H.K.AVERILL JR.

No.554 PRICE 40 CENTS

PLATE No 1881

Electrotype Copy No.1 U.S.C.S.

LAKE CHAMPLAIN

SHEET No.2

FROM CUMBERLAND HEAD

TO LIGONIER POINT

Scale $\frac{1}{40000}$

1879

Statute Miles

Nautical Miles

Kilometres

Note. One kilometre or 1000 metres=3280.87 ft.=⅝ of a statute mile nearly. One statute mile=1609.33 metres.

AUTHORITIES

Triangulation by S.C.McCarkle J.A.Sullivan and C.Hosmer Assistants in 1870 and 1871.
Topography by F.W.Dorr C.Hosmer H.G.Ogden and C.T.Iardella Assistants between 1870 and 1874.
Hydrography by C.Janken Assistant F.D.Granger and L.B.Wright Sub-Assistants and J.Hergesheimer Aid between 1870 and 1874.
Astronomical observations by G.W.Dean and A.T.Mosman Assistants in 1870.
Magnetic observations by C.A.Schott Assistant and Dr.Th.C.Hilgard in 1855 and 1873.

Issued January 1879 CARLILE P.PATTERSON Superintendent.
Verified J.E.Hilgard Assistant in charge of Office.

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SOUNDINGS

The Soundings are in feet and reduced to a plane of reference which is seven feet below a benchmark near the top of the breakwater at Plattsburgh and half a foot above the lowest water ever recorded on the Lake.
The characteristic soundings only are given on the chart,they are selected from the numerous soundings taken in the survey,so as to represent the figure of the bottom. Depths of 6 feet and less are shaded.

ABBREVIATIONS OF BOTTOMS

Materials in Capitals	Colors or Shades two small letters	Other qualities three small letters
M. for Mud	*bk. for black*	*hrd.for hard.*
S. = Sand	*rd. = red.*	*sft. = soft*
G. = Gravel	*yl. = yellow*	*fne. = fine*
Pb. = Pebbles	*gy. = grey*	*crse. = coarse*
C. = Clay	*bu. = blue*	*sml. = small*
Grs. = Grass	*lt. = light*	*stk. = sticky*
	br. = brown	*rky. = rocky*
		sdy. = sandy

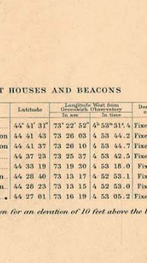
Note.*The principal materials and their qualities are represented by larger letters than the subsidiary.*

LIGHT HOUSES AND BEACONS

Name	Latitude	Longitude West from Greenwich in time	Description of light	Height of light above level of lake	Distance from which visible
Cumberland Head Lt.Ho.	44° 41′ 31″	73° 22′ 52″	4h 53m 31½ s	Fixed white	55 ft.	14
Plattsburgh Breakwater North Beacon	44 41 43	73 26 03	4 53 44.2	Fixed white	32 "	10
Plattsburgh Breakwater South Beacon	44 41 37	73 26 10	4 53 44.7	Fixed white	32 "	10
Bluff Point Lt.Ho.	44 37 23	73 25 37	4 53 42.5	Fixed white	95 "	13
Colchester Reef Lt.Ho.	44 33 19	73 19 30	4 53 18.0	Fixed red	51 "	13
Burlington Breakwater North Beacon	44 28 40	73 13 17	4 52 53.1	Fixed red	21 "	10
Burlington Breakwater South Beacon	44 28 23	73 13 15	4 52 53.0	Fixed red	21 "	10
Juniper Island Lt.Ho.	44 27 01	73 16 19	4 53 05.2	Fixed red	17	

The visibility of Lights is given for an elevation of 10 feet above the level of the lake.

BUOYS

Red Buoy to be left in entering on Starboard hand.
Black " " " Port "
Black and Red horizontal stripes, Danger Buoy
Black and White perpendicular stripes, Channel Buoy.

LAKE CHAMPLAIN
DIAGRAM OF CHARTS