

6122

Name Sheet

6123

Name Sheet with 6123

Form 504
Rev. Dec. 1933

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

DESCRIPTIVE REPORT

Topographic } T - G & T - F
~~Hydrographic~~ } Sheet No. 6122 6123

State Massachusetts

LOCALITY

Cape Cod

Barnstable Harbor

Scorton Neck

1934

CHIEF OF PARTY

E.A. Deily

6122

6123

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
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REG. NO. 6122

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. F. _____

REGISTER NO. 6122

State Massachusetts ✓

General locality Cape Cod ✓

Locality Barnstable, Harbor *large*

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

Vessel Field Party 28

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

Surveyed by Edwin A. Fowler

Inked by Earle A. Daily

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: _____

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

U.S. COAST AND GEODETIC SURVEY LIBRARY & RECORDS
NOV 23 1934
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REG. NO. 6123

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. G.

REGISTER NO. 6123

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

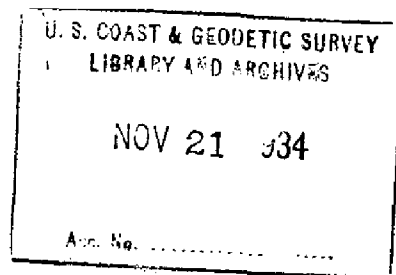
Inked by Earle A. Deily

Heights in feet above none to ground to tops of trees

Contour, Approximate contour, Form line interval none feet

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 northward into the channel. Salten 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 Yach Club maintains a small dock and float in Latitude 41 42.6, Longitude 70 18.9.

The "Great Marshes" cover the western portion of

sheet "F" 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 42 781 meters. ✓
Longitude 70 18 89 meters. ✓
- Post Office FLAGPOLE-triangulation station Flagpole, Barnstable.
Latitude 41 42 31.0 meters.
Longitude 70 17 1338.0 meters.
- Church 1909 ✓ SPIRE - triangulation station Barnstable Unitarian.
Latitude 41 42 74.4 meters.
Longitude 70 17 1333.7 meters.
- ✓ FIRETOWER- triangulation station Shootflying Tower 1934.
Latitude 41 41 222.8 meters. ✓
Longitude 70 20 1150.7 meters. ✓
- Spire 1909, 1934 SPIRE - triangulation station West Barnstable Church.
Latitude 41 41 1689.4 meters. ✓
Longitude 70 23 79.5 meters. ✓
- Tower- triangulation station Tower, Scorton 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.

f:- Survey Methods:

The usual topographic planetable 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.

g:- 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:

Longitude 70° 17'	155 meters northward
Longitude 70° 18'	40 meters southward
Longitude 70° 19'	24 meters northward southward
Longitude 70° 20'	5 meters southward
Longitude 70° 21'	15 meters southward
Longitude 70° 22'	60 meters southward
Longitude 70° 23'	18 meters northward
Longitude 70° 24'	10 meters southward

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.

h:- Junctions:

Satisfactory junctions were made with the adjoining sheets.

i:- Magnetic Meridians:

The magnetic declination was determined with the declinatoire on sheet "F" at topographic station CALF 1934 at 9:30 am on October 27, 1934 and found to be $15^{\circ} 35.9' W.$

The magnetic declination was determined with the declinatoire on sheet "G" at triangulation station Payne 1934 at 9:15 am on September 15, 1934 and found to be $15^{\circ} 07.9' W.$

j:- Inking:

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

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

At the inner edge of the marshes the line 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 $41^{\circ} 42'$	1148 meters.
	Longitude $70^{\circ} 19'$	727 meters.

JEG 1934	Latitude $41^{\circ} 44'$	103 meters.
	Longitude $70^{\circ} 18'$	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

m:-

Sheet "G"

Statute miles of shoreline	7.5 -
Statute miles of roads	0.6 ✓
Statute miles of creeks	0.5 ✓
Statute miles of Railroads	0.0 ✓
Area in square statute miles	2.0 ✓

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

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

Chief of Party

To: Mr. Bacon
 From L. S. S.

Survey No. T 6122

GEOGRAPHIC NAMES
 MASSACHUSETTS

Chart No. 1208

Date. Dec 4, 1934

Diagram No. 1208-2

*Names underlined in red approved Dec 7 1934
 H. Bacon*

- * 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.

Q Names under investigation

Status	Name on Survey	Name on Chart or other Maps	New Names in local use	Names assigned by Field	Location
✓	<u>Scorton Creek (USGS)</u> ✓	Great Creek			
	<u>Huckins I.</u> ✓ <i>Q and</i>	Huggins I.			
✓	-----	<u>Thacher</u>			
✓	-----	<u>L. Thatcher I.</u> ✓			
✓	-----	<u>G. Thatcher I.</u> ✓			
✓	-----	<u>Great Marshes</u> ✓			
✓	-----	<u>Phillis I.</u> ✓			
✓	-----	<u>Town I.</u> ✓			
✓	<u>Sandy Neck</u> ✓	Same			
✓	<u>Barnstable</u> ✓	"			
✓	<u>Barnstable Harbor</u>	"			
✓	-----	<u>Salten Pt.</u> ✓			
✓	-----	<u>Blish Pt.</u> ✓			
✓	-----	<u>Mussel Pt.</u> ✓			
✓	-----	<u>The Cove</u> ✓			
✓	-----	<u>Beach Pt.</u> ✓			
✓	<u>Hinkley's Pond</u> ✓ <i>Great Pond Let. G.N. 3 H.S. Apr. 1935</i>	<u>Hinckley's</u> Authority of Lieut Deily (spelling only)			
✓	<u>Sand Island</u> ✓	From Plan of Town of Barnstable Mass. by George & Clements, CE., 1930 [Hingham, Mass.]			
✓	<u>Jules Island</u> ✓	Same as above			
✓	-----	<u>Bass Creek</u> ✓			
✓	-----	<u>Wells Creek</u> ✓			
✓	-----	<u>Calves Pasture Pt.</u> ✓			
✓	-----	<u>Spring Creek</u> ✓			
✓	<u>Maraspin Creek</u> ✓ <i>Q OK. Authority of Lieut Deily</i>	<u>Huckins Creek</u> , See note at Sand Island above			

*See Letter GN 13 (34, 1935)
 on T-795 & USGS see also SM 24
 H.E. 10/30/37*

*→ Hinckley Pond USGB decision
 H.E.*

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.

1. Condition of Records.

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.

4. Comparison with Prior Surveys.

a. T-795 (1859).

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. $41^{\circ}42'.8$, long. $70^{\circ}18'.2$ is not located in the present survey, although the contemporary hydrographic survey, H-5589 shows this as a rock ^{bare 2 ft.} 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 6 b (1) Review of H-5589 (1934) 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.

9. Reviewed by - A. F. Jankowski, December 1934.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

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

R. O. Dolbut
Chief, Div. of Charts.

G. H. Hude
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.

1. Condition of Records.

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.

4. Comparison with Prior Surveys.

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. $70^{\circ}23'$.

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

9. Reviewed by - A. F. Jankowski, December 1934.

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. Zolner
Chief, Div. of Charts.

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