

2552

83
SHA
2552
1901

Diag. Chart No. 1217-1

U. S. COAST AND GEODETIC SURVEY.

C. H. Tittmann, Superintendent.

State: *New Jersey*

U. S. C. & G. SURVEY,
LIBRARY AND ARCHIVES
FEB 20 1902
Acc. No. 2552
Class

DESCRIPTIVE REPORT.

Hydrographic Sheet No. *2552*

LOCALITY:

Great Egg Inlet

1901.

CHIEF OF PARTY:

William Bowe, Asst

2552

Write me at:

Telegraph me at:

My Express Office is:

U. S. COAST AND GEODETIC SURVEY,

Office

February 19th 1902

U. S. C. & G. SURVEY, LIBRARY AND ARCHIVES
FEB 20 1902
Acc. No.
Class

Description Report

of
Original Hydrographic Sheet
No. 2552.

Great Egg Inlet
New Jersey

By party comdr
William Bowie

Asst. Comdr

December

1901

Scale 1:10,000.

The work shown on this sheet is a resurvey of a portion of Great Egg Inlet and that part of Great Egg Bay between Ocean City and Longport.

This resurvey was necessary owing to the changes in the shore line, bars, and channels where the investigation was made. To prevent the moving away of the point to the north of the Inlet, and in order to secure a channel across a large sand flat just west of Longport, a jetty was constructed under the direction of Prof. R. M. Haupt of Philadelphia. The sheet shows the beginning of a channel across this shoal as a result of the jetty's influence.

Nearly every sounding showed a hard sandy bottom. The channels and bars shift considerably and especially during the heavy easterly storms along the New Jersey

Coast.

Tide gauges were established at Ocean City and Longport, and tides were observed at the former place during night and day for sixteen days in order to obtain a good plane of reference. The tides at Longport were day tides only for seven days. These ^{gauges} were referred to permanent bench marks.

The signals used were mostly natural objects, which were determined from triangulation points by the plane table on original topographic sheet no. 2562, and transferred to the hydrographic sheet.

Some of the soundings were made with a yawl boat, while most of them were made from the yawl towed by a gasoline launch.

Great difficulty was encountered in trying to run lines of soundings normal to the

channels, except at slack water, owing to the very strong tidal currents.

Several attempts were made to sound on the bar outside, but the heavy swells prevented.

Owing to strong winds and cold weather the work progressed very slowly and with difficulty.

It is very expensive and rather impracticable to carry on hydrographic work in this locality after November first.

The statistics are attached.
William Bowie
Asst Comdr.