SEP 3 - 1924

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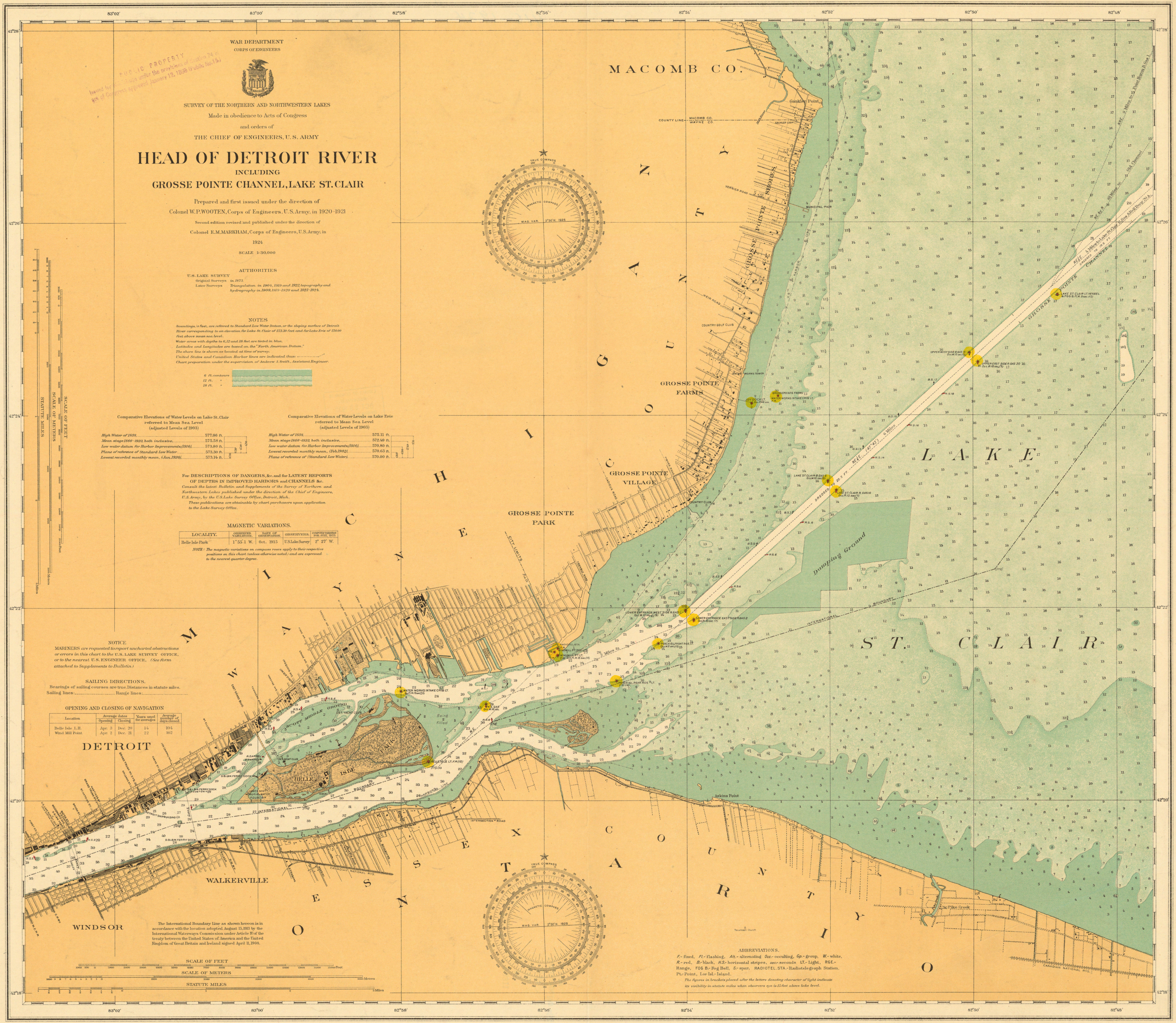

WAR DEPARTMENT
CORPS OF ENGINEERS

PUBLIC PROPERTY
Issued for official use under the provisions of Section 74 of Act of Congress approved January 12, 1895 (Public No. 19.)

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

HEAD OF DETROIT RIVER
INCLUDING
GROSSE POINTE CHANNEL, LAKE ST. CLAIR

Prepared and first issued under the direction of
Colonel W. P. WOOTEN, Corps of Engineers, U. S. Army, in 1920-1921
Second edition revised and published under the direction of
Colonel E. M. MARKHAM, Corps of Engineers, U. S. Army, in
1924

SCALE 1:30,000

AUTHORITIES

U.S. LAKE SURVEY

Original Surveys	*in 1873.*
Later Surveys	*Triangulation in 1904, 1919 and 1923; topography and hydrography in 1909, 1919-1920 and 1923-1924.*

NOTES

Soundings, in feet, are referred to Standard Low Water Datum, or the sloping surface of Detroit River corresponding to an elevation for Lake St. Clair of 573.30 feet and for Lake Erie of 570.00 feet above mean sea level.
Water areas with depths to 6, 12 and 18 feet are tinted in blue.
Latitudes and Longitudes are based on the "North American Datum."
The shore line is shown as located at time of survey.
United States and Canadian Harbor lines are indicated thus:
Chart preparation under the supervision of Andrew J. Swift, *Assistant Engineer.*

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

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

High Water of 1838,	577.86 ft.	
Mean stage 1860-1923, both inclusive,	575.58 ft.	4.56
Low water datum for Harbor Improvements, (1916),	573.80 ft.	2.28
Plane of reference of Standard Low Water	573.30 ft.	0.50
Lowest recorded monthly mean, (Jan. 1920),	573.14 ft.	0.16

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

High Water of 1838,	575.11 ft.	5.11
Mean stage 1860-1923, both inclusive,	572.49 ft.	2.49
Low water datum for Harbor Improvements, (1916),	570.80 ft.	0.80
Lowest recorded monthly mean, (Feb. 1902),	570.63 ft.	0.63
Plane of reference of (Standard Low Water),	570.00 ft.	

For DESCRIPTIONS OF DANGERS, &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.

MAGNETIC VARIATIONS.

LOCALITY.	OBSERVED VARIATION.	DATE OF OBSERVATION.	OBSERVERS.	COMPUTED VARIATION FOR JULY, 1925.
Belle Isle Park	1° 55.1′ W.	Oct. 1915	U.S. Lake 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.

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.)*

SAILING DIRECTIONS.

Bearings of sailing courses are true. Distances in statute miles.
Sailing lines: ………… Range lines: …………

OPENING AND CLOSING OF NAVIGATION

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

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.

ABBREVIATIONS.

F.- fixed, *Fl.*- flashing, *Alt.*- alternating *Occ.*- occulting, *Gp.*- group, *W.*- white, *R.*- red, *B.*- black, *H.S.*- horizontal stripes, *sec.*- seconds LT.- Light, RGE.- Range, FOG B.- Fog Bell, *S.*- spar, RADIOTEL. STA.- Radiotelegraph Station, Pt.- Point, I. or 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.

Issued July 7, 1924 (1750)

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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 JULY 7, 1924

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G3311 .P5 svar .U49