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.

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SOUNDINGS IN FEET

14848

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

LAKE ERIE - MICHIGAN

DETROIT RIVER

Polyconic Projection
Scale 1:30,000
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
Additional information can be obtained at nauticalcharts.noaa.gov.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions or revisions to Chapter 2 are published in the Notices 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.

Pump-out facilities

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). 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/.

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum 1983 (NAD 83) and is considered equivalent to the World Geodetic System 1984 (WGS 84) for practical plotting purposes. Positions referred to the North American 1927 Datum must be moved 0.139 seconds northward and 0.275 seconds eastward 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).

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.

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CAUTION
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.

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.

Adrian, MI	WNG-647	162.450 MHz
Detroit, MI	KEC-63	162.550 MHz
Sandusky, OH	KHB-97	162.400 MHz
Toledo, OH	WXL-51	162.550 MHz

ACKNOWLEDGMENT
The National Ocean Service acknowledges the exceptional cooperation received from members of the Grosse Ile Power Squadron; District 9, United States Power Squadrons, in continually providing essential information for revising this chart.

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.

For more detail of River Rouge see Chart No. 14854

DETROIT RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS AND PUBLIC WORKS CANADA - SURVEYS TO APR 2015

CONTROLLING DEPTHS FROM LAKE ERIE IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH LWD (FEET)
FIGHTING ISLAND CHANNEL	19.0	29.1	27.0	23.5	10-09	800	4.7	28.5
BALLARDS REEF CHANNEL	20.4	26.9	27.8	27.3A	11-09	600	3.5	27.5 - 28.5
LIVINGSTONE CHANNEL FROM LT "D77" TO 42°06'37N 83°07'45"W	20.0B	27.3	26.9	20.4C	4-15	450	3.1	27.7
LIVINGSTONE CHANNEL FROM 42°06'37N 83°07'46"W TO 42°04'37N 83°07'36"W	16.9	27.5	27.3	16.1	4-15	450	1.7	27.7
LIVINGSTONE CHANNEL FROM 42°04'07"N 83°07'58"W TO 42°03'08"N 83°08'05"W	23.5	27.6	28.3	22.8	4-15	450-800	1.1	27.7
LIVINGSTONE CHANNEL FROM 42°03'08"N 83°08'05"W TO LT "D30"	26.9	28.5	27.6	19.5	4-15	800	1.7	29.0
AMHERSTBURG CHANNEL FROM LT "D71" TO LT BUOY "D58"	26.9D	23.1	26.3	17.5	4,5-07	600	2.4	RT HALF 21.0 LT HALF 27.5
AMHERSTBURG CHANNEL FROM LT BUOY "D58" TO LT "D30"	28.1E	21.4	19.7	19.9	4,5-07	600-700	4.5	RT HALF 21.0 LT HALF 28.5
LIVINGSTONE CHANNEL FROM LT "D30" TO 42°02'07N 83°08'25"W	22.4	29.5	27.7	20.4	4-15	1200	1.5	29.0
EAST OUTER CHANNEL	23.1	28.5	28.5	24.1	5-91,7-08	1200	7.5	28.5
WEST OUTER CHANNEL	F	F	F	F	1987	800	4	22.0

A. SHOALING TO 16.6 FEET IN THE OUTSIDE 50 FEET OF QUARTER
B. SHOALING TO 15.7 FEET IN THE OUTSIDE 30 FEET OF THE U.S. PORTION OF QUARTER
C. SHOALING TO 5.6 FEET IN THE OUTSIDE 30 FEET OF THE U.S. PORTION OF QUARTER
D. SHOALING TO 11.9 FEET IN THE OUTSIDE 40 FEET OF QUARTER
E. SHOALING TO 23.3 FEET IN THE OUTSIDE 40 FEET OF QUARTER
F. NOT SURVEYED RECENTLY

NOTE: CONSULT THE U.S. ARMY CORPS OF ENGINEERS FOR SUBSEQUENT CHANGES IN U.S. WATERS AND THE CANADIAN HYDROGRAPHIC SERVICE FOR CHANGES IN CANADIAN WATERS

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)

For more detail of Detroit River see Chart No. 14853

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.

LAKE ST. CLAIR
Elevation in feet; Low Water Datum
Average levels (1997-2006)
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.

LAKE ERIE
Elevation in feet; Low Water Datum
Average levels (1997-2006)
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.

NOTES
PLANE OF REFERENCE OF THIS CHART (Low Water Datum). Depths are referred to the sloping surface of the river when Lake St. Clair is at elevation 572.3 feet and Lake Erie is at elevation 569.2 feet.
Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).
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.

SOURCE

B3	1940-1969	NOS Surveys partial bottom coverage
B4	1900-1939	NOS Surveys partial bottom coverage
e		Chart 14854

SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels 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.

TRENTON CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2011

CONTROLLING DEPTHS FROM SEANARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
ENTRANCE TO LT BY "16"	21.9	27.1	25.6	10-11	300-720	2.17	27
LT BY "16" TO LT BY "28"	27.7	27.9	24.6	10-11	300-680	2.17	27
LT BY "28" TO 800ft S. OF GROSSE ILE BRIDGE	24.9	26.4	24.5	10-11	300-620	1.31	27
600ft S. OF GROSSE ILE BRIDGE TO LT BY "19"	29.1	28.9	10.7	10-11	300-460	.56	28
LT BY "19" TO END OF TURNING BASIN	27.6	29.0	25.3	10-11	250-800	.38	28
END OF TURNING BASIN TO LT BY "9"	21.8	21.6	20.9	10-11	250-300	1.97	21
LT BY "9" TO END	19.1	20.4	18.8	10-11	140-1000	.51	21

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

LOGARITHMIC SPEED SCALE
To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots.

Vessel Traffic Services calling-in point; arrow indicates direction of vessel movement. Mandatory calling-in points are identified numerically. Voluntary calling-in points are identified alphabetically. For additional information see U.S. Coast Pilot 6 and the U.S. and Canadian Notices to Mariners.

SCALE 1:30,000
Nautical Miles
Statute Miles
Yards
Meters

For more detail see Chart No. 14854

For more detail of Detroit River see Chart No 14853

CONTINUED ON CHART 14850

JOINS RIGHT PANEL

JOINS LEFT PANEL

CONTINUED ON CHART 14830

58th Ed., Oct./ 07
14848

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: 8/26/2015. Cleared through:
LNM: 3715 (9/15/2015), NM: 3915 (9/26/2015), CHS: 0815 (8/28/2015)

To ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters).
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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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Detroit River
SOUNDINGS IN FEET - SCALE 1:30,000

14848