DESCRIPTIVE REPORT

Topographic Sheet No. E 6114

State    Massachusetts

LOCALITY

Cape Cod

Yarmouthport to Nobscauset Pt.

1934

CHIEF OF PARTY

E.A. Daily
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. 4

State...Massachusetts

General locality...Cape Cod

Locality...Yarmouthport to Nobsucset Pt.

Scale...1:10,000 Date of survey...August, 1934

Vessel...Field Party No. 28

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

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...April 23, 1933; Orders...May 2, 1934

Remarks:

...
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET E

CAPE COD, MASSACHUSETTS.

Project H.T. 145

1934

Earle A. Deily,
Lieutenant, U.S.C.& G.S. Survey,
Chief of Party.
DESCRIPTIVE REPORT  
TO ACCOMPANY TOPOGRAPHIC SHEET E  
Cape Cod, Massachusetts.  
Project H.T. 145  
1934.

a: Authority:  
The authority for the topographic work embraced by this  
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:  
This sheet embraces part of the entrance to and eastern  
end of Barnstable Harbor.  
From Nobscauset Harbor westward to Longitude 70° 14' the  
shore line is characterized by a low bluff diminishing in height to the  
western end where it is lost among the sand dunes on the point northward  
of the mouth of Chase Gardner Creek.  
The remainder of the shore line to the western end of the  
shore is fronted by a wide salt marsh which is cut up by numerous streams.  
These streams have no outlet at low water; the channels disappear into  
the sand flats which extend off shore to the channel into Barnstable.  
These extensive flats bare at low water.  
Nobscauset Harbor, Latitude 41° 44.1', Longitude 70° 11.4'  
is now under development but was dry at low water when the survey was  
made except for a very narrow channel in which there is insufficient  
water for any boat to ride. Stone breakwaters are under construction  
to the immediate westward.  
Numerous scattered rocks, some of which are water at low  
water, lie off the point at the western end of the harbor. A fringe of  
rocks lies along the shore from Nobscauset Harbor to Longitude 70° 12.6'.  
A dredged channel leads into Yarmouthport and is marked  
in part by a series of stakes which have been placed by local fishermen.  
The channel at its southern end is practically dry at low water. There is  
a dock at Yarmouthport with room for several small fishing boats to lie  
alongside at low water.  
Chase Gardner Creek flows thru a large marsh which extends  
estward to North Dennis.

c: Landmarks:  
There are four landmarks on the sheet, all of which were  
located by triangulation and used as control points.  
TOWER Triangulation Station Scargo Tower 1933, stone tower  
on Scargo Hill.  
Latitude 41° 44' 688 m,  
Longitude 70° 10' 1152 m.  
TANK Triangulation station Nobiscusset Water Tower 1887-  
1934, wooden tank at Nobiscusset Inn.  
Latitude 41° 44' 1284 m,  
Longitude 70° 12' 621 m.
SPIRE, Triangulation station Yarmouth Congregational Church Spire 1887-1934, tall grey spire.
- Latitude 41 42 690 m.
- Longitude 70 14 501 m.

STACK, Triangulation station Stack, Yarmouthport, tall concrete stack.
- Latitude 41 42 1082 m.
- Longitude 70 15 728 m.

d-- Character of Control Used:
The topography on this sheet was controlled entirely by the coordinating triangulation of 1933-34.

e-- Closing Errors of Traverses:
The only traverse of any length on this sheet was run along the highway from North Dennis to Yarmouth and closed within the allowable error and was adjusted.

f-- Surveying Methods:
The usual topographic planimetric methods were used throughout the work.
The main highway is the southern limit of the sheet.
Only the main highways were run.
The low water line was only run westward to Bass Hole where it turns to a considerable distance offshore. Low water line is also delineated at the mouths of and in all channels and streams.

g-- Changes in Shore Line and Prominent Features:
Considerable change is noted in the shore line since the survey of 1868.
The topographic features of Nobscoosett Harbor have changed entirely.
The shoreline at Longitude 70 12 has receded 30 meters, and at Longitude 70 13 it has receded 10 meters. Two breakwaters have been constructed eastward of triangulation station Bass Hole 1934 in an attempt to stop further destruction of the beach.
The shore line at Longitude 70 14 has built up approximately 130 meters northward. The greatest change is noted from here to the westward where there is an area of sand dunes and the high water line is rapidly moving westward.
From Longitude 70 15 westward little change is noted in the position of the marsh edge.
Some changes have occurred in the mouths and courses of the streams that traverse the marsh areas. In particular, the old sheet shows 3 main arms of Chase Gardner Creek flowing into it from the northward. The middle one is no longer in existence. This immediate area has been ditched for mosquito control and stream courses changed. Little change is noted in the main roads and such intersections as were on the old sheet check well.

h-- Junctions:
Satisfactory junctions were made with the adjoining sheets.
Junction with sheet H - D was made at topographic station
station "JUN" and the road intersection to the southeastward. These
points were located independently on both sheets.

Junction with sheet T - F was made on the shoreline
at Latitude 41° 42'.8, Longitude 70° 15'.5.

i: Magnetic Meridian:

The magnetic meridian was determined at triangulation
station Bass Hole 1934 on August 27, 1934, 10:30 am and found to be
14° 38' 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 High Water.
The line of firm ground was considered as the high water line in the marshes and was inked as such.
Edges of channels thru the marsh are shown with a light solid line.

k: Topographer:

Field work was done by Mr. Edwin A. Fowler under close supervision of the Chief of Party.

l: Plane Table Positions:

JUN Std. hydro. disc set in a concrete pier.
Latitude 41° 46'.102 m.
Longitude 70° 10'.1286 m.

m: Statistics:

<table>
<thead>
<tr>
<th>Miles of shore line</th>
<th>22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miles of Creaks</td>
<td>13</td>
</tr>
<tr>
<td>Miles of Roads</td>
<td>16</td>
</tr>
<tr>
<td>Area, square statute miles</td>
<td>7.5</td>
</tr>
</tbody>
</table>

Earle A. Daily

No report on Geographic Names.
H.B.
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.

Earl E. Fitch
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>Yarmouthport</td>
<td>Same</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yarmouth</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nobscusset Point</td>
<td>V Nobscusset Pt., Harbor and Water Tower</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>North Dennis</td>
<td>Same</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chase Gardner Creek</td>
<td>Same</td>
<td>Chase Gardner Creek USGS.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note:
Names on Survey were inked on the sheet by the Field.

- Bass Hole: Same
- Lone Tree Creek: Same Chart 339
- Cape Cod Bay: Same
- Joyce's Creek: USGS, Yarmouth Quad.
- (WHITE Brook (U.S.G.S. decision)
Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6114 (1934)

Yarmouthport to Nobscusset Pt., Cape Cod, Massachusetts
Surveyed August, 1934
Instructions dated: April 29, 1933, Inspector Boston Field Station
May 2, 1934, Orders to E. A. Daily.

Plans Table Survey - Aluminum Mounted

Chief of Party - E. A. Deily.
Surveyed by - E. A. Deily.


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

a. Landmarks for Charts although described and listed in the Descriptive Report, were not submitted on Form 587.

b. The inner edge of marsh or line of firm ground is shown in a heavy full line. The topographic manual, (Par. 43) requires such line to be distinctly lighter than mean High Water line. A note regarding this has been added to the survey.

c. In one case, the date of location of the triangulation station was omitted. This has been added in the office.

d. The channel markers into Yarmouthport were shown with the buoy symbol. These have been changed and are now marked by small black circles because in both the Topographic and Hydrographic Descriptive Reports, these are described as stakes or pine saplings.

e. No report on Geographic Names was submitted.

2. Compliance with Instructions for the Project.

The survey complies with the instructions.

3. Junction with Contemporary Surveys.

Satisfactory junctions were made with T-6113 (1934) and with T-6122 (1934).


The outer edge of marsh line has emerged about 30 meters in the vicinity of Yarmouthport and Lome Tree Creek. East of Chase Gardner Creek the shoreline has built out over 200 meters. This building
out decreases rapidly to the east and in Long. 70°13'.6 the beach has been eroded about 100 meters. Two small jetties are now built in an attempt to prevent further erosion. This erosion decreases to the east so that in Long. 70°13.0 the shoreline is in about the same location as formerly.

There is fair agreement in character of creeks and inside waters except where there has been filling in at the mouths and in places where some of the creeks have been altered by work done in connection with mosquito control. Roads, where they could be identified were found to check well with the old position.

b. T-1095 (1868)

There is good agreement in road intersection. The shoreline appears to have been eroded somewhat since the old survey. The new survey has a more careful location of offlying rocks particularly in the vicinity of Nobscusset Pt. where the outermost sunken rocks were not shown on the old survey.

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 6 regarding the character of the outer edge of the marsh line.

8. Superseding Old Surveys.

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

T-795 (1859) in part.
T-1095 (1868) in part.


Inspected by - A. L. Shalowitz.

Examined and approved:

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

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

J. L. Borden, Chief, Section of Field Work.

Chief, Div. of Charts.

Chief, Div. of H & T.