T-11212

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>SHORELINE</th>
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<tbody>
<tr>
<td>Field No.</td>
<td>T-11212</td>
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<tr>
<td>Office No.</td>
<td>T-11212</td>
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<table>
<thead>
<tr>
<th>LOCALITY</th>
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<tbody>
<tr>
<td>State</td>
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<tr>
<td>General locality</td>
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<td>Locality</td>
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<table>
<thead>
<tr>
<th>1955 - 1961</th>
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<table>
<thead>
<tr>
<th>CHIEF OF PARTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. R. Rubottom, Chief of Field Party</td>
</tr>
<tr>
<td>Arthur L. Wardwell, Tampa Photo Office</td>
</tr>
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<table>
<thead>
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<th>LIBRARY &amp; ARCHIVES</th>
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</thead>
<tbody>
<tr>
<td>DATE</td>
</tr>
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</table>

COMM-D C 51300
PROJECT NO. (III):

27190 (PH-116)

FIELD OFFICE (III):
East Providence, R.I.

CHIEF OF PARTY
I.R. Rubottom

PHOTOGRAMMETRIC OFFICE (III):

Tampa, Fla. (1956-1957)
Baltimore, Md. (1961)
Washington, D.C. (1965)

OFFICER-IN-CHARGE
A.L. Mardwell
W.E. Randall
J.E. Waugh

INSTRUCTIONS DATED (III):

- PH-116
- Instructions, Field, Supplement II, 9 July 1953
- Instructions, Field, Supplement III, 11 Aug. 1953
- Amendment to instructions 30 Nov. 1955
- Instructions, Field, Supp. IV, 17 April 1956
- Instructions Office 21 May 1957
- PH-102

Instructions dated 10 May 1961

METHOD OF COMPILED (III):
Basic - Kelsh plotter
Revision - graphic (1961); B-8 plotter (1965)

MANUSCRIPT SCALE (III):
1:10,000

STEREOGRAPHIC PLOTTING INSTRUMENT SCALE (III):
Kelsh 1:4,600

DATE RECEIVED IN WASHINGTON OFFICE (IV):
Mar. 26, 1958

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):
N.A. 1927

REFERENCE STATION (III):
Alfred

LAT.:
41° 27'14.800"

LONG.:
70° 38'54.230"

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) 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.
DEScriptive REPORT - DATA RECORD

Areas contoured by various personnel
(Show name within area)
(I) (II) (III)

SHORELINE
DESCRIPTIVE REPORT - DATA RECORD

T-11212

FIELD INSPECTION BY (III):

| J.R. Smith          | DATE:  
|---------------------|-------
| April and June 1956 |

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

June 1956 air photo compilation
Revised in 1961 with 1961 infrared photography (tide controlled)

PROJECTION AND GRIDS RULED BY (IV):

| J.B. Phillips      | DATE:  
|--------------------|-------
| 20 May 1957        |

PROJECTION AND GRIDS CHECKED BY (IV):

| J.B. Phillips      | DATE:  
|--------------------|-------
| 20 May 1957        |

CONTROL PLOTTED BY (III):

| E.T. Ogilby        | DATE:  
|--------------------|-------
| Nov. 1957          |

CONTROL CHECKED BY (III):

| R.E. Smith         | DATE:  
|--------------------|-------
| Nov. 1957          |

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

| Washington Office - Stereoplanigraph bridge Tampa, (E.T. Ogilby) - Kelsh | DATE:  
|---------------------------------------------------------------------------|-------
| 1957                                                                       |

STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY

| Kelsh  | E.T. Ogilby | DATE:  
|--------|-------------|-------
|        |             | Nov. 1957 |

MANUSCRIPT DELINEATED BY (III):

| E.T. Ogilby | DATE:  
|-------------|-------
|             | Dec. 1957 |

| J.C. Richter (revision) | DATE:  
|------------------------|-------
|                         | 1961  |
|                         | 1965  |

SCRIBING BY (III):

| J.C. Richter (revision) | DATE:  
|------------------------|-------
|                         |       |

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

| M.M. Slavney | DATE:  
|--------------|-------
|              | Jan. 1958 |

REMARKS:

|                   |       |
|                   |       |
### PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>55W-5119</td>
<td>15 Mar. 1955</td>
<td>10:52</td>
<td>1:25,000</td>
<td>1.0 above MLW</td>
</tr>
<tr>
<td>55W-5120</td>
<td>15 Mar. 1955</td>
<td>10:52</td>
<td>1:25,000</td>
<td>1.0 above MLW</td>
</tr>
<tr>
<td>61S-7782</td>
<td>5 May 1961</td>
<td>tide ent'ld</td>
<td>1:15,000</td>
<td>MLW</td>
</tr>
<tr>
<td>61S-7783</td>
<td>5 May 1961</td>
<td>tide ent'ld</td>
<td>1:15,000</td>
<td>MLW</td>
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<tr>
<td>61S-7784</td>
<td>5 May 1961</td>
<td>tide ent'ld</td>
<td>1:15,000</td>
<td>MLW</td>
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<td>61L-1505</td>
<td>9 April 1961</td>
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<td>+0.4 ft. (MHW)</td>
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<td>61L-1506</td>
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<td>61L-1507</td>
<td>9 April 1961</td>
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<td>1:30,000</td>
<td>+0.4 ft. (MHW)</td>
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### TIDE (III)

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<th>PREDICTED (1955)</th>
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<table>
<thead>
<tr>
<th>SUBORDINATE STATION</th>
<th>Off Lake Tashmoo</th>
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</thead>
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<table>
<thead>
<tr>
<th>WASHINGTON OFFICE REVIEW BY (IV):</th>
<th>S.G. Blankenbaker</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>DATE:</td>
</tr>
<tr>
<td></td>
<td>Oct. 1965</td>
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### NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

<table>
<thead>
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<th>NUMBER</th>
<th>RECOVERED</th>
<th>IDENTIFIED</th>
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<tbody>
<tr>
<td>9</td>
<td>2</td>
<td>2</td>
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</tbody>
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### NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

### NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

### REMARKS:
Summary to Accompany Descriptive Reports  
T-11212 through T-11215  
T-11218 and T-10641 through T-10643

The subject surveys are a part of Project PH-116. The project, comprised of forty shoreline surveys, scale 1:10,000, covers (1) Cape Cod Bay shoreline, (2) approximately one half of the east shore of Cape Cod, (3) No Mans Land Island, and (4) the islands of Nantucket and Martha's Vineyard. The subject maps cover Martha's Vineyard and No Mans Land Islands.

Several methods have been used in compiling these maps; and, in addition, they have been revised several times by both graphic and B-8 methods. This summary gives a general account of the compilation and revision procedures and makes recommendations concerning possible future use of the maps.

For the original basic compilations, supplemental control was established in part by stereoplanigraph bridge. Outside of the bridged area Kelsh models were set on identified triangulation stations. Map information on blackline impressions of T-8081, T-8082, and T-8083 was either revised or verified using a combination of control established by the bridge and Kelsh models. PH-116 designations for the revised maps are T-10641, T-10642, and T-10643. New projections were ruled for T-11212 through T-11215, and T-11218.

The maps were revised by graphic methods with 1961 infrared and color photography-in 1961 to provide topography for chart drawings 261, scale 1:20,000 and 264, scale 1:40,000, (Project 6102).

At the time PH-6102 was planned there were no requirements for support of hydrography. Requirements for hydro support in 1965 are discussed in subsequent sections of this Summary. As noted in the Descriptive Reports for the PH-116 maps, errors in the positions of some bridge points were found during compilation. Kelsh models, adjusted to identified control, were used to compile the areas improperly controlled by the bridge.

The revised shoreline maps were reduced and applied in the Photogrammetry Division to new chart bases for Charts 261
and 264. Copies of the bases (Chart Compilation manuscripts) were registered as T-12497 and T-12499.

Prior to registration and to forwarding copies to the Marine Charts Division, the new maps (T-12497 and T-12499) were reviewed in the Washington Office. Considerable rock information was added at that time - directly to new map T-12499 by vertical projector.

Copies of the PH-116 shoreline maps were required for hydro support in 1965. Due to the incompleteness of rock information, applied during revision in 1961, the along-shore areas of maps T-11212 through T-11215, and T-11218 were again revised with the 1961 color photography using a B-8 instrument. Maps T-10641 through T-10643 were complete, requiring no further work.

The maps required for hydro support were: T-11214; T-11215; T-11218; T-10642; and T-10643. Additional work accomplished in 1965 included the revision of shoreline for the preceding maps - 1964 panchromatic photography by B-8 instrument. Revision surveys RS-770 (T-11214), RS-771 (T-11215), RS-772 (T-11218), RS-816 (T-10642), and T-10643A (T-10643) were produced.

Except for T-10643A the revisions surveys reflect only shoreline changes that occurred between 1961 and 1964. An error in datum in T-10643 was found during application of the 1964 photography. The substandard area was re-plotted (radial plot) with the 1964 photography. The revision survey, T-10643A, reflects both the corrected datum and shoreline changes that occurred between 1961 and 1964.

In compiling T-10643A only the features visible on the 1964 panchromatic photography were shown. During the subject final review it was noted that some features (three rocks, piers, wrecks, etc.) shown on T-10643 are not shown on T-10643A. The three rocks were carried forward to the revision survey during review; however, a field edit would be necessary to resolve all discrepancies in cultural features located along the shoreline - portions of some piers, as an example, may still exist as underwater hazards.

T-10643 will be registered since it is the source of topography for Charts 261 and 264.

The error in datum in map T-10643 and the difference in rock information between two registered sources covering
the west side of Martha's Vineyard Island will be called to the attention of the Marine Charts Division.

During the 1965 revision of the shoreline maps covering the west side of Martha's Vineyard Island (1961 photography, by B-8 instrument) evidence of possible local errors in datum approaching the allowable error of 0.5 mm were noted. While the maps to be registered meet Bureau requirements (hydrography and charting) for accuracy, further revision may possibly result in substandard products.

D.T. Blankentohn
2. AREAL FIELD INSPECTION

Marthas Vineyard and Chappaquiddick Islands are located about three miles south of the westerly end of Cape Cod. No Mans Land Island is located about three miles south of the westerly end of Marthas Vineyard. Edgartown Harbor and Katama Bay separate Marthas Vineyard and Chappaquiddick Islands.

Marthas Vineyard is well settled, especially along its northern shore and is popular as a summer resort.

The southern shore is generally low and fringed with ponds.

The area is adequately served by a system of hard surface and secondary roads. Transportation to the mainland can be had by ferry steamer or by airline. There are no railroads on the islands.

The salient features of the islands are Oak Bluffs, Edgartown and Vineyard Haven, Edgartown Harbor, Vineyard Haven Harbor and Katama Bay.

No Mans Land Island is unsettled and is used as a firing range by the Navy. New construction was in progress at the time of field inspection.

Single lens photographs of Marthas Vineyard taken in March 1955, were adequate. The definition was clear and no interpretation difficulties were encountered. No Mans Land Island was inspected on Production and Marketing Administration single lens photographs DFO-3K-43 and 44. Interior features were not inspected due to construction but are to be compiled from new photography flown after construction is complete.

Field inspection is complete and no items or areas were specifically left to be completed during field edit.

Field inspection was accomplished on the following field photographs:

55-M-5070 through -5083, -5086, -5093, -5094, -5096, -5098, -5100 through -5102, -5106, 5111 through -5113, -5115, -5120 through -5122, DFO-3K-43 and 44.
3. HORIZONTAL CONTROL

One third order triangulation station was established, EDGARTOWN HARBOR LIGHT, 1936. See Special Report, Third-Order Triangulation, Project 27190.

Two third order traverse stations of the Massachusetts Geodetic Survey, 3065A (MGS) 1936 (T-9050) and 30L (MGS) 1936 (T-9082) were identified.

All Coast and Geodetic Survey stations were searched for and reported on Form 526.

Stations reported lost are as follows:

T-9050

BOMMANS POINT, 1845
CHAPPAQUINSETT HYDROGRAPHIC, 1887
COTUIT NECK, 1845
EAST CHOP, 1845
HAVEN GATE FLAGSTAFF, 1904
HIGHLAND HOUSE NORTH TOWER, 1875
HOLMES HOLE SPIRE, 1844
HOLMES HOLE WINDMILL, 1835
OBSERVATORY WITH RED ROOF FLAGSTAFF, 1875
POND, 1928
PROSPECT HOUSE CUPOLA, 1875
VINEYARD HAVEN WATER TOWER, 1904
VINEYARD HAVEN WEATHER BUREAU FLAGSTAFF, 1904
WEST CHOP 2, 1875
WEST CHOP HYDROGRAPHIC, 1887

T-9051

FLYNN, 1949
NAVY AIRPORT TANK, 1943
WATCHA POND, 1845

T-9082

CENTER BETWEEN TWO NAST (E.END) 1943
CENTER NAST OF FIVE (E.END) 1943
EAST EDGARTOWN, 1943
EDGAR (MGS) 1936
HERRING POND, 1845
KATOMA, 1949
TRUCK, 1945
T-11212:
ALFRED, 1887
MACKINLEY HOTEL CUPOLA, 1904
NORTON B'U'LEDER, 1943
NORTON POINT, 1887
NORTON POINT HYDROGRAPHIC, 1887
PEAK, 1935
TASHMOO, 1887

T-11213:
CAPE HIGGON HYDROGRAPHIC, 1887
CEDAR TREE NECK, SIGNAL SERVICE, FLAGSTAFF, 1887
MIDDLETON CHURCH SPIKE, 1887
WEST ZISBURY, 1943

T-11214:
BARKERS (G.H.) HOUSE CHIMNEY, 1887
LOBSTERVILLE FLAGSTAFF, 1887
PROSPECT CLIFF, HYDROGRAPHIC, 1887
STEWARTS HOUSE, CHIMNEY, 1887

T-11215:
CENTER BETWEEN TWO MASTS (W. END) 1943
NASCA QUITSA CLIFF, 1845
TOWER, 1943
THICK (W. END) 1943
WEQUOBSKA, 1887

T-11218:
NO MANS LAND FLAGSTAFF, 1887
NO MANS LAND WEST, 1887
SQUIDHOOKET, 1887

One station, NAVY AIRPORT TANK, 1949, which is reported "lost" on Form 526 was identified for use in control of the radial plot.

4. VERTICAL CONTROL

All tidal bench marks within the area were searched for. No other bench marks were established.
5. **CONTOURS AND DRAINAGE**

Contours inapplicable.

The drainage is chiefly through small perennial streams from swamp into the larger ponds and bays. The streams are distinct on the photographs.

6. **WOODLAND COVER**

Woodland cover has been classified in accordance with reference 5423 of the Topographic Manual, Part II.

7. **SHORELINE AND ALONGSHORE FEATURES**

The shoreline was inspected from a skiff or by walking along the shore. The shoreline is predominately fast with the exception of a few small marsh areas mostly in the inland bays and ponds.

The mean high water line has been indicated in numerous places on the photographs. This along with measurements from identifiable points along the sand beaches should enable the compiler to delineate the mean high water line without difficulty.

The low water line is usually parallel and close to the mean highwater line. The exception to this is in Katama Bay where the entire shoreline along the south side is constantly changing and a shallow area northwest of Eel Pond.

The foreshore is mostly sand beaches with some rocky foreshore along the steep bluffs.

All bluffs and cliffs have been indicated on the photographs.

The shore ends of all submerged cables have been identified on the photographs.

8. **OFFSHORE FEATURES**

All rocks which were visible during the course of shoreline inspection were noted on the photographs.

No other features to be investigated by the hydrographic party were noted.
9. LANDMARKS AND AIDS

All landmarks for nautical charts, aeronautical aids and aids to navigation have been reported on Form 567.

10. BOUNDARIES, MONUMENTS AND LINES

No discrepancies in boundaries were noted during the course of field work.

11. OTHER CONTROL

No other control was established.

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with Paragraph 541 of the Topographic Manual, Part II and Project Instructions.

There are two airports on Martha's Vineyard, Martha's Vineyard Airport and a Trade Wind Flying Service. The latter is a small airport near Oak Bluffs, the runways are sod and will only accommodate small aircraft.

There are no overhead cables over navigable waters within the area.

All bridges were measured and the data noted on the photographs.

The following clearances are of bridges within the area as computed by the field party:

<table>
<thead>
<tr>
<th>Miles above mouth</th>
<th>Body of Water</th>
<th>Type</th>
<th>Hor. Cl.</th>
<th>Ver. Cl. (above MHW)</th>
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<tbody>
<tr>
<td>0</td>
<td>Lagoon Pond</td>
<td>Bascule</td>
<td>32.0 ft.</td>
<td>16.3 ft.</td>
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<tr>
<td>.05</td>
<td>Sengekontacket Pond</td>
<td>Fixed</td>
<td>15.0 ft.</td>
<td>7.4 ft.</td>
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<td>.05</td>
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<td>&quot;</td>
<td>13.5 ft.</td>
<td>11.6 ft.</td>
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<tr>
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<td>Poncha Pond</td>
<td>&quot;</td>
<td>14.4 ft.</td>
<td>7.2 ft.</td>
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13. GEOGRAPHIC NAMES

No discrepancy in Geographic Names were noted during the course of field work.
14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Data, Third Order Triangulation, Project 27190, forwarded to Washington 30 November 1956 in Package No. 57-022, Form 567, forwarded to Washington 6 December 1956 in Package No. 57-029.

Submitted
Leo F. Beegnet
Cartographic Survey Aid

Approved
Ira R. Robottom
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</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>
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<tr>
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<td>12</td>
<td>MAP2</td>
<td>166.795.00</td>
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<td>N. SHORE CHURCH</td>
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<td>31</td>
<td>159.639.12</td>
<td>154.066.39</td>
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<td>CHURCH SPIRE</td>
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<tr>
<td>TASHMOO 1887</td>
<td>G.S.</td>
<td>792</td>
<td>41.27 11.17</td>
<td>344.7 (1506.3)</td>
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<tr>
<td>ALFRED 1887</td>
<td>G.S.</td>
<td>192</td>
<td>41 27 14.800</td>
<td>456.6 (1394.4)</td>
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<td>NORTON BOULDER P. C. 1943</td>
<td>G.S.</td>
<td>2-11</td>
<td>70 38 54.330 12.587</td>
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**SCALE FACTOR**

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<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>FORWARD (BACK)</td>
</tr>
<tr>
<td></td>
<td>FORWARD (BACK)</td>
</tr>
</tbody>
</table>

1 FT. = 3048006 METER

COMPUTED BY: 5/21/57
CHECKED BY: C. Cook 5/21/57

M-2366-12
PHOTOGRAMMETRIC PLOT REPORT

Stereoplanigraph Bridge Report submitted with T-11215; see Item 32 Control.

31. DECLINATION

The Welch Plotter was used. Field inspection was satisfactory.

32. CONTROL

Triangulation stations were held in models 55W5119 - 55W5120 and 55W5121 - 55W5122; points were dropped to control model 55W5120 - 55W5121.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated according to field inspection and photograph interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate for delineation of the shoreline and alongshore features. The approximate low-water line was delineated according to field inspection.

36. OFFSHORE DETAILS

The submerged communication cable was delineated by computing an inverse for azimuth between the entry point at lat. 41°27.70 long. 70°38.65 and Nobska Pt. Lighthouse, the entrance point on the adjoining survey.

The only other offshore details are rocks.
37. **LANDMARKS AND AIDS**

None.

38. **CONTROL FOR FUTURE SURVEYS**

None.

39. **JUNCTIONS**

Junctions with T-1064 to the east and T-11213 to the south are in agreement. The junctions with surveys to the west and north fall in the water; the numbers of these surveys are not in the Tampa Office. The submerged cable discussed under Item 36 is the only detail to be junctioned across these water areas.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with Geological Survey Quadrangle VINEYARD HAVEN, MASS; scale 1:31,680, surveyed 1942, revised 1951. Only minor differences were noted.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with C&GS Chart No.1210, scale 1:80,000, 6th edition Feb.10,1943; revised Aug. 12, 1957. The map listed under Item 46 may be the source of topography for the chart, because the same differences were noted.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None.

**ITEMS TO BE CARRIED FORWARD**

None.

Approved and Forwarded:
A. L. Wardwell, Chief of Party
Ratio prints of the infrared photography were used to revise the highwater line by holding to common details.

No low water line was compiled except at Lake Tashonoo. The low water line from the color photographs was found to be very close to the high water line.

Alongshore bluffs necessary for the compilation of Chart 264 were revised or compiled.

Respectfully submitted
19 September 1961

John C. Richter
Carto. (Photo.)

Approved and Forwarded

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

MOST OF THE CORRECTIONS WERE APPLIED TO A CRONAR (ADVANCE) CORS - WORK ACCOMPLISHED AS A PART OF G102 PH
PHOTOGRAMMETRIC OFFICE REVIEW

T. 11212

1. Projection and grids M.M.S
2. Title M.M.S
3. Manuscript numbers M.M.S
4. Manuscript size M.M.S
5. Classification label Unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline M.M.S
13. Low-water line M.M.S
14. Rocks, shoals, etc. M.M.S
15. Bridges XX
16. Aids to navigation XX
17. Landmarks XX
18. Other alongshore physical features M.M.S
19. Other alongshore cultural features M.M.S

PHYSICAL FEATURES

20. Water features M.M.S
21. Natural ground cover M.M.S
22. Planetary contours XX
23. Stereoscopic instrument contours XX
24. Contours in general XX
25. Spot elevations XX
26. Other physical features M.M.S

CULTURAL FEATURES

27. Roads M.M.S
28. Buildings M.M.S
29. Railroads XX
30. Other cultural features M.M.S

BOUNDARIES

31. Boundary lines XX
32. Public land lines XX

MISCELLANEOUS

33. Geographic names M.M.S
34. Junctions M.M.S
35. Legibility of the manuscript M.M.S
36. Discrepancy overlay M.M.S
37. Descriptive Report M.M.S
38. Field Inspection photographs M.M.S
39. Forms M.M.S
40. M. M. Slavens

William A. Basine
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

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:
REVIEW REPORT
T-11212, T-11213, T-11214, T-11215, T-11218
October 1965

62. Comparison with Registered Topographic Surveys

| T-11212 | No. 1802 - 1:10,000 - 1888 |
| T-11212 | No. 2390 - 1:20,000 - 1897 |
| T-11212 | No. 1845 - 1:10,000 - 1888 |
| T-11213 | No. 1845 - 1:10,000 - 1888 |
| T-11213 | No. 2390 - 1:20,000 - 1897 |
| T-11214 | No. 1844 - 1:2,500 - 1888 |
| T-11214 | No. 1846 - 1:10,000 - 1888 |
| T-11214 | No. 2389 - 1:20,000 - 1897 |
| T-11215 | No. 2389 - 1:20,000 - 1897 |
| T-11215 | No. 2391 - 1:20,000 - 1898 |
| T-11218 | No. 1856 - 1:5,000 - 1888 |
| T-11218 | No. 1898 - 1:20,000 - 1898 |

The PH-116 surveys supersede the prior surveys for charting purposes in the common areas. For charting at scale 1:40,000 or smaller, T-12499, scale 1:40,000, 1961, should be used for interior details in the common areas (refer to side heading 65).

63. Comparison with Maps of Other Agencies

USGS quadrangles - 1:24,000 scale

- Vineyard Haven, 1961
- Nauset Island, 1949
- Squibnocket, 1951

No significant difference were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts
Chart 264, scale 1:40,000, revised June 8, 1964

T-12499 (side heading 62) is the source of basic topography for this chart. Refer to the Descriptive Report "Summary" for the subject maps concerning the revision (1961 color photography, by B-8 instrument in 1965) of rock information on the maps subsequent to their application to T-12499.
66. Adequacy of Results and Future Surveys

These maps meet the National Standards of Map Accuracy and Bureau requirements. Refer to the Descriptive Report Summary concerning future use of these maps as bases for further revision.

Reviewed by:

S. G. Blankenbaker

Approved by:

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

Chief, Nautical Chart Division
Cranberry Bog
James Pond
Lake Tashmoo
Lamberts Cove
Lamberts Cove Road
Makoniky Head
Martha Vineyard
Norton Boulder
Norton Point
Paul Point
Pilot Hill
Vineyard Haven Road

A. J. Waight
Geographic Branch
## TIDE COMPUTATION

**PROJECT NO. Ph-27/90-11212**

**Time and date of exposure:** 1/8/92 - 1/26/92

**Date of field inspection:** 6/26/56

**Reference station:** Newport, R.I.

**Subordinate station:** Off lake Tashmoo

**Mean range:** 36 - Spring 4.5

**Ratio of ranges:** 0.16

### Tide Data

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height</th>
<th>Time</th>
<th>Height</th>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>h. m.</td>
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<td></td>
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<tr>
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<td>1.45</td>
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<tr>
<td>Low tide</td>
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<td></td>
<td>2.53</td>
<td>0.1</td>
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<tr>
<td>Duration of rise or fall</td>
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<td>1.87</td>
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### Tide Calculations

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<th>Time H. T. or L. T.</th>
<th>Required time</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
<th>Feature bares</th>
<th>Photo No.</th>
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<td>2 53</td>
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**Computed by:** [Signature]

**Checked by:** [Signature]

**Notes:**
- Feature bares:
  - 1.0
  - 0.9
  - 1.0
  - 1.0
  - 1.0
  - 1.0

**Photo Numbers:**
- 55W5119
- 55W5119
- 55W5119
- 55W5120
- 55W5120
- 55W5120

**References:**
- H-2617-12
## Tide Computation

**Project No. Ph 2790 T 11212**

**Time and date of exposure:** 16:52, 15 March 1965  
**Reference station:** Newport, R.I.  
**Date of field inspection:**  
**Subordinate station:** Off Lake Tashmoo  
**Mean range:** 2.1  
**Spring Mf** 2.5  
**Ratio of ranges:** 2.60

### High Tide Data

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<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of Ranges</th>
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</thead>
<tbody>
<tr>
<td>High tide</td>
<td>14:10</td>
<td>2.3 x 1.4</td>
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<tr>
<td>Low tide</td>
<td>6:55</td>
<td>0.4 x 0.2</td>
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<tr>
<td>Duration of rise or fall</td>
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### Corrected Time Table

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<th>Height</th>
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<tr>
<td>Time difference</td>
<td>+1:45</td>
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<td>Corrected time at Subordinate station</td>
<td>14:10</td>
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### Feature Bares

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<th>Feature</th>
<th>Stage of Tide Above MLW</th>
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<td>Feature above MLW</td>
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### Photo No.

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<td>55W 5120</td>
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<td>T-11214</td>
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Tabulation of Bridge Clearance Discrepancies on Project 116—Marthas Vineyard, Mass., by the Tampa Office
To: The Director  
Coast and Geodetic Survey  
Washington 25, D.C.

Subject: Boundary, Martha's Vineyard State Forest, Project 27190

Reference: Assistant Director's letter 733-dmm, Examination of Field Project 27190, Martha's Vineyard and Little Pleasant Bay, dated 4 February 1957

The statement in Field Inspection Report, T-11212, Item 10, regarding boundaries is in error. It should read ...... "No discrepancies were noted in boundaries as presently mapped on U.S. Geological Survey topographic quadrangle maps except that the boundary of Martha's Vineyard State Forest has been changed due to recent sale of a tract of land. This boundary is now as shown on the field inspection photographs according to information furnished by state forest officials."

Extra copies of this letter are being furnished for insertion in the Field Inspection Report, T-11212.

/S/ Ira R. Aubotton  
Ira R. Aubotton  
Comdr., USC&GS  
Chief of Party


date

### 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>
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<td>4/15/69</td>
<td>H. Quinn</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 20 - Examined, no correction.</td>
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<td>1209</td>
<td>10/19/69</td>
<td>J. Beecher</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. Examined shorelines only.</td>
</tr>
<tr>
<td>249</td>
<td>3-20-73</td>
<td>J. Bailey</td>
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<tr>
<td>1209</td>
<td>8-7-73</td>
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<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. No correction. Consider Adequately Applied. Superseded R by RS 918.</td>
</tr>
</tbody>
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*Form CGS-8352 supersedes all editions of form CGS-975.*

*USCGM-DC 8899-P03*