

2193

Diag. Cht. No. 1209-2 & 1269

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*
Field No. Office No. *2193*

LOCALITY

State *Mass.*
General locality *Eastern Part*
Locality *of Nantucket*
Sound 1894

~~191~~

CHIEF OF PARTY

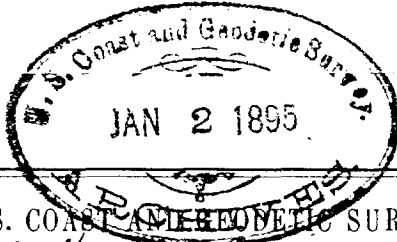
St. G. W. Mearns

LIBRARY & ARCHIVES

DATE

2193

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2193
1894



U. S. COAST AND GEODETIC SURVEY.
J. C. Mendenhall &
Gen. W. W. Duffield, Superintendents.

State: *Mass.*

DESCRIPTIVE REPORT.

Hyd. Sheet Sheet No. *2193.*

LOCALITY:

Eastern part of
Nantucket Sound.

1894.

CHIEF OF PARTY:

Lieut. G. W. Mentz, U. S. N.

2193

DEC 29 1894. 016799

Write me at: *Navy Yard, New York.*

Telegraph me at: *do do*

My Express Office is:

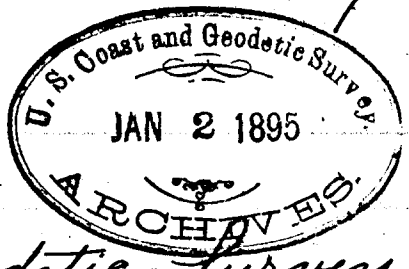
Hydrographic Inspector U. S. Coast and Geodetic Survey, *str. Blake,*
Assistant in Charge
for file in Archives

Navy Yard, New York,

December, 27, 1894

2-547

Gen. W. W. Duffield,
Superintendent.



Coast and Geodetic Survey.

Sir:

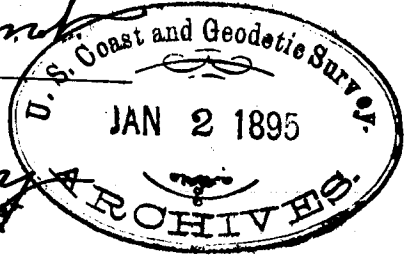
I have the honor to submit the following "Descriptive Report" to accompany projection "Eastern Part Nantucket Sound", Reg. No. 2193.

Respectfully yours

G. W. Meade
Lieut. U. S. N.

Descriptive Report.

U. S. Coast & Geodetic Survey
Gen. W. H. Duffield
Superintendent



Hydrography
of
Nantucket Sound
Massachusetts
Eastern Part

From Long. $70^{\circ} 00'$ to Long. $70^{\circ} 19'$

And from

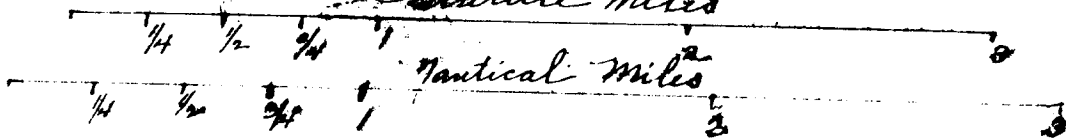
Lat. $41^{\circ} 23'$ to Lat. $41^{\circ} 32'$

By the Party in charge of
Lieutenant G. W. Menty U. S. A. Asst.
Steamer
G. S. Blake

Began September 26th 1894.
Ended December 1st 1894.

Scale $\frac{1}{40,000}$

Statute miles



Str. Blakee

Statistics of Field Work executed by

Lieut. G. W. Mentz U.S.N. Asst.

Date and place of beginning field work

Sept. 26th 1894 at Hyannis Mass.

Date and place of closing field work

Dec. 1st 1894 " " "

RECONNAISSANCE:

Area of, in square statute miles

Lines of intervisibility determined as per sketch submitted

Number of points selected for scheme

BASE LINES:

Primary, length of

Secondary, length of

Beach measurements, length of

Number of days employed in measurements of base

Number of days employed in remeasurements

TRIANGULATION:

Area of, in square statute miles

Signal poles erected, number of

Observing tripods and scaffolds built, number of

Observing tripods and scaffolds built, heights of

Days occupied in opening and verifying lines of sight, number of

Stations occupied for horizontal measures, number of

Stations occupied for vertical measures, number of

Geographical positions determined, number of

Elevations determined trigonometrically, number of

GEODETIC LEVELING:

Elevations determined by spirit-leveling of precision, number of

Lines of geodetic leveling, length of

LATITUDE, LONGITUDE, AND AZIMUTH WORK:

Latitude stations occupied, number of

Pairs of stars observed for latitude, number of

Average number of observations on a pair

Longitude stations, telegraphic, number of

Longitude stations, telegraphic, number of nights on which signals were exchanged

Longitude stations, chronometric, etc., number of

Azimuth stations, number of

Number of nights of observations for azimuth

Number of stars observed for azimuth

GRAVITY DETERMINATIONS:

Number of pendulum stations occupied

MAGNETIC WORK:

Stations occupied for observations of the magnetic declination, number of

Stations occupied for observations of the magnetic dip, number of

Stations occupied for observations of the magnetic intensity, number of

TOPOGRAPHY:

Area surveyed in square statute miles

Length of general coast-line in statute miles

Length of shore-line of rivers in statute miles

Length of shore-line of creeks in statute miles

Length of shore-line of ponds in statute miles

Length of roads in statute miles

Topographic sheets finished, number of

Topographic sheets, scales of

Topographic sheets, limits and localities of:

HYDROGRAPHY:

Area sounded in square geographical miles

Number of miles (geographical) run while sounding

Number of angles measured

Number of soundings

Number of tidal stations established

Number of specimens of bottom preserved

Current stations, number of

Hydrographic sheets finished, number of

Hydrographic sheets, scales of

Hydrographic sheets, limits and localities of:

	58
	623.5
	3063
	25795
	2
	—
	—
	not finished
	740,000

Nantucket Sound, Mass.
 Eastern Part
 From Lat. 41.23 to Lat. 41.32
 and from
 Long. 70.03 to Long. 70.19

This was a resurvey of the eastern part of Nantucket Sound between Hyannis and Great Point and its locality includes part of the main channel way through the Sound. The only difficulty encountered in the execution of the work was to find suitable weather. Parts of the locality are a long distance from the signals and it was never clear enough to reflect them readily except when strong winds were blowing and the water somewhat rough for sounding and always too rough for pulling boat work. The shoals with too little water for the ship to go over were not surveyed. The sheet was not finished and no specimens of the bottom were obtained.

Tidal currents and their set were found as represented on the "Tide and Current Chart Nantucket and Vineyard Sounds" devised by Lt. Dillman U.S.N. and this chart was of much value in running the lines.

Respectfully submitted

G. W. Meentz

Lieut. U. S. N. Chief of Party

This applies to red ink and pencil marks on the
Standard of Ch. No. 111, which should be considered
in the verification of next print of this chart.

Ep. 5.23.01

Capt Bradford:

While verifying in part sheet 2193,
Nantucket Sound, I have examined and
compared the different sheets joining in
the vicinity of Cross Rip. From the S.E.
end of the Horseshoe towards the Eastern extreme-
ty (the 5 fath curve) of Cross Rip lie a chain
of shoal spots, that evidently needs closer
investigation.

In comparing the old and new surveys
(1855/6 and 1894) I can see no radical
differences. Such as do appear are due
to the closer work of the re-survey.

N. C. W.
5-23-01

The $3\frac{1}{4}$ fath spot in about Lat $41^{\circ} 30'$
& Long $70^{\circ} 08'$ has never been determined.
It was placed on the chart from a
report received at the office.