Catalogue Nº 755 Price 40 cents

WAR DEPARTMENT

CORPS OF ENGINEERS

SURVEY OF THE NORTHERN AND NORTHWESTERN LAKES

CALUMET AND INDIANA HARBORS

1933

POLYCONIC PROJECTION

SCALE 1:15,000.

DEPTHS IN FEET

AUTHORITIES

U. S. LAKE SURVEY
1872 Inshore hydrography.
1908 Offshore hydrography.
1932 Aerial survey of lake front and hydrography of Indiana Shoals.

U. S. ENGINEER OFFICE, Chicago.
1930 Indiana Harbor Canal.
1931 Inland topography of Indiana Harbor Canal area and depths in Little Calumet and Grand Calumet Rivers. Harbor improvements to date of issue.

U. S. GEOLOGICAL SURVEY
1927 Inland topography of Calumet area.

NOTES

COMPARATIVE ELEVATIONS OF WATER LEVELS ON LAKE MICHIGAN
(referred to Mean Sea Level; adjusted levels of 1903)

Mean stage 1860-1932, both inclusive..... 580.87 ft.
PLANE OF REFERENCE OF THIS CHART (Low Water Datum)..... 578.50 ft.

Areas with depths to 21 feet except in improved channels are tinted blue.

SAILING DIRECTIONS. Bearings of sailing courses are true and distances given thereon are in statute miles between points of departure shown on coast and general charts.

VISIBILITY OF LIGHTS. The visibility of lights is in statute miles when observer's eye is 15 feet above lake level.

BULLETIN. A copy of the latest bulletin containing rules and regulations and descriptions of coasts, harbors, channels, dry docks, canals, etc., will be furnished chart purchasers upon application to the U. S. Lake Survey Office.

ABBREVIATIONS. F - fixed, Fl - flashing, Occ - occulting, Alt - alternating, Gp - group, Sec - sector, ev - every, sec - seconds, vis - visible, m - miles, W - white, R - red, B - black, G - green, V S - vertical stripes, H S - horizontal stripes, S - spar, N - nun, C - can, FR - front, R - rear, RGE - range, BKW - breakwater, (F S) - fog siren, (F D) - fog diaphone, (F W) - fog whistle, (F H) - fog horn, (F B) - fog bell, (F T) - fog tyfon, (F O) - fog oscillator, C G S - Coast Guard Station, STO SIG STA - Storm Signal Station, R Bn - radiobeacon, DIST FIND STA - Distance Finding Station, Cl - clay, G - gravel, S - sand, M - mud, Blds - bowlders, rky - rocky, P D - position doubtful.

SCALE OF FEET

SCALE OF METERS

STATUTE MILES

Issued November 1933 (1100)

On sale at U. S. Lake Survey Office, Detroit, Mich. and at U. S. Engineer Offices at Buffalo, N. Y., Albany, N. Y., 1st District, New York, N. Y. and Sault Ste. Marie, Mich.
AIDS TO NAVIGATION CORRECTED TO NOVEMBER 24, 1933

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