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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 from
HEADQUARTERS CORPS OF ENGINEERS, U.S. ARMY.

CHICAGO LAKE FRONT No 1

FROM WINNETKA TO HYDE PARK, ILL.
INCLUDING
CHICAGO HARBOR

Prepared under the direction of
Major CHARLES KELLER, Corps of Engineers, U.S. Army, in 1910, and
Lieut. Colonel C.S. RICHÉ, Corps of Engineers, U.S. Army,
in 1910 and 1911.

SCALE 1: 40,000.

AUTHORITIES.

United States Lake Surveys *made under*
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Compilation and engraving under the supervision of Edward Molitor, *Asst. Engr.*

NOTES.

Latitudes and Longitudes are based on the U.S. Standard datum adopted in 1901.
Soundings, in feet, are reduced to Standard Low Water Datum. See table of comparative elevations of water levels
Water areas with depths to 6, 12, 18 and 21 feet are tinted in blue.
The shore line is the intersection with the land of the water surface at time of survey.
This corresponds closely with the mean lake level for 51 years, 1860-1910, which is 581.28 feet above mean tide at New York.

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

Comparative Elevations of Water Levels on Lake Michigan,
referred to Mean Tide at New York
(adjusted Levels of 1903.)

High Water of 1838,	584.69 ft.
Mean stage 1860-1875 (Old Chart Plane)	581.63 ft.
Mean stage 1860-1910, both inclusive,	581.28 ft.
Lowest recorded monthly mean (Dec. 1895),	578.98 ft.
Plane of reference of this chart (Standard Low Water)	578.50 ft.

6.78 ft. 2.78 ft. 3.00 ft.

SAILING DIRECTIONS.

Bearings of sailing courses are true. Distances in statute miles.
The distances given on sailing lines *are to the points of departure shown on Coast and General Charts.*
Sailing lines ..... Range lines .....

DRY DOCKS

Location.	Name of Dock.	Length		Width		Depth
		On Blocks	Over All	Gate.	Top.	Over Sill.
		ft.	ft.	ft.	ft.	ft.
Chicago	Ship Owners Dry Dock Co.		310	50		14
"	" " " "		300	80		15
"	" " " "		260	40		9

For LAKE and HARBOR DESCRIPTIONS, &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.

ABBREVIATIONS.

F.-fixed, *W.*-white, *R.*-red, *BL.*-black, *Fl.*-flashing, *ev.*-every, *M.*-minute, LT.-Light, RGE.-Range, BKW.-Breakwater, PIERH.-Pierhead, FOG B.-Fog Bell, FOG W.-Fog Whistle, L. SAV. STA.-Life Saving Station, STO. SIG. STA.-Storm Signal Station, (L) R.R. Elevated Rail Road.
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.

OPENING AND CLOSING OF NAVIGATION.

Location	Average dates		Years used for averages	Average number of days closed.
	Opening	Closing		
Chicago & Calumet Rivers	Feb. 27	Jan. 7	25	51
Illinois & Michigan Canal	Apr. 1	Nov. 24	45	128

NOTE: The ice in Lake Michigan adjacent to Chicago, Milwaukee and Grand Haven is generally kept broken by ice boats.

CANALS.

Name of Canal.	Connecting Waters.	Terminal Points.	Length of Canals in Stat. Miles	Locks. Number	Locks. Length.	Locks. Width.	Locks. Depth.	Total Elevation of Lockages.
					ft.	ft.	ft.	ft.
Illinois & Michigan	Chicago Riv. & Illinois Riv.	Chicago - La Salle	95.82	16	110	18	6	
Illinois & Mississippi-Hennepin	Illinois R. & Mississippi R.	Rock Island - Hennepin	75	33	170	35	7	289
Sanitary & Ship Can. of Chicago	Chicago Riv. and I. & M. Canal	Chicago - Joliet	32.35	1	110	22	12	37
North Shore Sanitary Channel	L. Mich. & South Br. Chicago R.	Wilmette - Lawrence Ave.	8.5	1	110	32	11	3

Issued November 9, 1911.

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