U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: PHOTOGRAMMETRIC

Field No.: 231
Office No.: T-5744
Project: PH-21(48)C

LOCALITY

State: MASSACHUSETTS

General locality: BUZZARD BAY - VINEYARD SOUND

Locality: WOODS HOLE AND VICINITY

194...8

CHIEF OF PARTY

J. Sipe

LIBRARY & ARCHIVES

DATE
Partially applied to chart 348 after review. 7/27/52 MCI
Applied to chart 260 after review 9/24/52 MCI.
DATA RECORD

T - 5744

Project No. (II): PH-31(48)C

Field Office (II): Washington, N.C.

Chief of Party: Comdr. Riley J. Sipe

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Comdr. Thos. B. Reed

Instructions dated (II) (III): Field - 9 April 1948

Copy filed in Division of Photogrammetry (IV) Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 8-19-49

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 2-12-51

Publication Scale (IV): 1:10,000

Publication date (IV): 8-18-50, M.H.W.

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.

Mean sea level except as follows:

Elevations shown as (F) refer to mean high water
Elevations shown as (G) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): HADLEY, 1938

Lat.: 41° 30' 49.809" (1536.7) m

Long.: 70° 41' 45.425" (1053.4) m

Adjusted

Plane Coordinates (IV): State: MASS. Zone: Island

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DATA RECORD

Field inspection by (II): R.A. Horn and E. T. Jenkins
Date: 10-4-48
11-23-48

Planetary contouring by (II): 

Completion Surveys by (II): NONE

Mean High Water Location (III) (State date and method of location):
5-2-48 supplemented by field inspection

Projection and Grids ruled by (IV): WEN
Date: 8-13-48

Projection and Grids checked by (IV): WEN
Date: 8-13-48

Control plotted by (III): R.A. Horn
Date: 2-4-49

Control checked by (III): F.J. Tarcza
Date: 2-7-49

Radial Plot or Stereoscopic

Control extension by (III): F.J. Tarcza
Date: 1-25-49

Stereoscopic Instrument compilation (III):

Contour

Manuscript delineated by (III):
M.L. Rosenberg

Photogrammetric Office Review by (III):
R. Glaser

Elevations on Manuscript
checked by (II) (III):
Camera (kind or source) (III): U.S.C. & G.S. Single lens

PHOTOGRAPHS (III)

<table>
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<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>5-2-48</td>
<td>1425</td>
<td>1:10,000</td>
<td>0.9' above MLW</td>
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Tide (III)

Reference Station: Newport, Mass
Subordinate Station: Nobska Point, Mass.
Subordinate Station:

Washington Office Review by (IV): C. Hanavich

Final Drafting by (IV): M. Webber and R. Breene

Drafting verified for reproduction by (IV): C. J. Squires

Proof Edit by (IV): C. J. Streiffler

Land Area (Sq. Statute Miles) (III): 6
Shoreline (More than 200 meters to opposite shore) (III): 25 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 5½ statute miles
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): Recovered: 15 Identified: 15
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 5
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:
Summary to Accompany T-5744

T-5744 is one of three planimetric maps in project Ph-31(48), subproject C. This subproject covers the area of the Elizabeth Islands including Woods Hole on the southwest tip of Cape Cod, Massachusetts. T-5744 covers Woods Hole and vicinity which includes Nonamesset Island, and the eastern end of Naushon Island in addition to several smaller islands.

The photographic coverage which consisted of 1:10,000 scale single-lens ratio prints was adequate and the compilation is complete. The field operations preceding compilation included complete field inspection, establishment and identification of additional horizontal control, clarification and annotation of photographic detail and an investigation of geographic names. The graphic compilation was done at a scale of 1:10,000.

Data pertaining to this survey will be filed as follows:

1. Filed in the Div. of Photogrammetry
   a. The original acetate manuscript at 1:10,000 scale with final review corrections applied.
   b. Geographic names sheet
   c. Pricking cards for identification of horizontal control.
   d. Forms 524
   e. Duplicate descriptive report

2. Filed in the Bureau Archives
   a. A clothbacked lithographic print of T-5744 at 1:10,000 scale.
   b. Descriptive Report

Field inspection made with respect for all areas and rocks. See Review Report.
FIELD INSPECTION REPORT

PLANIMETRIC SURVEY T-5744

For field data covering Survey T-5744, refer to field inspection report for sub-project Ph-31 (48) C, locality of Woods Hole and Elizabeth Islands, Massachusetts submitted by Riley J. Sipe, Chief of Party, bound with the descriptive report for Survey T-5746.
RADIAL PLOT REPORT

PROJECT Ph-31 (48) C

SURVEYS T-5744, T-5745, T-5746

For report on the radial plot for these three surveys, see Descriptive Report T-5746.
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>CAMERON, 1938</td>
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<td>LONGITUDE OR $x$-COORDINATE</td>
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<td>1310.8</td>
<td>(510.2)</td>
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<td></td>
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<td>(1128.8)</td>
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<td>1072.4</td>
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</table>
COMPILATION REPORT

T - 5744

This manuscript is one of three planimetric surveys in Project PH-31(48), Sub-project "C", and covers the northernmost portion of the Elizabeth Islands and the southernmost portion of the mainland in the area of Woods Hole.

FIELD INSPECTION REPORT

For field data covering this survey, refer to the field inspection report for quadrangles T-5744, T-5745, and T-5746 submitted by E. T. Jenkins and R. A. Horn 23 November 1948. This report is bound with descriptive report for Survey No. T-5746.

PHOTOGRAMMETRIC PLOT REPORT

Refer to radial plot report for Surveys T-5744, T-5745, and T-5746 submitted by Frank J. Tarcza, 14 February 1949.

31. DELINEATION

The manuscript was delineated by graphic methods only.

(See paragraph 35)

32. CONTROL

The identification, density and placement of the horizontal control was entirely satisfactory.

33. SUPPLEMENTAL DATA

Geographic name standards, dated January 31, 1949 were furnished by the Washington Office.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

An excellent field inspection job was done for this survey relative to the mean high-water line, shoreline details, and general interior inspection. However, the field inspector did not identify any low water or shoal lines. Some portions of the shallow areas were clearly defined on the photographs and their limits were delineated by office interpretation; where office interpretation was considered uncertain, these lines were stopped abruptly and will be referred to the hydrographer for completion.

The limits of all foul areas delineated on the manuscript were taken from data furnished by the field party. See Review Report.
36. **OFFSHORE DETAILS**

No comment.

37. **LANDMARKS AND AIDS**

Form 567 was submitted to the Washington Office 20 November 1948.

The sextant fix taken for a point on Great Harbor range is recorded on a control station identification card (Form M-2226-12) which is being submitted with this report. Div. of Photogrammetry General files.

38. **CONTROL FOR FUTURE SURVEYS**

Forms 524 for five (5) recoverable topographic stations are being submitted with this report. Div. of Photogrammetry General files.

39. **JUNCTIONS**

Junction to the west with Survey No. T-5745 has been made and is in agreement. There are no contemporary surveys to the north, south, or east.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41. **DISCREPANCIES**

Because there were so few discrepancies it was not considered necessary to prepare an overlay. The following discrepancies can no doubt be resolved at the Washington Office.

(a) The geographic name "Witches Glen" is shown on two name standards in different valleys. One of these valleys is on this survey and the other is directly to the west.

(b) A minor disagreement exists relative to the classification of a section of the road which runs close to the shore just south of Jobs Neck. (See field photos 918 and 928). Retained as indicated by compiler.

(c) No high water line could be delineated around Pine Island. The field inspection indicates it as "an area of rocks mostly awash MHW".

42. **through 45**

Inapplicable.
46. **COMPARISON WITH EXISTING MAPS**

The manuscript has been compared with the following U.S. Geological Survey quadrangles:


Comparison was also made with a photostat reduction of the U.S. Coast and Geodetic Survey, register No. 1858, scale 1:5000, surveyed in 1888 and 1889.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with nautical chart No. 348, scale 1:10,000, published 1936, corrected to 1 August 1949 and with chart No. 249, scale 1:40,000, published 1941, corrected to 1 August 1949.

**Items to be applied to nautical charts immediately:**

None.

**Items to be carried forward**

Fern Island (see paragraph 41c).

Respectfully submitted
5 August 1949

[Signature]
Raymond Glaser
Engineering Draftsman

Approved and forwarded
August 1949

[Signature]
Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office
49. NOTES FOR THE HYDROGRAPHER

Forms 524 have been submitted for the following recoverable topographic stations:

- RADIO TOWER, 1948
- GREAT HARBOR FRONT RANGE LT., 1948
- GREAT HARBOR REAR RANGE LT., 1948
- SINGLE PILE, 1948
- PRIVATE BEACON, 1948

Your attention is called to the limits of shallow areas which require completion.
PHOTOGRAHAMMETRIC OFFICE REVIEW
T-5744

1. Projection and grids  
2. Title  
3. Manuscript numbers  
4. Manuscript size  

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  
6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)  
7. Photo hydro stations  
8. Bench marks  
9. Plotting of sextant fixes  
10. Photogrammetric plot report  
11. Detail points  

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline  
13. Low water line  
14. Rocks, shoals, etc.  
15. Bridges  
16. Aids to navigation  
17. Landmarks  
18. Other alongshore physical features  
19. Other alongshore cultural features  

PHYSICAL FEATURES
20. Water features  
21. Natural ground cover  
22. Pleanotea contours  
23. Stereoscopic
instrument contours  
24. Contours in general  
25. Spot elevations  
26. Other physical
features  

CULTURAL FEATURES
27. Roads  
28. Buildings  
29. Railroads  
30. Other cultural features  

BOUNDARIES
31. Boundary lines  
32. Public land lines  

MISCELLANEOUS
33. Geographic names  
34. Junctions  
35. Legibility of the manuscript  
36. Discrepancy
overlay  
37. Descriptive Report  
38. Field inspection photographs  
39. Forms  

40. Raymond Flann  
Reviewer  
Joseph Heidt  
Supervisor, Review Section or Unit  

41. Remarks (off attached sheet)  
36. Discrepancy overlay - No discrepancy overlay
has been prepared. See paragraph 41 of descriptive report.  

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The
manuscript is now complete except as noted under item 43.  

Compiler  
Supervisor  

43. Remarks:
GEOGRAPHIC NAMES

Bachelor I.  
Beach Road  
Broadway  
Bull I. *  
Buzzards Bay *  
Cedar I.  
Coffin Rock  
Devils Foot I.  
Duck Pond  
East Gutter  
Eel Pond  
Elizabeth Islands  
Palmouth Harbor  
Flax Pond  
Fresh Water Pond (pending with USGS)  
Gansett Cove.  
Gansett Pts.  
Gate of Canso *  
Goat Neck *  
Grassy I. Ledge LT.  
Great Harbor  
Great Ledge  
Great Swamp  
Green Gate Wall  
Hadley Harbor  
Hadley Rock  
Inner Harbor  
Juniper Pts. *  
Jobs Neck  
Lackeys Bay  
Little Harbor  
New York, New Haven & Hartford  
Main Road  
Marys Lake  
Middle Gutten Gate  
Middle Ledge LT.  
Mill Pond  
Kink Point *  
Mink Pond  
Molasses Pond  
Monohansett I. *  
Monsod Bay *  
Naushon I.  
Nobska Point  
Nobska Point Ledge  
Nonameset I. *  
Nonameset Shoal  
Northwest Gate  
Northwest Gutter  
North Shore Pts.  
Oyster Pond  
Oyster Pond Road  
Parker Plate  
Penzance (applies to entire neck) (peninsula)  
Penzance Point  
Pine Island  
Quissett Harbor Pts.  
Quissett  
Quissett Harbor (pending with USGS)  
Quissett Ave. (approved by USGS in 1950)  
Ram Island  
Red Ledge  
Salt Pond  
Sheep Pen Hbr  
South Shore Pts.  
The Knob  
Timmy Point  
Timmy Pt. Shoal  
Uncater I.  
Veckatamese I. *  
Vineyard Sound *
48. GEOGRAPHIC NAMES (Continued)

✓ Weepocket Islands
✓ Weepocket-Rock
✓ West Gutter
✓ Witches Glen
✓ Woods Hole
✓ Woods Hole (town)
✓ Woods Hole Road
✓ Woods Hole Golf Course
✓ Yellow Gate Wall

* Name does not appear on manuscript.

** Known locally as "Gutter Canoe".

In the field inspection report is found a recommendation to add the geographic names, "Outer Thompson’s" (fishing grounds) and "Cunning Point". "Outer Thompson’s" could not be found on the names standard or on field photographs and "Cunning Point" was found to be an existing name, but located north of this survey and outside the sub-project limits.

* after name signifies Board decision (6th Report and later)

Above names are approved as shown (original check of names made on carbon copy of this report)

4-7-50
C.Y. Wil.
2. Completeness of Field Inspection:

No interior field inspection of marsh areas was noted on the photographs. The indication of foul area was too generalized.

31. Delineation:

The delineation or interpretation of various features was found to be either inadequate, misinterpreted or too generalized, and numerous corrections, changes, and additions were made. In addition, the discrepancies discussed in this report have been brought to the attention of the Baltimore Photogrammetric Office.

Marsh areas and brush covered swales (noted as marsh and brush) were added to the manuscript during review. Under the stereoscope these areas appeared to be low and wet. A comparison was made with registered topographic surveys and maps of other agencies to substantiate this interpretation.

Several offshore grass in water areas indicated on the map manuscript were deleted. Dark under-water discolorations in these areas had been noted by the field inspector as "Vegetation" or "Vegetation under Water" which were intended to be interpreted as under-water marine growth. In the few instances where offshore grass in water was found, the field inspector had noted these as "grass awash MWW" and they have been added to or retained on the manuscript.

In the few instances where the field inspector had indicated intermittent ponds these had been delineated as such by the compiler, but in other areas ponds comparable in size and appearance had been shown as perennial; this inconsistency was resolved by indicating all ponds perennial, and deleting the small and insignificant ponds for the following reasons: maps of other agencies as well as previous surveys by this Bureau indicate all ponds as perennial. It is believed that this is the truer representation, since most of these ponds have no surface drainage (field note) except for seepage and evaporation. A pond noted at latitude 41° 29.5' and longitude 70° 12.8' was deleted; no pond was found to exist here.

Questionable or unimportant trails were deleted after a stereoscopic study was made. Numerous buildings, which were exaggerated in size, were corrected, several were reshaped, a few added, and some deleted. A few streets in the vicinity of Woods Hole, which had been omitted, were added.

Sections of trails and a number of other features were found displaced horizontally; these were corrected.
In general, it was found that there was an absence of uniformity or consistency for the project area in the indication of shallow and/or foul areas, bluffs, marsh areas, the true location of existing rocks and in the indication of rocks that did or did not exist or were questionable.

Supplemental Data:

The following surveys of this Bureau were inspected for any additional information and were used to some extent to substantiate the interpretation of photographic detail:

1. T-191 bis (1933), Sheet 2 of 2, scale 1:10,000
2. T-192 bis (1933), Sheet 1 of 3, scale 1:10,000
3. T-1358 (1888-89), scale 1:5,000
4. T-1937 (1889) scale 1:10,000
5. T-6621 (1938), scale 1:5,000
6. T-6622 (1938), scale 1:5,000
7. T-6623 (1938), scale 1:10,000
8. H-6348 (1938) Scale 1:5,000
9. H-6549 (1938), scale 1:10,000
10. H-6350 (1938), scale 1:20,000

Shoreline and Alongshore Details:

The conventional symbol for the delineation of rocky bluffs was not used except in one or two isolated instances which were changed to agree with the remaining symbolization on this sheet and with the other sheets of this project. Additional bluffs also, were added to the manuscript, and all the bluffs then in the area were noted as being rocky. In a few cases, the field inspector had indicated the bluffs to be sand and rock. Also, the statement was found in the descriptive report submitted for topographic survey T-6621 (1938), that most of the shoreline along the Elizabeth Islands was rocky with numerous rocks along the foreshore broken up by occasional short stretches of sandbeaches.

It was found that the delineation of most of the foul areas by the field inspector was too generalized in that no distinction was made between foul areas and shallow areas not foul. And in some instances the selection of the photographs with the best definition to indicate the foul areas or the individual rocks was not made. All shallow areas outlined by the compiler were noted as being foul with rocks; these areas were checked and numerous changes were made to distinguish the foul from the shallow areas. In most instances, foul areas were discernible on the photographs, but this was not so of the shallow areas.

The numerous offshore rocks (bare and awash), which were located in position on the manuscript, were checked; practically all the rocks indicated by symbolization as bare at MHW were either deleted (if no rock was visible) or replaced by a rock awash symbol since no evidence on any field photograph was found to show that these rocks were bare at MHW.
3. **Submarine Cables**

In the vicinity of Cuttyhunk Island there are numerous "cable areas" charted. Local information and field observations reveal only two in existence, i.e., one on the north shore coming from New Bedford; and one at the eastern extremity coming from Nashawena, via the abandoned Coast Guard Station. It is assumed that all others were former Army Cables, now abandoned. However this has not been verified by contacting the Army. Therefore it is recommended that correspondence be initiated with the Army Engineers concerning the desirability of indicating said sections as "cable areas" on future charts.
except for a few rocks specifically located by the field inspector. The majority of the rocks in the area were not located individually by the inspector except for the notation on the field photograph that an area was foul with numerous rocks awash MHW. Where the location or existence of a rock was doubtful, it was deleted. Other rocks awash were added. Several cultural shoreline features (wharfs, concrete retaining walls, etc.) were refined so that they could be distinguished from the natural shoreline. See attached Supplement to Review Report.

36. Offshore Details:

In the vicinity of Middle Ledge, N of Nonamesset Island, rocks plainly visible on the photographs were added. No field inspection of this ledge area was found, however, charts and previous surveys indicate rocks in this area.

Pine Island, just N of Nonamesset Island, was indicated as a foul area mostly awash at MHW (field note), and within the foul limits a low-water line was added and noted as sand, gravel and rocks.

37. Landmarks and Aids:

Landmarks and aids are filed as Chart Letter 650 (1949) in the Nautical Chart Branch, Division of Charts.

39. Comparison with Existing Maps:

1. Woods Hole, Mass, Quadrangle; Sheet 6867 II SW, Army Map Service, 1949; scale 1:25,000
2. Naushon Island, Mass., quadrangle; sheet 6866 IV NE; Army Map Service, 1947; scale 1:25,000
3. USGS Naushon Island, Mass., quadrangle; Edition of 1944; reprinted 1946; scale 1:31,680

47. Comparison with Nautical Charts:

1. Nautical Chart No. 348; scale 1:10,000; published Jan., 1936; last correction 8-22-49
2. Nautical Chart No. 449; scale 1:40,000; published Sept., 1945; last correction 8-13-49

On the subject of cable areas, refer to item 3 under report "Notes to Compiler..." attached to the Descriptive Report for T-5746, Project Th-31(49). See app. page for copy of item 3. "Notes to Compiler"
Supplement to Review Report

During the review of this survey alongshore and offshore rocks shown on the manuscript have been verified by the reviewer against prior surveys listed under item 33 and/or the photogrammetric survey or by positive identification in stereopairs of photographs. Many offshore rocks have not been shown because they could not be positively identified on the photographs and were not located by the photogrammetric field party. Offshore rocks should be located by subsequent hydrographic surveys. The fore-shore is generally foul and boulder strewn with many bare rocks, rocks awash and sunken rocks. A foul line marks the limits of such areas.

S. V. Griffith
Chief, Review Section

Note: A few rocks have been deleted from the registered print of this map manuscript. These deletions are noted in the Division of Photogrammetry standards. They should be applied prior to the next printing. K.M. 6/4/51
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