

T-11213**T-11213****T-11213**

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	PLANIMETRIC
Field No.	Office No. T-11213
LOCALITY	
State	MASSACHUSETTS
General locality	MARTHA'S VINEYARD
Locality	MIDDLETON
1955-61 *	
CHIEF OF PARTY I. R. Rubottom, Chief of Field Party Arthur L. Wardwell, Tampa Photo. Office	
LIBRARY & ARCHIVES	
DATE	

* 1955-1961

DESCRIPTIVE REPORT - DATA RECORD
T-11213

①

OBJECT NO. (II):

27190 - (PH-116)

FIELD OFFICE (III):

East Providence, R.I.

CHIEF OF PARTY

I.R. Robottom

PHOTOGRAMMETRIC OFFICE (III):

Tampa, Florida 1958

Baltimore, Md. 1961

Washington, D.C. 1965

OFFICER-IN-CHARGE

A.L. Wardwell

W.E. Randall

J.E. Waugh

Project PH-116

Instructions, Field, Supplement II, 9 July, 1953

Instructions, Field, Supplement III, 11 Aug., 1953

Amendment to Instructions 30 Nov., 1955

Instructions, Field, Supplement IV, 17 April, 1956

Instructions, Office 21 May, 1957

Project 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):

1 April 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):

***** EXCEPT AS FOLLOWS: MHW

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):

Indian, 1835

LAT.:

LONG.:

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 156,538.39

x = 151,182.62

STATE

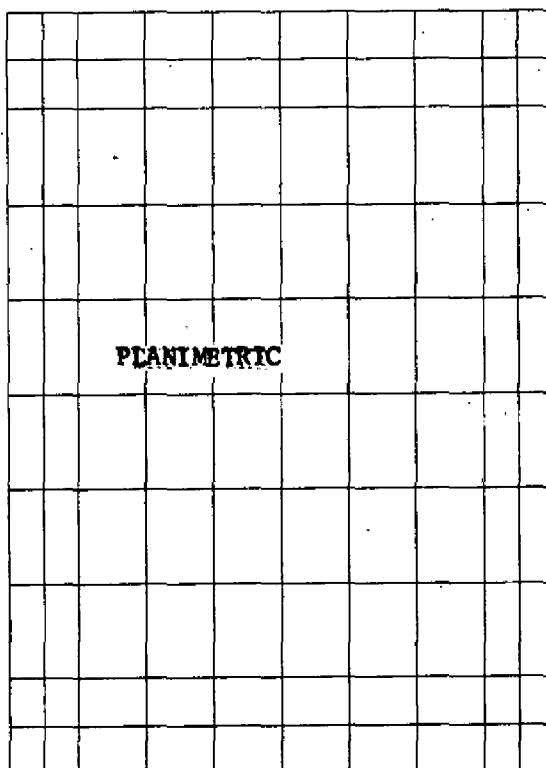
Mass.

ZONE

Island
(Lambert)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



41 26.25

41 22.50

Areas contoured by various personnel 70 30.5
(Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD
T-11213

(3)

FIELD INSPECTION BY (II): J.R. Smith		DATE: April - June 1956
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): June 1956 - Air photo compilation 1961 tide controlled infrared photography		
PROJECTION AND GRIDS RULED BY (IV): W.O. (J.B.P.)		DATE: 21 May 1957
PROJECTION AND GRIDS CHECKED BY (IV): W.O. (J.B.P.)		DATE: 21 May 1957
CONTROL PLOTTED BY (III): Washington Office E.T. Ogilby		DATE: 21 May 1957 Dec. 1957
CONTROL CHECKED BY (III): W.W. Pawsey		DATE: Dec. 1957
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Washington Office		DATE:
STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh		PLANIMETRY W.W. Dawsey DATE: Jan. 1958
		CONTOURS DATE:
MANUSCRIPT DELINEATED BY (III): W.W. Dawsey J.C. Richter (revision) J.C. Richter (revision)		DATE: Jan. 1958 1961 1965
SCRIBING BY (III):		DATE:
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): M.M. Slayney		DATE: Feb. 1958
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD
T-11213

(4)

CAMERA (KIND OR SOURCE) (III):

Wild C&GS

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
55W-5093	15 Mar. 1955	10:37	1:25,000	1.0 ft. above MLW
55W-5094	15 Mar. 1955	10:37	1:25,000	1.0 ft. above MLW
55W-5095	15 Mar. 1955	10:37	1:25,000	1.0 ft. above MLW
55W-5096	15 Mar. 1955	10:39	1:25,000	1.0 ft. above MLW
55W-5113	15 Mar. 1955	10:47	1:25,000	1.0 ft. above MLW
55W-5114	15 Mar. 1955	10:47	1:25,000	1.0 ft. above MLW
55W-5115	15 Mar. 1955	10:47	1:25,000	1.0 ft. above MLW
55W-5116	15 Mar. 1955	10:49	1:25,000	1.0 ft. above MLW
61L-1306 thru 1309	9 April 1961	14:35	1:30,000	+0.4 (MHW)
61S(C)7785 thru 7790	5 May 1961	06:45	1:15,000	MLW
1961 Photography				- observed tides

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Predicted 1955 Newport, R.I.	-	3.5	4.4
COORDINATE STATION: Cedar Tree Neck	-	2.3	2.8
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): S.G. Blankenbaker

DATE:
Oct. 1965

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

11

RECOVERED:

7

IDENTIFIED:

5

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

(TBM) 5

RECOVERED:

4

IDENTIFIED:

1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

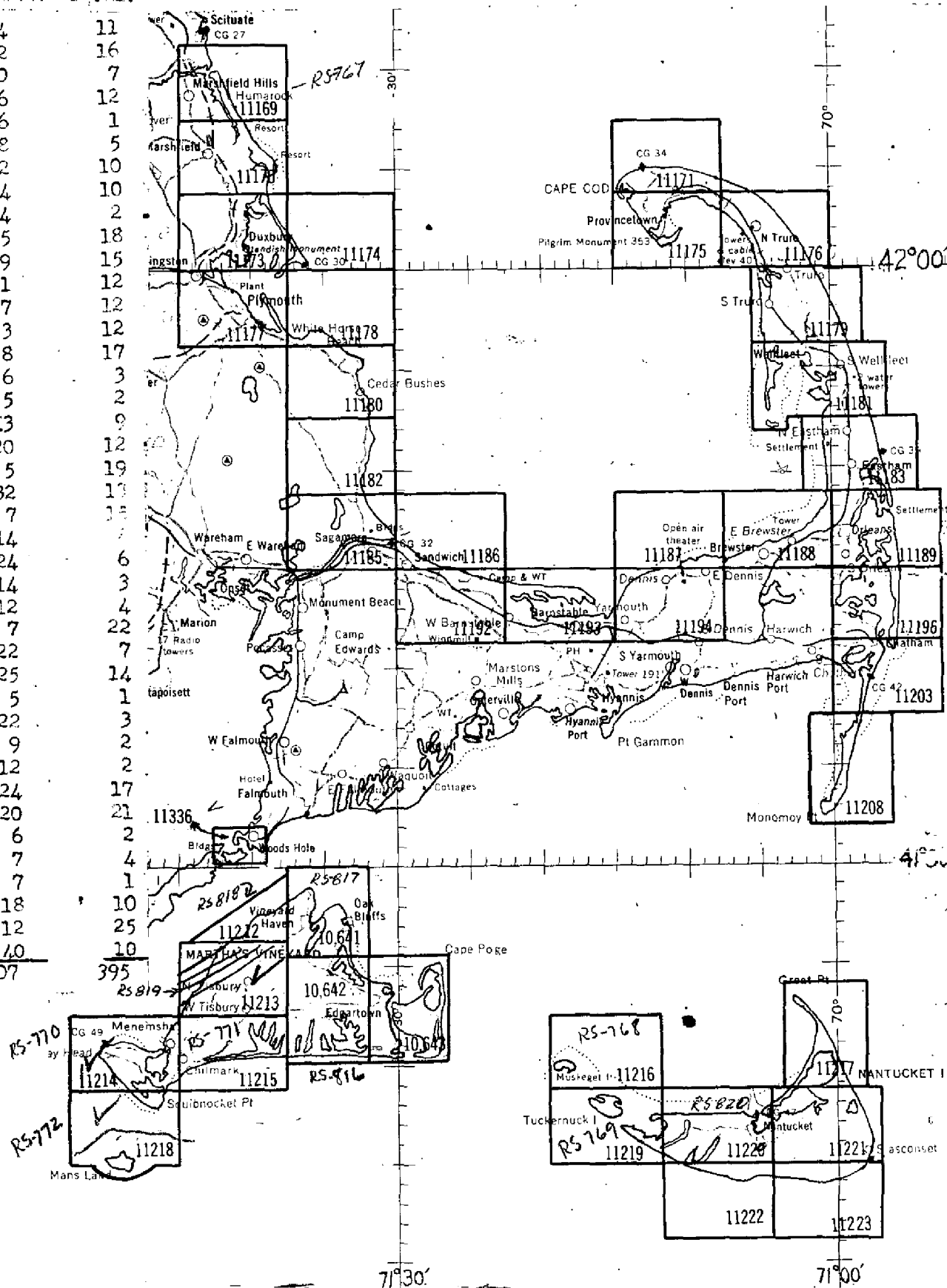
SHORELINE MAPPING PROJECT PH-116

CAPE COD, MASS.

5

Official Mileage for Cost Accounts
Sheet Lin.Mi. Area
No. 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	19
11194	7	15
11196	14	7
11198	24	6
11198	14	3
11198	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



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

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

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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.

S. S. Blankenship

FIELD INSPECTION REPORT
Project ~~27190~~ PH-116
Map T-11213

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

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

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

Martha's Vineyard Plane coordinates

island zone

3

MAP T. 11213

PROJECT NO. 27190

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -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 FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
INDIAN 1835	P1 Co-ord. 1927 p193	N.A. 1927 15.2 zone	156538.39 ✓ 151182.62 ✓				
INDIAN 1835 Sub point	comp.		156515.59 ✓ 151183.06 ✓	✓ by Denver			P1 E.T.O. ✓ W.W.D.
JOHN 1943	P15		138170.07 ✓ 143554.56 ✓				P1 W.W.D. ✓ E.T.O.
JOHN 1943 Sub point	comp.		138216.56 ✓ 143087.346 ✓	✓ by Denver			
WHITING 1887	P18		147600.56 ✓ 144458.88 ✓				P1 W.W.D. ✓ E.T.O.
WHITING 1887 Sub point	comp.		147710.35 ✓ 144424.66 ✓				
WEST TISBURY CHURCH SPIRE 1887	P19		138918.53 ✓ 151850.14 ✓				
CEDAR TREE NECK 1887	P18		158027.26 ✓ 144842.70 ✓				✓ E.T.O.
CEDAR TREE NECK, 1887 sub pt.	comp.		157919.23 ✓ 144751.72 ✓				(10) ✓ E.T.O.
CLAY PITS 1887	P20		190716.90 ✓ 146766.79 ✓	716.90 (4283.10)			P1 W.W.D. ✓ R.R.W.
BRICKYARD CHIMNEY 1887	P19		137374.73 ✓ 132812.77 ✓	1766.79 (3233.21) 2374.73 (2625.27) 2812.77 (2187.23)			P1 W.W.D. ✓ R.R.W.

1 FT. = 3048006 METER

COMPUTED BY: Keller

DATE 5/17/57

CHECKED BY: Cook

DATE 5/21/57

(11) 9.

COMPILATION REPORT T-11213

PHOTOGRAMMETRIC PLOT REPORT

21 through 30

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

31. DELINEATION

Kelsh Plotter was used. Field inspection was adequate.

32. CONTROL

Photographs 55-W-5093 to 55-W-5097, the southern flight, were bridged with the stereoplanigraph.

The northern flight, photographs 55-W-5113 through 55-W-5116, were fixed on triangulation and points from the southern flight.

With the exception of stereoplanigraph point #933 all control held. Point #933 falls about 1.5 mm. (15 meters) north of the position furnished this office.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage was delineated from notes furnished by the field inspector and as interpreted from the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was satisfactory for delineation of shoreline features. The approximate limits of rocky areas have been shown according to the field inspection.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

One landmark was located. Form 567 for Landmarks for Charts is being submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

To the north - T-11212 - Satisfactory
To the east - T-10641-T-10642 - Satisfactory
To the south - T-11215 - Satisfactory
To the west - No contemporary survey

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with two U. S. Geological Survey topographic quadrangles, both scale 1:31,680: - VINEYARD HAVEN, MASS. surveyed in 1942, revised in 1951; and NAUSHON ISLAND, MASS. surveyed in 1941, revised in 1949. Only minor differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with USC&GS Chart No. 249, scale 1:40,000, corrected to June 1957; and No. 1210, scale 1:80,000, corrected to August 1957. Only minor differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

W. W. Dawsey
for W. W. Dawsey
Carto Photo Aid

APPROVED AND FORWARDED:

William A. Rasur
for Arthur L. Wardwell
Chief of Party

(14)

SUPPLEMENTAL COMPILATION REPORT

T-11213

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

The low water line from the color photographs was found to be very close to the high water line and was not compiled.

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, C&GS
Baltimore District Officer

*on station applied to
initial manuscript*

Most of the corrections were
applied to a CONAR (ADVANCE)
COPY - WORK ACCOMPLISHED
AS A PART OF PH-6102

TO BE CHARTED

STRIKE OUT ONE

TAMPA PHOTO. OFFICE

19 March 1948

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

The positions given have been checked after listing by

SIXTY. W. W. Dawsey

Arthur L. Wardwell *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. 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.

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50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11213

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

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 XX 14. Rocks, shoals, etc. MMS 15. Bridges XX 16. Aids to navigation XX 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 MMS 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. Lenson
Chief, Photogrammetric Branch

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

GEOGRAPHIC NAMES

(19)

T-11213

Cape Higgon
Crocker Pond
Davis Pond
Edgartown-West Tisbury Road
Fisher Pond
Fisher Road
Great Plains
Grey Pond
Goat Rocks
Harlock Pond
Indian Hill Road
James Pond
Lamberts Cove Road
Marthas Vineyard
Marthas Vineyard State Forest
Middle Road
Mill Brook
Music Street
North Road
North Tisbury
Old House Pond
Old Vineyard Haven Road
Paint Mill Brook
Panhandle Road
Priester Pond
Roaring Brook
Seths Pond
South Road
Tea Lane
Tiah Cove Road
Tiasquam River
Tisbury Great Pond

Vineyard Haven Road
Vineyard Sound
West Tisbury
Whiting Hill
Witch Brook



A. J. Wraight
Chief, Geographic Branch

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-27190 T 11213

10:37

Time and date of exposure ~~MAR 15 1955~~

Reference station NEWPORT R.I.

Mean range 2.3

Date of field inspection JUNE 22 1956

Subordinate station CEDAR TREE NECK

Ratio of ranges

8:30

High tide	8 18	Time	h.	m.
Low tide	13 51	High tide at Ref. Sta.	7	33
Duration of rise or fall	5 33	Time difference	+	45
		Corrected time at Subordinate station	8	18
		Low tide at Ref. Sta.	13	06
		Time difference	+	45
		Corrected time at Subordinate station	13	51

Time H. T. or L. T.	h.	m.	Height feet	Height x Ratio of ranges	feet	Photo. No.
Time H. T. or L. T.	8 18		Ht. H. T. or L. T.		2.1	5093
Required time Interval	8 30		Tabular correction		0.0	
	12		Stage of tide above MLW		2.1	
Time H. T. or L. T.	8 18		Ht. H. T. or L. T.		2.1	5115
Required time Interval	10 00		Tabular correction		.3	
	1 42		Stage of tide above MLW		1.8	
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time Interval			Tabular correction			
			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time Interval			Tabular correction			
			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time Interval			Tabular correction			
			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time Interval			Tabular correction			
			Stage of tide above MLW			

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COMM-DC-57848

Computed by W. W. D. Checked by 24 MAR 56

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph. 27190 T - 11213

Time and date of exposure

MAR 15 1955

Reference station

NEWPORT

Mean range

2.3

Date of field inspection

6-248-56

Subordinate station

CEDAR TREE NECK

Ratio of ranges

	Time	
	h.	m.
High tide	13	10
Low tide	15	55
Duration of rise or fall	7	15

	Height feet	Height x Ratio of ranges
High tide	2.3	1.1
Low tide	0.4	0.4
Range of tide		1.7

	Time	
	h.	m.
High tide at Ref. Sta.	12	25
Time difference	7	45
Corrected time at Subordinate station	13	10

	Time	
	h.	m.
Low tide at Ref. Sta.	5	10
Time difference	7	45
Corrected time at Subordinate station	5	55

	h.	m.	Height feet	Height x Ratio of ranges	feet	feet	Photo. No.
Time H. T. or L. T. Required time Interval	13	10	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		1.1 1.1 1.0	1.0	55-W-5093
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW				
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW				
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW				
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW				
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW				
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW				

COMM-DC-57848

Computed by

WWD

Checked by

RCS

(21)

