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WAR DEPARTMENT
CORPS OF ENGINEERS

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

MILWAUKEE HARBOR, WISCONSIN

Prepared and first issued under the direction of
Lieut. Colonel MASON M. PATRICK, Corps of Engineers, U.S.Army, in 1916
Second edition (in colors) revised and published under the direction of
Colonel E.M. MARKHAM, Corps of Engineers, U.S.Army, in
1924
SCALE 1:15,000

AUTHORITIES

U.S. LAKE SURVEY
Original Surveys in 1867 and 1871-1875
Later Surveys West shore of Lake Michigan, including Milwaukee Harbor in 1912.

U.S. ENGINEER OFFICE, Milwaukee, Wis.
Extensive Harbor improvements to date of issue.

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

High Water of 1838	584.69 ft.
Mean stage 1860; 1923 both inclusive	581.09 ft.
Low water datum for Harbor Improvements (1916)	579.60 ft.
Lowest recorded monthly mean, (Dec. 1923)	578.80 ft.
Plane of reference of this chart, (Standard Low Water)	578.50 ft.

6 ft. contours
12 ft. "
18 ft. "

NOTES

Soundings, in feet, are referred to Standard Low Water Datum. See table of comparative elevations of water levels
Water areas with depths to 6, 12 and 18 feet are tinted in blue.
Latitudes and Longitudes are based on the "North American Datum."
Shore line and land contours are referred to the water surface of Lake Michigan at the time of survey. Topographic contour interval 10 feet.
Chart preparation under the supervision of Andrew J. Swift, Assistant Engineer.

ABBREVIATIONS.

F.- fixed, Fl.- flashing, Occ.- occulting, W.- white, R.- red, B.- black, sec.- seconds, LT.- Light, RGE.- Range, FOG W.- Fog Whistle, STO. SIG. STA.- Storm Signal Station, RADIOTEL. STA.- Radiotelegraph Station, Lor. Isl.- Island.
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.

NOTICE

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

OPENING AND CLOSING OF NAVIGATION

Location	Average dates Opening	Closing	Years used for averages	Average number of days closed
Milwaukee	Mar. 10	Feb. 24	24	14

NOTE: The magnetic variation on compass rose applies to the position on the chart and is expressed to the nearest quarter degree.

DRY DOCK

Location	Name or Owner	Length Inside Keel blocks	Length Over all	Width Bottom	Width Top	Entrance	Depth Over sill	Remarks
Milwaukee, Wis.	Milwaukee Dry Dock Co.	450	465.5	57	85	61	12.7	

Depths referred to Harbor Improvement Datum.

For DESCRIPTIONS OF DANGERS, &c. and the 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.

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:.....

SCALE OF FEET
SCALE OF METERS
STATUTE MILES

Issued March 19, 1924 (1000)

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On sale at U.S. LAKE SURVEY OFFICE, Detroit, Michigan
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AIDS TO NAVIGATION CORRECTED FROM INFORMATION RECEIVED TO MARCH 19, 1924
MAY 21, 1924.

Catalogue No 743

Map Division
SEP 13 1924
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