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Diag. Cht. No. 1210-1

2320 2321

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*
Field No. *2320* Office No. *2321*

LOCALITY

State *Massachusetts*
General locality *Buzzards*
Locality *Bay*

~~1897~~
~~194~~

CHIEF OF PARTY

C. J. Fore U.S.N.

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DATE

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U. S. COAST AND GEODETIC SURVEY.

Gen. *W. W. Duffield* , Superintendent.

State: *Mass.*

DESCRIPTIVE REPORT.

*Hydrographic Sheets Nos. 2320,
2321.*

LOCALITY:

Buzzards Bay.

1897.

CHIEF OF PARTY:

Lt. Comdr. C. T. Force, U.S.N.

2321

Day. Lht. No. 1210-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

W. W. Duffield
Superintendent.

State: *Mass*

DESCRIPTIVE REPORT.

Nyd C Sheet No. *2321*

LOCALITY:

See

2320

~~1897~~
~~190~~

CHIEF OF PARTY:

C. T. Forse

2321

Write me at: 334 Hughes St., Baltimore, Md.

Telegraph me at:

My Express Office is:

U. S. COAST AND GEODETIC SURVEY,

St. "Endeavor"Baltimore, Md., Jan'y 31st 1898

2-547

Mr. Henry S. Pritchett,

Superintendent of the Coast and Geodetic Survey,
Washington, D. C.

Sir:

I have the honor to submit the following descriptive report of hydrographic executed by the party under my command during the season ending October 22nd, 1897, in compliance with the Superintendent's instructions of June 5th '97 and the Hydrographic Inspector's detailed instructions June 21st, 1897.

The work assigned this vessel consisted of two projections, No. 11, scale 10'000, extending from Dumpling Rock Light-house to Gooseberry Neck, Buzzards Bay, Mass., and No. A extending from Cormorant Rock to Gooseberry Neck, Mass. On projection No. 11 the only hydrography remaining to be done by this vessel was the area included between Mishawm Point and Black Rock, on projection A.

the central portion of the bay, connecting with the work done by Str. Bache and Sch. Cagre.

Scheme of Lines.

On both projections No. 11 & No. A a rectangular system of lines was adopted and run; on sheet No. 11 the distance between the lines being 100 metres, and on projection A, 300 metres.

Special developments were made of all shoals also thorough search for least water over all shoals and rocks.

Tide Stations.

For all work the tide station at Clarke Point Mass., established by Lieut. Hanns in 1895, was used as a tidal base. For projection No. 11 a gauge was established inside of Barney Joy Point which gauge was connected by simultaneous observations with the gauge at Clarke Point. For projection A, the tables, of differences of range and time, compiled by Lieut Peck in December 1896 and

furnished this party by the C. S. office, together with the U. S. C. S. Tide Tables were used.

Pamanset River.

This river, which empties into Buzzards Bay between Misham Point and Barney's Joy Point, is at present of but little importance from a shipping point of view, as the entrance to the river proper is almost closed by a sand bar, dry at low water, extending entirely across its mouth, with only a narrow shifting channel with depth varying from 2 to 4 ft. at m. L. St.

Small fishing boats use the river as an anchorage. The depth of the river inside of the bar varies from 5 to 11 ft m. L. St. in the channel.

The entrance to the river between Misham and Barney's Joy Points, was, during the fishing season obstructed by fish weirs, but in future these will not exist, a law having been passed prohibiting this method of trap fishing in

this locality. The removal of these weirs will make dangerous the existing submerged rock to the westward of Misham Point, which rock lies just on the East edge of the channel, it was not dangerous at the time of our survey because of a weir being located just to the westward of it. I would recommend that a small spar buoy be placed over this rock.

A good anchorage for all but S.W. and S.E. winds is to be had in about 5 to 6 fms. of water between Misham and Barney's Joy Points, the approaches are however somewhat dangerous to heavy draught vessels having no local pilot on board.

Misham Ledge.

Misham Ledge was thoroughly developed. Much time and trouble was saved by having a local fisherman point out the spot charted 8 ft. a sounding of 7.8 ft. M.L.H. was obtained

over this spot. This rock seems to be a large detached boulder and lies in about 23 ft of water. I would recommend that a spar buoy be placed over this rock.

A shoal near the charted $3\frac{1}{4}$ fms. spot, and situated about $\frac{3}{4}$ mile south by west of Mishamm Point, was found and a least depth of 15.8 ft. m.l.t. obtained. This shoal seems to be made up of many loose boulders. It lies in the track of the numerous vessels, which in tacking up the bay, stand very close in to Mishamm Point.

A schooner was wrecked on this shoal a few years ago.

Special Development Projection No. A.

The numerous shoal spots found on Projection A were developed with a 50 metre rectangular system and searches made for least water whenever there were indications of rocky ledges.

The $3\frac{3}{4}$ fms and $3\frac{1}{4}$ fm. spots to the N^d. and to the N^d & N^d of Penikese Island were examined and a least depth of 19.5 ft. m. l. st. was found on the former and 23.6 ft. m. l. st. on the latter. after careful and exhaustive searches.

Tidal Currents

In the upper part of the bay the general set of the tidal current is diagonally across the bay at an angle of about 45° . In the lower part, from Skat Island to Cuttyhunk the general set is with the general direction of the bay except near the entrances of the various feeders where the set through them is very distinctly felt.

General information.

The prevailing winds during our stay in Buzzards Bay were S. W. ^{W.}. The heaviest gales from N. E.

A Marine Hospital Surgeon is stationed

at New Bedford but the nearest Marine Hospital is at Vineyard Haven Mass.

At New Bedford, the nearest city of importance. Water may be had in any desired quantity either at the wharf or from water boats. Supplies and ship-chandler stores are to be had in any quantity. Coal both anthracite and bituminous is to be had at the wharves, quantity not limited. Repairs to Boilers and Machinery may be made. Cautionary signals are displayed. The nearest Custom house also marine railway are at New Bedford.

During the entire season the party under my command consisted of Ensigns C. A. Brand & P. Williams U. S. N., and Chief Jos. C. L. Green, U. S. N.

Very respectfully

W. C. Forbe Lt. Comdr. U. S. N.
Comdg.

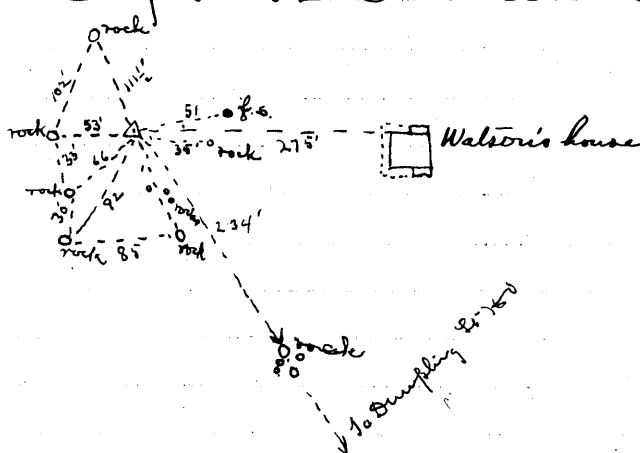
Description of signals erected by Stur
Evanson, Ft. Condon, C. Store July 1897.

Buzzards Bay
Sheet No 11

① "Point"

is a Wishaw Point.

Found the cone intact and erected
signal over it (Point) measurements
agreeing fairly well with sketch.
The Δ is 51 ft S.E. from a large flag pole
and 275 ft from the S.W. corner of large
house on point. Our measurements as below



① "Barney"

Erected tripod over small signal found
here, on highest part of Barney's Jay Point
and about $\frac{3}{8}$ mile NNW from extreme end of Point.

① Goose

Built up tripod already standing over
a gooseberry bush - found cone intact. It is
on highest part of Gooseberry bush.

① Pair.

This was pole signal with flag set up over hole
on top of a near S. edge of a high ledge of rock. This
hole was stoned with white paint, and white crosses
were found marked on loose boulders about this point, forming
three sets of ranges converging at the hole. Piled stones about it.

⑤ Pole, Mis, do, Meck, Joy, Skunk, Wet, Black
and New were poled with cages, erected
along the beach near H. W. W.
⑥ Chim is western chimney of house at
the inland end of Michman Pt.

△ Almy was recovered as described.

△ Paranet R. was not recovered.

Description of signals erected by Lt.
Cresson, Lieut Comdr C. F. Jones, Sept 1897

Pungood Bay
Sheet "B"

- Point is tripod signal erected over
△ Mishawun Pt. described with Sheet No. 11.
 - Goose is tripod built up over a Goose
bin, beck, described with Sheet No. 11.
 - West is tripod built up over a West
and, already on sheet (used by Lieut Peck.)
 - Barney is tripod erected on Barney's
Joy point.
 - Quack is same as Chim W. as used by Lieut
Peck in 1896 - on Nashamena Id.
 - Hole is large tripod erected over small
signal - "Point" used by Lieut Peck - near Quack hole.
- All other signals on this sheet used as
found except for slight repairs,

