

T-11212

Original

(1A)LT

T-11212

T-11212

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-11212
LOCALITY	
State	MASSACHUSETTS
General locality	MARTHA'S VINEYARD
Locality	NORTON POINT
1955 - 1961	
CHIEF OF PARTY	
I. R. Rubottom, Chief of Field Party	
Arthur L. Wardwell, Tampa Photo Office	
LIBRARY & ARCHIVES	
DATE	

COMM-DC 61300

## DESCRIPTIVE REPORT - DATA RECORD

T-11212

①

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. Wardwell  
W.E. Randall  
J.E. Waugh

INSTRUCTIONS DATED (II) (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-6102

Instructions dated 10 May 1961

METHOD OF COMPILATION (III):

Basic - Kelsh plotter  
Revision - graphic (1961); B-8 plotter (1965)

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC 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

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 (III):

Alfred

LAT.:

41° 27' 14.800"

LONG.:

70° 38' 54.230"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

X =

STATE

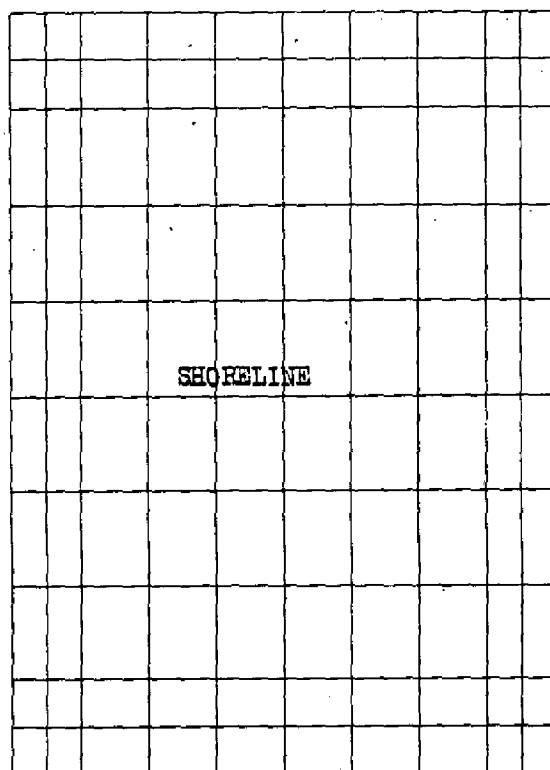
ZONE

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

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY



41° 26.25'

70° 37.5'

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

DESCRIPTIVE REPORT - DATA RECORD  
T-11212

(3)

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 Nov. 13, 1957
STEREOSCOPIC INSTRUMENT COMPILATION (III):  Kelsh		PLANIMETRY E.T. Ogilby DATE Nov. 1957
		CONTOURS DATE
MANUSCRIPT DELINEATED BY (III): E.T. Ogilby J.C. Richter (revision) J.C. Richter (revision)		DATE Dec. 1957 1961 1965
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  M.M. Slavney		DATE Jan. 1958
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD  
T-11212

(4)

CAMERA (KIND OR SOURCE) (III):

Wild C&amp;GS

## PHOTOGRAPHS (III)

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

## TIDE (III)

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
Predicted (1955)				
REFERENCE STATION:	Newport			
SUBORDINATE STATION:	Off Lake Tashmoo	0.60	2.1	2.5
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE: Oct. 1965		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):		RECOVERED:	IDENTIFIED:	
9		2	2	
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:

# SHORELINE MAPPING PROJECT PH-116

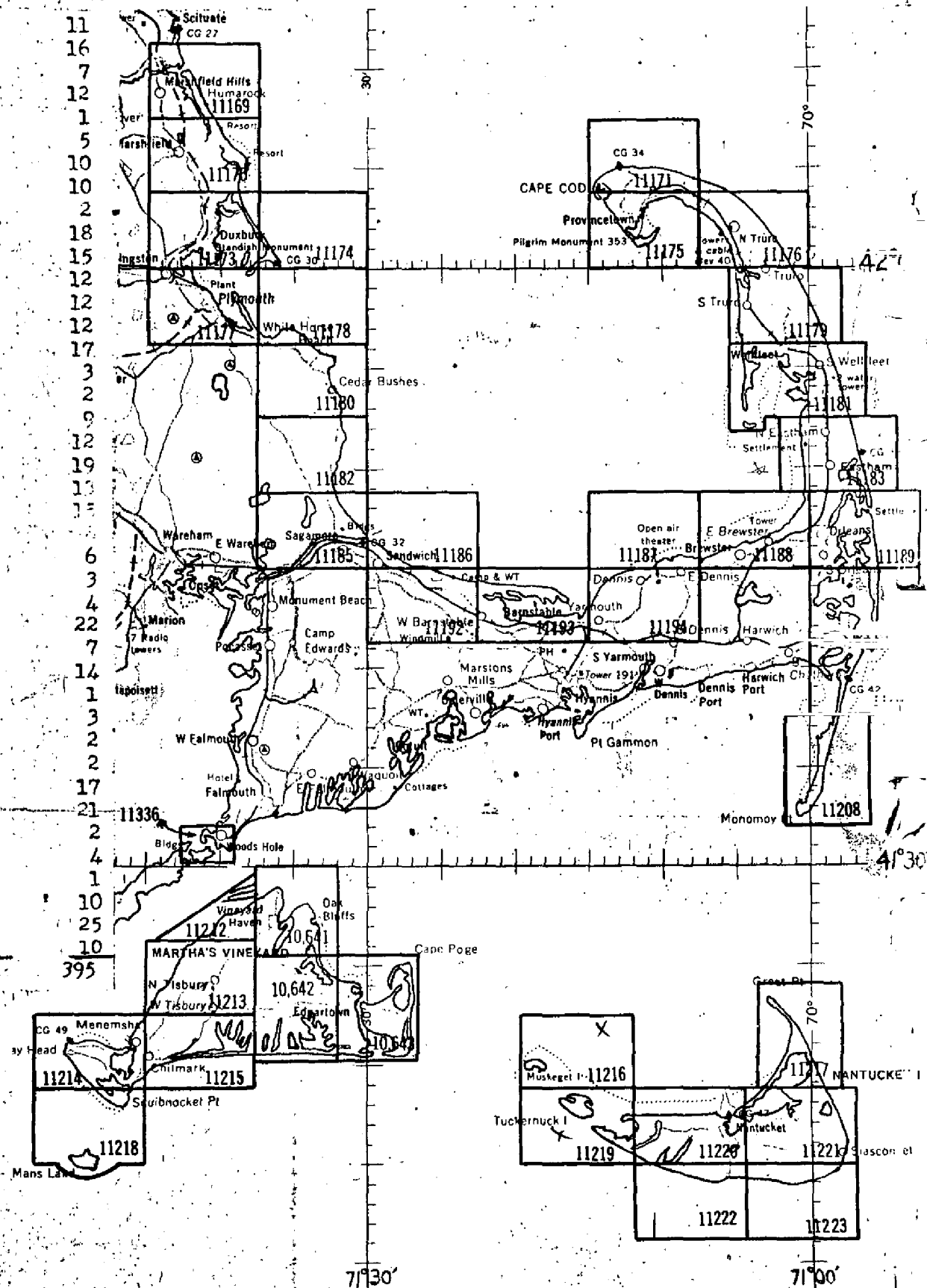
## CAPE COD, MASS.

5

Official Mileage for Cost Accounts

Net lin. Mi. Area  
Shoreline Sq. Mi.

11169	24	11
11170	12	16
11171	10	7
11172	26	12
11174	6	1
11175	18	5
11176	12	10
11177	14	10
11178	4	2
11179	15	18
11180	9	15
11181	31	12
11182	7	12
11183	23	12
11185	8	17
11186	6	3
11187	5	2
11188	13	9
11189	20	12
11192	5	19
11193	32	13
11194	7	15
11196	14	6
11203	24	3
11208	14	3
11212	12	4
11213	7	22
11214	22	7
11215	25	14
11216	5	1
11217	22	3
11218	9	2
11219	12	2
11220	24	17
11221	20	21
11222	6	2
11223	7	4
11336	7	1
10641	18	10
10642	12	25
10643	10	10
TOTALS	607	395



71°30'

71°00'

6

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 black-line 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

7  
2

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



8  
13

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. G. Blankenhorn*

(9) 4

FIELD INSPECTION REPORT  
Project ~~27130~~ PH-116

Maps  
T-9080, F-9081, T-9082, T-11212, T-11213  
T-11214, T-11215 and T-11218

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 DPO-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-W-5070 through -5083, -5086, -5093, -5094, -5096, -5098  
-5100 through -5102, -5106, 5111 through -5113, -5115, -5120  
through -5122, DPO-3K-43 and 44.

(10)

### 3. HORIZONTAL CONTROL

One third order triangulation station was established, EDGARTOWN HARBOR LIGHT, 1956. See Special Report, Third-Order Triangulation, Project 27190.

Two third order traverse stations of the Massachusetts Geodetic Survey, 30G5A (MGS) 1936 (T-9080) 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-9080

BOWMANS POINT, 1845  
CHAPPAQUANSETT 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-9081

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

#### T-9082

CENTER BETWEEN TWO MAST (E.END) 1943  
CENTER MAST OF FIVE (E.END) 1943  
EAST EDGARTOWN, 1943  
EDGAR (MGS) 1936  
HERRING POND, 1845  
KATAMA, 1949  
TRUCK, 1943

T-11212:

ALFRED, 1887  
MAKONIKKY HOTEL CUPLOLA, 1904  
NORTON B'ULDER, 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 SPIRE, 1887  
WEST TISBURY, 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  
NASHA QUITSA CLIFF, 1845  
TOWER, 1943  
TRUCK (W.END) 1943  
WEEQUOBSKA, 1887

T-11218:

NO MANS LAND FLAGSTAFF, 1887  
NO MANS LAND WEST, 1887  
SQUIBNOCKET, 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 5441 of the Topographic Manual, Part II and Project Instructions.

There are two airports on Marthas Vineyard, Marthas Vineyard Airport and a Trade Wind Flying Service. The latter is a small airport near Oak Bluffs, the runways are sod and will only accomodate 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:

Miles above mouth	Body of Water	Type	Hor. Cl.	Ver. Cl. (above MHW)
0	Lagoon Pond	Bascule	32.0 ft.	16.3 ft.
.05	Sengekontacket Pond	Fixed	15.0 ft.	7.4 ft.
.05	"	"	13.5 ft.	11.6 ft.
	Poncha Pond	"	14.4 ft.	7.2 ft.

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. Beugnet*  
Leo F. Beugnet  
Cartographic Survey Aid

Approved

*Ira R. Rubottom*  
Ira R. Rubottom  
Chief of Party







COMPILATION REPORT T-11212

PHOTOGRAMMETRIC PLOT REPORT

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

31. DELINEATION

The Kelsh 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.  $41^{\circ}27.70'$  long.  $70^{\circ}38.65'$  and Nobska Pt. Lighthouse, the entrance point on the adjoining survey.

The only other offshore details are rocks.

(16)

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions with T-10641 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 1:31680, surveyed 1942, revised 1951. Only minor differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS

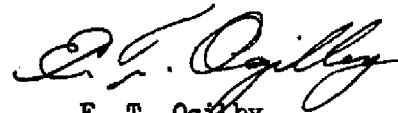
Comparison was made with C&GS Chart No. 1210, scale 1:80,000, 6th edition Feb. 10, 1943; revised Aug. 12, 1957. The map listed under Item 46 may be the source of topography for the chart, because the same differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.



E. T. Ogilby  
Carto Photo Aid

Approved and Forwarded:  
A. I. Wardwell, Chief of Party

SUPPLEMENTAL COMPILATION REPORT

17

T-11212

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*

John C. Richter  
Carto. (Photo.)

Approved and Forwarded

William E. Randall  
CDR, USCG  
Baltimore District Officer

*corrections applied*

MOST OF THE CORRECTIONS WERE  
APPLIED TO A CONAR (ADVANCE)  
COPY - WORK ACCOMPLISHED  
AS A PART OF A 6102  
PH

19

50

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.

4a 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 along-shore cultural features M.M.S.

PHYSICAL FEATURES

20. Water features M.M.S. 21. Natural ground cover M.M.S. 22. Planetable 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. Slavney William A. Rasure

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
	No. 2390 - 1:20,000 - 1897
	No. 1845 - 1:10,000 - 1888
T-11213	No. 1845 - 1:10,000 - 1888
	No. 2390 - 1:20,000 - 1897
T-11214	No. 1844 - 1:2,500 - 1888
	No. 1846 - 1:10,000 - 1888
	No. 2389 - 1:20,000 - 1897
T-11215	No. 2389 - 1:20,000 - 1897
	No. 2391 - 1:20,000 - 1898
T-11218	No. 1856 - 1:5,000 - 1888
	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  
Naushon 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  
S. G. Blankenbaker

Approved by:

Charles L. Lenn  
Chief, Photogrammetric Branch

L. F. Woodcock  
Chief, Photogrammetry Division      Chief, Nautical Chart  
Division

GEOGRAPHIC NAMES

T-11212

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. Wraight*

A. J. Wraight  
Geographic Branch

# TIDE COMPUTATION

PROJECT NO. Ph-27190-11212

Time and date of exposure Oct 2 15 Mar 1955 Reference station Newport R.I. Mean range 2.1  
 Date of field inspection 6/26/56 Subordinate station Off Lake Tashmoo Spring Rg 2.5  
 Ratio of ranges 0.6

	Time		Height feet	Height x Ratio of ranges	High tide at Ref. Sta.	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station	Time	
	h.	m.				h.	m.				h.	m.
High tide	11	24	3.2	4.6		9	39				2	52
Low tide	4	37	0.1	0.1		4	45				1	45
Duration of rise or fall	6	47		1.8		11	24				4	37

	h.	m.			feet		feet	Photo. No.
Time <del>H. T.</del> or L. T.	4	37	Ht. <del>H. T.</del> or L. T.		0.1	Feature bares	1.0	55 W 5119
Required time	7	30	Tabular correction		0.8	Stage of tide above MLW	0.9	* 2nd Wash MHW
Interval	2	53	Stage of tide above MLW		0.9	Feature above MLW	1.9	
Time <del>H. T.</del> or L. T.	4	37	Ht. <del>H. T.</del> or L. T.		0.1	Feature bares	2.0	55 W 5119
Required time	8	00	Tabular correction		1.0	Stage of tide above MLW	0.9	* (1)
Interval	3	23	Stage of tide above MLW		1.1	Feature above MLW	3.1	
Time H. T. or <del>L. T.</del>	11	24	Ht. H. T. or <del>L. T.</del>		1.9	Feature bares	1.0	55 W 5119
Required time	8	10	Tabular correction		1.0	Stage of tide above MLW	1.9	* 2nd Wash MHW
Interval	3	14	Stage of tide above MLW		1.0	Feature above MLW	2.0	
Time H. T. or <del>L. T.</del>	11	24	Ht. H. T. or <del>L. T.</del>		1.9	Feature bares	12.0	55 W 5119
Required time	9	20	Tabular correction		0.4	Stage of tide above MLW	1.5	* (12)
Interval	2	04	Stage of tide above MLW		1.8	Feature above MLW	13.8	
Time H. T. or <del>L. T.</del>	11	24	Ht. H. T. or <del>L. T.</del>		1.9	Feature bares	3.0	55 W 5120
Required time	9	30	Tabular correction		0.4	Stage of tide above MLW	1.5	* (3)
Interval	1	54	Stage of tide above MLW		1.8	Feature above MLW	4.8	
Time H. T. or <del>L. T.</del>	11	24	Ht. H. T. or <del>L. T.</del>		1.9	Feature bares	1.0	55 W 5120
Required time	9	40	Tabular correction		0.3	Stage of tide above MLW	1.8	* (1)
Interval	1	44	Stage of tide above MLW		1.8	Feature above MLW	2.8	

M-2617-12

Computed by E. J. O'Reilly Checked by 115



# TIDE COMPUTATION

PROJECT NO. Ph-27190 T-11212

Time and date of exposure 10.52 15 March 1955 Reference station Newport, R.I.

Mean range 2.1  
Spring Mg 2.5

Date of field inspection

Subordinate station

Off Lake Tashmoo

Ratio of ranges 0.60

	Time		Height feet	Height x Ratio of ranges
	h.	m.		
High tide	14	10	2.3	1.4
Low tide	6	55	0.4	0.2
Duration of rise or fall	7	15		1.2

	Time		High tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
	12	25			
	1	45			
	14	10			

	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
	h.	m.			
	5	10			
	1	45			
	6	55			

	h.	m.	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	feet	Photo. No.
Time H. T. or L. T.	14	10								
Required time	10	52								
Interval	3	18								
Time H. T. or L. T.										
Required time										
Interval										
Time H. T. or L. T.										
Required time										
Interval										
Time H. T. or L. T.										
Required time										
Interval										
Time H. T. or L. T.										
Required time										
Interval										

(23)

M-2617-12

Computed by E. A. Quinn Checked by 115

Map Manuscript	Body of Water	Type	Hor. Cl.			Vert. Cl.		
			Bridge Book	Chart	Field Report	Bridge Book	Chart	Field Report
T-10641	Lagoon Pond	Bascule	30°	30°	32.0°	32°	15.3°	14° 16.3°
T-10641	Scuppernon Pond	Fixed	-	-	15.0°	15°	-	7.4° 8°
T-10642	"	"	13.3°	-	13.5°	13.5°	5.2°	- 11.6° 7°
T-10643	Pouch Pond	"	-	-	14.4°	14°	-	- 7.2° 8°
T-11214	Marshy Pond to Stonewall Pond	"	-	-	-	14°	-	- 4°

Tabulation of Bridge Clearance Discrepancies on Project 116-  
Marthas Vineyard, Mass. by the Tampa Office

(29)

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

Box 254  
Morgan City, La.

POST OFFICE ADDRESS:

12 February 1957

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

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-dm, 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. Hubotton

Ira R. Hubotton  
Comdr., USCGS  
Chief of Party

IRH/

