DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic  Sheet No. 6113

State    Massachusetts

LOCALITY

Cape Cod

East Dennis to Brewster

1934

CHIEF OF PARTY

E.A. Deily

U.S. GOVERNMENT PRINTING OFFICE: 1934
The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. T. D.

REGISTER NO. 3

State Massachusetts
General locality Cape Cod
Locality East Dennis, & 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

Remarks

...
DESCRIPTIVE REPORT

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

1934

Earle A. Deily
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 09 151.7 m.

d- Character of Control Used:

The topography on this sheet is controlled entirely
by the coordinating triangulation of 1935 and such old stations as could
be recovered altho not relocated in 1935.

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.

The eastward of the two points at Longitude 70 08
as shown on the sheet of 1868 has disappeared altho the wetward 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 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-0 was made in Longitude 70°05.

Junction with sheet H-4 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 declinatoire at triangulation station Quivett 1933 and found to be, at 9:15 am. on July 15, 1934, 16°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 Sesquitt 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:

<table>
<thead>
<tr>
<th></th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid 1934, a std. hydro.</td>
<td>41 45 1385 m</td>
<td>70 06 741 m</td>
</tr>
<tr>
<td>disc set in a concrete pier.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jun 1934, a std. hydro.</td>
<td>41 45 102 m</td>
<td>70 10 1205 m</td>
</tr>
<tr>
<td>disc set in a concrete pier.</td>
<td></td>
<td></td>
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</tbody>
</table>

Description card for these stations have been furnished.

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.

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
Lieut., U.S.C. & G. Survey
Chief of Party
<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>East Dennis</td>
<td>Same</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cape Cod Bay</td>
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<td></td>
<td>West Brewster</td>
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<td></td>
<td>Gabbi's Pond</td>
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<td></td>
<td>Brewster</td>
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<tr>
<td></td>
<td>Freeman's Pond</td>
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<td></td>
<td>Quivett Creek</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Colt's Pond</td>
<td></td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;Colt's Pond&quot;</td>
</tr>
<tr>
<td></td>
<td>Sesuit Harbor</td>
<td>&quot;</td>
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</tr>
<tr>
<td></td>
<td>Sesuit Creek</td>
<td></td>
<td>&quot;</td>
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<tr>
<td></td>
<td>Myricks Pond</td>
<td>From US.G.S.</td>
<td></td>
<td>&quot;</td>
<td>41°46.0' 70°04.7'</td>
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<tr>
<td></td>
<td>Herring River</td>
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<td>&quot;</td>
<td>&quot;</td>
<td>41°45.5' 70°06.9'</td>
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<tr>
<td></td>
<td>Quivett Neck</td>
<td></td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;Chart 1208&quot; 41°45.3' 70°08.5'</td>
</tr>
</tbody>
</table>
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.


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 45) 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.


a. T-1088 (1866).

In general there is good agreement between this survey and the present
survey. The chief difference is in the island Lat. 41°45'.5, Long.
70°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°45'.4, Long. 71°10'.2 which were not located on the
present survey. These will be disposed of in the review of the con-
temporary 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 (1888) in part.
- T-1088a and b (1909) in part.


Inspected by - A. L. Shalowitz.

Examined and approved:

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

O. L. Roberts, Chief, Division of Charts.

F. B. Cordun, Chief, Section of Field Work.

F. Lane, Chief, Division of H. & T.