PORT WASHINGTON HARBOR
WISCONSIN

1933

SCALE 1:10,000.

SCALE OF FEET

NOTE.

Depths are expressed in feet and are referred to Standard Low Water Datum. See table of comparative elevations of water levels hereon.

Latitudes and longitudes are based on the North American Datum.

Topographic contour interval is 10 feet.

Water areas with depths to 6, 12 and 18 feet are tinted in blue.

WAR DEPARTMENT

CORPS OF ENGINEERS

SURVEY OF THE NORTHERN AND NORTHWESTERN LAKES

LAKE MICHIGAN

PORT WASHINGTON, WIS. TO WAUKEGAN, ILL.

LAKE MICHIGAN COAST CHART Nº 4

1933

POLYCONIC PROJECTION

DEPTHS IN FEET OVER TINTED AREAS AND IN FATHOMS ELSEWHERE

SCALE 1:120,000.

AUTHORITIES

U. S. LAKE SURVEY

Original surveys: in 1867 and 1871-1874.

Later surveys: West shore of Lake Michigan including Port Washington, Milwaukee, Racine, Kenosha and Waukegan Harbors in 1909-1913.
Deep sea soundings in 1930.

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

NOTES

Depths are referred to Standard Low Water Datum. See table of comparative elevations of water levels hereon.

Latitudes and longitudes are based on the North American Datum.

The magnetic variations on compass roses apply to their respective positions on this chart and are expressed to the nearest quarter degree.

The shore line is shown as located at time of survey.

Figures on contours indicate elevations in feet above Mean Sea Level.

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

Water areas with depths to 6, 12, 18 and 21 feet are tinted in blue. Depths within tinted areas are in feet, those on untinted areas are in fathoms.

ABBREVIATIONS

F. - fixed, Fl. - flashing, Alt. - alternating, Gp. - group, Occ.-occulting, W. - white, R. - red, B. - black, sec. - seconds. R. - rear, RGE. - range, BKW. - breakwater, C. - can, H.S. - horizontal stripes, FOG B. - Fog Bell, FOG W. - Fog Whistle, FOG S. - Fog Siren, C.G.S. - Coast Guard Station, STO. SIG. STA. - Storm Signal Station, RADIOTEL. STA. - Radiotelegraph Station, FOG D. - Fog Diaphone, G. - green, S. - Spar, DIST. FIND. STA. - Distance Finding Station.

SAILING DIRECTIONS

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

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

Sailing lines: _____ Range lines: - - - - - -

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 1860-1932, both inclusive	580.87 ft.
Low water datum for harbor improvement (1916)	579.60 ft.
Plane of reference (Standard Low Water)	578.50 ft.
Lowest recorded monthly mean (Jan. 1926)	577.35 ft.

MAGNETIC VARIATIONS

Locality	Observed Variation	Date of Observation	Computed Variation for July 1935
Waukegan	2° 02′ E.	July 1930	1° 43′ E.
Milwaukee	2° 01′ E.	July 1930	1° 40′ E.
Port Washington	0° 40′ E.	Aug. 1930	0° 18′ E.

BULLETIN AND SUPPLEMENTS

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., for description of coasts, harbors, channels and obstructions, rules and regulations, latest reports of conditions, etc. These publications will be furnished to chart purchasers, upon application, by the U. S. Lake Survey Office.

Mariners are requested to report uncharted obstructions or changes affecting this or other charts to the U.S.LAKE SURVEY OFFICE or to the nearest U.S.ENGINEER OFFICE. (See form attached to Supplements to the Bulletin).

SCALE OF FEET

SCALE OF YARDS

SCALE OF METERS

STATUTE MILES

WAUKEGAN HARBOR
ILLINOIS

1933

SCALE 1:10,000.

SCALE OF FEET

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Issued June 1933 (700)

On sale at U.S. LAKE SURVEY OFFICE, Detroit, Mich.
" " " U.S. ENGINEER OFFICE, Buffalo, N.Y.
" " " U.S. ENGINEER OFFICE, Sault Ste. Marie, Mich.
" " " U.S. ENGINEER OFFICE, 1st. District, New York, N.Y.
" " " U.S. ENGINEER OFFICE, Albany, N.Y.

AIDS TO NAVIGATION CORRECTED FROM INFORMATION RECEIVED TO JUNE 16, 1933

LAKE MICHIGAN COAST CHART Nº 4 Catalogue Nº 74

Division of Maps
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78