

**T-11215**

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey **PLANIMETRIC**Field No. Office No. **T-11215**

## LOCALITY

State **MASSACHUSETTS**General locality **MARTHA'S VINEYARD**Locality **CHILMARK**1955 - 1961

## CHIEF OF PARTY

**I. R. Rubottom, Chief of Field Party**  
**Arthur L. Wardwell, Tampa Photo. Office**

LIBRARY &amp; ARCHIVES

DATE

**T-11215****T-11215**

DESCRIPTIVE REPORT - DATA RECORD

T - 11215

\* See note at bottom of  
Page

Project No. (II): **Ph-116**

Quadrangle Name (IV):

Field Office (II): **East Providence, R. I.**

Chief of Party: **I. R. Rubottom**

Photogrammetric Office (III): **Tampa, Florida (1957)**  
**Baltimore, Maryland (1961)**  
**Wash. D.C. (1965)**

Officer-in-Charge: **Arthur L. Wardwell**

Instructions dated (II) (III):

**Instructions, Project Ph-116, Field, Supp. II, 7/9/53**

" " " " " **III, 8/11/53**

**Amend. to Instructions, Project 6116, 11/30/55**

**Instructions, Project 6116, Field, Supp. IV, 4/17/56**

" **Office, 5/21/57**

**Instructions dated 10 May 1961 (PH-6102)**

**W.E. Randall**  
**J.E. Wierwagh**  
Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): **Kelsh Plotter**

Manuscript Scale (III): **1:10,000**

Stereoscopic Plotting Instrument Scale (III): **1:5,000**

Scale Factor (III): **Pantographed to 1:10,000**

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

Vertical Datum (III): **MLW**

~~Mean low water~~ 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): **HANCOCK, 1887**

Lat.:

Long.:

Adjusted

~~mean adjusted~~

Plane Coordinates (IV):

State: **MASS.**

Zone: **Island**

Y= **127,161.25**

X= **156,125.13**

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.

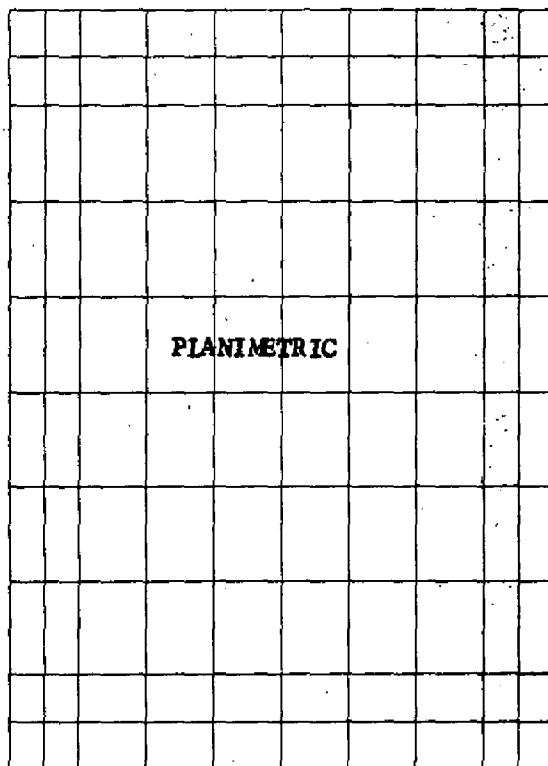
\* Note: The Descriptive Report "Summary" includes information concerning  
revision work accomplished in 1961 & 1965

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

70 45.00

41 22.50



41 18.75

70 37.5

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **J. R. Smith**

Date: **April - June 1956**

Planetable contouring by (II): **Inapplicable**

Date:

Completion Surveys by (II): **Inapplicable**

Date:

Mean High Water Location (III) (State date and method of location): **June 1956**  
**Air Photo Compilation**

*1961 infrared tide controlled photography*

Projection and Grids ruled by (IV): **J. B. Phillips (W. O.)**

Date: **21 May 1957**

Projection and Grids checked by (IV): " "

Date: **21 May 1957**

Control plotted by (III): **Washington Office**

Date:

Control checked by (III): **I. I. Saperstein**

Date: **Sept. 1957**

~~Control extension by (III):~~ **Stereoscopic**

Control extension by (III): **Washington Office**

Date:

Stereoscopic Instrument compilation (III): **Planimetry**  
**I. I. Saperstein**  
~~Control~~

Date:

Date: **Oct. 1957**

Manuscript delineated by (III): **I. I. Saperstein**

Date: **Oct. 1957**

*Manuscript revised Bernice Wilson*  
*" " E. Rolle - M. Weber*

*Sept. 1961*  
*1965*

Photogrammetric Office Review by (III): **M. M. Slavney**

Date: **Dec. 1957**

Elevations on Manuscript  
checked by (II) (III):

**Inapplicable**

Date:

# DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III):

**Wild Aviogon C&GS**

## PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55W-5076	15 March 1955	1022	1:25,000	1.5
" -5077	"	1022	"	1.5
" -5078	"	1023	"	1.5
" -5079	"	1023	"	1.5
" -5080	"	1024	"	1.5
" -5087	"	1029	"	1.5
61L 1519-1521	9 APRIL 1961	1450	1:30,000 (inferred)	+0.4 (above MHW)
61M (C) 035-038	12 APRIL 1961	1655	1:60,000	
61S (C) 7694-7701	3 May 1961	1655	1:15,000	+0.4 (above MLW)
61S (C) 7805-7812	5 May 1961	0655	1:15,000	+0.15 (above MLW)

Tide (III)  
**Predicted (1955)**

Reference Station: **NEWPORT**  
Subordinate Station: **OFF CHILMARK POND**  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
-	3.5	4.4
HW-0.6	2.9	3.5
LW-0.0		

Washington Office Review by (IV): **S.B. Blankenbaker**

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): **14**  
Shoreline (More than 200 meters to opposite shore) (III): **21 statute miles**  
Shoreline (Less than 200 meters to opposite shore) (III):  
Control Leveling - Miles (II): **0**  
Number of Triangulation Stations searched for (II): **10** Recovered: **5** Identified: **5**  
Number of BMs searched for (II): **0** Recovered: **0** Identified: **0**  
Number of Recoverable Photo Stations established (III): **1\***  
Number of Temporary Photo Hydro Stations established (III): **0**

Remarks:

**\* This station is a landmark. No 524 was submitted.**

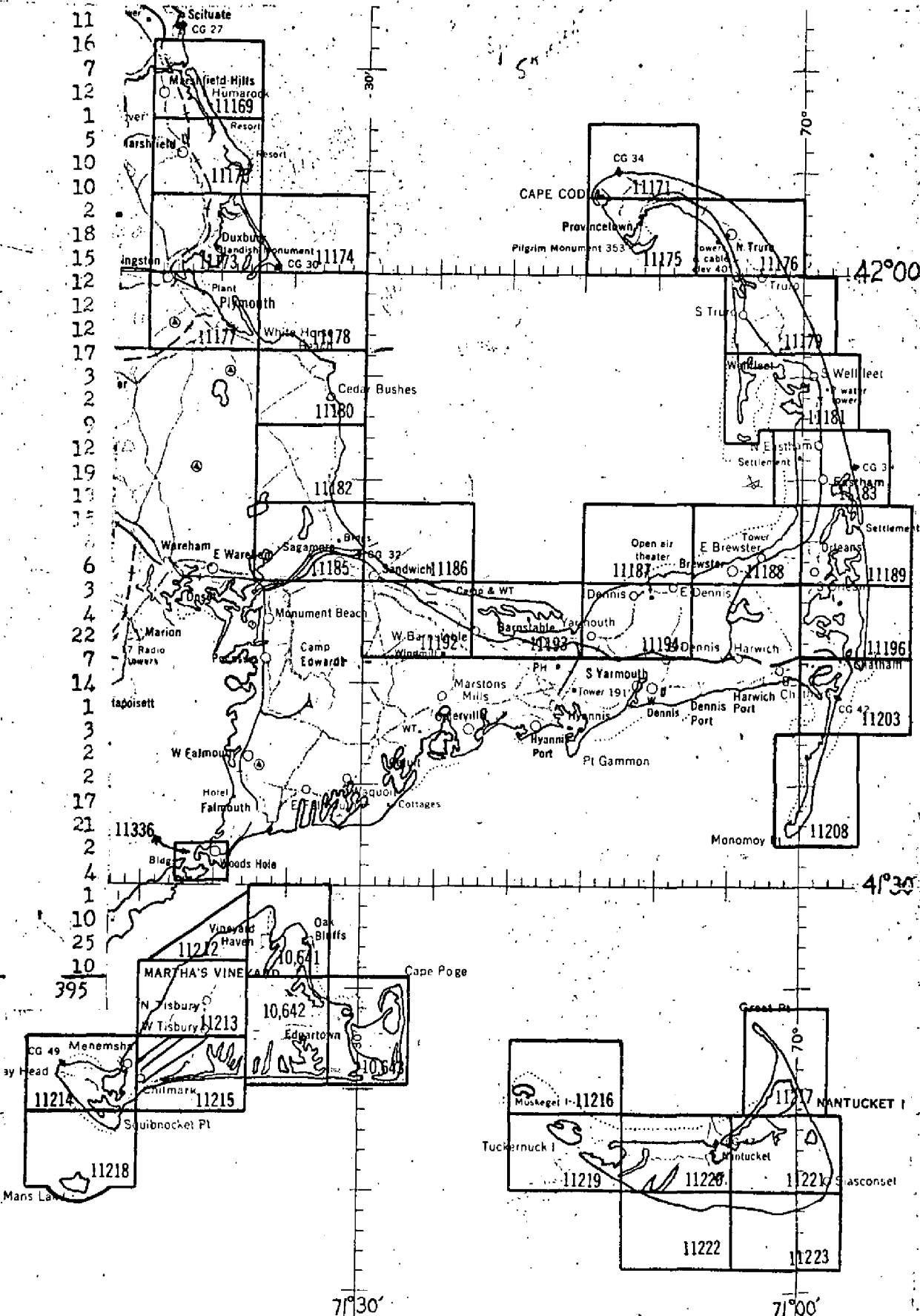
**\* Tide controlled photography**

# CAPE COD, MASS.

5

Official Mileage for Cost Accounts  
 Feet lin. Mi. Area  
 Sq. Mi.

1169	24	11
1170	12	16
1171	10	7
1172	26	12
1173	6	1
1174	18	5
1175	12	10
1176	14	10
1177	4	2
1178	15	18
1179	9	15
1180	31	12
1181	7	12
1182	23	12
1183	8	17
1184	6	3
1185	5	2
1186	13	9
1187	20	12
1188	5	19
1189	32	13
1190	7	15
1191	14	6
1192	24	3
1193	14	3
1194	12	4
1195	7	22
1196	22	7
1197	25	14
1198	5	1
1199	22	3
1200	9	2
1201	12	2
1202	24	17
1203	20	21
1204	6	2
1205	7	4
1206	7	1
1207	18	10
1208	12	25
1209	40	10
TOTALS	607	395



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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  
3  
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. H. Blankinbaker*

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FIELD INSPECTION REPORT  
Project ~~24190~~ PH-116  
Map T-11215

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

*I. y. Fitzgerald*  
I. A. Fitzgerald  
Photogrammetric Engineer

Approved:  
*I. R. Rubottom*  
I. R. Rubottom  
Chief of Party

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(10)

Bridging Report  
Martha's Vineyard, Mass.  
Project 27190

T-11212 thru T-11215, T-11218, T-9080 thru T-9082

The two northerly strips can be set on the Kelsh with existing control and pass points from one stereoplanigraph bridge. Also 2 models can be set on control and pass points on the southwestern tip of the island.

Two strips (55-W-5093 - 5102 and 5069 - 5083) were bridged on the stereoplanigraph. Model 5102-5103 will have to be set on adjoining pass points and detail because sub station Midway, 1949 could not be held in this bridge. Eleven stations were held in this bridge. Station Chilmark Methodist Episcopal Church, 1939 and sub station Hancock, 1887 which was tied to the church could not be held. Seven stations and 8 pass points were held in this bridge.

Models 55-W-5083-5084, 5092-5093, 5119-5120, 5103-5104 and 57-5-267 thru 269 (No Mans Land) are to be detailed by graphic methods because of large water areas involved.

Only those points used in the bridge were plotted on the manuscripts. They are shown by a red circle and number on the manuscripts. Sheet T-9081 was plotted in 4 sections because of grid distortion on the sheet.

All bridge points are indicated by a blue ink circle and number on the field ratio photographs. The description of each image point is on the back of its respective photograph.

C. E. Cook  
C. E. Cook

Approved:

Morton Keller  
M. Keller

K.H.M.

10  
11

COMPILATION REPORT T-11215

31. DELINEATION

Delineation was done on the Kelsh Plotter. The photographs were clear and no difficulty was encountered in the interpretation of details. The field inspection was adequate.

32. CONTROL

The Stereoplanigraph Bridging Report stated: "Station Chilmark Methodist Episcopal Church, 1939 and Sub. Sta. Hancock, 1887, which was tied to the church, could not be held." When the List of Control was checked in this office, it was found that the x and y coordinates for Chilmark Methodist Episcopal Church had been transposed, and when this was corrected, the "Church" did hold. The compilation position of Sub. Sta. Hancock is on the line from Hancock to the field position of the Sub. Sta. but is about 3.11 m.m. (31 meters or 100 ft.) short of the field position. Apparently a 100 ft. error was made in chaining or recording.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details have been shown according to the field inspection and photographic interpretation.

The shoreline inspection was adequate. No low-water line was shown.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

Form 567 for Landmarks is being submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junction was made with the following sheets:

- T-11213 to the north
- T-11214 to the west
- T-10642 to the east
- No contemporary survey to the south

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangles SQUIBNOCKET, MASS. and TISBURY GREAT POND, MASS., scale 1:31,680, surveyed in 1942, revised 1951.

The manuscript and quadrangles compare favorably except that an inlet has now appeared in Tisbury Great Pond connecting it to the Atlantic Ocean.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C&GS Chart 1210, scale 1:80,000, edition of 10 Feb. 1943 revised 12 Aug. 1957.

The maps listed under Item 46 are probably the source of topography for the chart and the same differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*I. I. Saperstein*  
I. I. Saperstein  
Carto Photo Aid

APPROVED AND FORWARDED:

*Arthur L. Wardwell*  
Arthur L. Wardwell  
Chief of Party

SUPPLEMENTAL COMPILATION REPORT  
T-11215

(14)

Ratio prints of the infrared photography were used to revise the high water line by holding common details.

The low water line on the color photographs was found to be close to the highwater line and was not compiled.

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

Respectfully submitted  
19 September 1961

*Bernice Wilson*  
Bernice Wilson  
Carto. (Photo.)

Approved and forwarded

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

*1961  
Note: Corrections applied to  
Cronerflex copy of  
Advance Map*

*Note: The original manuscript could not be  
found for this work - corrections  
were applied to a Cronar (Advance)  
copy of the manuscript.*

*248 dt 1962  
WORK ACCOMPLISHED AS A PART  
OF PH-6102*

15

50.

# PHOTOGRAMMETRIC OFFICE REVIEW

T. 11215

1. Projection and grids MMS 2. Title MMS 3. Manuscript numbers MMS 4. Manuscript size MMS

5. Classification label Unclassified

## CONTROL STATIONS

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

## ALONGSHORE AREAS

(Nautical Chart Data)

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

## PHYSICAL FEATURES

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

## CULTURAL FEATURES

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

## BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

## MISCELLANEOUS

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

40. M. M. Slavney  
M. M. Slavney Reviewer

William A. Rasure  
Supervisor, Review Section or Unit  
Wm. A. Rasure

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. Henn  
Chief, Photogrammetric Branch

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

GEOGRAPHIC NAMES

T-11215

Abel Hill  
Allen Point  
Atlantic Ocean  
Black Point Pond  
Chilmark  
Chilmark Pond  
Cobbs Point  
Deep Bottom Cove  
Flat Point  
Fulling Mill Brook  
Gilberts Cove  
Homer Pond  
Long Cove  
Long Point  
Marthas Vineyard  
Meetinghouse Road  
Menemsha Cross Road  
Middle Point Cove  
Middle Road  
Mill Brook  
Muddy Cove  
Nabs Corner  
North Road  
Peaked Hill  
Prospect Hill  
Quansoo  
Quansoo Road  
Quenames Cove  
Ridge Hill

Rocky Bluff  
Roaring Brook  
Scrubby Neck  
Short Cove  
South Road  
Tabor House Road  
Thumb Cove  
Tiasquam River  
Tiah Cove  
Tiah Cove Road  
Tisbury Great Pond  
Tississa  
Town Cove  
Wades Cove  
Wequobsque Cliffs

*A. J. Wraight*

A. J. Wraight  
Chief, Geographic Branch

**TO BE CHARTED**

**STRIKE OUT ONE**

**Tampa, Florida**

12 Dec. 1957

## MONITORING AND RECORDING LANDMARKS FOR CHARTS

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

The positions given have been checked after listing by

# I. I. Sapirstein

[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. The data should be considered for the charts of the area and not by individual field survey sheets. Information on the charted landmarks and *nonfloating aids* to navigation shall be reported on this form.

# TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-116 T-11215

Time and date of exposure

Reference station

NEWPORT

Mean range

3.5  
2.9  
-0.6 HW  
Ratio of ranges 0.04W

Date of field inspection

Subordinate station

Ratio of ranges

4 June 56

OFF CHILMARK POND

	Time	
	h.	m.
High tide	15	58
Low tide	8	44
Duration of rise or fall	7	14

	Height		Height x Ratio of ranges
	feet		
High tide	3.7	✓	3.1
Low tide	0.0	✓	0.0
Range of tide			3.1

	Time	
	h.	m.
High tide at Ref. Sta.	15	58
Time difference		00
Corrected time at Subordinate station	15	58

	Time	
	h.	m.
Low tide at Ref. Sta.	8	44
Time difference		00
Corrected time at Subordinate station	8	44

	h.	m.	Height feet	Height x Ratio of ranges	Time	Photo. No.
Time <del>H. T.</del> or L. T.	8	44	Ht. <del>H. T.</del> or L. T.			
Required time	10	00	Tabular correction			
Interval	1	16	Stage of tide above MLW			
Time <del>H. T.</del> or L. T.	8	44	Ht. <del>H. T.</del> or L. T.			
Required time	10	10	Tabular correction			
Interval	1	26	Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			

COMM-DC-57848

Computed by

115

Checked by

*[Signature]*

(20)

## TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-116 T-11215

S. Row 9.5

Time and date of exposure 1023 15 Mar 1955

Reference station NEWPORT

Mean range 2.9

HW = -0.6

Date of field inspection 28 June 1956

Subordinate station Off Chilmark Pond

Ratio of ranges LW = 0.0

	Time	
	h.	m.
High tide	12	25
Low tide	5	10
Duration of rise or fall	7	15

	Height feet	Height x Ratio of ranges
High tide	2.3	1.7
Low tide	0.4	0.4
Range of tide		1.3

	Time	
	h.	m.
High tide at Ref. Sta.	12	25
Time difference		00
Corrected time at Subordinate station	12	25

	Time	
	h.	m.
Low tide at Ref. Sta.	5	10
Time difference		00
Corrected time at Subordinate station	5	10

	h.	m.	feet	feet	Photo. No.
Time H. T. or L. T.	12	25	1.7	Feature bares	55 W 5079
Required time	10	23	0.2	Stage of tide above MLW	
Interval	2	02	1.5	Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	

Computed by 115

Checked by

