

T-11214

Original

T-11214

T-11214

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>Planimetric</u>	
Field No.	Office No. <u>T-11214</u>
LOCALITY	
State	<u>Massachusetts</u>
General locality	<u>Marthas Vineyard</u>
Locality	<u>Cay Head</u>
<u>1955</u> 1956 - 1961	
CHIEF OF PARTY	
I. R. Rubottom	Field Chief of Party
Arthur L. Wardwell	Tampa Photo Office
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T-11214

(1)

PROJECT NO. (III):

PH-116

FIELD OFFICE (III):

East Providence, R.I.

CHIEF OF PARTY

I.R. Rubottom

PHOTOGRAMMETRIC OFFICE (III): Tampa, Florida 1956
Baltimore, Md. 1961
Washington, D.C. 1965OFFICER-IN-CHARGE A.L. Wardwell
W.E. Randall
J.E. Waugh

INSTRUCTIONS DATED (III) (III):

PROJECT PH-116

Instructions, Field, Supplement II 9 April, 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):

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):

~~MEAN LOW WATER~~ 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):

Molasha Hill 2, 1887

LAT.:

LONG.:

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 125,010.88

X = 117,445.47

Mass.

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

(2)

T-11214

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

DESCRIPTIVE REPORT - DATA RECORD

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T-11214

CAMERA (KIND OR SOURCE) (III):

Wild C&GS

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
55W-5081	15 Mar. 1955	10:24	1:25,000	+ 1.2
55W-5082	15 Mar. 1955	10:25	1:25,000	+ 1.2
55W-5083	15 Mar. 1955	10:25	1:25,000	+ 1.2
55W-5086	15 Mar. 1955	10:28	1:25,000	+ 1.2
61L-1510 - 1518	9 April 1961	14:45	1:30,000	+ 0.4 (MHW)
61S(c) 6574 - 6582	9 April 1961	08:55	1:15,000	+ 0.8 above MLW
7667 - 7675	3 May 1961	16:35	1:15,000	+ 0.2 above MLW
7683 - 7684	3 May 1961	16:45	1:15,000	+ 0.3 above MLW
7688 - 7693	3 May 1961	16:55	1:15,000	+ 0.4 above MLW
7791 - 7798	5 May 1961	06:45	1:15,000	0.0 MLW
7799 - 7804	5 May 1961	06:50	1:15,000	0.15 above MLW

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Predicted 1955 Newport, R.I.	-	3.5	4.4
COORDINATE STATION: Menemsha Bight	-	2.7	3.4
SUBORDINATE STATION: Gay Head Off Chilmark Pond		3.0 2.9	3.6 3.5

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

DATE:
Oct. 1965

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

13

RECOVERED:

6

IDENTIFIED:

5

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

5 (TBM)

RECOVERED:

4

IDENTIFIED

1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

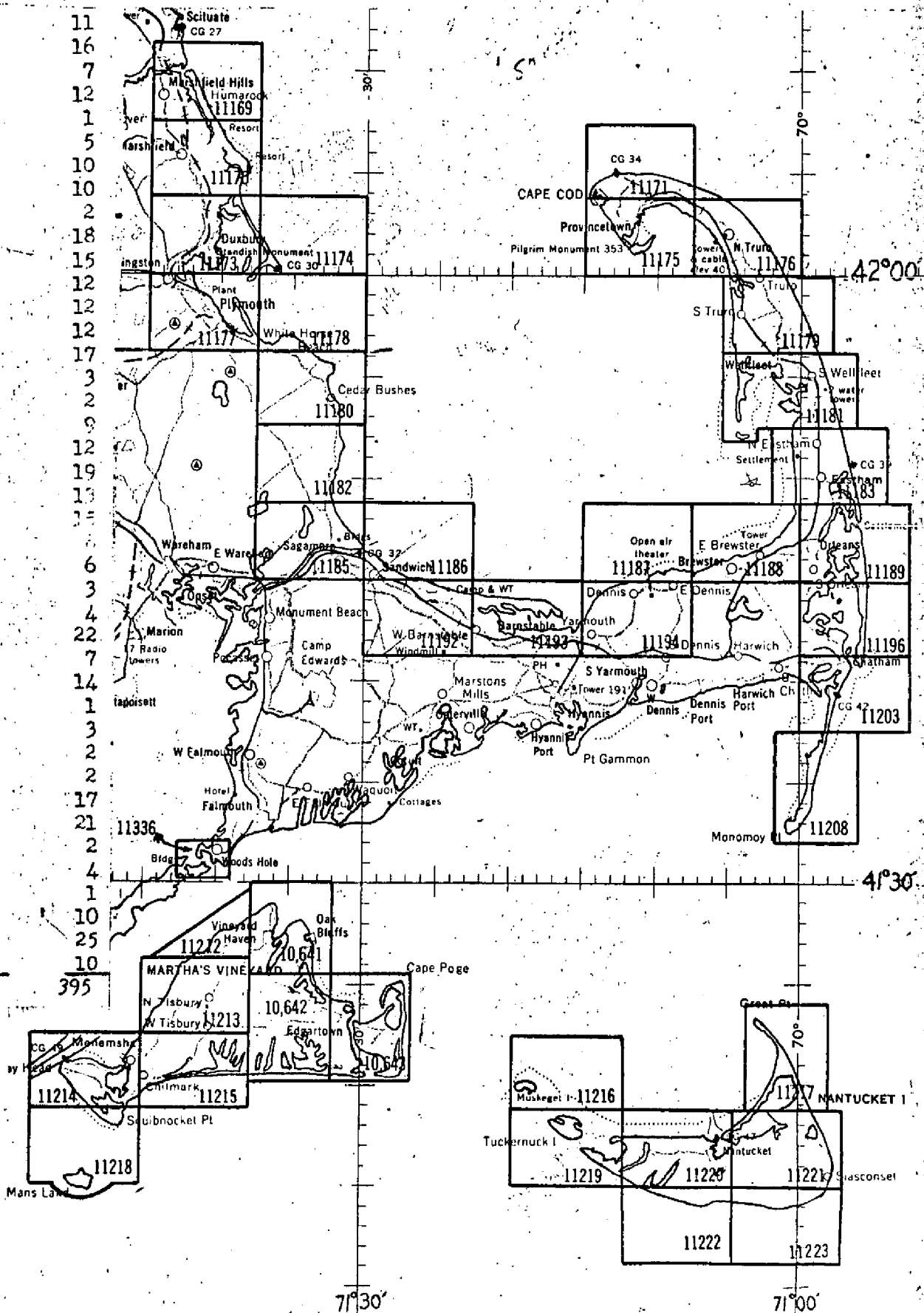
REMARKS:

CAPE COD, MASS.

4

Official Mileage for Cost Accounts
 Feet Lin. Mi. Area
 Shoreline Sq. Mi.

1169	24	11
1170	12	16
1171	10	7
1172	26	12
1174	6	1
1175	18	5
1176	12	10
1177	14	10
1178	4	2
1179	15	18
1180	9	15
1181	31	12
1182	7	12
1183	23	12
1185	8	17
1186	6	3
1187	5	2
1188	13	9
1189	20	12
1192	5	19
1193	32	13
1194	7	15
1195	14	6
1196	24	3
1197	14	4
1198	12	22
1199	7	7
1200	22	14
1201	25	1
1202	5	1
1203	22	3
1204	9	2
1205	12	2
1206	24	17
1207	20	21
1208	6	2
1209	7	4
1210	7	1
1211	18	10
1212	12	25
1213	40	10
1214	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

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.

FIELD INSPECTION REPORT
Project 27190
Map T-11214

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

(10)

COMPILATION REPORT T-11214PHOTOGRAMMETRIC PLOT REPORT

21 through 30.

A stereoplanigraph bridge run in the Washington Office controlled photographs 55W-5080, 5081, 5082 and 55W-5083. The Bridging Report is submitted with the Descriptive Report for T-11215. Model 55W-5086 - 55W-5087 was set up on identified control.

Two stereoplanigraph points could not be held. The position of point 835 as shown on the compilation is about 1.6 mm (16 meters) south southeast of the Washington Office position. Point 814 moved about 2.0 mm (20 meters) south of the Washington Office position.

31. DELINEATION

The Kelsh Plotter was used. Field inspection was satisfactory.

32. CONTROL

Refer to Item 21 through 30.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage has been delineated according to field inspection notes and photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate for delineation of shoreline features. The approximate low-water line has been delineated according to field inspection notes.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Form 567 for Aids to Navigation and for Landmarks are being submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-11218 to the south and T-11215 to the east. There is no contemporary survey to the north and west, these being bounded by Vineyard Sound and Rhode Island Sound.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U. S. Geological Survey quadrangle SQUIBNOCKET, MASS., scale 1:31,680, surveyed in 1942, revised in 1951. Only minor differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C&GS Chart No. 1210, scale 1:80,000 6th edition, Feb. 10, 1943, revised August 12, 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.


Rexford E. Smith Jr.

Approved and forwarded:

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

SUPPLEMENTAL COMPILATION REPORT

T-11214

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

The low water line from the color photographs was found to agree closely with the line already compiled. No changes or additions were made.

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

Respectfully submitted
19 September 1961

John C. Richter
John C. Richter

Approved and Forwarded

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

*Corrections applied to
manuscript + corrected
positive
copy*

MOST OF THE CORRECTIONS WERE
APPLIED TO A CRONAR (ADVANCE)
COPY

WORK ACCOMPLISHED AS A
PART OF PH 6102

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T- 11214

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

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 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 M.M.S. 13. Low-water line M.M.S. 14. Rocks, shoals, etc. M.M.S. 15. Bridges M.M.S. 16. Aids to navigation M.M.S. 17. Landmarks M.M.S. 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 XX 37. Descriptive Report M.M.S. 38. Field inspection photographs M.M.S. 39. Forms M.M.S. 40. M. M. Slavov William A. Rasure
Reviewer 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. Lensen
Chief, Photogrammetric Branch

L. S. Woodward
Chief, Photogrammetry Division

Chief, Nautical Chart
Division

GEOGRAPHIC NAMES

T-11214

Black Brook
Black Pond
Bliss Pond
Devils Bridge
Gay Head
Lily Pond
Long Beach
Lobsterville
Lobsterville Road
Marthas Vineyard
Menemsha
Menemsha Bight
Menemsha Cross Road
Menemsha Inlet
Menemsha Pond
Nashaquitsa
Nashaquitsa Cliffs
Nashaquitsa Pond
North Road
Occooch Pond
Rhode Island Sound
Squibnocket Bight
Squibnocket Pond
Stonewall Beach
Stonewall Pond
Vineyard Sound
Zacks Cliffs

A. J. Wright

A. J. Wright
Chief, Geographic Branch

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Photogrammetric Review Branch

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**TO BE CHARTED
TO BE DELETED**

STRIKE OUT ONE

Tampa World

18 October, 1957

I recommend that the following objects which have ~~(been inspected)~~ 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 Rexford E. Smith Jr.

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.

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Photogrammetric Review Branch

**TO BE CHARTED
TO BE DELETED**

STRIKE OUT ONE

Branch _____ **AERONAUTICAL**
ENGINEERING STANDARDS FOR CHARTS

Tampa, Florida

16 October 1957

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

The positions given have been checked after listing by Reedford E. Smith Jr.

Arthur L. Haddrell

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.

M-2836.3

PROJECT NO. Ph. 116 T F-11214

NEWPORT R.I.

Time and date of exposure	Reference station
10:28	March 15, 1953

Date of field inspection June 4 1956 ✓

Mean range

Spring;

Ratio of ranges

	Time	
	h.	m.
Low tide at Ref. Sta.	8	44
Time difference	0	00
Corrected time at Subordinate station	8	44

feet		feet	Photo. No.
0.0 ✓	Feature bares	4.0 ✓	5086
0.1 ✓	Stage of tide above MLW	0.1 ✓	(1) RK
0.1 ✓	Feature above MLW	4.1 ✓	
0.0 ✓	Feature bares	7.4 ✓	5086
0.1 ✓	Stage of tide above MLW	0.1 ✓	Buck's
0.1 ✓	Feature above MLW	7.5 ✓	4972 60120 M1 NW
	Feature bares		
	Stage of tide above MLW		
	Feature above MLW		
	Feature bares		
	Stage of tide above MLW		
	Feature above MLW		
	Feature bares		
	Stage of tide above MLW		
	Feature above MLW		
	Feature bares		
	Stage of tide above MLW		
	Feature above MLW		
	Feature bares		
	Stage of tide above MLW		
	Feature above MLW		

COMM-DC-57848

Computed by

Checked by _____

TIDE COMPUTATION

PROJECT NO. Ph-~~2778~~¹¹⁶T-11214

Time and date of exposure 1031 MAR 15 1955 Reference station

Date of field inspection 23 June 1956 Subordinate station Menemsha Bright

Mean range

Spring 3.4

Ratio of ranges

	Time		Height x Ratio of ranges
	h.	m.	
High tide	7	56 ✓	3.3 ✓
Low tide	13	31 ✓	0.1 ✓
Duration of rise or fall	5	33 ✓	2.4 ✓

	Time	
	h.	m.
High tide at Ref. Sta.	7	33
Time difference	+0	25
Corrected time at Subordinate station	7	58

	Time	
	h.	m.
Low tide at Ref. Sta.	13	06
Time difference	10	25
Corrected time at Subordinate station	13	31

	h. m.	
Time H. T. or L. T. Required time Interval	7 58' 7 50' - 08'	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW
Time H. T. or L. T. Required time Interval	7 58' 8 00' 02'	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW
Time H. T. or L. T. Required time Interval	7 58' 8 20' 22'	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

feet		feet	Photo. No.
2.5'	Feature bares	3.0' ✓	55 W 5093
0.0'	Stage of tide above MLW	2.5' ✓	(3) ✓
2.5'	Feature above MLW	5.5' ✓	
2.5'	Feature bares	2.0' ✓	55 W 5093
0.0'	Stage of tide above MLW	2.5' ✓	(2) ✓
2.5'	Feature above MLW	4.5' ✓	
2.5'	Feature bares	3.0' ✓	55 W 5093
0.0'	Stage of tide above MLW	2.5' ✓	(3) ✓
2.5'	Feature above MLW	5.5' ✓	
	Feature bares		
	Stage of tide above MLW		
	Feature above MLW		
	Feature bares		
	Stage of tide above MLW		
	Feature above MLW		
	Feature bares		
	Stage of tide above MLW		
	Feature above MLW		

Computed by

Checked by

W 351712

TIDE COMPUTATION

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph- 118 T- 11214

Time and date of exposure 10:35 15 May 1956 Reference station NEWPORT, R. I.

Mean range 3.0
Spring

Date of field inspection June 23, 1956

Subordinate station GAY HEAD

Ratio of ranges ---

	Time	
	h.	m.
High tide	7	43
Low tide	13	16
Duration of rise or fall	5	33

	Height		Height x Ratio of ranges
	feet	ft	
High tide	3.3	0.05	2.8
Low tide	0.1	0.0	0.1
Range of tide			2.7

	Time	
	h.	m.
High tide at Ref. Sta.	7	33
Time difference	+	0 10
Corrected time at Subordinate station	7	43

	Time	
	h.	m.
Low tide at Ref. Sta.	13	06
Time difference	0	10
Corrected time at Subordinate station	13	16

	h.	m.		feet	Photo. No.
Time H. T. or L. T.	13	16	Feature bars	1.0	55W-5089
Required time	11	20	Stage of tide above MLW	0.8	Rk
Interval	1	56	Feature above MLW	1.8	(2)
Time H. T. or L. T.	13	16	Feature bars	4.0	Rk
Required time	11	20	Stage of tide above MLW	0.8	(2)
Interval	1	56	Feature above MLW	4.8	
Time H. T. or L. T.	13	16	Feature bars	2.0	Rk
Required time	11	30	Stage of tide above MLW	0.7	QWASH
Interval	1	46	Feature above MLW	2.7	MHW
Time H. T. or L. T.	13	16	Feature bars	2.0	Rk
Required time	11	30	Stage of tide above MLW	0.7	QWASH
Interval	1	46	Feature above MLW	2.7	MHW
Time H. T. or L. T.	13	16	Feature bars	5.0	Rk
Required time	11	35	Stage of tide above MLW	0.7	(5)
Interval	1	41	Feature above MLW	5.7	
Time H. T. or L. T.			Feature bars		
Required time			Stage of tide above MLW		
Interval			Feature above MLW		

Computed by P. E. Smith

Checked by E. J. O.

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. PH-116 T-112.14

Time and date of exposure 10:25 MAR 15 1955 Reference station NEWPORT, R.I.
 Date of field inspection June, 1954 Subordinate station MENEMSHA BIGHT
 Mean range 2.7
 Spring " 2.4
 Ratio of ranges -----

	Time		Height feet	Height x Ratio of ranges	Range of tide	Time		Low tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time	
	h.	m.				h.	m.		h.	m.
High tide	13	20	2.3 - 0.8	1.5	High tide	12	55	Low tide at Ref. Sta.	5	10
Low tide	5	35	0.4 0.0	0.4	Low tide	19	20	Time difference	40	25
Duration of rise or fall	7 45		1.1		Range of tide			Corrected time at Subordinate station	5	35

	h.	m.	feet	feet	Photo. No.
Time H. T. or L. T. Required time Interval	13	20	1.5	Feature bares Stage of tide above MLW Feature above MLW	55W-5082 #81
Time H. T. or L. T. Required time Interval	10	25	0.3	Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval	2	55	1.2	Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	

COMM-DC-57848

Computed by R.E. Smith Checked by RRL

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. 116 ~~2750~~ T-112/4

Time and date of exposure 10:25 Mar 15, 1955 Reference station NEWPORT, R.I. Mean range 3.0
Date of field inspection June 3, 1956 Subordinate station GAY HEAD Spring " 3.6
Ratio of ranges

For Photo 5083

	Time		Height feet	Height x Ratio of ranges	Time		Time h. m.
	h.	m.			h.	m.	
High tide	12	05	2.3	1.8	High tide at Ref. Sta.	12	55
Low tide	5	20	0.4	0.4	Time difference	+0	10
Duration of rise or fall	7	45		1.4	Corrected time at Subordinate station	13	05
					Low tide at Ref. Sta.	5	10
					Time difference	+0	10
					Corrected time at Subordinate station	5	20

	h. m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
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						
Time H. T. or L. T. Required time Interval						
Time H. T. or L. T. Required time Interval						

COMM - DC - 57848

Computed by P. E. Smith Checked by RLW

(25)

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. 118 ~~1748~~ T-11214

Time and date of exposure 10:28 MAR 15/1955

Reference station

NEWPORT, R.I.

Mean range

2.9
Spring 3.5

Date of field inspection

June, 1956

Subordinate station

OFF CHILMARK POND

Ratio of ranges

	Time	
	h.	m.
High tide	12	55
Low tide	5	10
Duration of rise or fall	7	45

	Height		Height x Ratio of ranges
	feet		
High tide	2.3	-0.6	1.7
Low tide	0.4	0.0	0.4
Range of tide			1.3

	Time	
	h.	m.
High tide at Ref. Sta.	12	55
Time difference	0	00
Corrected time at Subordinate station	12	55

	Time	
	h.	m.
Low tide at Ref. Sta.	5	10
Time difference	0	00
Corrected time at Subordinate station	5	10

	h.	m.		feet		feet	Photo. No.
Time H. T. or L. T.	12	55	Ht. H. T. or L. T.	1.7	Feature bares		
Required time	10	28	Tabular correction	0.3	Stage of tide above MLW		
Interval	2	27	Stage of tide above MLW	1.4	Feature above MLW		55W-5086
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares		
Required time			Tabular correction		Stage of tide above MLW		
Interval			Stage of tide above MLW		Feature above MLW		

COMM-DC-57848

Computed by

P.E. Smith

Checked by

[Signature]

(24)

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph. 116 T 11214

Time and date of exposure June 23, 1956 Reference station NEWPORT, R.I. Mean range 3.0
Date of field inspection June 23, 1956 Subordinate station GAY HEAD Spring 3.6
Ratio of ranges 1.2

	Time		Height feet	Height x Ratio of ranges	Time	
	h.	m.			h.	m.
High tide	7	33	3.3	0.1	7	33
Low tide	13	06	0.1	0.1	0	10
Duration of rise or fall	5	33		2.7	7	43

	h. m.		Height feet	Height x Ratio of ranges	Time h. m.	Photo. No.
	h.	m.				
Time High L. T.	13	16				
Required time	11	00				
Interval	2	16				
Time High L. T.	13	16				
Required time	11	00				
Interval	2	16				
Time High L. T.	13	16				
Required time	11	10				
Interval	2	06				
Time High L. T.	13	16				
Required time	10	45				
Interval	2	31				
Time High L. T.	17	43				
Required time	10	13				
Interval	2	32				

Computed by P. E. Smith Checked by AKW
COMM. DC. 57848 (27)

