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

Formerly LS 705, 1st Ed., Oct 1942 KAPP 1394

SOUNDINGS IN FEET

14912

86°30' 86°25' JOINS CHART 14908 86°20' 86°15' 86°10' 86°05' 86°00' 85°55' JOINS CHART 14911 85°50' 85°45'

45° 30' 45° 25' 45° 20' 45° 15' 45° 10' 45° 05' 44° 55' 44° 50' 44° 45' 44° 00'

SCALE 1:80,000
Nautical Miles
Statute Miles
Yards
Meters

MAGNETIC
VAR 5°30'W (2016)
ANNUAL INCREASE 2'

NO-DISCHARGE ZONE (see note Z)

Y ODAS "45002"
Fl (4) Y 20s
PA

L A K E M I C H I G A N

Latitude and Longitude Plotting Interpolator

NORTH FOX ISLAND
SOUTH FOX ISLAND
Foul Area
Wreck
ABAND LT HO

SOUTH FOX ISLAND SHOALS
Fl R 4s 20ft "2" Priv PA
Fl R 4s 20ft "4" Priv PA

NORTH MANITOU ISLAND
Vessel Portal
Lake Manitou
North Manitou
Tamarack Lake
Dimmicks Point
Donner Point
Gull Point
SOUTH MANITOU ISLAND
Florence L.
Sandy Point
F 54ft Priv LT HO
Quarry
Ferry
Empire
Empire Bluffs
Domes
Otter Cr.
Otter L.
Bass L.
Platte River
Platte Bay
Glen Haven
Sleeping Bear Point
Sleeping Bear Bay
SLEEPING BEAR SHOAL
Glen Arbor
Yucker L.
Fisher L.
Brooks L.
GLEN LAKE
The Sleeping Bear
N. Bar L.
S. Bar L.
Gilmore Lake
Duck L.
Carp River Point
LAKE LEELANAU
Leland
Fl R 4s 25ft "4" SI M "2"
Fl G 2.5s 22ft 6 SI M "1"
Pyramid Point
PYRAMID POINT SHOAL
NORTH MANITOU SHOALS
MANITOU PASSAGE
Pyramid Point
Good Harbor Bay
Port Oneida
Narada L.
Little Traverse Lake
Lime Lake
Shalda Corner
School Lake
Shalda Cr.
MICHIGAN

NO-DISCHARGE ZONE (see note Z)

Fl R 4s 20ft "2" Priv PA
Fl R 4s 20ft "4" Priv PA
North Manitou Shoal LT
Fl R 15s 79ft 14 SI M HORN
(4 MACON-)
G "5" Fl G 4s
G "7" Fl G 4s BELL
Fl R 4s
Fl R 4s 58ft 4 SI M "2"
R "8" Fl R 4s GONG

086° T. 1.44 Miles
314° 1.44 Miles
060° T. 6.5 Miles
090° T. 17 Miles
Ferry
Track
Ferry
327° T. 6½ Miles
212° 6¼ Miles
217° 5¾ Miles
037° 4¾ Miles
Grand Traverse Light

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.

CAUTION
Limitations on the use of radio signals as aids to marine navigation can be found in 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)

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.

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.

NOTE Z
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). This chart falls entirely within the limits of 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/.

Pump-out facilities

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.

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, dragging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.

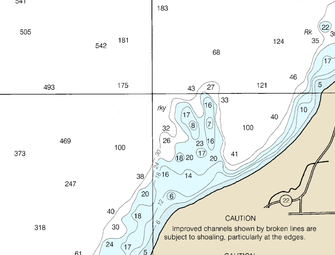
Additional information can be obtained at nauticalcharts.noaa.gov.

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.

NOAA WEATHER RADIO BROADCASTS
The NOAA Weather Radio stations listed below provide 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.

Sister Bay, WI	WXN-69	162.425 MHz
Traverse City, MI	KIH-22	162.400 MHz

LAKE MICHIGAN - HURON



Low Water Datum, which is the plane of reference for the levels shown on the above hydrograph, is also 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.

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES
LAKE MICHIGAN - MICHIGAN

PLATTE BAY TO LELAND

Polyconic Projection
Scale 1:80,000
North American Datum of 1983
(World Geodetic System 1984)
SOUNDINGS IN FEET

NOTES
PLANE OF REFERENCE OF THIS CHART (Low Water Datum)..... 577.0 ft.
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.
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 National Geospatial-Intelligence Agency.

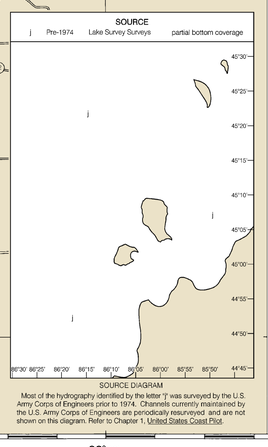
POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

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.

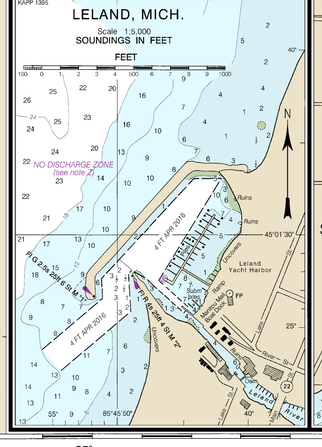
HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.002" southward and 0.319" westward to agree with this chart.

SOURCE

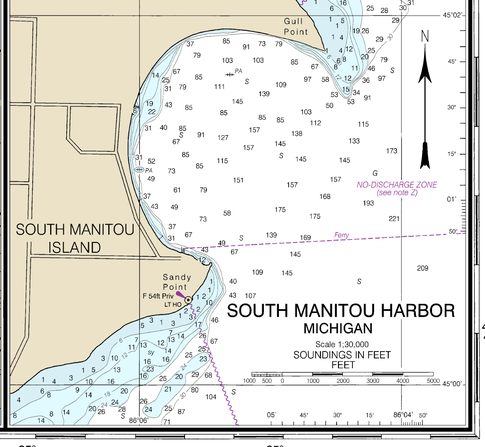


SOURCE DIAGRAM
Most of the hydrography identified by the letter "j" was surveyed by the U.S. Army Corps of Engineers prior to 1974. Channels currently maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

LELAND, MICH.
KAPP 1395
Scale 1:5,000
SOUNDINGS IN FEET



SOUTH MANITOU HARBOR
MICHIGAN
KAPP 1306
Scale 1:20,000
SOUNDINGS IN FEET



18th Ed., Jan. 2016

14912

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.

Last Correction: 7/13/2016. Cleared through:
LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)

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If the line does not measure six inches (152 millimeters), this copy is not certified safe for navigation.

SOUNDINGS IN FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

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FATHOMS / FEET / METERS

Platte Bay to Leland
SOUNDINGS IN FEET - SCALE 1:80,000

14912

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