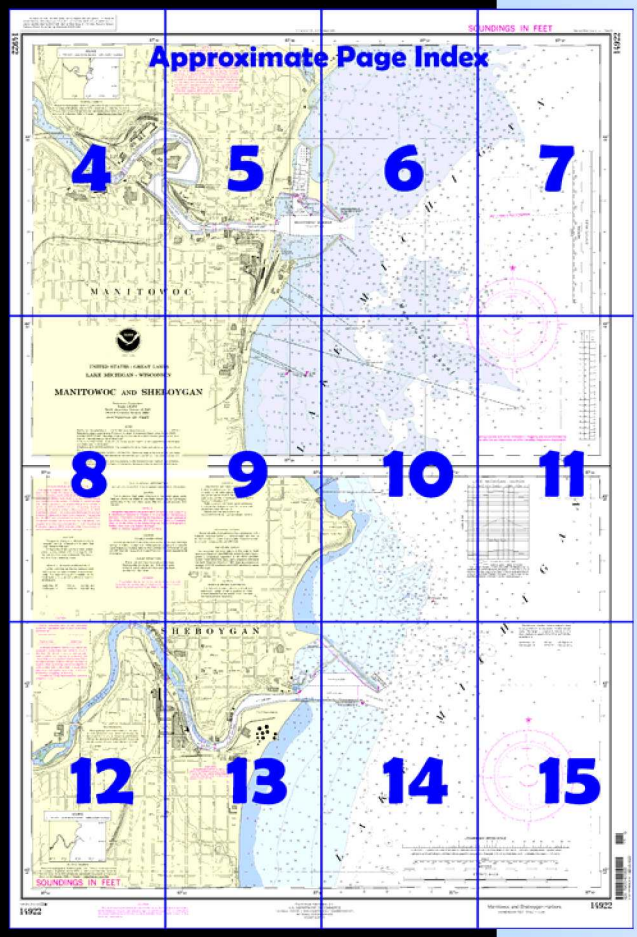
BookletChart™

Manitowoc and Sheboygan

(NOAA Chart 14922)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ *Complete, reduced scale nautical chart*
- ☑ *Print at home for free*
- ☑ *Convenient size*
- ☑ *Up to date with all Notices to Mariners*
- ☑ *United States Coast Pilot excerpts*
- ☑ *Compiled by NOAA, the nation's chartmaker.*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NOAA
U.S. DEPARTMENT OF COMMERCE

Home Edition (not for sale)

Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
301-713-2770

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

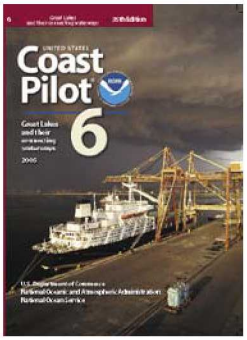
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 6, Chapter 11 excerpts]
(762) **Sheboygan, Wis.**, is a port city about 51 miles N of Milwaukee Harbor at the mouth of the **Sheboygan River.**
(763) **Sheboygan Breakwater Light** (43°45.0'N., 87°41.5'W.), 55 feet above the water, is shown from a cylindrical tower on the outer end of the breakwater on the N side of the entrance channel; a fog signal is at the light.
Caution
(764) A Sheboygan Police Department firing zone is about 2 miles S of the S pier at Sheboygan Harbor. The firing area is 3,500 feet wide and extends about 3 miles lakeward. Firing is conducted from 0600 to 2100 7 days a week, year round; red flags are displayed while firing is in progress. Extreme caution is advised.
(774) **Sheboygan Coast Guard Station** is on the N side of the mouth of Sheboygan River.
(777) Marinas in the Sheboygan River provide transient berths, gasoline, diesel fuel, water, ice, launching ramp, electricity, sewage pump-out, and limited marine supplies. Hoists can handle 35-foot boats for engine and minor hull repairs.
(778) From Sheboygan, the shore is a moderate bluff for 24 miles NNE to Manitowoc. The shoal border in this stretch is up to 1.4 miles wide and has scattered rocks and boulders covered 8 to 12 feet near the outer edge. **Sheboygan Reef,** with depths of 4 to 18 feet and marked on the E side by a buoy, is 0.6 mile N of Sheboygan Breakwater Light. A dangerous boulder, covered 2 feet, is 0.7 mile offshore 9.6 miles N of Sheboygan. A dangerous submerged rock is 1 mile offshore at the village of Northeim, Wis., 17 miles N of Sheboygan.
(782) **Manitowoc, Wis.**, is a port city at the mouth of **Manitowoc River,** about 75 miles N of Milwaukee Harbor. The most prominent feature at Manitowoc is the lighted elevator 0.6 mile SW of Manitowoc Breakwater Light. The lighted stack 0.5 mile S of the elevator has horizontal red and white bands.
(783) **Manitowoc Breakwater Light** (44°05.6'N., 87°38.6'W.), 52 feet above the water, is shown from a cylindrical tower on a fog signal building on the outer end of the N breakwater; a fog signal is at the light.
(791) **Manitowoc Shoal**, on the S side of the approach to the harbor, has a least depth of 14 feet about 0.65 mile SE of Manitowoc Breakwater Light. The NE side of the shoal area is marked by a buoy. A shoal with a least depth of 14 feet is about 1.2 miles SE of the breakwater light.
(794) A **speed limit** of 4 mph (3.5 knots) is enforced in the harbor. (See **33 CFR 162.120,** chapter 2, for regulations.) (795) Local harbor regulations are under the control of the Harbor Commission and are enforced by the **harbormaster** who can be reached through the Board of Harbor Commissioners, City Hall, 817 Franklin Street, Manitowoc, Wis. 54220. Copies of the regulations can be obtained from the Board of Harbor Commissioners. A **speed limit** of 4 mph is enforced within the harbor limits.
(802) Transient berths, electricity, water, ice, gasoline, diesel fuel, marine railway with lift capacity of 35 tons for vessels up to 70 feet for hull and engine repairs, sewage pump-out facilities, and a launching ramp are available on the N side of the river mouth.

Table of Selected Chart Notes

Ⓟ Pump-out facilities

Corrected through NM Nov. 22/08
Corrected through LNM Nov. 18/08

Polyconic Projection
Scale 1:10,000
North American Datum of 1983
(World Geodetic System 1984)
SOUNDINGS IN FEET

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.

CAUTION
BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

RACING BUOYS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.

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.

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 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) o(Approximate location)

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.

Green Bay, WI	KIG-65	162.550 MHz
Sheboygan, Wi	WWG-91	162.425 MHz

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.

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 must be corrected an average of 0.019" southward and 0.305" westward to agree with this chart.

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).

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.

SUPPLEMENTAL INFORMATION

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

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

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.

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 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 Buffalo, New York and Detroit, Michigan.

Refer to charted regulation section numbers.

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.

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.

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.

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

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

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

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

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum).....577.5 ft.
Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).

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.

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://NauticalCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, http://OceanGrafix.com, or help@OceanGrafix.com.

14922

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4

North

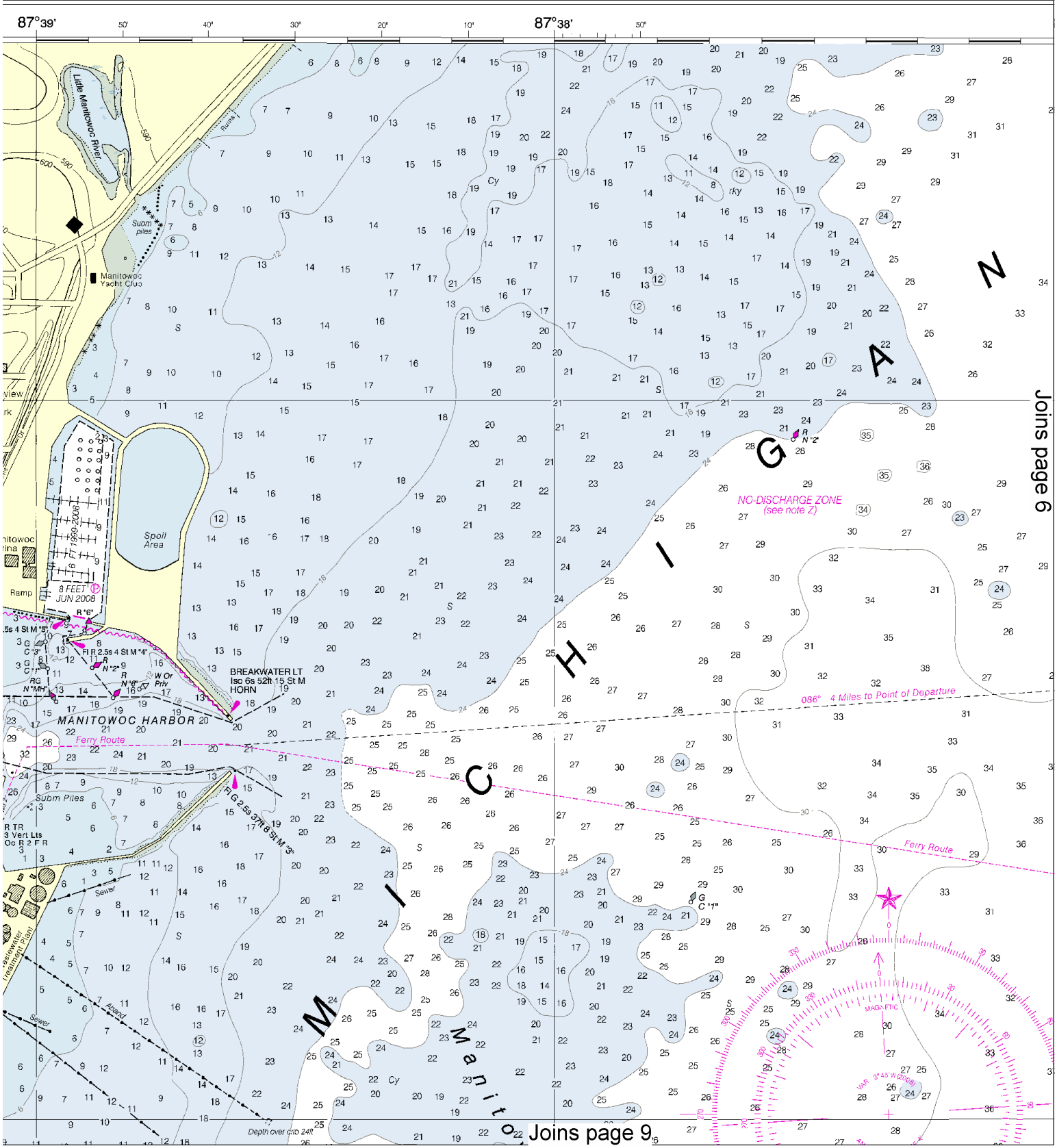
Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200



This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:13333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

avigation. The National
tions, or comments for
CS2), National Ocean

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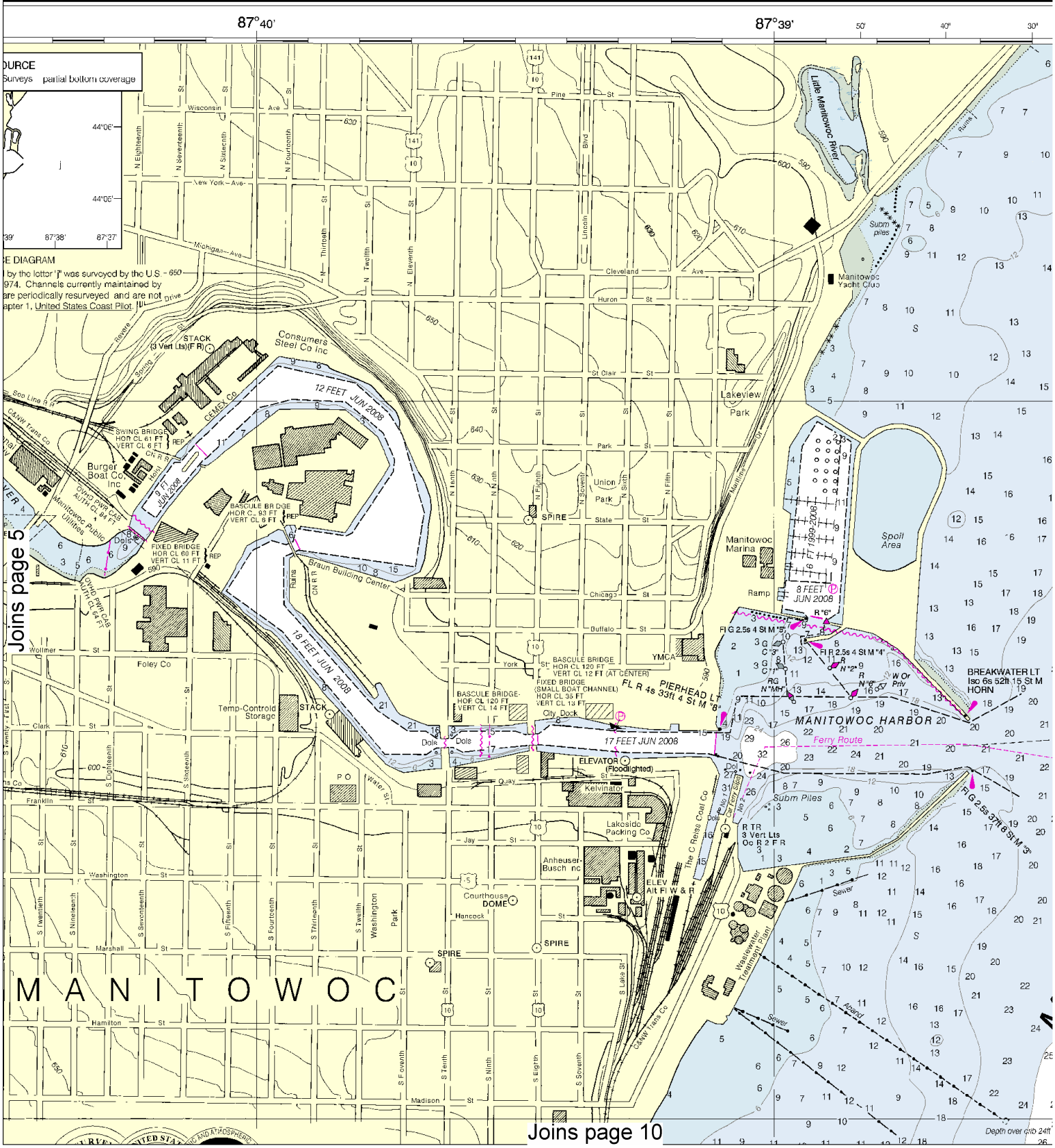
Formerly LS 735, 1st Ed., March 1939



6

North

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles

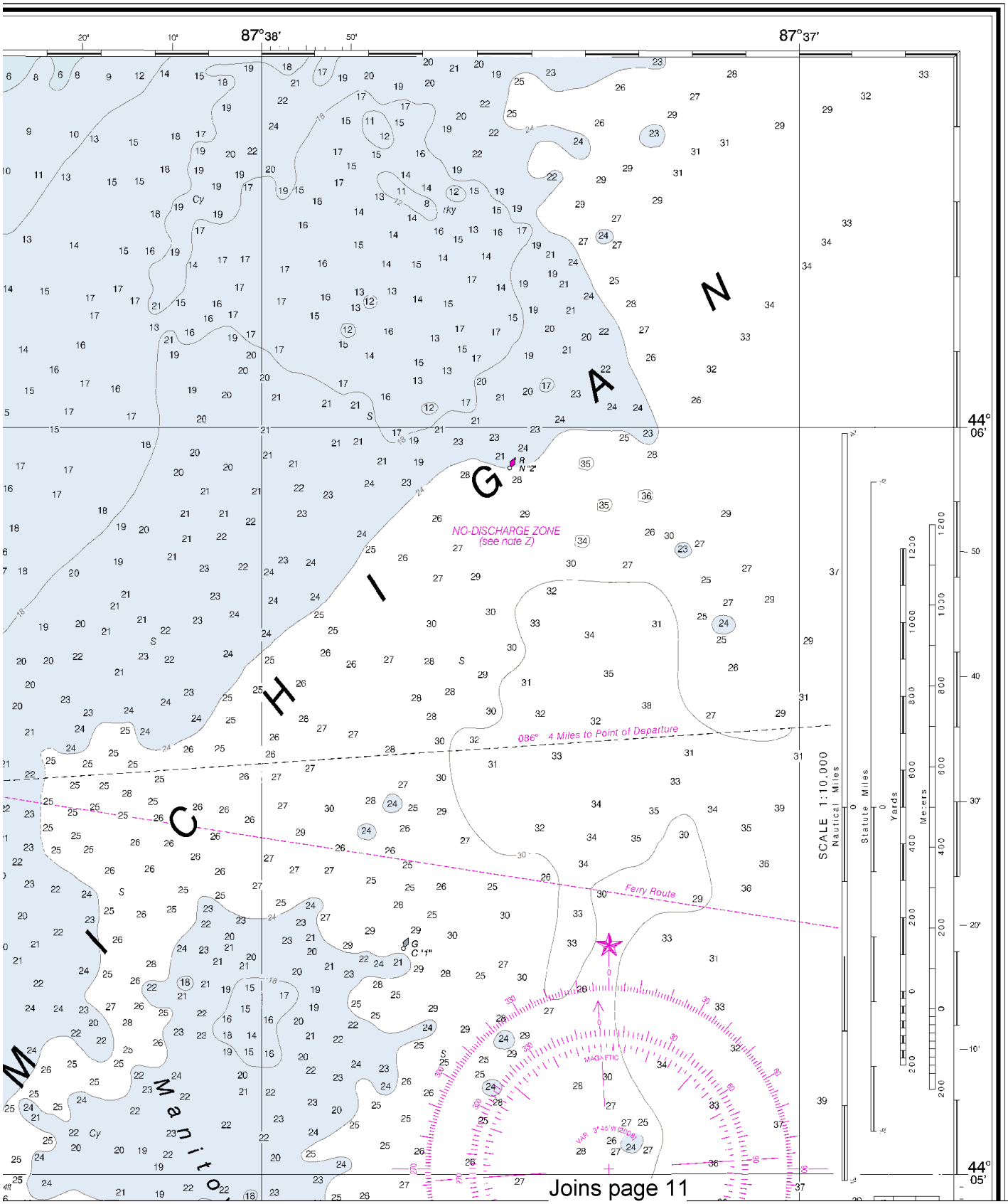
0

Yards

200 0 200 400 600 800 1000 1200

SOUNDINGS IN FEET

14922



This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0710 2/16/2010,
NGA Weekly Notice to Mariners: 0910 2/27/2010,
Canadian Coast Guard Notice to Mariners: 0110 1/29/2010.

Joins page 4

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

LAKE MICHIGAN - WISCONSIN

MANITOWOC AND SHEBOYGAN

Polyconic Projection
Scale 1:10,000
North American Datum of 1983
(World Geodetic System 1984)
SOUNDINGS IN FEET

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

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum).....577.5 ft. Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).

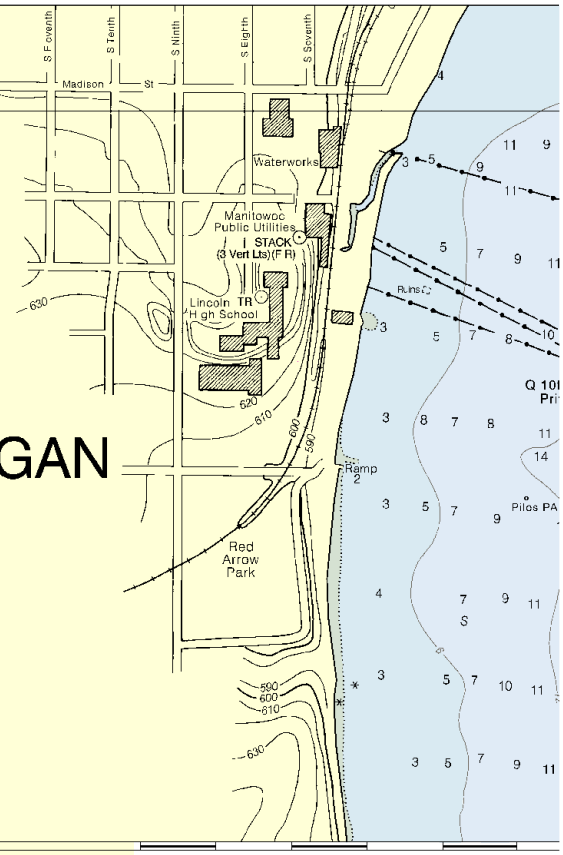
SAILING DIRECTIONS. Bearings of sailing courses are true and distances given thereon are in statute miles between points of departure.

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 and U.S. Coast Guard.



KAPP 1447 87°44

NOTE Z

NO-DISCHARGE ZONE, 40 CFR 140

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/.

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 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.

Green Bay, WI	KIG-65	162.550 MHz
Sheboygan, WI	WWG-91	162.425 MHz

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas

SUPPLEMENTAL INFORMATION

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

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.

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Refer to charted regulation section numbers.

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.

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.

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) o(Approximate location)

Ⓟ Pump-out facilities

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).

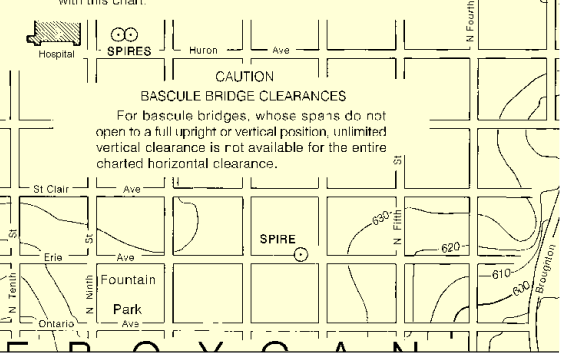
HORIZONTAL DATUM

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 must be corrected an average of 0.019" southward and 0.305" westward to agree with this chart.

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.



Joins page 12

8

North

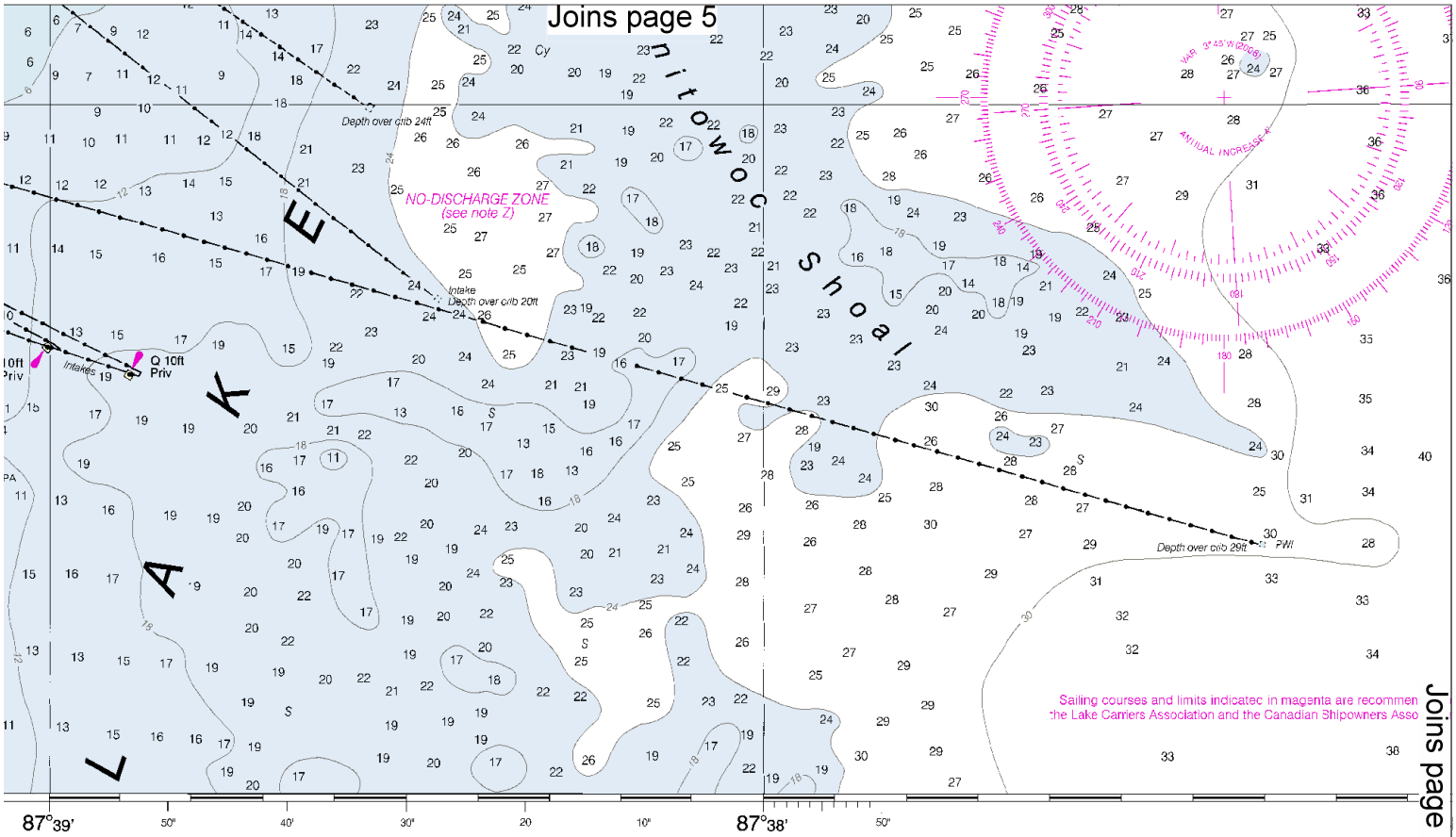
Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

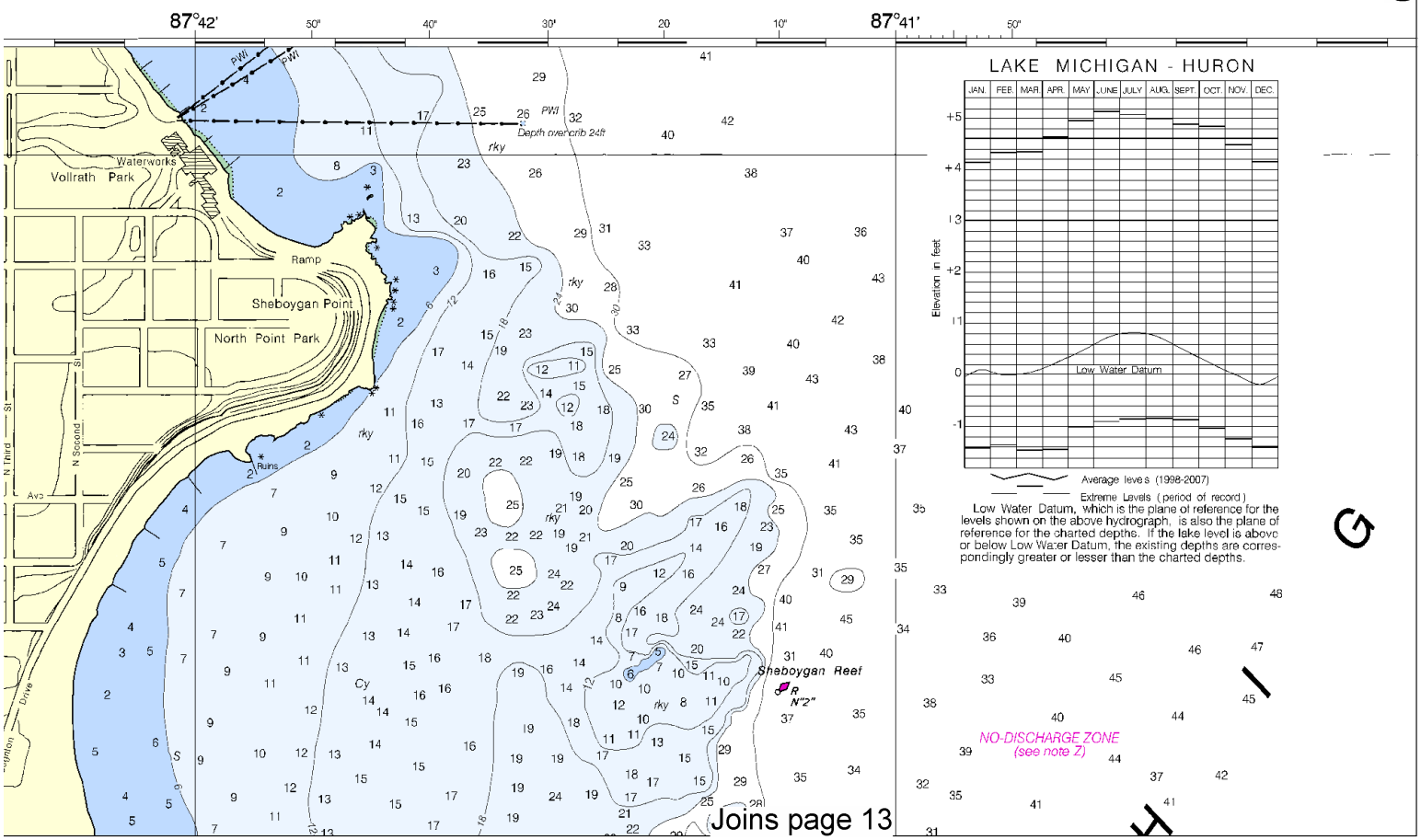
Nautical Miles

0

Yards

200 0 200 400 600 800 1000 1200


Joins page 5
Joins page 10
LAKE
Manitowoc Shoal
NO-DISCHARGE ZONE
(see note Z)
Depth over crib 24ft
Intake
Depth over crib 20ft
Intakes
Q 10ft
Priv
Depth over crib 29ft
PWI
Sailing courses and limits indicated in magenta are recommen
the Lake Carriers Association and the Canadian Shipowners Asso
87°39'
87°38'


87°42'
87°41'
Joins page 13
Vollrath Park
Waterworks
Ramp
Sheboygan Point
North Point Park
Ruins
Sheboygan Reef
R
N"2"
Depth over crib 24ft
PWI
LAKE MICHIGAN - HURON
JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.
Elevation in feet
Low Water Datum
Average levels (1998-2007)
Extreme Levels (period of record)
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NO-DISCHARGE ZONE
(see note Z)

Joins page 6

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

LAKE MICHIGAN - WISCONSIN

OWOC AND SHEBOYGAN

Polyconic Projection
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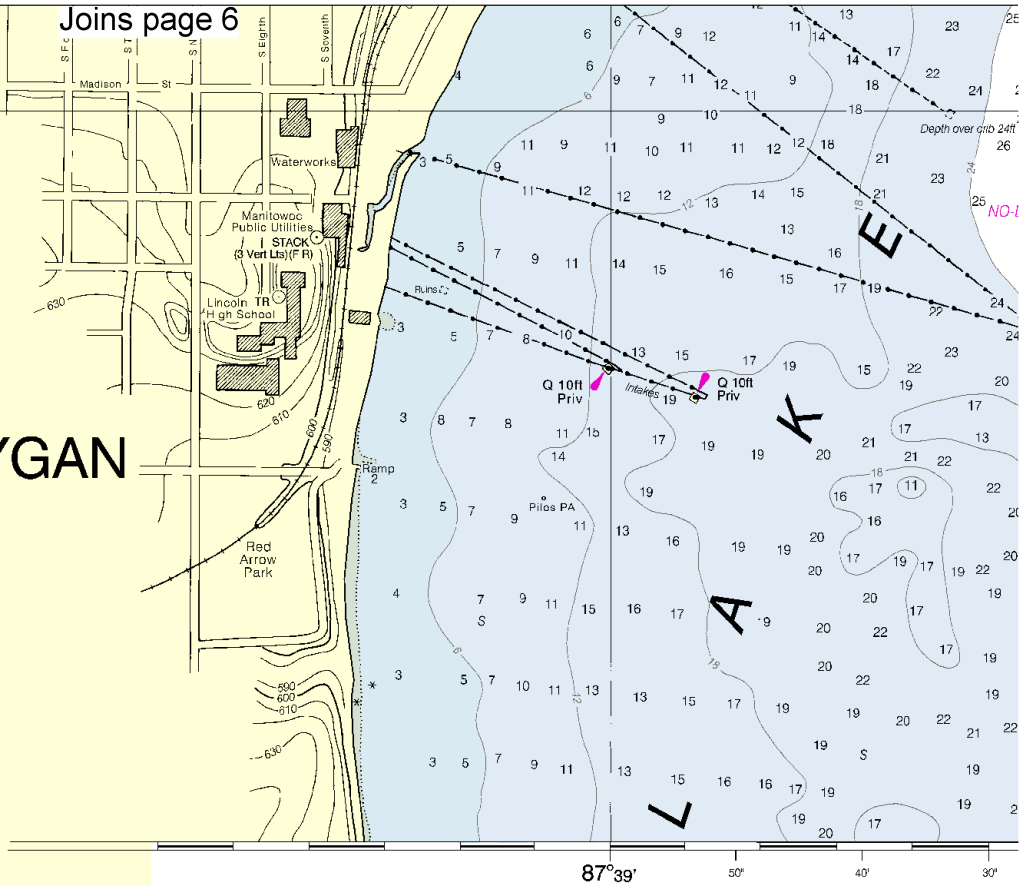

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mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).
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NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information
aids to navigation.
AND ABBREVIATIONS. For complete list of symbols and abbreviations see Chart

ND OVERHEAD CABLE CLEARANCES. When the water surface is above Low Water
dge and overhead clearances are reduced correspondingly. For clearances see U.S.
6.
TIES. Hydrography and Topography by the National Ocean Service, Coast Survey,
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Joins page 9

SUPPLEMENTAL INFORMATION

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CAUTION

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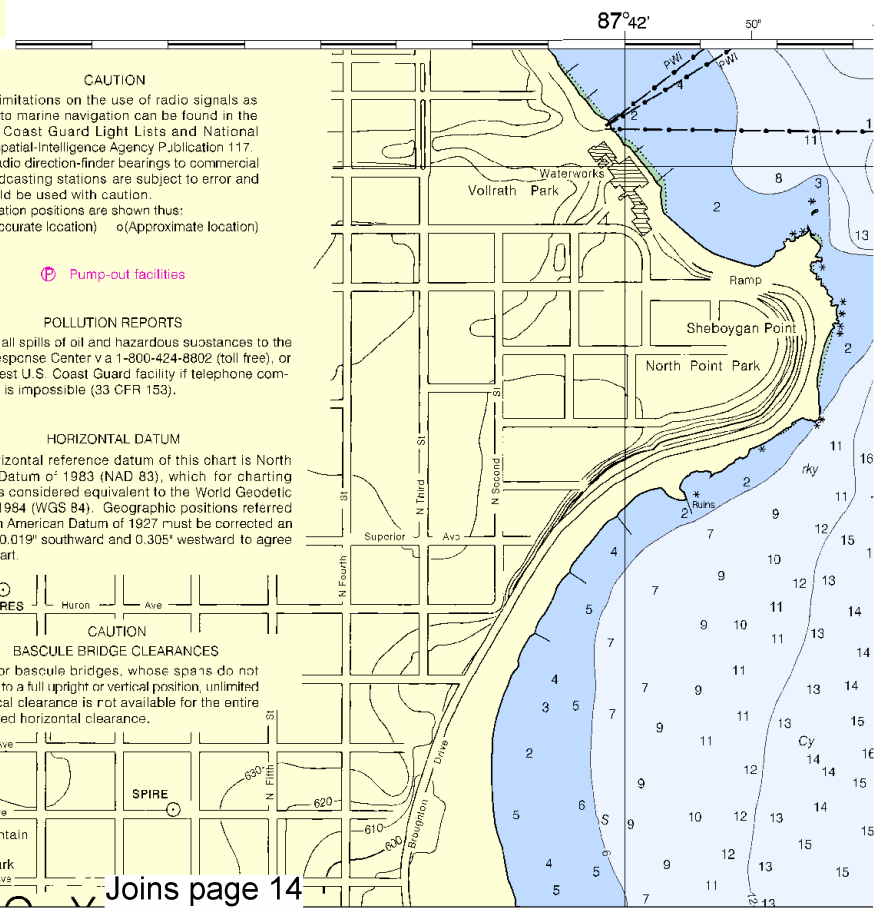


Joins page 14

North

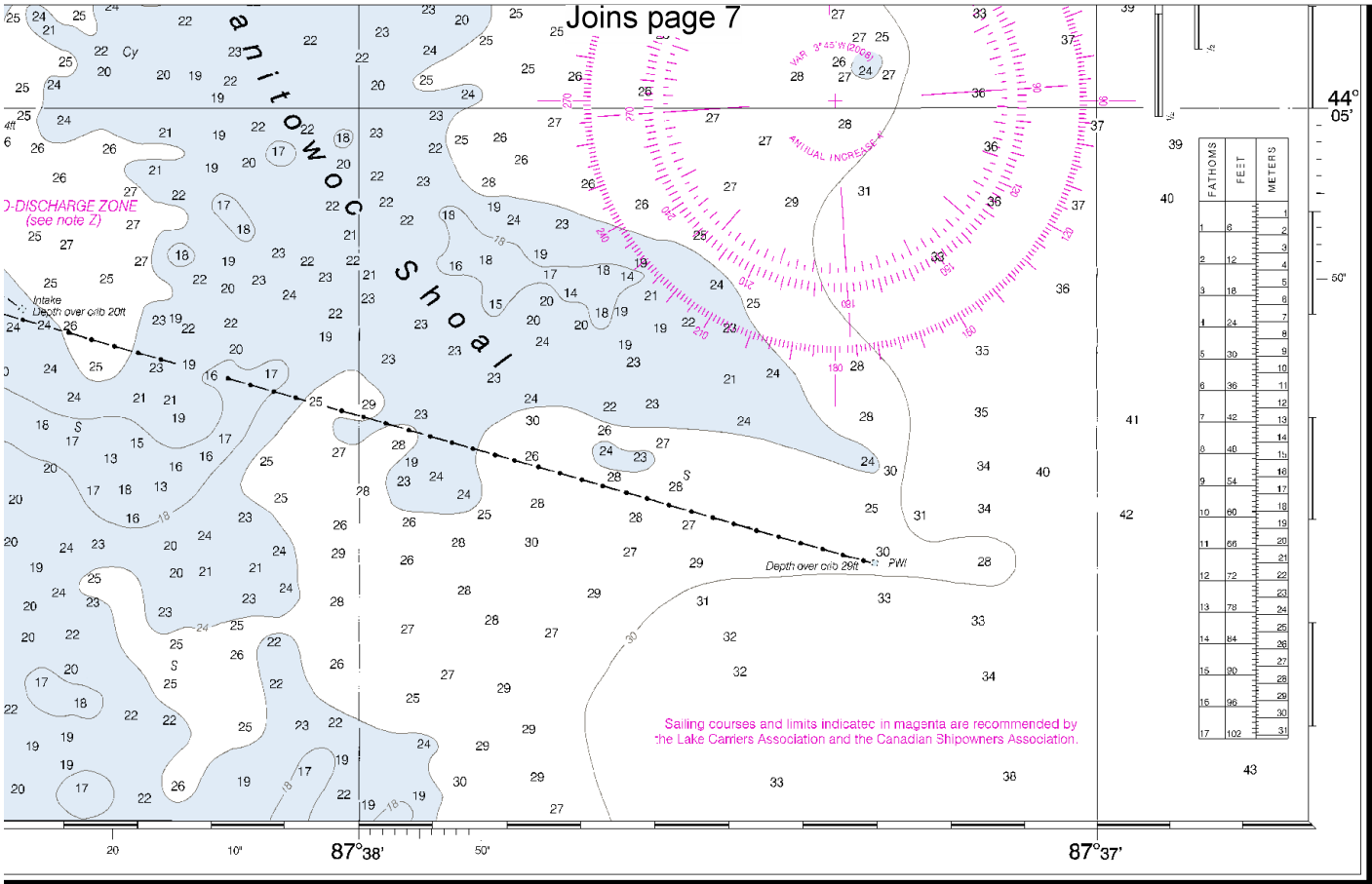
Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

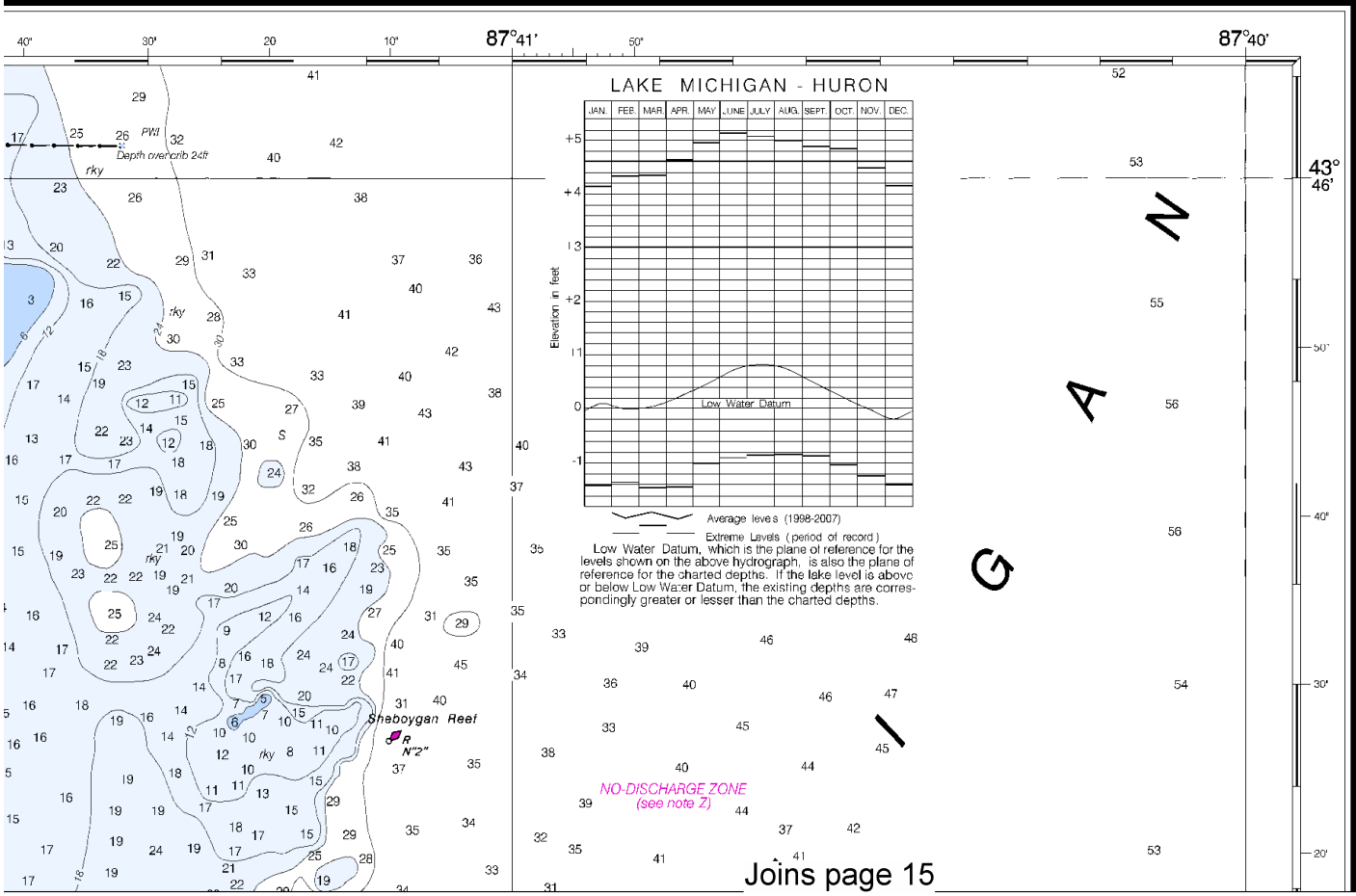
Nautical Miles

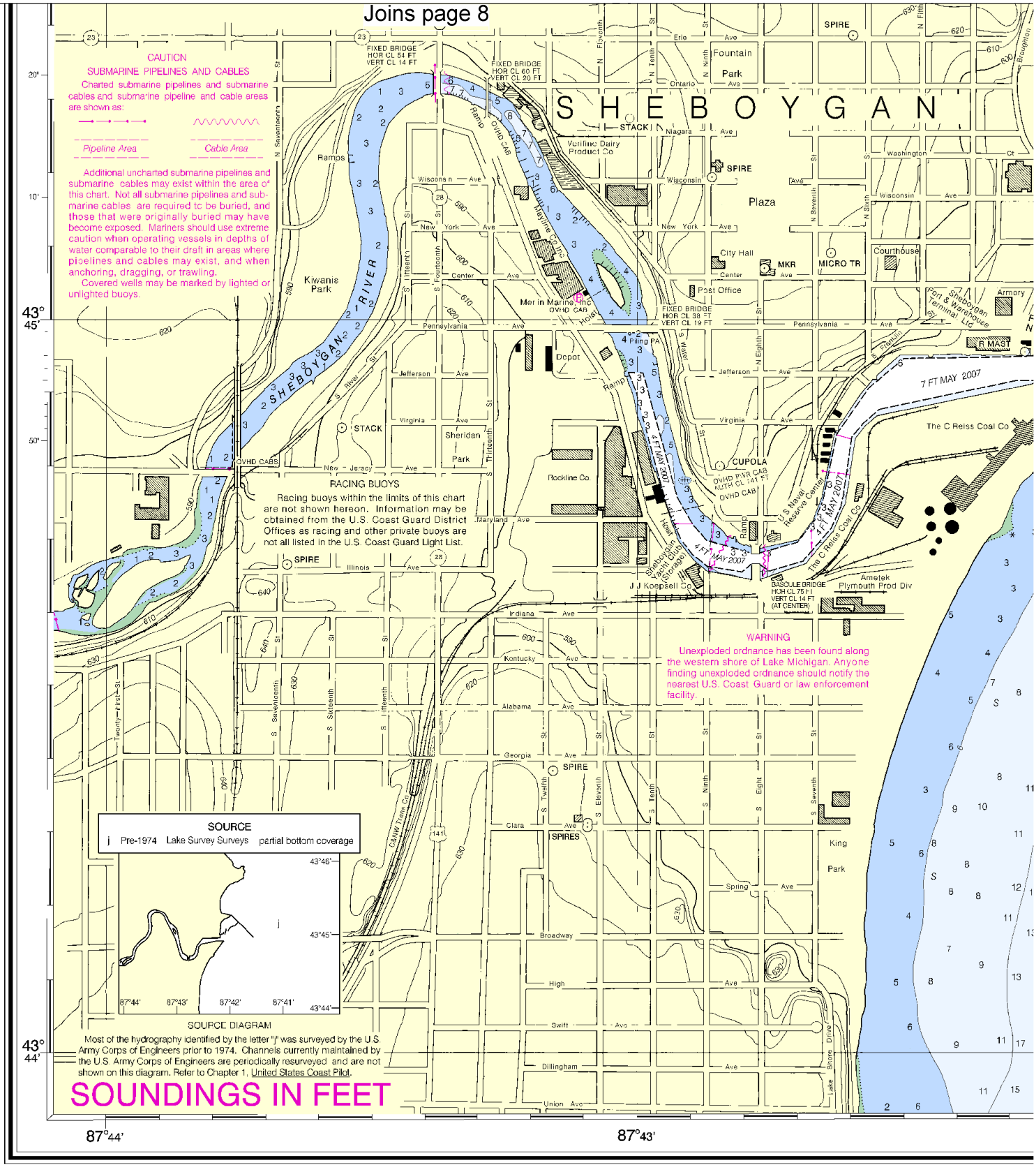
0

Yards

200 0 200 400 600 800 1000 1200


Joins page 7
Manitowoc Shoal
NO-DISCHARGE ZONE
(see note Z)
Intake
Depth over crib 20ft
Depth over crib 29ft
PWI
Sailing courses and limits indicated in magenta are recommended by the Lake Carriers Association and the Canadian Shipowners Association.
FATHOMS
FEET
METERS
44° 05'
87°38'
87°37'


87°41'
87°40'
43° 46'
LAKE MICHIGAN - HURON
JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.
Elevation in feet
Low Water Datum
Average levels (1998-2007)
Extreme Levels (period of record)
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.
Depth over crib 24ft
PWI
Sheboygan Reef
NO-DISCHARGE ZONE
(see note Z)
Joins page 15



20th Ed., Nov. / 08 ■ Corrected through NM Nov. 22/08
Corrected through LNM Nov. 18/08
14922

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.

NATIO

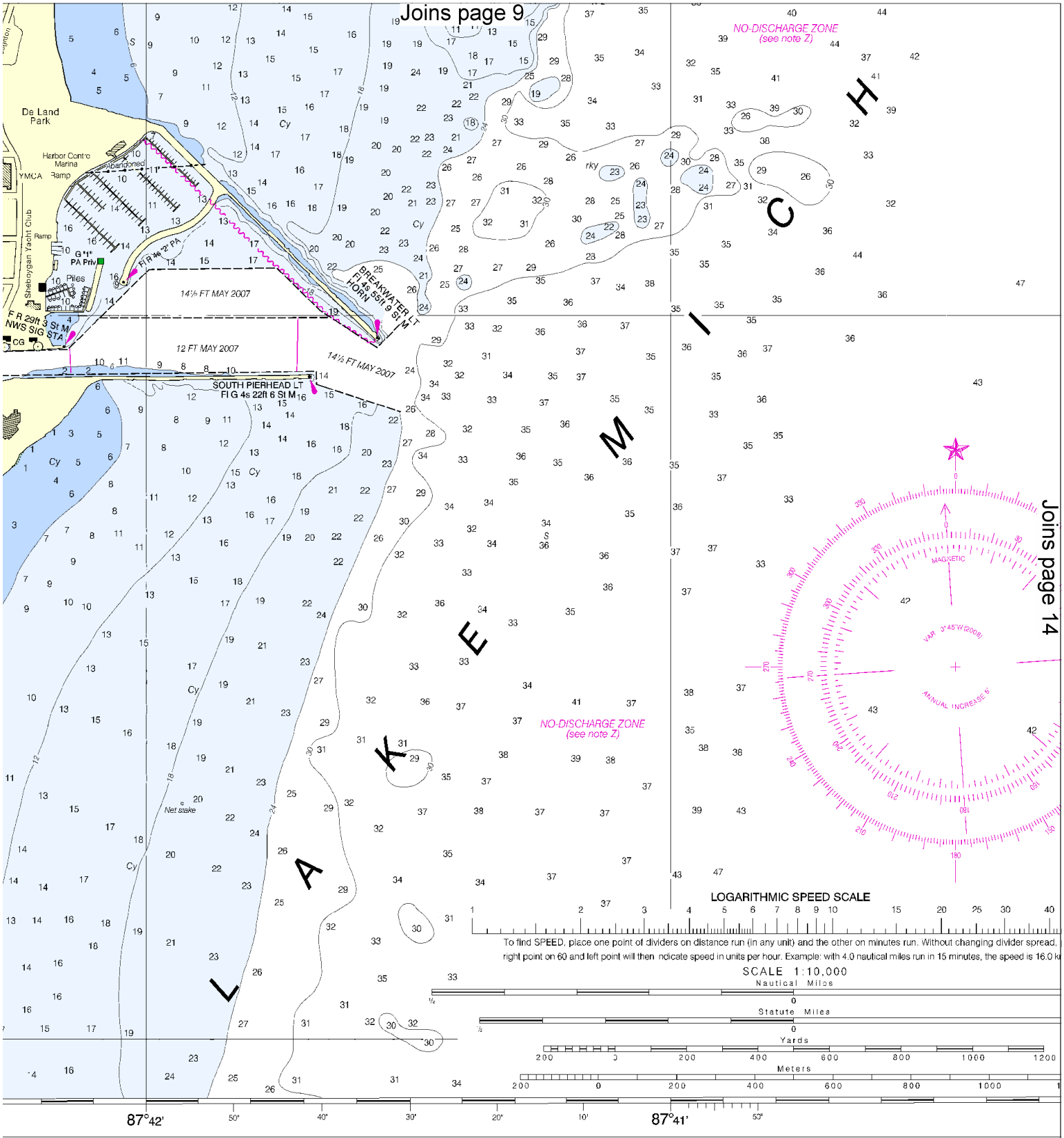
North

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles 0

Yards 200 0 200 400 600 800 1000 1200

Joins page 9



Joins page 14

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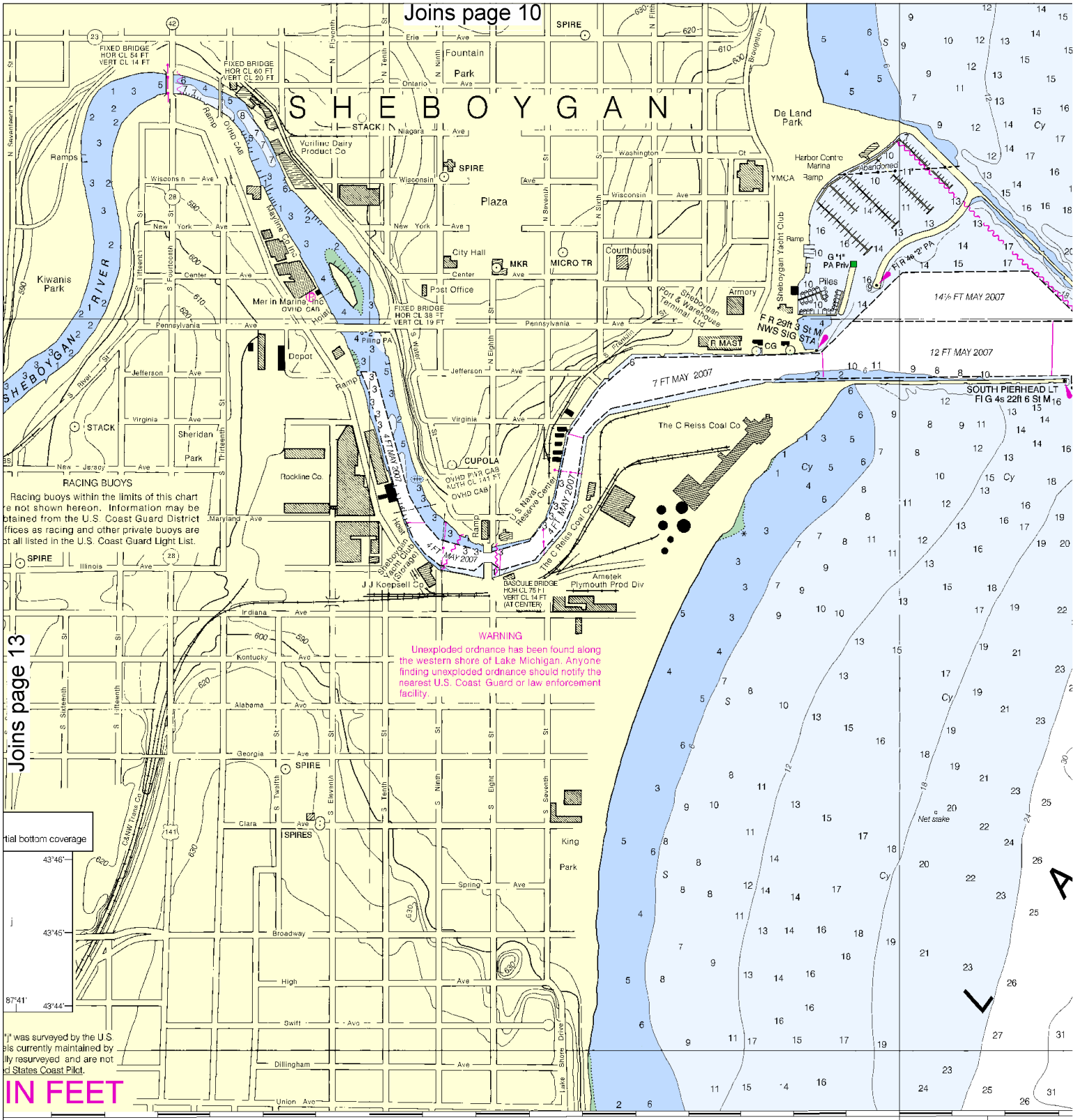
NATIONAL OCEAN SERVICE
COAST SURVEY

Manitowoc and Sheboygan Harbors

SOUNDINGS IN FEET - SCALE 1:10,000



'08
'08

CAUTION

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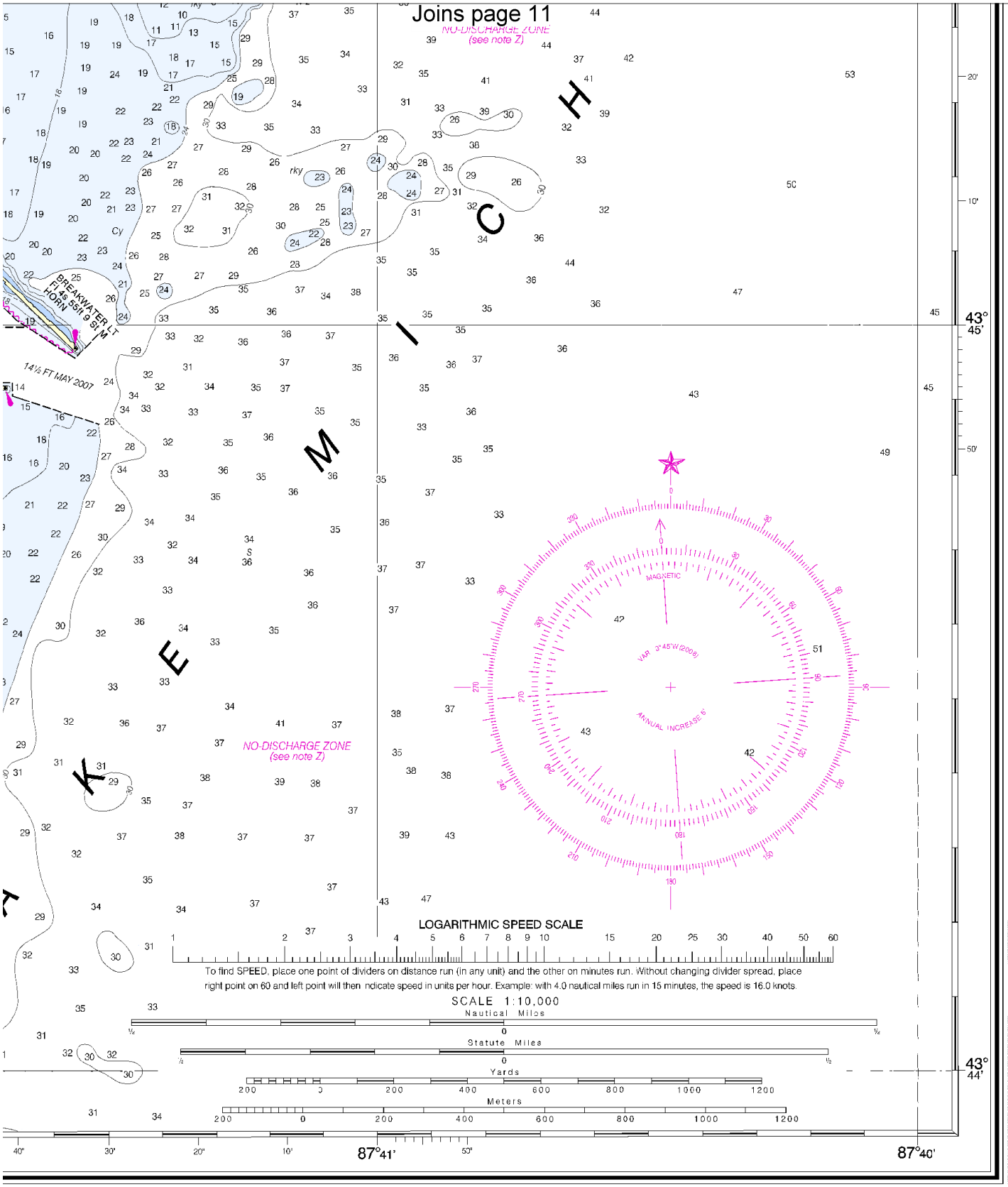
NATIONAL OCEAN SERVICE
COAST SURVEY

North

Printed at reduced scale. ~~SCALE 1:10,000~~ See Note on page 5.

Nautical Miles 0

Yards 200 0 200 400 600 800 1000 1200



Manitowoc and Sheboygan Harbors

SOUNDINGS IN FEET - SCALE 1:10,000

14922

ED NO 20
NSN 7642014010688
NGA REFERENCE NO. 14XHA14922

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.
Coast Guard Search & Rescue (RCC) – 216-902-6117
Coast Guard S & R (Milwaukee) – 414-747-7182

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

NOAA, The Nation's Chartmaker

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Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

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Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.