**DESCRIPTIVE REPORT**

State: **Massachusetts**

**LOCALITY**

- Cape Cod
- Barnstable Harbor
- Scorton Neck

**1934**

**CHIEF OF PARTY**

E.A. Daily
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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.E. 

REGISTER NO. 6122

State...Massachusetts .................................................................

General locality...Cape Cod .........................................................

Locality...Barnstable, Harbor .....................................................

Scale...1:10,000 Date of survey...Sept. & Oct., 1934.

Vessel...Field Party 28 .................................................................

Chief of party...Earle A. Deily...Lieut., U.S.C.& G.S. ..............

Surveyed by...Edwin A. Fowler ...................................................

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, Orders May 2, 1934.

Remarks: ..............................................................................................

...
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 G

State Massachusetts

General locality Cape Cod

Locality Scorton Neck Harbor

Scale 1:10,000 Date of survey Sept. & Oct. 1934

Vessel Field Party 28

Chief of party Earle A. Deily Lieut. U.S. C & G.S.

Surveyed by Edwin A. Fowler

Inked by Earle A. Deily

Heights in feet above m.o.m. to ground to tops of trees

Contour Approximate contour Form line interval

Instructions dated Apr. 29, 1933 May 2, Orders 1934

Remarks
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEETS F AND G,

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 SHEETS F AND G,
Cape-Cod, Massachusetts.
Project H.T. 145,
1934.

a:— Authority:

The authority for the topographic work embraced by these sheets is included in the "Orders and Instructions" to the Inspector, U.S. Coast and Geodetic Survey, Boston, Massachusetts, dated April 29, 1933, and "Orders" to Lieutenant Earle A. Deily, dated May 2, 1934.

b:— General Description of the Coast:

These sheets cover the land and swamp areas of Barnstable Harbor, Sandy Neck, and the Cape Cod Bay shore westward to Longitude 70° 25'.

Sandy Neck, the long narrow neck on the north side of Barnstable Harbor is sand dune covered. In places these dunes rise to considerable height and are covered with grass and scrub brush. The Cape Cod Bay side of the neck is a sandy beach while the south side is fringed with extensive salt marshes. These marshes cover the whole face of the bay westward of Longitude 70° 20'.

Salt Marsh lies along the south shore of Barnstable Bay from Longitude 70° 16' westward to the mouth of Maraspin Creek. The land itself, however, rises rapidly to the southward.

There is a dredged channel into and a dredged basin in the mouth of Maraspin Creek. This is the harbor for the fishermen of Barnstable. There is a fish freezer and dock on the west side of the basin and fresh water and gasoline are available. The town of Barnstable maintains a dock on the east side of the basin but there is little water at its face at low water.

The shoreline westward of the mouth of Maraspin Creek to the "Great Marshes" is fringed with scattered boulders which extend seaward into the channel. Saltm Rock which showed on chart 339 is no longer in existence. This rock was destroyed by dynamite and the area is now covered with scattered fragments.

The Barnstable Yacht Club maintains a small dock and float in Latitude 41° 42.5', Longitude 70° 18.9'.

The "Great Marshes" cover the western portion of
sheet "P" and the greater portion of sheet "G".

C: Landmarks:

The landmarks on these sheets were all located by triangulation and used as control for the topography.

- STACK - triangulation station Stack, Yarmouthport.
  - Latitude 41 42 1082 meters.
  - Longitude 70 15 728 meters.

- STANDPIPE - triangulation station Hyannis Standpipe.
  - Latitude 41 41 568.8 meters.
  - Longitude 70 16 1207.1 meters.

- STACK - triangulation station, Stack, Fish Freezer.
  - Latitude 41 42 761 meters.
  - Longitude 70 18 89 meters.

- FLAGPOLE - triangulation station Flagpole, Barnstable.
  - Post Office
  - Latitude 41 42 310.0 meters.
  - Longitude 70 17 1338.0 meters.

- SPIRE - triangulation station Barnstable Unitarian Church 1909.
  - Latitude 41 42 744 meters.
  - Longitude 70 17 1333.7 meters.

- FIRE TOWER - triangulation station Shootflying Tower 1934.
  - Latitude 41 41 222.8 meters.
  - Longitude 70 20 1150.7 meters.

- SPIRE - triangulation station West Barnstable Church Spire 1909, 1934.
  - Latitude 41 41 1689.4 meters.
  - Longitude 70 23 794.5 meters.

- Tower - triangulation station Tower, Soorton Neck.
  - Latitude 41 44 523 meters.
  - Longitude 70 25 250 meters.

D: Character of Control Used:

The topography on these sheets was controlled entirely by the 1934 coordinating triangulation.

E: Closing Errors of Traverses:

No long traverses were run. A three-point fix was possible at almost every plane table setup.
Survey Methods:

The usual topographic planimeter methods were used throughout the work.

The marsh edge was located by rod readings but no attempt was made to delineate the low water line.

The line of the New York, New Haven and Hartford Railroad and the main highway was considered the southern limit of the sheet.

The outer and inner high water line of Sandy Neck constitute the only work on sheet "G" which is therefore incomplete.

Changes in Shoreline:

The greatest changes were noted on Sandy Neck. The extreme end is building up rapidly to the eastward and northward.

The south shore of Sandy Neck in Longitude 70°17' has moved approximately 45 meters northward since the survey of 1859. The extreme point is now about 225 meters eastward.

Changes on the north shore of Sandy Neck are as follows:

<table>
<thead>
<tr>
<th>Longitude</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>70°17'</td>
<td>155 meters northward</td>
</tr>
<tr>
<td>70°18'</td>
<td>40 meters southward</td>
</tr>
<tr>
<td>70°19'</td>
<td>24 meters northward</td>
</tr>
<tr>
<td>70°20'</td>
<td>5 meters southward</td>
</tr>
<tr>
<td>70°21'</td>
<td>15 meters southward</td>
</tr>
<tr>
<td>70°22'</td>
<td>60 meters southward</td>
</tr>
<tr>
<td>70°23'</td>
<td>18 meters northward</td>
</tr>
<tr>
<td>70°24'</td>
<td>10 meters southward</td>
</tr>
</tbody>
</table>

Considerable change is also noted in the shape and size of the marsh islands in the western end of Barnstable Harbor. The channels in the "Great Marsh" have also changed in position and shape.

Very little difference is noted in the topographic features of the firm land on the south shore of Barnstable Harbor. The highway intersections agree closely with the old survey.

The Life Saving Station in Latitude 41°42.4', Longitude 70°18.5' as shown on chart 339 is no longer in existence. This station has been abandoned and should be deleted from the chart.

Junctions:

Satisfactory junctions were made with the adjoining sheets.
i:- Magnetic Meridians:

The magnetic declination was determined with the declinometer on sheet "F" at topographic station CALF 1934 at 9:30 am on October 27, 1934 and found to be 15°35.9' W.

The magnetic declination was determined with the declinometer on sheet "G" at triangulation station Payne 1934 at 9:15 am on September 15, 1934 and found to be 15°07.9' W.

j:- Inking:

The inking of these sheets was done by the Chief of Party.

The outside edge of the heavy line \( \sqrt{ } \) delineating high water is the position of the high water line.

At the inner edge of the marshes the line \( \sqrt{ } \) of firm land was considered the high water line and inked as such.

Edges of the marsh channels are shown as light solid lines.

The sand symbol should be used for all areas outside the marsh line in Barnstable Harbor.

k:- Topographer:

The field work was done by Mr. Edwin A. Fowler, observer.

l:- Plane Table Positions:

There were only two marked topographic stations on sheet "F" and none on sheet "G".

CALF 1934
Latitude 41°42' 1148 meters.
Longitude 70°19' 727 meters.

JBG 1934
Latitude 41°44' 103 meters.
Longitude 70°18' 1258 meters.

Descriptions of these stations are being submitted.

m:- Statistics:

Sheet "F"

Statute miles of shoreline 19.2
Statute miles of roads 13.6
Statute miles of creeks 14.2
Statute miles of Railroads 4.6
Area in square statute miles 11.0
<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statute miles of shoreline</td>
<td>7.5</td>
</tr>
<tr>
<td>Statute miles of roads</td>
<td>0.6</td>
</tr>
<tr>
<td>Statute miles of creeks</td>
<td>0.5</td>
</tr>
<tr>
<td>Statute miles of Railroads</td>
<td>0.0</td>
</tr>
<tr>
<td>Area in square statute miles</td>
<td>2.0</td>
</tr>
</tbody>
</table>

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. Dally

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

Chief of Party
<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart or other Maps</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Scorton Creek (USGS)</td>
<td>Great Creek</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Huckins I.</td>
<td>Huggins I.</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>Liquor Thacher</td>
<td>Thacher</td>
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<tr>
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<tr>
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<td>Liquor Thacher II</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Liquor Thacher III</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Great Marshes</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Phillip I.</td>
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<tr>
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<td>Town I.</td>
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<td></td>
</tr>
<tr>
<td>✓</td>
<td>Sandy Neck</td>
<td>Same</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Barnstable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Barnstable Harbor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Salton Pt.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Blish Pt.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>Mussel Pt.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>The Cove</td>
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<td></td>
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<tr>
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<td>Beach Pt.</td>
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<tr>
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<td>Great Pond</td>
<td>Hineckley Pond</td>
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<td></td>
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</tr>
<tr>
<td>✓</td>
<td>Hineckley's Authority of Slew City (spelling only)</td>
<td>From Plan of Town of Barnstable Mass. by George F. Clements, Oct. 1935 (Hyannis, Mass.)</td>
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<tr>
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<td>Sand Island</td>
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</tr>
<tr>
<td>✓</td>
<td>Wells Creek</td>
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<td></td>
</tr>
<tr>
<td>✓</td>
<td>Calves Pasture Pt.</td>
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</tr>
<tr>
<td>✓</td>
<td>Spring Creek</td>
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</tr>
<tr>
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<td>Maraspin Creek</td>
<td>Huckins Creek</td>
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<td></td>
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</tr>
<tr>
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<td></td>
<td>Authority of Slew City</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To: Mr. Bacon  
From L. S. S.

GEOGRAPHIC NAMES  
MASSACHUSETTS

Date: Dec. 5, 1934

Survey No. T 6123
Chart No. 1208
Diagram No. 1208-2

Names underlined in red approved Dec. 25, 1934

*, Approved by the Division of Geographic Names, Department of Interior.

†, Not Approved by the Division of Geographic Names, Department of Interior.

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

<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>
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<td>---------------</td>
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</tr>
<tr>
<td></td>
<td>Scorton Neck</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Sandy Neck</td>
<td></td>
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<tr>
<td></td>
<td>Cape Cod Bay</td>
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<td></td>
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</tbody>
</table>
Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6122 (1934)

Barnstable Harbor, Cape Cod, Massachusetts.
Surveyed September-October, 1934
Instructions dated: April 29, 1934, Inspector of 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. Landmarks for Charts were not submitted on Form 567, but they were submitted in the Descriptive Report.

b. Dates were not appended to triangulation stations Stack-Yarmouth, Flagpole-Barnstable Post Office and Stack-Fish Freezer. These were added in the office.

c. The method of inking in the line of firm ground in a heavy line (see D.R. page 4) is contrary to instructions in the Topographic Manual (Par. 43) where it is specified that the inner edge of the marsh should be drawn by a line distinctly lighter than the High Water line. A note has been added to the survey to indicate that the heavy line is the line of firm ground.

2. Compliance with Instructions for the Project.

The survey complies with written and verbal instructions for the project.

3. Junction with Contemporary Surveys.

The junction with T-6123 (1934) on the west is satisfactory.


The greatest change in shoreline is in the vicinity of Beach Point where the point has built out about 225 meters to the northeast. There is also a considerable difference in size and shape of some of the marsh islands in Barnstable Harbor. However there has been very little shift in the outer coast and practically no change whatever
in the firm ground in the vicinity of Barnstable. Channel Rock shown in lat. 41°42'.8, long. 70°18'.2 is not located in the present survey, although the contemporary hydrographic survey, H-5589 shows this as a rock covered 1 ft. at M.L.W. Final disposition of this rock will be made in the review of the hydrographic survey. Position correct as shown on H-5589

See par 650 Review of H-5589 for disposition

b. T-901 (1860-61)

The Cape Cod shore of Sandy Neck is common to both surveys. The greatest discrepancy in position of high water line appears to be about 30 meters. This is considered as a good agreement which indicates the permanency of this particular section of the coast line.

c. T-795a (1909)

This is a revision survey on tracing cloth and includes Beach Point. The building out of Beach Point is again apparent.

5. Field Drafting.

The field inking of the survey is very good.

6. Additional Field Work Recommended.

No additional field work is necessary.

7. Note to Compiler.

Attention is called to the statement in the Descriptive Report, page 6 regarding the character of the outer edge of the marsh line.

8. Superseding Old Surveys.

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

T-795 (1859) in part.
T-901 (1860) in part.


 inspected by A. L. Shalowitz.

Examined and approved:

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

T. S. Green, Chief, Div. of Charts.

Chief, Section of Field Work.

Chief, Div. of H. & T.
Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6123(1934)

Scorton Neck, Cape Cod, Massachusetts.
Surveyed September-October, 1934
Instructions dated: April 29, 1934, Inspector of Boston Field Station
May 2, 1934 Orders to Lieut. 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. The line of firm land at the inner edge of marsh land is shown
in a heavy full line. The topographic manual Par. 43 requires such
line to be shown in a line distinctly lighter than the high water
line. A note has been added to the survey to indicate the line of
firm land.

b. Some of the triangulation stations did not have the dates of
location. These were added in the office.

2. Compliance with Instructions for the Project.

The survey complies with written and verbal instructions for the
project.

3. Junction with Contemporary Surveys.

The junction with T-6123(1934) is satisfactory.


a. T-901(1860)

There appears to be a good agreement in the Cape Cod Bay shoreline
of the two surveys. The greatest difference along this coast is given
as 60 meters in the Descriptive Report. A check made during this
review indicates that the agreement is somewhat better than that
given in the Report.

5. Field Drafting.

The field inking of this survey is good.

6. Additional Field Work Recommended.

The survey is complete only insofar as the Cape Cod Bay shoreline and
the inner edge of the marsh on the north side of Barnstable Harbor
is concerned. In view of the reported changes in the western end of Barnstable Harbor (see D.R. page 5) it would be desirable to extend the work westward to about Long. 70°23'.

7. **Note to Compiler.**

Attention is called to the statement in the Descriptive Report, page 6 regarding the character of the outer edge of the marsh line.

8. **Superseding Old Surveys.**

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

T-901 (1860) in part


Inspected by - A. L. Shalowitz.

Examined and approved:

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

L. O. Zolbird, Chief, Div. of Charts.

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

G. H. J. Chief, Div. of H. & T.