unless known to be permanent.

NOTE 2

NO-DISCHARGE ZONE, 40 CFR 140

Michigan waters of Lakes Michigan, Huron, Superior, Erie and St. Clair, all waterways connected thereto, and all inland lakes are designated as a No-Discharge Zone (NDZ). Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. Commercial vessel sewage shall include graywater. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

CAUTION

Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

Traffic Control-calling-in point; arrow indicates direction of vessel movement.

MARINER ACTIVATED SOUND SIGNAL

DE TOUR REEF LIGHT - (MRASS): Horn is activated by keying mic 5 times on VHF-FM CH 83A.

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area — Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to the draft of vessels when pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered reefs may be marked by lighted or unlighted buoys.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Sault Ste Marie, MI KIG-74 162.550 MHz (Chan WX-1)

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Limitations on the use of radio signals as aids to navigation are described in the front of the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
◯Accurate location) ◯Approximate location)

LAKE MICHIGAN - HURON

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
+6											
+5											
+4											
+3											
+2											
+1											
0											
-1											

Average levels (2003-2012)

Lowest Recorded Level (1964)

Lake Huron Water Level Gauge

Low Water Datum, which is the plane of reference for the lowest low water that is expected, is the plane of reference for the charted depths. If the lake level is above or below Low Water Datum, the existing depths are correspondingly greater or lesser than the charted depths.

CANADA WATERS

MAGNETIC VARIATION

SCALE 1:40,000
Nautical Miles 0 1 2
Statute Miles 0 1 2 3
Yards 0 1000 2000 3000 4000 5000
Meters 0 1000 2000 3000 4000 5000

CONTINUED ON CHART 14883

CONTINUED ON CANADIAN CHART 2251

CONTINUED ON CHART 14884

CONTINUED ON CHART 14881

DE TOUR PASSAGE
MICHIGAN
Scale 1:20,000
SOUNDINGS IN FEET
FEET
METERS

36th Ed., Jan. 2014
14882
Last Correction: 12/16/2015. Cleared through:
LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)

To ensure that this chart was printed at the proper scale, the lines below should measure as inches (1in) millimeters.
If the line does not measure as inches (1in) millimeters, this copy is not certified safe for navigation.

CAUTION
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

SOUNDINGS IN FEET

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

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| ATMOSPHERIC | | | | | | | | | | |