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WAR DEPARTMENT
CORPS OF ENGINEERS

SURVEY OF THE NORTHERN AND NORTHWESTERN LAKES
Made in obedience to Acts of Congress
and orders of
THE CHIEF OF ENGINEERS, U. S. ARMY

CHART OF DETROIT RIVER

1926

POLYCONIC PROJECTION

SCALE 1:40,000

AUTHORITIES

This chart is based on original surveys made by the U. S. Lake Survey in 1873, with corrections from subsequent surveys as follows:

By the Lake Survey Office:

American shore: Windmill Pt. to Belle Isle Bridge, reconnaissance and surveys 1907, 1916 and 1919. Belle Isle Bridge to Woodward Ave., Detroit, surveys 1901 and 1919, Woodward Ave. to lower limits of Wyandotte, surveys 1902-06; and 1919. Trenton to Pte. Mouillee and Islands at mouth of Detroit River, surveys 1915. Hydrography vicinity Detroit River Light, surveys 1903 Rouge River and Detroit River in vicinity of mouth of Rouge River in 1923 and 1925.

Canadian shore: Peach Island to lower limits of Sandwich, surveys 1901-03 and 1919. Canadian Harbor line, surveys 1915. Public Works, Canada.

By the U. S. Engineer Office, Detroit District:

From one-half mile below River Aux Canards to Bar Point, surveys and reports 1912-25.

Numerous minor corrections have been based on information from miscellaneous sources at various times since the first issue.

NOTES

Soundings, in feet, are referred to the sloping surface of the River when Lake St. Clair is at elevation 576.37 feet and Lake Erie at elevation 573.11 feet above mean sea level. See table of comparative elevations of water levels.

The dotted surfaces represent the depths to 6.12 and 18 feet

Water areas with depths to 6.12 and 18 feet are tinted in blue.

Latitudes and Longitudes are based on the "North American Datum."

Harbor lines are indicated thus ———

Comparative Elevations of Water Levels on Lake Erie
referred to Mean Sea Level
(adjusted Levels of 1903)

High Water of 1838	575.11 ft.
Plane of reference of main chart	573.11 ft.
Mean stage 1860-1925, both inclusive	572.46 ft.
Low water datum for Harbor Improvements (1916)	570.80 ft.
Plane of reference of Inset (Standard Low Water)	570.00 ft.
Lowest recorded monthly mean, Feb. 1926	569.90 ft.

IMPORTANT NOTE.

The main chart, scale 1:40,000, is based upon surveys made in 1873, corrected to accord with more recent information. The soundings upon this main chart are in its lower portion given as depths below a plane whose elevation is 573.11 feet above mean sea level ——— The mean elevation of the surface of Lake Erie for 66 years (1860-1925) is 572.46 The depths upon the main chart are therefore too great by 0.65 foot for the mean level of Lake Erie, and during low-water periods the difference is still greater.

The inset chart, scale 1:25,000, shows depths below a plane which is 570.00 feet above mean sea level ——— During the season of navigation, Lake Erie is generally higher than this, and the soundings upon the inset chart are therefore usually less than the true depths. So far as it extends, the inset chart should be used.

SAILING DIRECTIONS

Bearings of sailing courses are true. Distances in statute miles.

The distances given on sailing lines are to or from the points of departure shown on Coast and General Charts.

Sailing lines:—— Range lines:——

ABBREVIATIONS

F.- fixed, *Fl.*- flashing, *Occ.*- occulting, *W.*- white, *R.*- red, *G.*- green, *B.*- black, *sec.*- seconds *Gp.*- group, *Alt.*- alternating LT.- Light, FR.- Front, R.- Rear, RGE.- Range, *S.*- spar, *H.S.*- horizontal stripes FOG W.- Fog Whistle, FOG S. Fog Siren, STO. SIG. STA.- Storm Signal Station, Pt.- Point, I. or Isl.- Island, RADIOTEL. STA.- Radiotelegraph Station, *Shl.*- Shoal, *Rf.*- Reef, Mls.- Miles. *(P)* Position doubtful. *(ED)* Existence doubtful.

The figures in brackets placed after the letters denoting character of light indicate its visibility in statute miles when observers eye is 15 feet above lake level.

For RULES and REGULATIONS, &c. and for LATEST REPORTS OF DEPTHS IN IMPROVED HARBORS and CHANNELS &c.

Consult the latest Bulletin and Supplements of the Survey of Northern and Northwestern Lakes published under the direction of the Chief of Engineers, U.S. Army, by the U.S. Lake Survey Office, Detroit, Mich.

These publications are obtainable by chart purchasers upon application to the Lake Survey Office.

DRY DOCK

Location	Name or Owner	Length on Blocks	Length Over all	Width Bottom	Width Top	Depth Entrance Over Sill
		ft.	ft.	ft.	ft.	ft.
Detroit, Mich.	Detroit Ship Bldg. Co. (Orleans St.)	344	367.5	52.5	93.2	74 14.4

FLOATING DRY DOCK

Location	Name or Owner	Floating Dock Length	Floating Dock Width	Floating Dock Depth	Max. Vessel Dimensions Length	Max. Vessel Dimensions Beam	Max. Vessel Dimensions Depth
		ft.	ft.	ft.	ft.	ft.	ft.
Rouge River, Mich.	Great Lakes Engineering Works	626	86	18	625	80	18

Depths referred to Harbor Improvement Datum.

MAGNETIC VARIATIONS.

LOCALITY	OBSERVED VARIATION	DATE OF OBSERVATION	OBSERVERS	COMPUTED VARIATION FOR JUNE, 1925
Bois Blanc Isl. Ont. (S. End)	1° 52.2 W.	Dec. 1905	U.S. Lake Survey	2° 51' W.
Detroit (Fort Wayne)	2° 33.5 W.	June 1913	" " "	3° 11' W.
Belle Isle Park	1° 55.1 W.	Oct. 1915	U.S.C. & G. Survey	2° 27' W.

NOTE: The magnetic variations on compass roses apply to their respective positions on this chart (unless otherwise noted) and are expressed to the nearest quarter degree.

OPENING AND CLOSING OF NAVIGATION

Location	Average dates Opening	Average dates Closing	Years used for averages	Average number of days closed
Mamajuda L.H.	Mar. 20	Dec. 17	22	93
Belle Isle L.H.	Apr. 3	Dec. 20	14	104
Wind Mill Point	Apr. 2	Dec. 21	22	102

NOTICE

MARINERS *are requested to report uncharted obstructions or changes affecting this chart to the* U.S. LAKE SURVEY OFFICE, *or to the nearest* U.S. ENGINEER OFFICE. *(See form attached to Supplements to Bulletin.)*

The International Boundary line as shown hereon is in accordance with the location adopted August 15, 1913 by the International Waterways Commission under Article IV of the treaty between the United States of America and the United Kingdom of Great Britain and Ireland signed April 11, 1908.

NOTE

Soundings in feet are referred to the sloping surface of the River when Lake Erie is at elevation 570.00 feet above mean sea level (Standard Low Water).

The limits of 6.12 and 18 Fathoms are indicated by corresponding curves. Water areas with depths to 18 feet are tinted in blue.

Latitudes and Longitudes are based on the North American Datum.

SURVEY OF THE NORTHERN AND NORTHWESTERN LAKES

LOWER DETROIT RIVER
SHOWING AVAILABLE CHANNELS
AND POSITIONS OF AIDS TO NAVIGATION
1926
SCALE 1:25,000

SCALE OF FEET
SCALE OF METERS
STATUTE MILES

Issued July 15, 1926. (1500)

On sale at U.S. LAKE SURVEY OFFICE, Detroit, Michigan
" " U.S. ENGINEER OFFICE, Buffalo, N.Y.
" " U.S. ENGINEER OFFICE, Sault Ste. Marie, Mich.
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AIDS TO NAVIGATION CORRECTED FROM INFORMATION RECEIVED TO JULY 15, 1926.

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