

UNITED STATES - GREAT LAKES
LAKE ERIE - OHIO - MICHIGAN

TOLEDO HARBOR

Polyconic Projection
Scale 1:20,000
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) 569.2 ft.
Referenced to mean water level at Toledo, Quebec; International Great Lakes Datum (1985) (IGLD 85).
USE TO NAVIGATE. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
SOUNDINGS 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.

HORIZONTAL DATUM
The horizontal reference datum of this chart is the 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 1983 must be corrected an average of 0.187' northward and 0.242' eastward to agree with this chart.

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

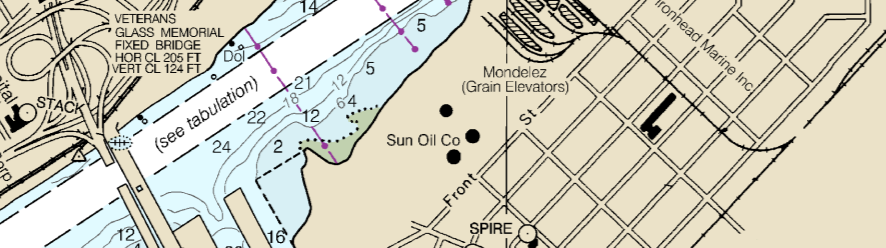
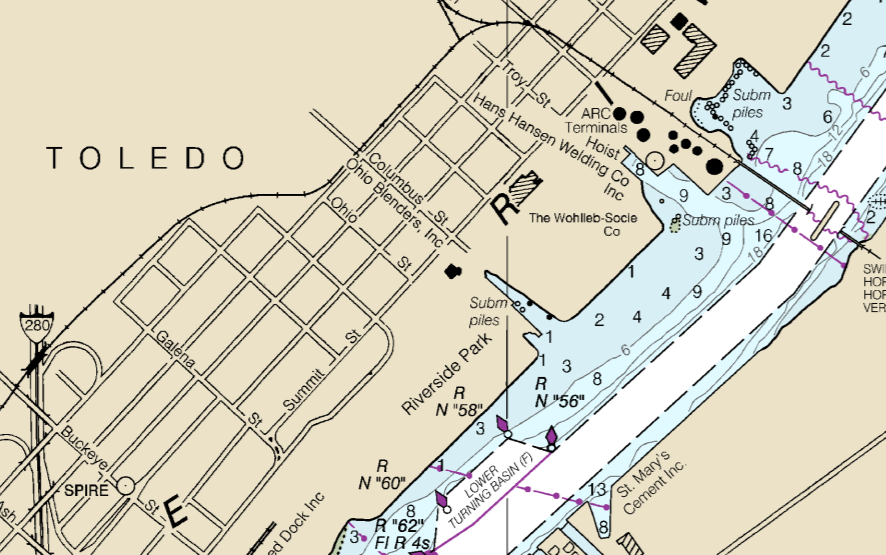
WARNING
The prudent mariner will not rely solely on any single aid to navigation - particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot 6 for details.

NOTE A
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 marked, and those that were originally marked may have become obscured. 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 where anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.

NAME OF CHANNEL	PROJECT DEPTH
TOLEDO HARBOR	20
MAUMEE RIVER	20
SANDUSKY RIVER	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20
TOLEDO HARBOR CHANNEL	20

PROJECT DEPTHS
Channel legends and tabulations, when indicated, reflect the U.S. Army Corps of Engineers (USACE) project depths. The channel may be significantly shallower depending on the extent of siltation. For detailed channel information and minimum depths as reported by USACE, see NOAA electronic navigational aids. USACE surveys and channel condition reports are available at <http://navigation.usace.army.mil/dredging.html>.

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
Due to periodic high water conditions in the Great Lakes, some bridges are closed at low water. Refer to U.S. Coast Pilot 6 for details.

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

CAUTION
During some winter months or when endangered by ice, certain aids to navigation are removed by other means 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 Geographic Intelligence Agency Publication 117. Radio direction-finding bearings to commercial broadcasting stations are subject to error and should be used with caution. The accuracy of station positions are shown thus: (1) Accurate location; (2) Approximate location.

RAIDAR 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
Fixed and floating obstructions, some submerged, may exist within the navigable waterway. Mariners are advised to proceed with caution.

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

Station	Call Sign	Frequency
Sandusky, OH	WNG-67	162.400 MHz
Adrian, MI	WNG-67	162.400 MHz
Chicago, MI	KCC-43	162.550 MHz
Toledo, OH	WOL-11	162.550 MHz

SCALE 1:20,000
Nautical Miles
Statute Miles
Meters

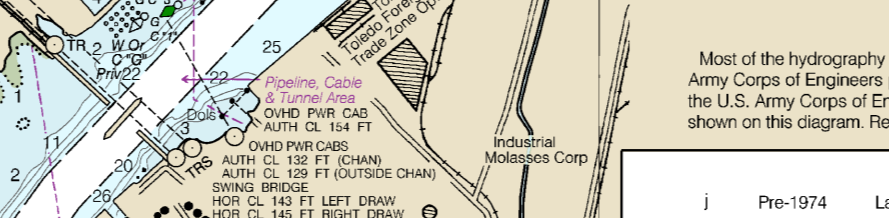
NOTE 2
NO-DISCHARGE ZONE, 40 CFR 140. Michigan waters of Lakes Michigan, Huron, Superior, Erie, and St. Clair. All waterways controlled thereto, and all related areas are designated as a No-Discharge Zone (NDZ). Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone are prohibited from discharging any sewage, treated or untreated, into the waterway. Commercial vessels are prohibited from discharging any sewage, treated or untreated, or oil, or any other pollutant into the NDZ. All vessels with an installed marine sanitation device (MSD) that are discharging sewage, treated or untreated, or oil, must have the MSD closed to prevent the overboard discharge of sewage, treated or untreated, or oil, into the NDZ.

NOTE 3
For bascule bridges, whose spans do not open to a full width or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

NOTE 4
For bascule bridges, whose spans do not open to a full width or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

NOTE 5
For bascule bridges, whose spans do not open to a full width or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

SOURCE DIAGRAM
Most of the hydrographic information on this chart 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 re-surveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.



SCALE 1:20,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

SCALE 1:40,000
Nautical Miles
Statute Miles
Meters

UNIT	1	2	3	4	5	6	7	8	9	10
FAHRENHEIT	32	34	36	38	40	42	44	46	48	50
CELSIUS	0	1	2	3	4	5	6	7	8	9

Toledo Harbor
SOUNDINGS IN FEET - SCALE 1:20,000

Use NOAA electronic navigational charts for the most up-to-date information.

31st Ed. Feb. 2006. Last Correction: 11/30/2009. Cleared Through: JAN 2011 (201101) NW 2003 (20030101) CAG 1011 (10120011)

This is the electronic version of this chart. The following soundings are shown in the lower left hand corner. Chart updates conveyed from Notice to Mariners published after the date shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

(POD) providers fulfill a vessel's requirement to carry a navigational chart published by the National Ocean Service, including but not limited to 33 C.F.R. 164.33(a), 33 C.F.R. 164.72(b), and 46 C.F.R. 28.225(a). POD charts meet stringent print standards and can be recognized by an official certification of authenticity printed on the chart. A list of POD providers can be found at: nauticalcharts.noaa.gov

This is the electronic version of this chart. The following soundings are shown in the lower left hand corner. Chart updates conveyed from Notice to Mariners published after the date shown in the lower left hand corner are available at nauticalcharts.noaa.gov.