Formerly LS 95, 1st Ed., Aug 1916 KAPP 1511.

L A K E S U P E R I O R

UNITED STATES - GREAT LAKES

LAKE SUPERIOR, MICHIGAN - WISCONSIN

REDRIDGE TO SAXON HARBOR

Polyconic Projection
Scale 1:120,000

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

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

THE NATION'S CHARTMAKER SINCE 1807

JOINS CHART 14966

JOINS CHART 14964

JOINS CHART 14967

SCALE 1:120,000
Nautical Miles
Statute Miles
Yards
Meters

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum) ..... 601.1ft.
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.
LIGHT LISTS AND NOTICE TO MARINERS: U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
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, and U.S. Coast Guard.

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 for details.

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 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.06" southward and 0.563" westward to agree with this chart.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below providing continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 160 nautical miles for stations at high elevations.

Houghton, MI WXK-73 162.400 MHz (WX-2)

CAUTION
POTABLE WATER INTAKE

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.

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

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

Pump-out facilities

CAUTION

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

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.

NOTE B
Mariners should use caution as military craft may be operating within the area. For further information consult the U.S. Coast Guard Local Notice to Mariners.

Military Exercise Area (see note B)

NO-DISCHARGE ZONE (see note 2)

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 their draft in areas where pipelines and cables may exist, and when anchoring, dredging, or fishing.

Covered wells may be marked by lighted or unlighted buoys.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions and changes 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.

APOSTLE ISLANDS NATIONAL LAKESHORE
The Apostle Islands National Lakeshore boundary extends from the shoreline to ¼ mile offshore.

NOTE 2
NO-DISCHARGE ZONE. 40 CFR 140
Michigan waters of Lakes Michigan, Huron, Superior, Erie and St. Clair, all waterways connected therein, and all inland lakes are designated as a No-Discharge Zone (NDZ) pursuant to Section 312 of Public Law 92-500. 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 Great Lakes are found in 33 CFR Part 159. 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/

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).

Latitude and Longitude Plotting Interpolator

SOURCE DIAGRAM
Most of the hydrography identified by the letter "I" was surveyed by the U.S. Army Corps of Engineers prior to 1974. Channels 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
Pre-1974 Lake Survey Surveys partial bottom coverage

LAKE SUPERIOR
Elevation in feet
Average levels (2004-2013)
Extreme Levels (period of record)
Low Water Datum, which is the plane of reference for the soundings and the contours, is 601.1 feet (183.2 meters) below the datum 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.

AERO

Outer Island Shoal
OUTER ISLAND LT
Fl 10s 130ft 12 St M
Racon (O)
OUTER ISLAND
Quarantine Area
Quarantine Area
Quarantine Area