

U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT Type of Survey Systemaplus Field No. Office No. 2696 LOCALITY State March General locality Frenchman's Locality 1904 CHIEF OF PARTY P. C. CHIEF OF PARTY LIBRARY & ARCHIVES DATE	Diag. Cht. No. 1202						
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FILE: DEPARTMENT OF COMMERCE AND LABOR,

O. H. Tittmann,

State: Maine.

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 2696

Frenchman's Bay.

DEC 23 1904

POST-OFFICE ADDRESS: See address at the Office.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

Department of Commerce and Labor

COAST AND GEODETIC SURVEY Str. "BACHE",

Navy Yard, Boston, Mass.,

November 29,1904.

Mr. O. H. Tittmann,

CKNOWLEDGED

Superintendent, Coast and Geodetic Survey, DEC 27 1904
Washington, D.C.
C.&G. Survey Archives

Sir:

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- 1. In obedience to Instructions and Memoranda for Descriptive Reports, 1887, I have the honor to submit the following report on Hydrographic Sheet, No. 2696:
- 2. The lines shown upon the sheet cover the area of that part of Frenchman's Bay, Maine, over which was swept a wire drag, 1000 feet long, sunk to the average depth of 52 feet. For a full description of the drag and the method in which it was used, reference can be made to that portion of my annual report, covering the period from July 1st. to November 15th., 1904, which has already been transmitted to the office. The endeavor was to sweep all of that portion of the Bay outside of the eight fathom curve. The wire was sunk by weights to the proper depth, and was supported by eleven buoys, approximately 100 feet from one buoy to the next. When the apparatus was in use, it was towed by three launches, one at each end buoy and one attached to the middle buoy. The lines on the sheet represent the courses taken by the two end launches, it being always possible in this manner to locate any

area not covered by the sweep. As it had been demonstrated that the shortening of the depth dragged, due to the resistance of the water while towing, was not over 4 feet, it is certain that it was constantly at a depth of 48 feet, and as the rise and fall of the tide does not exceed 12 feet, it is safe to assume that the drag, while in use, was always at least 36 feet below the surface. When an obstruction was struck with the drag, the spot was marked by a buoy and afterwards carefully developed by the use of sounding lead and line and supplemental drag.

- 3. Frenchman's Bay with its tributaries is upon an average about ten miles long and five wide, and is situated between Mt.

 Desert Island and Schoodic Peninsula. The shores are generally bold and rocky with high hills and mountains rising in nearly all directions. The water of the bay is very deep with few obstructed ions below the surface, navigation is safe for the deepest draft vessels, there are no shifting bars, and generally speaking it is only necessary to keep a reasonable distance from the shores and reefs plainly indicated on the chart. The bay is divided into two nearly equal sections, north and south, by a chain of islands extending from Bar Harbor almost directly east to Stave Island Harbor. North of these islands, navigation is sometimes closed by great obstructions of ice.
- 4. The entire region around the shores of the bay is a popular summer resort, with many small towns and settlements scattered about, but with no commercial or agriculteral importance. Bar Harbor in the town of Eden, the chief centre and most popular resort, is a place of about four thousand permanent inhabitants,

it is situated on the Western side of the bay, on the island of Mt. Desert. Several mountain peaks rise abrutly above the town, the highest of which being Green Mountain, rising to an altitude of 1532 feet. The harbor is located in a cove of the island and is fairly well sheltered to the north and east by a group of islands. From the south it is partially protected by an island and a breakwater. Generally speaking the water in the harbor is very deep, the bottom is rocky and poor holding ground, excepting a small portion near the upper end, with the wind from south to southeast there is always a swell and the harbor could not be considered a safe place for riding out a gale from either of these quafters. The anchorage limit is defined by buoys, as a clear place must be left for vessels coming to and leaving the wharves. At low tide there is from 10 to 13 feet of water alongside of the steamboat wharves.

5. Vessels of low draft can obtain coal and water at the wharves, but for over eight feet draft, coal should be obtained from lighters, and water from the boat in the harbor which is prepared to supply vessels upon short notice. During the working season of 1904, the price of coal delivered on board of the steamers "Bache" and "Blake", was \$5.75 for a ton of 2000 lbs., and the price of water delivered on board was from 35 to 50 cents per one hundred gallons. There are no machine shops or facilities for repairs to vessels anywhere about the entire bay, the nearest and best place for machine work being Bangor. Provisions can be obtained in abundance at Bar Harbor, but the prices are rather high. The nearest railroad connection is at Mt. Desert Ferry, in SulLiv-

ans Harbor, about eight miles to the northward of Bar Harbor, which is connected by a regular steamboat line; communication by steamboat, rail, mail and telegraph are good over the entire locality about the bay.

- 6. Mt. Desert Ferry is a terminus of the Maine Central Railroad; further than the facilities to be obtained from the railroad, there is nothing of importance at this station. It is situated on Sullivans Harbor in the vicinity of which there is at all times a good safe anchorage. Flanders Bay and a portion of Eastern Bay are also good safe anchorages, but here the facilities for supplies and general communication are not so good.
- 7. Stave Island Harbor on the Eastern side of Frenchman's Bay, is by far the safest place in that region for a vessel to ride out a gale, and when the ice does not prevent an entrance, it should be selected by vessels seeking a safe shelter from . storms. There is good holding ground in from 4 to 6 fathoms.
- 8. During a severe winter, when the ice makes it very difficult to enter the upper part of the bay, Winter Harbor should
 be selected in seeking shelter. It is exposed from the southward,
 but there is good holding ground, and a very heavy swell seldom
 enters the upper part of the harbor.
- 9. During the months of August and September while engaged in this region, the weather was generally fair and very favorable for work, there were few storms and these could not be considered unusually severe. During the month of October, there were many fresh to heavy wind strong enough to prevent field work, but oth-

erwise not dangerous. The October winds were usually from north-west around to northeast.

- 10. A vessel in going ashore upon the outer coast would not hold together long, and upon such an occurence it would be advisable to abandon it as soon as possible.
 - 11. The nearest Marine Hospital is at Portland, Maine,
- 12. The following is a summary of the work accomplished as represented upon the sheet:

Area dr	age	ged in square statute miles	43.5
Number	of	statute miles dragged	331,5
Number	of	angles measured	3 490.
Number	of	soundings	433.
Number	of	tidal stations established	2.
Number	of	signal poles erected	17.
Number	of	stations occupied for determining points	17.
Number	of	geographical positions determined with	
		plane table	39 .

Very respectfully,

P.a. Welker -

Assistant, C.& G. Survey, Commanding.

Report
on
Hydrographic Sheet
No. 2696.
Frenchmans Bay,
Drag Sheet,
Me.
Assistants Welker and Faris,
1904,

The protracting and plotting were well done and the records well kept.

The blue tinted surface shows ground not covered by drag. The drag was set to measure a depth of 36 ft. at mean low water.

H.L.Simons. (Signed).





GEODEW J DUPLEY

DEC 23 10 10 AM* 190

FILE: REFERRED:

Creasury Department,
U. S. COAST AND GEODETIC SURVEY.

DESCRIPTIVE REPORT.

Plane Balle Principalatics Sheet

Beauchard Sheet No. 2696

LOCALITY:

Trenchmans Bay

CHIEF OF PARTY.

Q. S. Welker, Assistant

U.S.C. & G. SURVEY, LIBRARY AND ARCHIVES,

DEC 23 1904

Acc. No.

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POST-OFFICE ADDRESS: See address at office.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

Department of Commerce and Tabor

COAST AND GEODETIC SURVEY Str. "Bache".

Boston, Mass.,

Nov. 26th, 1904.

Mr. O. H. Tittmann,

ACKNOWLEDGED

Superintendent, Coast and Geodetic Survey,

DEC 27 1904

Washington, D. C.

C. & G. SURVEY ARCHIVES

Sir: -

In obedience to Instructions and Memoranda for Descriptive

Reports, 1887, I have the honor to submit the following report on

Plane Table Triangulation to accompany Hydrographic Shell

Topographic Sheet, No. 2 b 9 b:

2. The work consists of a plane table triangulation for the location of points for hydrographic purposes in Frenchman's Bay, Maine. The shore line shown upon the sheet was roughly sketched at the office. No further description is considered necessary.

Very respectfully,

P. a. Welker.

Assistant, C.& G.Survey,

Commanding.

U. S. C. & G. SURV LIBRARY ADD ARCHOVEN NOV 23 1904 Acc. No.

DEPARTMENT OF COMMERCE AND LABOR

Coast and Geodetic Survey

O. H. Tittmann, Supt.

PLANE TABLE SHEET

Showing Plane Table Triangulation

in

Connection with Hydrography

of

Frenchman's Bay

Maine

BY

Assistant P. A. Welker, Chief of Party
C.& G.Survey Steamer "Bache"

August, 1904

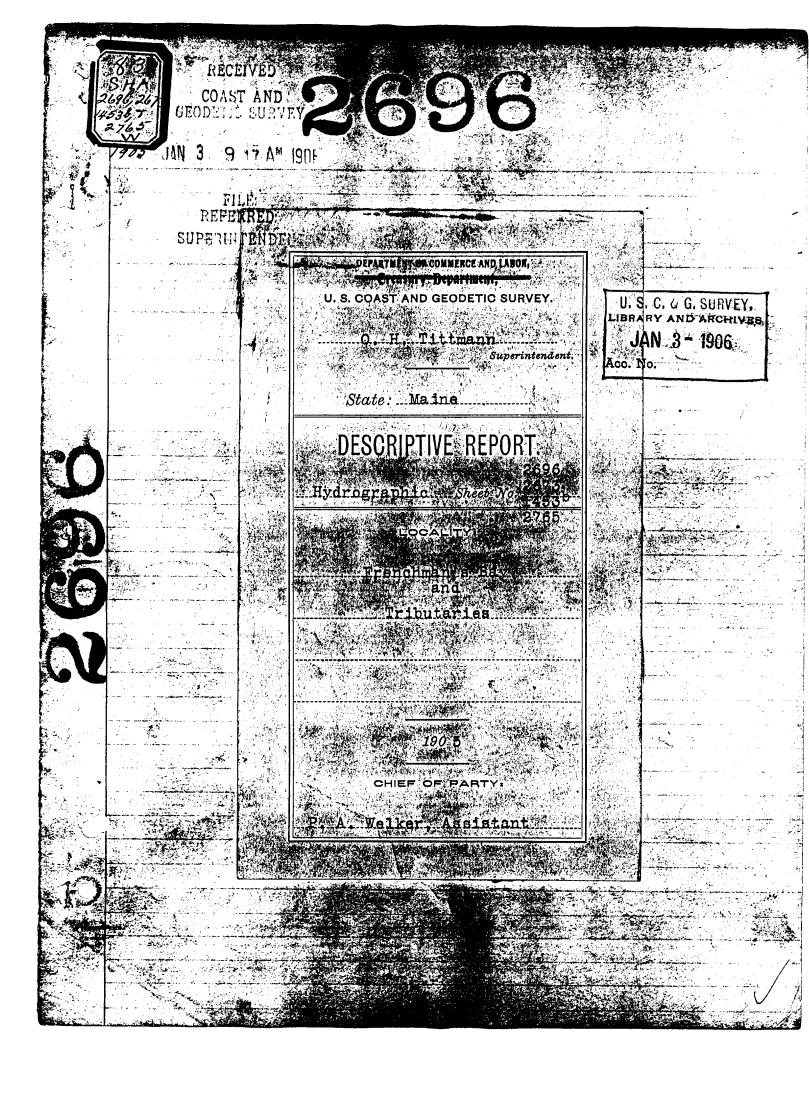
Scale: 1/20,000

WOTE = Shore line roughly sketched in by office.

PLANE TABLE POSITIONS.

	SIGNALS -		Ş	Town	\$ 5 5 7 T
NAMES	DESCRIPTION	LAT.	D.M.	LONG.	D.P.
DA TIEM	Gum of House Gueltuse Doint	440 271	1745	68° 13'	672
POINT	Cup.of House, Crabtree Point	440 271	1552	68° 13'	1135
MASON CUP	Hyd. Signal, Crabtree Point Fl'g pole on Cupola, Sorento	440 281	634	68° 11'	682
SPIRE	Church Spire at Sorento	440 281	795		432
STACK	Iron Smoke Stack at Sorento	440 281	740		253
	Hyd. Sig. on Little Calf Id.	440 271	5 503	680 091	204
PEN	Chimney on Ho., Meadow Point	440 271	749	680 161	829
STAF	Flagstaff at Naval Coaling Sta.	440 271	8 81	680 171	\$ 1132
SAL	Church Spire, Salsbury	440 251	1600	680 171	412
POT	Pavillion, Pot & Kettle Club Ho		228	680 151	349
SMOKE	Iron Smoke Stack	440 251	1593		197
VENT	Ventilator on White Building	440 251	1266	•	\$ 1308
BLAKE	Hyd. Signal on Stave Island	44° 25'	1026		638
BALD	Hyd. Sig. on Bald Rock Ledge	44° 25'	415		920
OBS	Observing Tower	440 241	\$ 342		§ 1157
RED	Peak of Red Roof	440 24'	§ 1160		\$ 886
	Prominent Dormer Window	440 241	§ 1126	T	§ 230
EAST	East Gable of Small House	440 24	\$ 392	•	§ 1034
SOUTH	South Gable of Large House	440 241	\$ 361		§ 1022
BACHE	Hyd. Signal on The Hop	440 24'	1433		486
LONG	B.& W.Flag in tree, Long Por?I	440 24	332		34
BURNT	B.& W.Fl'g in tree, Burnt Por. Id	440 24	563		§ 953
SHEEP	B.& W.Fl'g in tree, Sheep Por.Id		\$ 1829		802
BAR H IGH	On Bar Island Cupola of House	440 231	1684		\$ 411
PINE	Hyd.Sig.on Bald Porcupine Id.	44° 23'	820		5 518
IRON	Hyd.Sig.on Iron Bound Island	44° 23'	\$ 385 \$ 1117	68° 10' 68° 08'	1166
TREE	Prominent Tree	44° 23'	291		§ 1116 § 169
PIPE	Standpipe on Grindstone Neck	440 221	1680		982
CROW	Hyd. Signal on Crow Island	440 221	1580		483
BOUND	Hyd.Sig. on Iron Bound Island	440 221	1220		584
TAR	Hyd. Signal	440 21'	1620	68° 04'	\$ 30 3 \$ 307
	Hyd. Sig. on Turtle Island	440 21	280		1039
POLE	Pole in Tree		1533		218
THRUM	Hyd. Sig. on Thrumpeap	440 21	1503	68° 10'	843
TOWER	Tower of House	440 21'	1677		240
MID	Middle Chimney	44 21'	1291		29
FLAG	Flagstaff, residence, Mrs. Franci	440 201	1500		995
STAKE	Hyd. Signal, Iron Bound Id.	44° 23'	1661	680 071	831
			\$		\$

Mumber of signals of which the locations were determined - 39



POST-OFFICE ADDRESS: Foot of Covington Street, Baltimore, Md.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

U. S. COAST AND GEODETIC SURVEY. Str. "Bache",

Baltimore, Maryland,

Dec. 14th, 1905.

Mr. O. H. Tittmann,

Superintendent, Coast and Geodetic Survey,

Washington, D. C.

Sir:-

In obedience to Instructions and Memoranda for Descriptive Reports, 1887, I have the honor to submit the following report on Hydrographic Sheets Nos.2696, 2673, 1453b and 2765:

The work consists of special examinations in the vicinity of Frenchman's Bay and Tributaries, Maine. A complete report of this region was made in the Descriptive Report on Hydrographic Sheet No.2696, dated November 29th, 1904, and no further descriptive report is considered necessary.

Very respectfully,

P.a. Walker -

Assistant, C.& G.Survey,

Commanding.

suctionent of Commerce and Labor Myd Shed #2765 with 2696 this a eatisfactory warmer Allinon

2696^{bis}

U. S. C. & G. SURVEY, LIBRARY AND ARCHIVES NOV 7 - 1905

DEPARTMENT OF COMMERCE AND LABORACC. No.

Coast and Geodetic Survey
O. H. Tittmann, Supt.

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FRENCHMAN'S BAY

MAINE Examin Ain of Dhanlo

----000----

P. A. Welker, Assistant, Chief of Party
STEAMER "BACHE"

----000----

BEGUN Sept; 19
ENDED Oct. 9
1905

----000----

SCALE; 1:20,000

----000----

Positions protracted by Wm. Sanger, C. C. Soundings plotted " " " "

STATISTICS

Date		Let	. Vol.	Angles	Soundings	Miles	Boat
S	ept.1	A	ı	74	53	5.1	Str. Bache
	" 2	o B	1	52	0	3.4	' 17 W
1	" 2	e c	1	88	28	9.1	n n
Tota	al	-	1	214	81	17.6	
S	ept.2	5 a	1	164	320	5.7	Launch #31
	" 2'	7 6	1	130	289	4.8	11
	W 28	3 C	1&2	206	706	10.4) W
Tota	al	-	2	510	1315	20.9	
S	ept.2	\mathbf{a}	1	240	300	10.4	Coal Burning Launch
	" 2	5 8	1	146	280	5.1	# Hawiten
	" 2"	C	1	90	1 50	4.2	19
Tota	al	•	1	476	730	19.7	
Grand	Total		4	1200	2126	58.2	l Sq. Mile

Verified and mked by AL Simons

Department of Commerce and Cahor

Just of their work the grand is sold covered. The colored sounding lines show where drag was used.

1. The examination believes Let 44026's 440.27 and Long. 680-174 680-18' the 24ft spot shows and flyd Sheet "1240" was not dragged. The lead line shows not thing less than 44 ft.

It position of the 16 ft sounding, in the same vicinity, was "14 their day is doubtful the sounding having been taken while book was driften, the records indicate however that I was taken say wearif what the position flatted.

The records were well kept.

306 Rocouste. Gpgs. Home 306 = 205 + 204 effective 4/5/62