Diag. Ch't. No. 1209-2.

Form 504

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-116 Office No. T-11223 a
T-11223 b

LOCALITY

State Massachusetts
General locality Nantucket Island
Locality Tom Nevers Head

1955-61

CHIEF OF PARTY
E.H. Kirsch, Chief of Party
W.E. Randall, Chief of Party
L.W. Swanson, Div. Of Photo., Wash., D.C.

LIBRARY & ARCHIVES

DATE February 1, 1965
INKED (red) notations refer to the 1961 revision work.

DATA RECORD

T - 11223 A and T - 11223 B
Refer to the "Summary" (page 6) concerning the registration of two
maps ("A" and "B") for this survey.

Project No. (II): 6116
Quadrangle Name (IV): 2

Field Office (II): Baltimore, Maryland
Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Washington, D. C.
Officer-In-Charge: S. W. Swanston

Instructions dated (II) (III):
- 30 April 1953
- 9 July 1953 (Supp. II)
- 15 December 1955
- 20 January 1956

Supplemental Instructions (office) PH-116 8 May 1961
PH-G102 Instructions 10 May 1961

Method of Compilation (III):
Stereo instruments
Kelsh and Stereoplanigraph

Manuscript Scale (III): 1:10,000
Stereoscopic Plotting Instrument Scale (III): 1:10,000

Scale Factor (III):

Date received in Washington Office (IV): 28 FEB 1955
Date reported to Nautical Chart Branch (IV):

Applied to Chart No.
Date: Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III): Mean Sea Level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
I.e., mean low water or mean lower low water

Reference Station (III): West Tangent RM No. 1 (MGS) 1937

Lat.: 41°14'50.15" Long.: 69°58'48.63"

Plane Coordinates (IV):

Y= X= Adjusted

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. L. McGlinchey  Date: July 1955

Planetary contouring by (II): None  Date:

Completion Surveys by (II): R. L. McGlinchey  Date: July 1955

Field Ed. Report (Refer to PH-6102) T-12500
Mean High Water Location (III) (State date and method of location):
Field Inspection July 1955 (T-11223 A)
1961 tide controlled, "infrared photography (T-11223 B)

Projection and Grids ruled by (IV): A. Riley  Date: 4 Jan. 1956

Projection and Grids checked by (IV):

Control plotted by (III): C. Cook  Date: Feb. 1956
   M. Keller
   J. Perrow

Control checked by (III): C. Cook  Date: Feb. 1956
   M. Keller
   J. Perrow

Radial Plot or Stereoscopic Control extension by (III):

Planimetry C. Cook  Date: Feb. 1956

Stereoscopic Instrument compilation (III):

Manuscript delineated by (III): C. Cook  Date: March 1956

Shoreline revised A. Wilson  Date: June 1961

Photogrammetric Office Review by (III):

Revision Review R. Glaser  Date: June 1961

Elevations on Manuscript
checked by (II) (III):
PHOTOGRAPHS (III)
Number Date Time Scale Stage of Tide
55-W-5028 thru 5033 15 March 1955 9:52 1:25,000 +0.3

COLOR
GL-5-6622 thru 6624 4-12-61 3:30 1:20,000 OBSERVED TIDE
GL-M-056 4-12-61 6:40 1:60,000 -0.1 (low water)

INFRARED
GL-L-1572 thru 1574 4-12-61 7:58 1:10,000 +0.15 (high water)

Tide (III)
Reference Station: Boston
Subordinate Station: Tom Nevers Head
Washington Office Review by (IV): S.G. Blount and Baker
Final Drafting by (IV):
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

* Shoreline revised 6.1 miles

Refer to the Descriptive Report for Nautical Chart Drawing 265 (T-12500) for new Forms 567

See Descriptive Report T-11221
Recovered: Identified:
Recovered: Identified:
Summary to Accompany Descriptive Reports

T-11221A and T-11221B
T-11123A and T-11123B

T-11121 and T-11123 are two of 40 similar surveys comprising Project FH-116. Two maps (labeled "A" and "B") are to be registered for each of the subject surveys. Project coverage includes (1) Cape Cod Bay shoreline (2) the entire east shore of Cape Cod, and (3) the islands of Martha's Vineyard and Nantucket. The subject maps cover the southeastern shore of Nantucket Island.

The shoreline on T-11121A and T-11123A was compiled from 1955 photographs (field inspected in 1955). This shoreline was used for Hydrographic surveys 8449 and 8450 (1958).

New photography - tide controlled infra red and color - was taken in 1961 for the purpose of constructing a new nautical chart (265). A chart compilation manuscript, registered as T-12500, provided the new topography for the chart. The details required for the new chart were revised on T-11221 and T-11223. T-111221B and T-11123B are the revised copies.

A report covering 1958 photogrammetric field work accomplished in conjunction with Hydrographic Surveys H-8449, H-8459, and H-8497 is bound with Descriptive Report T-11217 (A and B)
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR ( \varphi )-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>
</tr>
</thead>
<tbody>
<tr>
<td>WEST TANGENT R.M.1 (MGS) 1937</td>
<td>512, pg8 Mass 119</td>
<td>41-14-50.15</td>
<td>1547.0 (304.0)</td>
<td>1851.</td>
<td></td>
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<td>S.S. WEST TANGENT R.M.1, 1937</td>
<td></td>
<td>41-14</td>
<td>1627.6 (223.4)</td>
<td>1851.</td>
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</tbody>
</table>
FIELD REPORT

See Descriptive Report for T-11221.
31. **DELINEATION**

The Stereoplanigraph was used to detail this sheet.

32. **CONTROL** - not applicable

33. **SUPPLEMENTAL DATA** - not applicable

34. **CONTOURS AND DRAINAGE** - not applicable

35. **SHORELINE AND ALONGSHORE DETAILS**

The high and low water lines were clearly delineated in the field.

36. **OFFSHORE DETAILS** - not applicable

37. **LANDMARKS AND AIDS** - See Form 567, a part of this report.

38. **CONTROL FOR FUTURE SURVEYS** - not applicable

39. **JUNCTIONS**

T-11221, T-11222

40. **HORIZONTAL AND VERTICAL ACCURACY** - not applicable

46. **COMPARISON WITH EXISTING MAPS**

AMS V814 Sheet 6966 I SE
Siasconset, Mass.
1:25,000, 1947

47. **COMPARISON WITH NAUTICAL CHARTS**

Nautical Chart No. 1209
Nantucket Sound and Approaches
1:80,000, 1943

Submitted by: C. Cook

Approved by: M. Keller
SUPPLEMENTAL COMPILATION REPORT
T-11223

Ratio prints of the infrared photography were used to revise the high-water line by holding details common to both the manuscript and the photographs.

The approximate low-water line, breaker areas and the apparent edge of shallow areas were delineated by office interpretation on overlays from the 1:20,000 and 1:60,000 scale color photographs. These details were then transferred to the manuscript by use of the vertical projector.

Respectfully submitted
23 June 1961

R. Glaser
Carto. (Photo.)

Approved and forwarded

William E. Randall
CDR, C&G
Baltimore District Officer

Addendum:
Only those interior details needed for the compilation of Chart 265 have been added or revised from 1961 photography.
Review Report
T-11221A and T-11221B
T-11223A and T-11223B

61. General

Refer to the subject Descriptive Report "Summaries" concerning the registration of two maps each for surveys T-11221 and T-11223.

62. Comparison with Registered Topographic Surveys

Having been used for (1) shoreline for hydrographic surveys - maps T-11221A and T-11223A and (2) new nautical chart construction - maps T-11221B and T-1123B, the maps were not compared with older topographic surveys at the time of review. Manuscripts T-11221B and T-11223B or chart compilation manuscript T-12500 should be used for future chart construction.

63. Comparison with Maps of Other Agencies

Siasconset, Mass. 1:24,000 1951

No significant difference were noticed.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>H-8449</th>
<th>H-8450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale 1:10,000</td>
<td>Scale 1:10,000</td>
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<tr>
<td>Date 1958</td>
<td>Date 1958</td>
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</tbody>
</table>

T-11221A, T-11223A and T-11217A provided the shoreline for H-8450 and H-8449. Portions of the shoreline shown on the planimetric surveys were revised by field methods during hydrography. The revised shoreline, shown on the hydrographic survey was not transferred to the planimetric survey.

Some rock information shown on planimetric survey T-11221, near the entrance of Polpis Harbor, was not carried forward to the Hydrographic survey. Due to their locations and elevations the rocks are of no great importance.

65. Comparison with Nautical Charts

265 scale 1:40,000 Date 1963

Topography for this chart was provided through T-11221B,
T-11223B and other Ph-116 surveys; refer to the Descriptive Report "Summary" and other sections of this report.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and Bureau requirements.

Reviewed by:

[Signature]

S. G. Blankenbaker

Approved by:

[Signature]

Chief, Photogrammetry Division

Chief, Nautical Chart Division

E. W. Waugh 4-14-65

Chief, Photogrammetry Branch
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>F</th>
<th>G</th>
<th>H</th>
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<td>Nantucket Memorial Apt</td>
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</tbody>
</table>
I recommend that the following objects which have **have not** been inspected from seaward to determine their value as landmarks be charted on **(deleted form)**. The charts indicated.

The positions given have been checked after listing by __________________________

**E. H. Kirsch**
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Method of Location and Survey No.</th>
<th>Date of Location</th>
<th>Harbor Chart</th>
<th>Offshore Chart</th>
<th>Charts Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts</td>
<td>RADIO</td>
<td>Loran mast</td>
<td></td>
<td>41-14</td>
<td>1739.5</td>
<td>69-58</td>
<td>731.5</td>
<td>1927</td>
<td>photo</td>
<td>plot</td>
<td>1955</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and **nonfloating aids** to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11223 a & b

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1209</td>
<td>9-26-73</td>
<td>Paul L. Kent</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Revised shoreline &amp; same intow Yago thru ch 265 (T-12500), Consider Adequate, app</td>
</tr>
<tr>
<td></td>
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<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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</tbody>
</table>

|       |       |              | Full Part Before After Verification Review Inspection Signed Via Drawing No. |
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FORM C&GS-8382 SUPERSEDES ALL EDITIONS OF FORM C&GS-978 USCOMM-DC 8298-P08