DESCRIPTIVE REPORT

PH-6311
Type of Survey Shoreline

Field-No Class, II Office No T-12471 THRU T-12475

LOCALITY
State Massachusetts
General locality Buzzards Bay
Locality Elizabeth Islands

1963

CHIEF OF PARTY
J. E. Waugh
Div. of Photogrammetry, Wash. D. C.

LIBRARY & ARCHIVES

DATE
DESCRIPTIVE REPORT - DATA RECORD
T - 12471 thru T-12475

PROJECT NO. (III):
21070 PH-6311

FIELD OFFICE (III):
CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):
WASHINGTON D. C.
OFFICER-IN-CHARGE
J. E. Waugh

INSTRUCTIONS DATED (II) (III):
July 29, 1963

METHOD OF COMPILATION (III):
Kelsh Plotter, Wild B&G Stereoplotter and Graphic

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:12,000 1:20,000 1:2,000 1:3,000 1:6,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):
AUG, 1976

GEODETIC DATUM (III):
N.A. 1927

VERTICAL DATUM (III):
NHW
MEAN SEA LEVEL EXCEPT AS FOLLOWS:
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

REFERENCE STATION (III):
Nashawena Island Tower 1913

LAT.: 41° 25' 36.395"
LONG.: 70° 52' 36.417"

■ ADJUSTED
□ UNADJUSTED

PLANE COORDINATES (IV):
155,724.58
X = 96,666.76

STATE Massachusetts
ZONE Island

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY, (III) PHOTOGRAPHIC OFFICE, OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Photo interpreted from tide observation controlled photographs dated April 1961. South shore was revised with 1963 photography by office interpretation.

PROJECTION AND GRIDS RULED BY (IV):

A. Roundtree 7-31-63

PROJECTION AND GRIDS CHECKED BY (IV):

R. Grygo 7-31-63

CONTROL PLOTTED BY (III):

I. Raborn Sept. 1963

CONTROL CHECKED BY (III):

J. Mooney Sept. 1963

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

R. Fuechsel Oct. 1961

STEREOSCOPIC INSTRUMENT COMPILATION (III):

Kelsh Plotter  
B-8 Plotter

PLANIMETRY

R. Sugden  
C. Misfeldt

CONTOURS

DATE

NOV. 1961 & JULY 1962

MANUSCRIPT DELINEATED BY (III):


SCRIBING BY (III):

DATE

PHOTOGRAHMNETRIC OFFICE REVIEW BY (III):

DATE

REMARKS:
### Photographs (II)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>61L 1481 thru 1491 IR</td>
<td>Apr. 1961</td>
<td>1:30,000</td>
<td>0.0 MHW</td>
<td></td>
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<tr>
<td>61S 6504 thru 6515 C 6537 thru 6544 C</td>
<td>Apr. 1961</td>
<td>1:15,000</td>
<td>0.4' MHW</td>
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<tr>
<td>63S 6500 thru 6510 P</td>
<td>June 1963</td>
<td>1:15,000</td>
<td>0.7' MLW</td>
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<td>6512 thru 6518 P 6525 thru 6532 P</td>
<td>June 1963</td>
<td>1:15,000</td>
<td>0.4' MHW</td>
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</tr>
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</table>

### Observed Tide (III)

- **Reference Station:** Woods Hole
- **Ratio of Ranges:** 1.3
- **Mean Range:** 1.6
- **Spring Range:**

| Subordinate Station: | Ratio | Mean
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Oak Bluffs</td>
<td>1.7</td>
<td>2.0</td>
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</tbody>
</table>

### Washington Office Review by (IV):

- **J. B. Phillips**
- **Date:** June 1976

### 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:
SUMMARY

Job PH-6311 is comprised of five shoreline maps, T-12471 through T-12475 at 1:10,000 scale, delineated for the purpose of furnishing photo-hydro support data for hydrographic surveys along the south shore of Elizabeth Islands, Massachusetts.

With the exception of some shoreline revision, the maps are copies of job PH-6102 chart topographic maps, scales 1:5,000, 1:12,000, 1:20,000, and 1:40,000. These were reduced or enlarged, as applicable, and applied to the projection sheets ruled for 1:10,000 scale shoreline mapping. The chart topography maps had been field edited prior to their use with this project. This qualifies the maps for Class II classification.

New basic shoreline will supersede this project. (CM - 7A07)

Final review was accomplished at the Rockville Office in June 1976.

A stable base positive copy of each map and the combined Descriptive Report will be registered in the NOS Archives.
31. Delineation

Five shoreline maps, (T-12471 thru T-12475), at a scale of 1:10,000 were compiled to furnish a base for photo-hydro support.

T-12471, T-12472 and T-12473 were covered by Chart 263 (scale 1:12,000) which was recently compiled on the B-8 stereoplotter utilizing 1961 color film. A blackline of this chart was enlarged to 1:10,000 scale and inked on to the manuscripts. The shoreline was revised with 1963 panchromatic photography.

Ratio prints of the 1963 panchromatic photography and the 1961 infrared photography were resected to the manuscripts holding to bridge points and previously compiled details. These photographs were prepared throughout the project in the usual manner for photo-hydro support.

T-12474 and T-12475 were covered by Chart 264 (1:40,000) and Chart 350 (1:20,000). In addition Chart 348 (1:5,000) fell partially in the area of T-12475. These charts were also recently compiled by photogrammetry. (See descriptive reports filed for these charts) Copies of the final drawings of these charts were enlarged (or reduced) to 1:10,000 scale and inked on the manuscripts. A part of T-12474 was covered by the 1:40,000 scale Chart 12474. The 4 time enlargement of this blackline was utilized for offshore rocks only, as the shoreline was too large for accurate definition. The shoreline was compiled from the ratio photography in this area.

The compilations of the chart drawings mentioned above were field edited in April - May 1962.

Foreshore details such as rocks, dolphins and piling were originally compiled with color photography, affording a thorough delineation. As the chart drawings varied in scale, (from 1:12,000 to 1:40,000) the density of rocks compiled depended on clarity consistent with the scale chart to be published. For this reason, all rocks are not compiled and the offshore data brought forward from the chart drawings are varied in density.
The infrared and panchromatic photography supplied for hydro support does not show foreshore details such as rocks swash, with the clarity or certainty of color photography. For this reason, much of the foreshore data delineated on the manuscripts will not be evident on the photo-hydro support photography.

32. Control

Bridge points furnished by Aerotriangulation were sufficient in density and placement to adequately compile the manuscripts and to resect hydro support photography.

33. Supplemental Data

See Item 31 for a description of the use of Charts 260, 263, 264, and 348.

34. Contours and Drainage

Inapplicable

35. Shoreline and Alongshore Details

See Item 31

36. Offshore Details

See Item 31

37. Landmarks and Aids

Landmarks and aids previously located during the compilation of the above mentioned charts were transferred to the manuscripts. In addition, Quicks Hole Ledge Lighted Buoy 2, was identified on the 1963 panchromatic photography and a position submitted. Two landmarks on T-12474 and T-12473 are recommended and positions given.

38. Control for Future Surveys

None

39. Junctions

A satisfactory junction was made with adjoining sheets. (See project T-sheet layout)
40. **Horizontal and Vertical Accuracy**

See bridging report filed in the Descriptive Report for Chart 263.

41. - 45. **Inapplicable**

46. **Comparison with Existing Maps**

A comparison was made with surveys T-5744 and 5745, scale 1:10,000, dated 1950 and compiled from 1948 photography.

47. **Comparison with Nautical Charts**

The recently compiled chart drawings for Charts 260, 263, 264, and 345 were used as the compilation base for these manuscripts. With the exception of slight shoreline changes apparent with the 1963 photography, the shoreline manuscripts and the chart drawings are in agreement. The above mentioned charts as now published, have not yet applied the newly compiled data.

Submitted by:

L. A. Carter

Approved by:

R. A. Carter

K. N. Mald
Chief, Compilation Section
49. Notes for the Hydrographer

The bridging photography was color. Ratios of this photog-
raphy were not ordered for hydro support. The color photog-
raphy, taken at low tide, afforded optimum definition of
offshore details, therefore there are many more rocks and
other foreshore details shown on the compilation than are
discernable on the infrared and panchromatic ratio photo-
graphs prepared for hydro support.

Quicks Hole Ledge Lighted Buoy 2 was located since the last
chart compilation and a position given for verification.
61. GENERAL STATEMENT

With the exception of some shoreline revision, maps T-12471 through T-12475 are copies of job PH-6102 chart topography maps. Refer to the Compilation Report for details of delineation.

The chart topography maps were field edited in April and May 1962 prior to their use for this project. This qualifies maps T-12471 through T-12475 for Class II classification, and clarifies the note, DATE OF FIELD EDIT - 1962, which is located in the legend on each map.

Comparison was not made with registered topographic surveys, maps of other agencies, or nautical charts. Because of the inadequacy in a portion of this compilation (refer to item 66) a new project has been assigned. The new project is CM-7407; a copy of the instruction is included with the Job Completion Report. Copies of T-12474 through T-12475 have been furnished to the compilation office for comparison.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Refer to item 61.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to item 61.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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<td>1:10,000</td>
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<td>H-8904</td>
<td>1:10,000</td>
<td>1966</td>
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Comparison was made with the final reviewed hydrographic surveys. Several rocks had not been carried forward; reference to these was made by the hydro reviewer in the report for H-8904. A more detailed comparison of the hydro surveys will be made with the new photogrammetric survey when it is available. Refer to item 66 of this report.

65. COMPARISON WITH NAUTICAL CHARTS

Refer to item 61.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

The chart topography maps used in this survey, that were either 1:20,000 or 1:40,000 scale originally, are not considered adequate to insure compliance with NOS requirements for mapping, when reduced to the 1:10,000 scale.

New basic shoreline will supersede this project. Refer to instructions dated November 14, 1975.

Submitted by:

J. B. Phillips

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
48. Geographic Names Listed

Bachelor Island
Barst Island
Bull Island
Buzzards Bay
Canapitsit Channel
Cedar Island
Copseit Neck
Crescent Beach
Cuttyhunk
Cuttyhunk Harbor
Cuttyhunk Island
Cuttyhunk Pond
Elizabeth Islands
Fox Point
French Watering Place
Gages Neck
Gonnold Head
Gay Island
Hindey Harbor
Inner Harbor
Joan Neck
Kettle Cove
Knox Point
Letters Bay
Middle Gate
Middle Pond
Monohansett Island
Nanked Bay
Nashawena Island
Norahon Island
Norahon Point
Norahont Island
North Point
North Rock
Northwest Gutter
Pasqua Island
Pease ledge
Pepisett Island
Quicks Hole
Quicks Hole Pond
Rams Head
Robinson Hole
Rock Island
Silver Beach
South Bluff
South Rock
Tarpullin Gave
The Neck
Timmy Point
Uncatem Island
Uockeysett Island
Vineyard Sound
Wespecket Islands
West Beach
Westers Pond
West Gutter
Witchers Glen

East Gutter
Woods Hole
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<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</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>129,282.21</td>
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<td>Nashawena Is.</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: R. Carter  DATE: 10-25-63  CHECKED BY: J. Battley  DATE: 11-11-63
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<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>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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</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 J. Bottley.

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<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
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</thead>
<tbody>
<tr>
<td>West Cable 1 3/4 story</td>
<td>Gray Shingle House</td>
<td>House</td>
<td>41° 27'</td>
<td>70° 48'</td>
<td>433.2</td>
<td>Plot 1962</td>
</tr>
<tr>
<td>Tank</td>
<td>Water Tank, Wood</td>
<td>Tank</td>
<td>41° 27'</td>
<td>70° 48'</td>
<td>1053.7</td>
<td>Photo 9-12</td>
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<td>Buoy</td>
<td>Lighted Buoy 2</td>
<td>Buoy</td>
<td>41° 26'</td>
<td>70° 50'</td>
<td>1011.7</td>
<td>Photo Oct.</td>
</tr>
</tbody>
</table>

See Descriptive Reports for Charts 260, 263, 264, 348 for other Landmarks and Aids covering the Entire Area.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if reetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* Tabulate seconds and meters
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>(13231)</td>
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<td>4-25-77</td>
<td>Josephine H. Harris</td>
<td>Full Part Before Review Inspection Signed Via Drawing No. 58 APPLIED CORRECTIONS THRU CHART 249 (13230)</td>
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<td>(13218)</td>
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