

T-12471 THRU T-12475

T 12471 THRU T-12475

Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
<b>DESCRIPTIVE REPORT</b>
PH-6311 Type of Survey Shoreline
Field No. <i>Class. II</i> Office No. <i>T-12471-T-12475</i>
<b>LOCALITY</b> State <i>Massachusetts</i> General locality <i>Buzzards Bay</i> Locality <i>Elizabeth Islands</i>
<u>19 63</u> CHIEF OF PARTY J. E. Waugh Div. of Photogrammetry, Wash. D. C.
<b>LIBRARY &amp; ARCHIVES</b>
DATE _____

## DESCRIPTIVE REPORT - DATA RECORD

T - 12471 thru T-12475

PROJECT NO. (II):

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):

Kelsch Plotter, Wild B28 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

GEOGRAPHIC DATUM (III):

N. A. 1927

VERTICAL DATUM (III): MHW

MEAN SEA LEVEL EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (II):

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 (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.

DESCRIPTIVE REPORT - DATA RECORD

T-12471 thru T-12475

FIELD INSPECTION BY (II):		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): <b>Photo interpreted from tide observation controlled photographs dated April 1961. South shore was revised with 1963 photography by office interpretation.</b>		
PROJECTION AND GRIDS RULED BY (IV):		DATE
<b>A. Roundtree</b>		<b>7-31-63</b>
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
<b>R. Grygo</b>		<b>7-31-63</b>
CONTROL PLOTTED BY (III):		DATE
<b>I. Raborn</b>		<b>Sept. 1963</b>
CONTROL CHECKED BY (III):		DATE
<b>J. Mooney</b>		<b>Sept. 1963</b>
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
<b>R. Fuechsel</b>		<b>Oct. 1961</b>
STEREOSCOPIC INSTRUMENT COMPILATION (III): <b>Kelsh Plotter</b> <b>B-8 Plotter</b>	PLANIMETRY <b>R. Sugden</b> <b>C. Misfeldt</b>	DATE <b>Nov. 1961 &amp;</b> <b>July 1962</b>
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
<b>R. Carter, M. Webber, J. Phillips</b>		<b>Oct. 1963</b>
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
REMARKS:		

## DESCRIPTIVE REPORT - DATA RECORD

T-12471 thru T-12475

CAMERA (KIND OR SOURCE) (III):

Wild S and L

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
61L 1481 thru 1491 IR	Apr. 1961		1:30,000	0.0 MHW
61S 6504 thru 6515 C	Apr. 1961		1:15,000	+0.4' MHW
6537 thru 6544 C	Apr. 1961			0.7' MHW
63S 6500 thru 6510 P	June 1963		1:15,000	0.7' MLW
6512 thru 6518 P	June 1963		1:15,000	0.4' MLW
6525 thru 6532 P	June 1963		1:15,000	0.4' MHW

## Observed TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Woods Hole		1.3	1.6
SUBORDINATE STATION: Oak Bluffs		1.7	2.0
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

J. B. Phillips

DATE:

June 1976

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II):

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 - 7407)

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

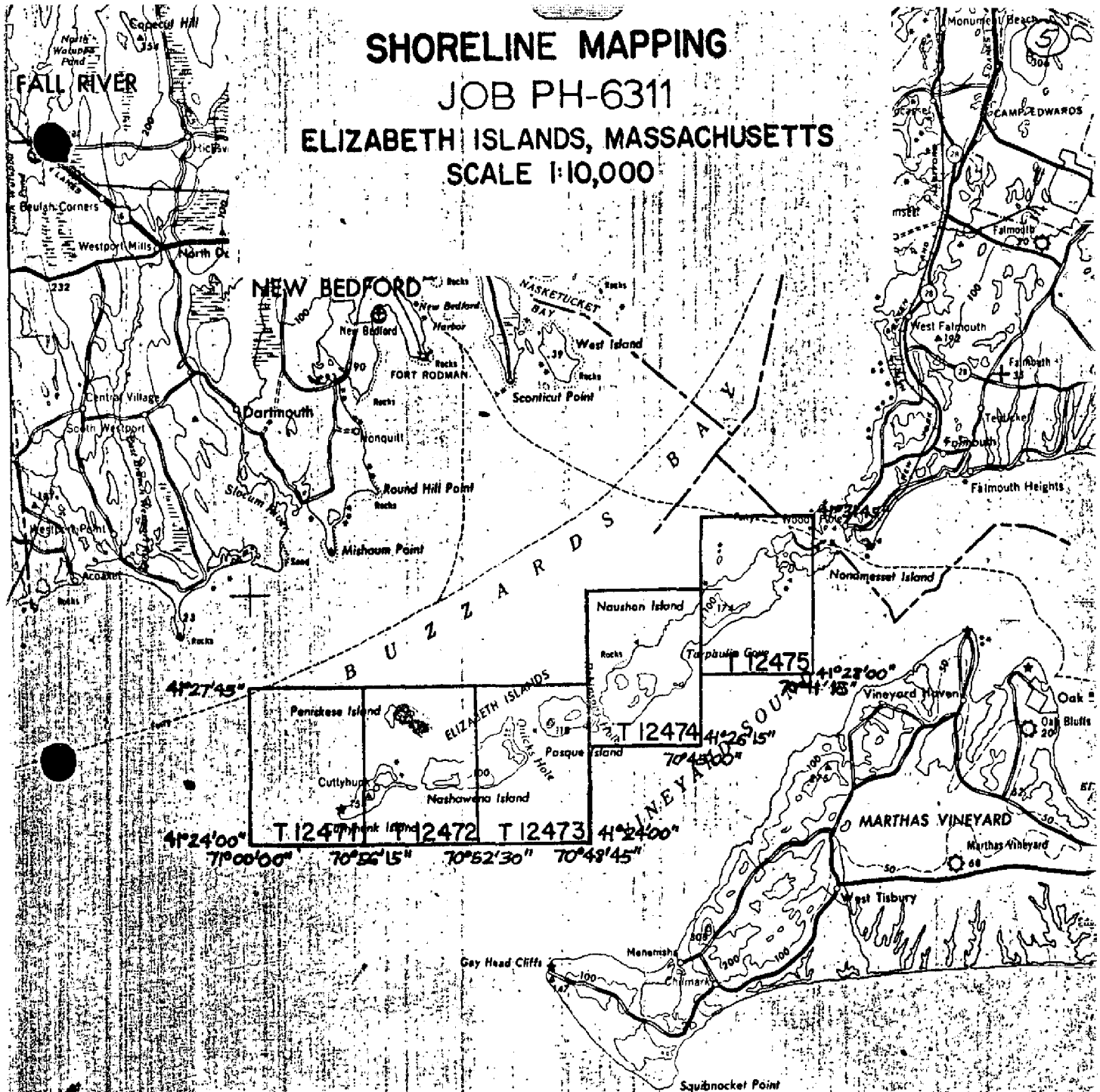
A stable base positive copy of each map and the combined Descriptive Report will be registered in the NOS Archives.

# SHORELINE MAPPING

JOB PH-6311

ELIZABETH ISLANDS, MASSACHUSETTS

SCALE 1:10,000



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET  
NO.

12471  
12472  
12473  
12474  
12475  
TOTALS

LIN. MI.  
SHORELINE

3  
13  
9  
12  
15  
52

AREA  
SQ. MI.

1  
2  
3  
3  
5  
16



(7)

Compilation Report  
Project 21070 PH-6311  
Elizabeth Islands, Mass.  
October 1963

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 <sup>T-12498</sup> ~~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 <sup>T-12499</sup> ~~Chart 264~~ (1:40,000) and ~~Chart 260~~ (1:20,000). In addition ~~Chart 348~~ (1:5,000) <sup>T-12501</sup> 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 264~~. 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 awash, 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.~~ T-12498

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

T-12496 T-12498  
The recently compiled chart drawings for Charts ~~260~~, ~~263~~,  
~~264~~, and ~~348~~ were used as the compilation base for these manu-  
scripts. 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:

R. A. Carter  
R. A. Carter

Approved by:

K. N. Mald 11/16/63  
K. N. Mald  
Chief, Compilation Section

Project 21070 PH-6311  
Elizabeth Islands, Mass.

49. Notes for the Hydrographer

The bridging photography was color. Ratios of this photography were not ordered for hydro support. The color photography, 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 photographs prepared for hydro support.

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



REVIEW REPORT  
T-12471 thru T-12475  
SHORELINE SURVEY  
JUNE 1976

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.

INSPECTION

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

H-8902	1:10,000	1966
H-8903	1:10,000	1966
H-8904	1:10,000	1966

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 *SB*  
Chief, Coastal Mapping Division



# 48. Geographic Names List

Bachelor Island  
 Barst Island  
 Bull Island  
 Buzzards Bay  
 Canapitsit Channel  
 Cedar Island  
 Copieut Neck  
 Crescent Beach  
 Cuttyhunk  
 Cuttyhunk Harbor  
 Cuttyhunk Island  
 Cuttyhunk Pond  
 Elizabeth Islands  
 Fox Point  
 French Watering Place  
 Goats Neck  
 Gosnold Pond  
 Gull Island  
 Hadley Harbor  
 Inner Harbor  
 Jobs Neck  
 Kettle Cove  
 Knox Point  
 Lackey Bay  
 Middle Gate  
 Middle Pond  
 Monohansett Island  
 Nonsed Bay  
 Nashawens Island

Naushon Island  
 Naushon Point  
 Nohansett Island  
 North Point  
 North Rock  
 Northwest Gutter  
 Pasque Island  
 Pease Ledge  
 Pease Island  
 Quicks Hole  
 Quicks Hole Pond  
 Rams Head  
 Robinsons Hole  
 Rock Island  
 Silver Beach  
 South Bluff  
 South Rock  
 Tarpaullin Cove  
 The Neck  
 Timmy Point  
 Uncatona Island  
 Veckatimst Island  
 Vineyard Sound  
 Weepeckot Islands  
 West Beach  
 Westend Pond  
 West Gutter  
 Witches Glen

East Gutter  
 Woods Hole

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T. 12471thru12475PROJECT NO. 21070

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\lambda$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N. A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
						FORWARD	(BACK)	
Naushon	Zone 2	NA	164,224.63			4224.63		
Southwest 2, 1887	p. 11	1927	120,788.95			788.95		
Naushon South- west 2, 1887		"	164,246.06			4246.06		
Sub. Pt. 1			120,840.52			840.52		
Sub. Pt. 2		"	164,125.21			4125.21		
Tarpanlin Cove Lighthouse 1940 1904			120,742.38			742.38		
Nashawena Is. Gable of North House 1913	Zone 2 p. 12	"	170,883.80			883.8		
			129,282.21			4282.21		
		"	159,389.45			4389.45		
			99,340.91			4340.91		
Pasque 1844	Zone 2 p. 9	"	163,863.09			3863.09		
			108,265.50			3265.50		
Pasque 1844 Sub. Pt. 1		"	163,911.42			3911.42		
			108,355.97			3355.97		
Penikese 1948	Zone 2 p. 14	"	164,602.07			4602.07		
			83,771.67			3771.67		
Penikese 1948 Sub. Pt. 1		"	164,564.08			4564.08		
			84,004.25			4004.25		
Nashawena Is. Tower 1913		"	155,724.58			724.58		
			96,666.76			1666.76		
Gosnolds Monument 1904	Zone 2 p. 11	"	151,180.95			1180.95		
			76,965.18			1965.18		
								(14)

DATE 10-25-63

CHECKED BY: J. Battley

DATE 11-1-63





## NON-TECHNICAL APPROACH OR LANDMARKS FOR CHARTS

Oct, 25, 1963

The positions given have been checked after listing by J. Battley

**Chief of Party.**

[illegible]

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. 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**

