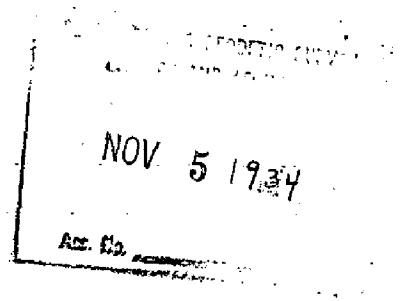


6113



Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. D 6113
State <u>Massachusetts</u>	
LOCALITY	
Cape Cod	
East Dennis to Brewster	
1934	
CHIEF OF PARTY	
E. A. Deily	

6113

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U.S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

NOV 5 1934

REG. NO.

Acc. No.

The Topographic Sheet should be accompanied by this form,
filled in as completely as possible, when the sheet is for-
warded to the Office.

Field No. T - D

REGISTER NO. 6813

State Massachusetts
General locality Cape Cod
Locality East Dennis to Brewster
Scale 1: 20,000 Date of survey June, July, 1934
Vessel Project H.T. 145
Chief of party Earle A. Deily, Lieutenant, U.S.C. & G. Survey
Surveyed by Edwin A. Fowler, Observer
Inked by Earle A. Deily
Heights in feet above none to ground to tops of trees
Contour, Approximate contour, Form line interval none feet
Instructions dated Apr. 29, 1933, May 2, 1934, 19
Remarks:

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

OCT 28 1934

Am 59

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET D
Cape Cod, Massachusetts.
Project H.T. 145
1934

Earle A. Deily
Lieutenant, U.S.C. & G. Survey.
Chief of Party.

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET D

Cape Cod, Massachusetts.

Project H.T. 145

1934

a- Authority:

The authority for the topographic work embraced by this sheet is included in the "Orders and Instructions" to the Inspector, U.S. Coast and Geodetic Survey, Boston, Massachusetts, and orders to Lieutenant Earle A. Deily, Dated May 2, 1934.

b- General Description of the Coast:

In general the shore line has the appearance of a low bluff.

The shoreline from Longitude 70 05 to 70 07 is backed by a low bluff which has a timbered appearance as the back country is wooded. The point midway between Longitude 70 05 and 70 06 is fringed with rocks which are covered at high water. There is a small rock breakwater, just bare at high water, about 220 meters northeastward from this point.

A wide marsh lies at the mouth of Quivett Creek and extends southwestward to East Dennis.

A low bluff is evident at the extreme point of land between Quivett and Sesuit Creeks. The entire stretch of shore is high and fringed with rocks which are visible at low water.

Sesuit Creek and its surrounding marsh extends southwestward for approximately 1 mile. Entrance to Sesuit Creek is only possible at high water. A few small fishing boats use the harbor.

There is a low, sandy bluff along the shore westward from the mouth of Sesuit Creek. Numerous scattered boulders are visible along the shore at low water.

A wide sand flat extends northward from the shore at low water.

c- Landmarks:

There are two prominent landmarks on this sheet which are of extreme navigational importance. They were located by triangulation in 1933.

Tower - Triangulation station Scargo Tower 1933 -
This prominent landmark on Scargo Hill is visible from all points in this

section of Cape Cod Bay and can be seen from Provincetown on a clear day.

Latitude 41 44 687.8 m.

Longitude 70 10 1151.7 m.

Stack - Triangulation station Sesuit Stack 1933, fourth order, checked by topography. This tall stack is a prominent landmark for this section of Cape Cod Bay.

Latitude 41 45 470.1 m.

Longitude 70 09 131.7 m.

d- Character of Control Used:

The topography on this sheet is controlled entirely by the coordinating triangulation of 1933 and such old stations as could be recovered altho not relocated in 1933.

e- Closing Errors of Traverses:

Only short traverses were run and these closed satisfactorily.

f- Surveying Methods:

The usual topographic plane table methods were used.

No attempt was made to delineate other than the shore line, marsh areas, and main roads. The southern limit of the topography is the main highway.

g- Changes in Shore Line and Prominent Features:

In general there is little change in this area.

The point midway between Longitude 70 05 and 70 06 agrees in position with the previous survey of 1868.

The highwater line has apparently receded about 20 meters at Longitude 70 06.

Some changes are noted in the courses and mouths of Quivett Creek and the small creek immediately to the eastward. The island which lies between them is now divided in two by a marsh and small creek altho the general outward configuration is the same. *Herring River*

Considerable change in the spit immediately west of the mouth of Quivett Creek is noted. *H6*

The eastward of the two points at Longitude 70 08 as shown on the sheet of 1868 has disappeared altho the westward point still remains.

The highwaterline immediately eastward of the breakwater at Sesuit Creek has receded about 40 meters. The position

of the outer breakwater is approximately the same as shown in 1868. The inner breakwater or retaining wall was not shown. A previously uncharted rock lies immediately west of the mouth of the channel. This was also located by the hydrographic party.

The shoreline westward from Longitude 70 09.5 remains ~~pr~~ practically unchanged in position.

The road intersections on the sheet, where there was a similarity, agreed closely with the previous work.

h- Junctions:

Satisfactory junction with sheet H -C was made in Longitude 70 05.

Junction with sheet H.- E was made at topographic station "Jun" which was located independently on both sheets, and at the road intersection to the southeastward of "Jun".

i- Magnetic Meridian:

The magnetic declination was determined with the declinoire at triangulation station Quivett 1933 and found to be, at 9:15 am. on July 15, 1934, $16^{\circ} 42.6' W.$

j- Inking:

The inking of the sheet was done by the Chief of Party.

The outside edge of the heavy line delineating the high water line is the position of the line of high water.

In the marsh areas the inner edge, or edge of the solid ground is considered as the high water line.

The edges of the channels are shown as a light solid line.

The low water line, except in the mouths of streams, was not located until a point just north of triangulation station Quivett 1933 where it approaches the shore. The low waterline was located by the topographic party from here westward to the limit of the sheet. The inshore area just west of Sesuitt Creek is very foul.

k- Topographer:

The field work was done by Mr. Edwin A. Fowler, Observer under careful supervision of the Chief of Party .

1- Plane Table Positions:

	Latitude	Longitude
Mid 1934 , a std. hydro. disc set in a concrete pier.	41 45 1385 m	70 06 741 m.
Jun 1934 , a st. hydro. disc set in a concrete pier.	41 45 102 m.	70 10 1205 m.

Description card for these stations have been furnished.

m- Statistics:

Miles of shore line	16.0
Miles of Creeks	5.8
Miles of Roads	19.0
Area in sq. statute miles	6.5

No report on Geographic Names
H.B.

Earle A. Deily
Earle A. Deily

Lieutenant, U.S.C. & G. Survey,

Chief of Party.

Character of Marsh line.

While the outer edge of the marsh as shown on this sheet is a definite line at about half tide the line of demarcation between marsh and water at high tide is in most cases considerably further inshore and not well defined.

Earle A. Deily
Earle A. Deily

Lieut., U.S.C. & G. Survey

Chief of Party

Survey No. T 6113

GEOGRAPHIC NAMES
MASSACHUSETTS

Chart No. 1208 ✓339

Diagram No. 1208-2

Names underlined in red approved Dec 4, 1934 D
H Bacon

Compared with Chart 1208

And U.S.G.S. Quads

R, Referred to the Division of Geographic Names, Department of Interior.

[illegible]

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6113 (1934)

East Dennis to Brewster, Cape Cod, Massachusetts.

Surveyed June - July, 1934

Instructions dated: April 29, 1933, Inspector Boston Field Station
May 2, 1934 Orders to E. A. Deily.

Plane Table Survey - Aluminum Mounted

Chief of Party - E. A. Deily.

Surveyed by - E. A. Fowler.

1. Condition of Records.

The records conform to the requirements of the Topographic Manual with the following exceptions:

- a. In several instances the triangulation stations did not have the year of location. These were added in the office.
- b. Although Landmarks for Charts are listed and described in the Descriptive Report, they were not submitted on Form 567.
- c. The firm land at the inner edge of marsh is inked in a full heavy line, whereas the topographic manual, (Paragraph 43) requires it to be shown in a line distinctly lighter than the M.H.W. line. A note explaining this has been added to the sheet.

2. Compliance with Instructions for the Project.

The survey complies with the instructions.

3. Junction with Contemporary Surveys.

The junctions with T-6112 (1934) on the east and with T-6114 (1934) on the west are satisfactory.

4. Comparison with Prior Surveys.

a. T-1088 (1868).

In general there is good agreement between this survey and the present survey. The chief difference is in the island Lat. $41^{\circ}45'.5$, Long. $70^{\circ}07'.0$, but the splitting of this island into two on the present survey as mentioned in the Descriptive Report, is probably due to a different interpretation of the high water line.

The location of offlying rocks was much more careful and thorough than on the previous survey. However the former survey shows 2 sunken rocks in Lat. $41^{\circ}45'.4$, long. $71^{\circ}10'.2$ which were not located on the present survey. These will be disposed of in the review of the contemporary hydrographic survey (H-5543) covering this area.

Disposed of in Review H 5543 (1934)

b. T-1088 a and b (1909).

The resurveys on tracing cloth were made for correction of roads. It was not attempted to check every discrepancy of the roads but it was found that there is good agreement in road intersections in most cases.

5. Field Drafting.

The field inking of the survey is good.

6. Additional Field Work Recommended.

The survey is complete and no additional field work is necessary.

7. Note to Compiler.

Attention is called to the statement in the descriptive report, page 5 regarding the character of the outer edge of the marsh line.

8. Superseding Old Surveys.

Insofar as the topography actually covered in the present survey is concerned, it supersedes the following surveys for charting purposes:

T-1088 (1868) in part.

T-1088a and b (1909) in part.

9. Reviewed by - A. F. Jankowski, January 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green, *C. K. Green*
Chief, Section of Field Records.

F. S. Borden
Chief, Section of Field Work.

L. O. Collett
Chief, Division of Charts.

G. W. de
Chief, Division of H. & T.