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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Mass*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3412*
3413

LOCALITY: *3414*

*Cape Cod Bay, from
Minto's Ledge to Soga
more Beach*

1902

CHIEF OF PARTY:
P. C. Whitney

3412

Discriptive Report

Hydrographic Sheet, in three parts

Cape Cod Bay, from Minots Ledge to Sagamore Beach

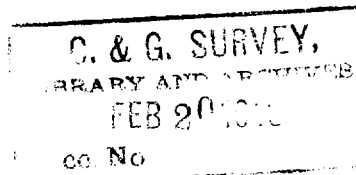
Massachusetts

October 15th to November 5th, 1912

Steamer Hydrographer

Paul C. Whitney

Commanding



The hydrography of the section covered by this sheet, in three parts, consists of filling in with additional soundings and investigation of localities between Minots Ledge and Sagamore Beach, Cape Cod Bay, Massachusetts, as indicated by letter of instructions of September 5, 1912, and as shown on the charts accompanying it.

The signals used were those plotted by the Office on the projections furnished, and in addition, life saving stations and prominent objects taken off the charts, or set in with sextant angles, by the field party, as the case may be.

Attention is called to a very prominent tower at Scituate called "Sic" by this party. It is by far the most conspicuous object around, and its location should be placed on the charts of that region, for use as a land mark. Angles locating this tower are found in volume one, on the back blank page.

Sufficient soundings were taken to determine the depths in the doubtful areas off Brant Rock, Manomet Point and between Center Hill Point and Sagamore Beach, as outlined in

my instructions, paragraph 3, c. The 3 $\frac{1}{2}$ fathom spot, shown one mile off New Inlet was not found. Seven fathoms was found off South River and the other shoal spots in paragraph 3, b were investigated. The five fathom spot two miles off North Scituate Beach was found, with a least water of 29 feet, see Position 80, I day.

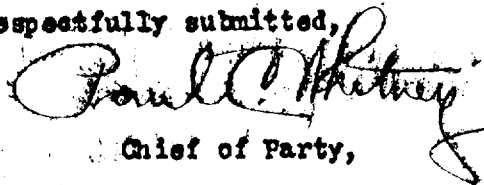
Auth. H-516 on a single line of soundings. 29 feet least depth on this survey. Covered by 20 foot drag H-3775. Should be dragged. A.L.S.

This work was plotted directly on the smooth sheets and after the close of the season were replotted and inked.

The entire work was considered as comprised on one sheet, divided in three parts, and each projection was given a letter to distinguish it by.

Tides were read at Duxbury Pier Light, Plymouth Harbor, to reduce the soundings by.

Respectfully submitted,



Chief of Party,

Commanding HYDROGRAPHER.

3412

CO. NO. 100
FEB 20 1913
C. & G. SURVEY
HYDROGRAPHIC SURVEY

List of Statistics

Hydrographic Sheet

Cape Cod Bay, Between Minot's Ledge and Sandwich

Massachusetts

in three Sections

Date, 1912	Vol.	Letter	Miles Statue	Sound- ings	Posi- tions	Boat
October 15	1	A	5.8	106	38	Ship
" 16	1	B	17.2	158	82	"
" 17	1	C	25.4	267	109	"
" 18	1	d	4.1	176	38	Whaleboat
" 18	1	D	10.00	184	64	Ship
" 19	1	E	17.2	257	95	"
" 22	2	F	17.5	225	103	"
" 23	2	G	22.1	343	127	"
" 25	2	H	24.9	338	128	"
" 29	2	I	11.5	339	117	"
November 1	3	J	6.9	66	27	"
" 4	3	K	21.4	227	120	"
" 5	3	L	18.4	297	127	"
Totals			202.4	2983	1175	

Tidal Data

Gauge at Duxbury Pier Light

Plymouth, Mass

Plane of Reference, reading on tide-gauge, 0.8 feet

Locality: Cape Cod Bay

Sheet. 3412.

Special Locality:- Minots Ledge to Brant Rock, Part "A"

Boat used:- Steamer Hydrographer, Paul C. Whitney, in charge

Date:- October 15th to November 5th, 1912

Scale:- 1/20,000

Locality: Cape Cod Bay

Special Locality: Brant Rock to Manomet Point, Part "B"

Boat used: Steamer Hydrographer, Paul C. Whitney, in charge

Date: October 15th to November 15, 1912.

Scale: 1/20,000

Locality: Cape Cod Bay

Special Locality: Manomet Point to Sagamore Beach, Part "C"

Boat used: Steamer Hydrographer, Paul C. Whitney, in charge

Date: October 15th to November 5, 1912.

Scale: 1/20,000

1913.

HYDROGRAPHIC SHEET 3412.

Cod
12
3/20/12

Cape Cod Bay, Massachusetts, by Asst. Paul C. Whitney
in 1912.

TIDES.

	Lovells Island ft.	Duxbury Pier ft.
Mean low water, or plane of reference on staff	0.0	-0.8
Lowest tide observed " "	-0.7	-2.3
Highest " " " "	10.9	11.0
Mean range of tide	9.1	9.6

United States Hydrographic Survey

MAR 22 1913

TIDAL DIVISION

VEC
Mar. 21, 1913.

HYDROGRAPHIC SHEET 3413.

C. D. W.
C. W.
3/24/13

Cape Cod Bay, Massachusetts, by Asst. Paul C. Whitney,
in 1912.

TIDES.

	Duxbury Pier ft.
Mean low water, or plane of reference on staff	-0.8
Lowest tide observed " "	-2.3
Highest " " " "	11.0
Mean range of tide	9.6

Coast and Geodetic Survey

MAR 22 1913

TIDAL DIVISION

VEG
Mar. 21, 1913

HYDROGRAPHIC SHEET 3414.

Cape Cod Bay, Massachusetts, by Asst. Paul C. Whitney,
in 1913.

TIDES.

	Duxbury Pier ft.
Mean low water, or plane of reference on staff	-0.8
Lowest tide observed " "	-3.8
Highest " " " "	11.0
Mean range of tide	9.8

United States Coast and Geodetic Survey
MAR 22 1913
TIDAL DIVISION

Hyd. Sheets + 3412 + 3413

The positions were plotted in the field and accepted as correct. In numerous instances, however, especially, where errors were thought possible, they were checked.

Sufficient soundings were taken to determine the depth of doubtful areas and to fill in the spots, which were not as yet sufficiently developed. In general, the work was executed fairly good.

J. B. McKean

The two (2) "Mary Ann Rocks" noted in records 13-14 + 22-23 d (Whaleboat) day one as "Rock abeam to Pt.", the other "Rock abeam about 25 meters." should have been definitely located. This also should have been done in case of the

definitely three (3) buoy noted in records 26-27 d (Whaleboat) day and 59-60 E. (Ship) day.

John D. Torrey.

Soundings plotted in feet.

Oct. 1-1913

Verified, J. D. Torrey

Oct. 24/13.

Hyd. Sheet # 3414 #

The sheet, due to bad mounting, unequal expansion & contraction etc. was so distorted, that the positions as plotted in the field could not be verified in the office. On taking the soundings, therefore, some allowance in position was made in order to compensate the slight errors, that appeared in the originally protracted positions.

The sounding records were kept in satisfactory manner, and the work, in general, was executed fairly good.

J. B. Shklain

Soundings plotted in feet.

Oct. 1 - 1913

Verified, J. D. Torrey
Oct. 24/13.