**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th><strong>Type of Survey</strong></th>
<th>SHORELINE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Field No.</strong></td>
<td>Office No. 10643 10643A</td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th><strong>State</strong></th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General locality</strong></td>
<td>Martha's Vineyard</td>
</tr>
<tr>
<td><strong>Locality</strong></td>
<td>Edgartown</td>
</tr>
</tbody>
</table>

**1955 - 1961**

**CHIEF OF PARTY**

I.R. Rubottom Chief of Field Party
J.E. Waugh, Tampe (1957); W.O. (1964)
W.R. Randall, Baltimore (1961)

**DATE**

*10643A: date 1964*
DESCRIPTIVE REPORT - DATA RECORD

T-10643 and T-10643A

PROJECT NO. (III):

PH-116

FIELD OFICE (III):

"East Providence, R.I.

PHOTOGRAMMETRIC OFFICE (III)

T-10643 Tampa, Fla., 1957

T-10643 Baltimore, Md., 1961 revision

T-10643A Washington, D.C., 1965

CHIEF OF PARTY

I.R. Rubottom

OFFICER-IN-CHARGE

J.E. Waugh

J.E. Waugh

W.E. Randell

INSTRUCTIONS DATED (III) (III):

Field, Supp. II, 9 July 1953

Field, Supp. III, 11 Aug. 1953

Office, 3 Feb., 1954

Office, 12 Feb., 1954

Office, Amendment, 30 Nov. 1955

Office, Supp., 8 May 1961

Field, Supp. IV, 17 April 1956

METHOD OF COMPILATION (III):

10643 - Kelsh

10643A - B-8 instrument

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

Kelsh 1:4,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOMETRIC DATUM (III):

N.A. 1927

REFERENCE STATION (III):

Sampson 1845

LAT.:

LONG.:

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 137,771.63 ft.  X = 204,375.08 ft.

Mass.

Island

VERTICAL DATUM (III):

MHW

Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

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

**T-10643 and T-10643A**

**FIELD INSPECTION BY (II):**

J.R. Smith  

**DATE:**  

April - June 1956

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

Field measurements, June 1956  
Office interpretation, April 1961 (revision, infrared photography)  
Office interpretation, Oct. 1964 (T-10643A), infrared photography

**PROJECTION AND GRIDS RULED BY (IV):**

W.O.

**PROJECTION AND GRIDS CHECKED BY (IV):**

W.O.

**CONTROL PLOTTED BY (III):**

Washington, D.C.

**CONTROL CHECKED BY (III):**

R.E. Smith  

**R.E. Smith**

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

T-10643: Stereoplanigraph bridge - C.E. Cook; T-10643:  
Kelsh models - R.E. Smith; T-10643A: Radial Plot - J.P. Battley  

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

R.E. Smith  

J.P. Phillips (T-10643A)

**CONTURS**

DATE:  

July - Aug 1957 *1965

**MANUSCRIPT Delineated by (III):**

R.E. Smith  

J.C. Richter (Shoreline revision)  

J. Phillips (T-10643A)

**SCIBING BY (III):**

DATE:  

June 1961

**PHOTOGRAHMETRIC OFFICE REVIEW BY (III):**

J.A. Giles  

R. Glaser (1961 revision review)  

J.P. Battley (T-10643A)

**DATE:**

Sept. 1957  

June 1961  

1965

**REMARKS:**
DESCRIPTIVE REPORT - DATA RECORD

Number          Date            Time  Scale       Stage of Tide
55-W-5069       15 March 1955  1018  1:20,000   0.6
55-W-5070       =               1018  =         0.6
55-W-5071       =               1019  =         0.6
55-W-5072       =               1020  =         0.6
55-W-5101       =               1040  =         0.3
55-W-5102       =               1040  =         0.3
55-W-5103       =               1041  =         0.3
55-W-5104       =               1041  =         0.3
55-W-5106       =               1043  =         0.3

PHOTOGRAPHS (III)

Tide (III)

Reference Station: NEWPORT, BOSTON *
Subordinate Station: Wasque Point, Chappaquiddick I.
Subordinate Station: Cape Page, Chappaquiddick I.

Washington Office Review by (IV): S. G. Blankenbraker

Date: OCT. 1965

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 42 miles (scaled) *
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 18 Recovered: 10 Identified: 7
Number of BMs searched for (II): 4 Recovered: 4 Identified: 1
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks: Two (2) Massachusetts Geodetic Survey traverse stations are included in triangulation stations searched for and recovered. One (1) M.G.S. station identified.

All bench marks searched for were tidal bench marks.

Revised Photographs

<table>
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<tr>
<th>COLOR</th>
<th>61-S-6688 thru 6690</th>
<th>61-S-6691 thru 6701</th>
<th>61-S-6722</th>
<th>61-S-7821</th>
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<tr>
<td></td>
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<td>4-15-61</td>
<td>4-15-61</td>
<td>5-5-61</td>
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<tr>
<td>INFRA-RED</td>
<td>4-9-61</td>
<td>5-5-61</td>
<td>61-L-1535,1526</td>
<td>61-L-1541 thru 1544</td>
</tr>
<tr>
<td>61-L-1548 thru 1550</td>
<td>4-9-61</td>
<td>5-5-61</td>
<td>61-L-1548 thru 1550</td>
<td>4-9-61</td>
</tr>
</tbody>
</table>

OBSERVED TIDE:

+ 0.4 (low-water)
+ 0.4 (low-water)
+ 0.4 (low-water)
+ 0.1 (low-water)
+ 0.4 (high-water)
- 0.2 (high-water)
- 0.2 (high-water)

COMM-DC-57842

* 36 Miles shoreline revised

See page 4A - 1964 photographs
**PHOTOGRAPHS (III)**

<table>
<thead>
<tr>
<th>NUMBER</th>
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<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>RA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64-W-5272 thru 5276</td>
<td>10/4/54</td>
<td>09:00</td>
<td>1:20,000</td>
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<tr>
<td>5286 thru 5290</td>
<td>10/4/54</td>
<td>09:11</td>
<td>1:20,000</td>
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<tr>
<td>5295 thru 5299</td>
<td>10/4/54</td>
<td>09:22</td>
<td>1:20,000</td>
<td></td>
</tr>
</tbody>
</table>

**TIDE (III)**

| REFERENCE STATION: | \_ \_ \_ \_ \_ \_ \_ \_ | \_ \_ \_ \_ \_ \_ \_ \_ | \_ \_ \_ \_ \_ \_ \_ \_ |
| ORDINATE STATION:  | \_ \_ \_ \_ \_ \_ \_ \_ | \_ \_ \_ \_ \_ \_ \_ \_ | \_ \_ \_ \_ \_ \_ \_ \_ |
| SUBORDINATE STATION: | \_ \_ \_ \_ \_ \_ \_ \_ | \_ \_ \_ \_ \_ \_ \_ \_ | \_ \_ \_ \_ \_ \_ \_ \_ |

**WASHINGTON OFFICE REVIEW BY (IV):**

| DATE: | \_ \_ \_ \_ \_ \_ \_ \_ |

**PROOF EDIT BY (IV):**

| DATE: | \_ \_ \_ \_ \_ \_ \_ \_ |

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):**

| RECOVERED: | IDENTIFIED: |

**NUMBER OF BM(S) SEARCHED FOR (III):**

| RECOVERED: | IDENTIFIED |

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

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

**REMARKS:**

| \_ \_ \_ \_ \_ \_ \_ \_ | \_ \_ \_ \_ \_ \_ \_ \_ | \_ \_ \_ \_ \_ \_ \_ \_ |
PROJECT 21005
T-10643A (Supplement to T-10643)
SHORELINE MAPPING
April 1965
LAYOUT SKETCH

T-10643 A

41° 25' 30"

METH. EPISCOPAL CHURCH TWR
EDGARTOWN HBR LT

EDGARTOWN STANDPIPE

KATAMA BAY

CHAPPAQUIDDICK I.

WASQUE PT HOUSE CUPOLA

CAPE POPE LN

41° 20' 30"

64 W 5291 RA

70° 26' 30"

64 W 5299 RA

64 W 5276 RA

64 W 5285 RA

G

41° 25' 30"

70° 32'
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) Nobs Land Island, and (4) the islands of Nantucket and Martha's Vineyard. The subject maps cover Martha's Vineyard and Nobs 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 black-line impressions of T25081, T25082, and T25083 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. From 1961 photos.

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. T-10643A also registered.

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.
PHOTOGRAMMETRIC PLOT REPORT
T-10643A
SHORELINE MAPPING
APRIL 1965
PROJECT 21005

The purpose of this project was to supply photo-hydro support and revised shoreline for Martha's Vineyard and Nantucket Island.

Seven manuscripts were needed in the area: T-10642, 10643, 11214, 11215, 11216, 11218 and 11219. (See Project Layout.)

Infra-red photography flown October 4, 1964 was provided to accomplish these objectives.

In order to accurately fix the 1964 photography in position, a radial plot was necessary for T-10643.

A new manuscript was ruled, a radial plot laid, and the shoreline delineated from the 1964 infra-red photography. This manuscript has been designated T-10643A, shoreline manuscript (supplement to T-10643).

21. Area Covered

T-10643 in its entirety.

22. Method

T-10643A was ruled 4-5-65 with a Polyconic Projection and 5000 ft. Mass. State Grid - Island Zone.

The 1964 cronapaque ratio prints were prepared, transferring stereoscopically, conjugate centers, pass points and horizontal control.

Templets were made of these prepared photographs on clear mylar.

The five office-identified triangulation stations held well along with four selected points common to the previous compilation.

Good azimuths and pass point intersections were also achieved for this plot.
The established intersections of all photogrammetric points were pricked and rung up on the back of the manuscript.

23. Adequacy of Control

Utilizing the previously determined pass points on T-10643, selected as being most accurate, the five easily identifiable triangulation stations were considered adequate for positioning the radial plot.

All control held well (see layout sketch).

24. Supplemental Data

See item 23.

25. Photography

Photography was adequate as to coverage, definition and position for hydro-support.

26. thru 30.

None.

Submitted by:

Jehr P. Battley, Jr.
Jeter P. Battley, Jr.
Cartographer

Approved by:

K. N. Maki
Chief - Compilation Unit
FIELD INSPECTION REPORT
Project 2480 (Pr-116)
Map T-9062-16643

Please refer to Field Inspection Report for Map T-11212
for all data pertaining to this map.

I. F. Beugnet
L. F. Beugnet
Cartographic Survey Aid

Approved:
I. R. Rubottom
Chief of Party
COMPILATION REPORT
T-10644, (T-9082)

PHOTOGRAMMETRIC PLOT REPORT.

21 through 30

Reference Item 32. CONTROL

31. DELINEATION.

The Kelsh Plotter was used. Delineation was done on a black line impression of T-9082. Shoreline and interior changes were made in red ink. Field inspection was satisfactory.

32. CONTROL.

A stereoplanigraph bridge was run in the Washington Office. When orientation of the models indicated control discrepancies, the plotting of all the points was checked, some moved slightly and one moved about 1 mm. Models controlled by triangulation were set up but some adjustments of about 0.8 mm. were required for the stereoplanigraph points. Point 702, apparently misidentified when dropped, falls about 7 mm. (70 meters) west southwest of the stereoplanigraph position. The stereoplanigraph points moved, the approximate distance and directions are:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>021</td>
<td>0.7 mm. north</td>
</tr>
<tr>
<td>701</td>
<td>0.8 mm. north</td>
</tr>
<tr>
<td>702</td>
<td>7.0 mm. west southwest</td>
</tr>
<tr>
<td>711</td>
<td>0.7 mm. east northeast</td>
</tr>
<tr>
<td>712</td>
<td>0.8 mm. east</td>
</tr>
<tr>
<td>721</td>
<td>0.5 mm. east</td>
</tr>
<tr>
<td>722</td>
<td>0.5 mm. east</td>
</tr>
</tbody>
</table>

It is noted that when these positions of the pass points were held, identical sharp details of the 1948 stereoplanigraph compilation were held.

33. SUPPLEMENTAL DATA.

The black line impression of T-9082 was the only supplemental data.

34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

Drainage has been delineated according to field inspection notes and photographic interpretation.
35. **SHORELINE AND ALONGSHORE DETAILS.**

The shoreline inspection was adequate for delineation of shoreline features. The low-water line was not delineated.

36. **OFFSHORE DETAILS.**

No statement.

37. **LANDMARKS AND AIDS.**

38. **CONTROL FOR FUTURE SURVEYS.**

None

39. **JUNCTIONS.**

T-10643 to the west has not been compiled. There is no contemporary survey to the north, east and south, these being bounded by Nantucket Sound and the Atlantic Ocean.

40. **HORIZONTAL AND VERTICAL ACCURACY.**

No statement.

46. **COMPARISON WITH EXISTING MAPS.**

There was good agreement with the 1949 compilation excepting changes along the beaches.

47. **COMPARISON WITH NAUTICAL CHARTS.**

Comparison has been made with C&GS Nautical Chart No. 346, scale 1:20,000, 8th edition, corrected to Aug. 13, 1956. The same changes noted in Item 46 were noted.
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rexford E. Smith, Jr.
Carto, Photo, Aid

Approved and Forwarded:

J.E. Waugh
Chief of Party
SUPPLEMENTAL COMPILATION REPORT
T-10643

The approximate low-water line, breaker areas and the apparent edge of shallow areas were delineated by office interpretation on overlays from the 1:15,000 scale color photographs. These details were then transferred to the manuscript by use of the vertical projector.

Ratio prints of the infrared photography were used to revise the high-water line.

There was no color photo coverage along Edgartown Harbor for approximately 1.2 miles southwest of Cape Poge Gut.

Triangulation station CAPE POGE LIGHTHOUSE, 1928 was rebuilt in 1960. Its approximate new position is shown on the manuscript with a small circle. (See Light List and N. M. 39, 1960) The triangle has been dashed and the old name remains on the manuscript temporarily.

Respectfully submitted
22 June 1961

R. Glaser
Carto. (Photo.)

Approved and forwarded

William E. Randall
CDR, CoGS
Baltimore District Officer

* * New position determined by third order triangulation
Addendum:

Only those interior details needed for the compilation of Chart 261 have been added or revised from 1961 photography.
COMPILATION REPORT
T-10643A
PROJECT 21005
APRIL 1965

This manuscript was compiled to provide a base for photo-hydro support. It is one of seven manuscripts required for the 1965 season. (See instructions dated March 12, 1965.)

T-10643A is a supplement to registered survey T-10643.

Due to extensive shoreline changes and a questionable base manuscript (see the Descriptive Report for T-10643), a radial plot was laid with the 1964 infra-red photography covering this manuscript. Refer to the enclosed Plot Report for details.

The 1964 cronapaque ratio prints, used to bridge the plot, was the photography used to delineate the manuscript.

31. Delineation

The manuscript was delineated graphically, holding to pass points established by the radial plot. The MEWL was office interpreted utilizing tide data obtained for the time of photography. Only shoreline and connecting details were compiled.

The 1964 photographs were prepared in the usual manner for photo-hydro support.

32. Control

(See the enclosed Plot Report).

Photogrammetric pass points afforded an accurate positioning of compiled details.

33. Supplemental Data

T-10643, previously compiled and registered, was used to verify shoreline details compiled.

34. Contours and Drainage

Inapplicable
35. Shoreline and Alongshore Details

No unusual problems were encountered in compiling the MHWL. As the photography used was infra-red, shallow or shoal areas could not be compiled.

36. Offshore Details

Explanation under Item 35 applicable.

37. Landmarks and Aids

Landmarks and aids shown were triangulation stations.

38. Control for Future Surveys

None

39. Junctions

A junction was made with T-10642 to the West. All other area bordering this manuscript is water.

40. Horizontal and Vertical Accuracy

The manuscript complies with accuracy standards.

41. thru 45.

Inapplicable

46. Comparison with Existing Maps

See the opening paragraph of this report.

47. Comparison with Nautical Charts

T-10643, which this manuscript is a supplement to, was the base for the contemporary nautical chart in this area. As this shoreline manuscript was compiled for photohydro support, a comparison was not made at this time.

Submitted by:
J. B. Phillips

Approved by:
K. N. Maki
Chief - Compilation Unit
NOTES FOR THE HYDROGRAPHER.

Pass points were dropped along the shore to facilitate the location of photo-hydro stations. The pass points and the identified horizontal control points have been transferred to all the office ratio prints.

On Field Print 55-W-5070, at approximate latitude 41° 22' 25", longitude 70° 27' 15", there is a fixed bridge with a horizontal and vertical clearance note. The vertical clearance data could not be computed using the predicted Tide Tables as the subordinate station, CAPE POGE, is too far north and the shoreline has closed up at Wasque Point. It is requested that the hydrographer check the vertical clearance.

Shoreline pass points from 1961 photographs added for hydrography in May 1963

Refer to page 24(A) - For: the photogrammetric location of signals during additional compilation in 1965 & 1966.
PHOTOGRAMMETRIC OFFICE REVIEW

1. Projection and grids \(JG\) 2. Title \(JG\) 3. Manuscript numbers \(JG\) 4. Manuscript size \(JG\)
5. Horizontal control stations of third-order or higher accuracy \(XX\) 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) \(JG\) 7. Photo hydro stations \(XX\) 8. Bench marks \(JG\)
9. Plotting of sextant fixes \(XX\) 10. Photogrammetric plot report \(XX\) 11. Detail points \(XX\)

ALONGSHORE AREAS

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

PHYSICAL FEATURES

CULTURAL FEATURES
27. Roads \(JG\) 28. Buildings \(JG\) 29. Railroads \(XX\) 30. Other cultural features \(JG\)

BOUNDARIES
31. Boundary lines \(XX\) 32. Public land lines \(XX\)

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

40. \(JG\)

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-10641, T-10642, T-10643, T-10643A

62. Comparison with Registered Topographic Surveys

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<th>Product</th>
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<td>1888</td>
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<tr>
<td></td>
<td>4427</td>
<td>1:10,000</td>
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<tr>
<td></td>
<td>9082</td>
<td>1:20,000</td>
<td>1948</td>
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</table>

The PH-116 surveys supersede the prior surveys for charting purposes in the common areas. Refer to side headings 65 and 66 of this report concerning T-10643 and T-12497.

63. Comparison with Maps of Other Agencies

USGS Quad., Edgartown, Mass. - 1:24,000 - 1951
USGS Quad., Vineyard Haven, Mass. - 1:24,000 - 1951
USGS Quad., Tisbury Great Pond, Mass. - 1:24,000 - 1951

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

Chart 261 - 1:20,000, revised June 4, 1965

T-12497 (side heading 62) is the source of basis topography for this chart. Refer to side heading 66.

66. Adequacy of Results and Future Surveys

Maps T-10641 and T-10642 meet the National Standards of Map Accuracy and Bureau requirements. Areas of map T-10643 are substandard in datum. These three maps are the source of T-12497 and the basic topography, chart 261 (side headings 62 and 65). T-10643A meets the required standards.

A general description of the various procedures used in compiling the subject maps and the related registered map T-12497 are discussed in the "Summary" for this survey. In
addition, the "Summary" makes recommendations concerning future use of the subject maps as bases for revision.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Photogrammetry Division  Chief, Marine Charts Division
Chief, Photogrammetric Branch

March 12, 1965

Chief, Photogrammetry Division

Hydro Support Data, Cape Cod, Massachusetts, Project 21005

The Ship WRENCH will require photo-hydro support this season in Martha's Vineyard and Nantucket Island.

New photography taken in 1964 covers the area.

Use this photography to revise shoreline, alongshore and offshore detail resocting centers and providing shoreline passpoints for signal location.

Complete hydro-support data consisting of two cronaflex copies, three ozalid prints and cronapaque ratio prints according to the following schedule:

<table>
<thead>
<tr>
<th>Film Code</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-10642</td>
<td>April 21, 1965</td>
</tr>
<tr>
<td>T-10643</td>
<td>April 21, 1965</td>
</tr>
<tr>
<td>T-11214</td>
<td>April 22, 1965</td>
</tr>
<tr>
<td>T-11215</td>
<td>April 23, 1965</td>
</tr>
<tr>
<td>T-11218</td>
<td>April 26, 1965</td>
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<td>T-11216</td>
<td>May 3, 1965</td>
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<tr>
<td>T-11219</td>
<td>May 3, 1965</td>
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</table>

Charge all costs to Project 21005.

J. E. Waugh

Cc: Mr. Waki L-6324
HYDRO SUPPORT (PHOTOGRAMMETRIC)
Nantucket Sound
T-10643A

Eighty photo-hydro stations which were located and pricked on the photographs in the field have been identified and located photogrammetrically on the manuscript in the Photogrammetric office. These stations are shown with a 2.5 mm circle along with the identifying name. There is one station name that has been repeated - "CAT", on the west shore of the Katama River, and "CAT", on the northwest sand spit of Cape Poge Bay. These stations are listed in alphabetical order on the following page.

Hydro stations located by field methods were not on the subject manuscript. An ozalid copy and a cronaflex copy forwarded by the field party contain this information. These copies will be returned to the Hydrographic Branch for forwarding to the East Coast Field Office.

Refer to 24A for list of signals
**EIGHTY PHOTO-HYDRO STATIONS**  
Located Photogrammetrically  
T-10643A

<table>
<thead>
<tr>
<th>ABE</th>
<th>DUD</th>
<th>JAY</th>
<th>RAG</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIM</td>
<td>EAT</td>
<td>JIM</td>
<td>ROB</td>
</tr>
<tr>
<td>ANN</td>
<td>EGG</td>
<td>JOY</td>
<td>SAD</td>
</tr>
<tr>
<td>ART</td>
<td>EGO</td>
<td>KEY</td>
<td>SAL</td>
</tr>
<tr>
<td>BAG</td>
<td>EVA</td>
<td>KIM</td>
<td>SAM</td>
</tr>
<tr>
<td>BAN</td>
<td>FEZ</td>
<td>LED</td>
<td>TAX</td>
</tr>
<tr>
<td>BAT</td>
<td>FIT</td>
<td>LEG</td>
<td>TEE</td>
</tr>
<tr>
<td>BIT</td>
<td>FOX</td>
<td>LIP</td>
<td>TOM</td>
</tr>
<tr>
<td>BUD</td>
<td>GAL</td>
<td>MAW</td>
<td>USE</td>
</tr>
<tr>
<td>CAT (Katama Bay)</td>
<td>GAS</td>
<td>MAX</td>
<td>VAN</td>
</tr>
<tr>
<td>CAT (Cape Poge Bay)</td>
<td>GOT</td>
<td>MOP</td>
<td>VIC</td>
</tr>
<tr>
<td>COD</td>
<td>GUM</td>
<td>NAT</td>
<td>VIM</td>
</tr>
<tr>
<td>COP</td>
<td>HAD</td>
<td>NED</td>
<td>WAX</td>
</tr>
<tr>
<td>COW</td>
<td>HER</td>
<td>NIX</td>
<td>WAY</td>
</tr>
<tr>
<td>COY</td>
<td>HIS</td>
<td>OAR</td>
<td>WET</td>
</tr>
<tr>
<td>DEL</td>
<td>HOG</td>
<td>ODD</td>
<td>YET</td>
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<tr>
<td>DIP</td>
<td>ICE</td>
<td>OWE</td>
<td>YOI</td>
</tr>
<tr>
<td>DOG</td>
<td>IDA</td>
<td>PAT</td>
<td>YOW</td>
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<tr>
<td>DOM</td>
<td>IKE</td>
<td>PEG</td>
<td>ZOO</td>
</tr>
<tr>
<td>DUN</td>
<td>INK</td>
<td>QUO</td>
<td>ZOT</td>
</tr>
</tbody>
</table>
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

Rexford E. Smith, Jr.

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
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

Rexford E. Smith, Jr.

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>CUPOLA</td>
<td>Wooden, shingled, ht = 46 ft. (105)</td>
</tr>
<tr>
<td>(WASQUE POINT HOUSE CUPOLA, 1932)</td>
<td></td>
</tr>
<tr>
<td>SPIRE</td>
<td>White, church, ht = 93 ft. (107)</td>
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<tr>
<td>(REGARSON METHODIST EPISCOPAL CHURCH, 1928)</td>
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<tr>
<td>TOWER</td>
<td>Observation, wood, ht = 31 ft. (61)</td>
</tr>
<tr>
<td>STANDPIPE</td>
<td>Edgartown Standpipe, 1932</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
**TIDE COMPUTATION**

**PROJECT NO. Ph**

**Time and date of exposure:** 1940, March 15, 1935  
**Reference station:** Boston  
**Mean range:** 2.2

**Date of field inspection**

**Subordinate station:** Chappaquiddick I  
**Ratio of ranges:** 0.23

<table>
<thead>
<tr>
<th>Time of Rise or Fall</th>
<th>Range of Tide</th>
<th>Height x Ratio of Ranges</th>
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<tr>
<td>High tide</td>
<td>16 42</td>
<td>2</td>
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<td>Low tide</td>
<td>10 47</td>
<td>0.7</td>
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<table>
<thead>
<tr>
<th>Time at Ref. Sta.</th>
<th>Time Difference</th>
<th>Corrected Time at Subordinate Station</th>
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<tr>
<td>High tide at Ref. Sta.</td>
<td>16 42</td>
<td>16 47</td>
</tr>
<tr>
<td>Time difference</td>
<td>+ 45</td>
<td>0 00</td>
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<table>
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<th>Tabular correction</th>
<th>Stage of Tide above MLW</th>
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</thead>
<tbody>
<tr>
<td>Required time</td>
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<td></td>
</tr>
<tr>
<td>Interval</td>
<td></td>
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<td></td>
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<tr>
<td>Interval</td>
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</thead>
<tbody>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Interval</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Computed by:** [Signature]  
**Checked by:** [Signature]
GEOGRAPHIC NAMES

T-10643

Atlantic Ocean  North Neck
Bluefish Point  Poucha Pond
Caleb Pond  Ouohog Point
Cape Poge  Sampson Hill
Cape Poge Bay  Sengekontacket Pond
Cape Poge Elbow  Simon Point
Cape Poge Lighthouse  Snows Point
Chappaquiddick Island  South Sommer Street
Chappaquiddick Point  Spear Pen Pond
Chappaquiddick Road  Toms Neck
Clevelandtown  Vineyard Haven Road
Cook Street  Wasque Point
Crackaturet Cove  Wasque Road
Edgartown  Wasque Point House Cupola
Edgartown Beach  Whistler Point
Edgartown Harbor
Edgartown Harbor Light
Edgartown-Oak Bluffs Road
Eel Pond
John Oliver Point
Katama
Katama Bay
Katama Point
Katama Road
Little Beach
Little Neck
Long Point
Main Street
Mattakeset Bay
Mattakeset Herring Brook
Muskeget Channel
Nantucket Sound

A. J. Wraith
Chief, Geographic Branch
## 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>261</td>
<td>10-30-69</td>
<td>Irene Beeler</td>
<td>Full Part Before Verification Review Inspection Signed Via</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Drawing No. 9 corr thru H8847 &amp; checked via T10643A</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>H8847 shoreline only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>48° 28' 76 28.3' PA 4' West to edge of T10643A</td>
</tr>
<tr>
<td>264</td>
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<td>Irene Beeler</td>
<td>Full Part Before Verification Review Inspection Signed Via</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Drawing No. 64 ch 261 9 checked via T10643A</td>
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<td>Shoreline only</td>
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<tr>
<td>1209</td>
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<td>Irene Beeler</td>
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<td>Drawing No. 64</td>
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<td>7-73</td>
<td>O. Poppen</td>
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<td></td>
<td></td>
<td>Drawing No. 64 extended until applied to ch 264</td>
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<tr>
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<td></td>
<td>T-12-407 case chart 261 Aug 78</td>
</tr>
<tr>
<td>261</td>
<td>9-10-73</td>
<td>John C. Bailey</td>
<td>Full Part Before Verification Review Inspection Signed Via</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Drawing No. 8 applied extensive revisions to hull</td>
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<tr>
<td></td>
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<td></td>
<td>From reduction of T-10643A, also revised chart directly</td>
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<tr>
<td>264</td>
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<td>J. P. Filmore</td>
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<td>Drawing No. 52 applied thru chart 13233 (12-57)</td>
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</tbody>
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Form C&GS-8352 Supersedes All editions of Form C&GS-975.