T-10643
T-10643A

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. ..... *Office No.* 10643
10643A

LOCALITY

State Massachusetts

General locality Martha's Vineyard

Locality Edgartown

1955 - 1961*

CHIEF OF PARTY

I.R.Rubottom Chief of Field Party
J.E.Waugh, Tampe (1957); W.O. (1964)
~~W.E.Rundall, Baltimore (1961)~~

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

*10643A: date 1964

T-10643
T-10643A

T-10643
T-10643A

FORM C&GS-181a
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-10643 and T-10643A

(1)

PROJECT NO. (II):

PH-116

FIELD OFFICE (II):

East Providence, R.I.

CHIEF OF PARTY

I.R. Rubottom

PHOTOGRAMMETRIC OFFICE (III):

T-10643 Tampa, Fla. 1957
T-10643 Baltimore, Md. 1961 revision
T-10643A Washington, D.C., 1965

OFFICER-IN-CHARGE

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

INSTRUCTIONS DATED (II) (III):

Field, Supp. II, 9 July 1953
Field, Supp. III, 11 Aug. 1953
Office, 3 Feb., 1954
Office, 12 Feb., 1954
Office, Amendment, 30 Nov. 1955
Office, Supp., 8 May 1961
Field, Supp. IV, 17 April 1956

METHOD OF COMPILATION (III):

10643 - Kelsh
10643A - B-8 instrument

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

Kelsh 1:4,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

~~XXXXXXXXXXXX~~ 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):

Sampson 1845

LAT.:

LONG.:

☐ ADJUSTED
☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 137,771.63 ft. X = 204,375.08 ft.

STATE

Mass.

ZONE

Island

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

USCOMM-DC 16276-P61

(2)

FORM C&GS-181b
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-10643 and T-10643A

FIELD INSPECTION BY (II):	DATE:
J.R. Smith	April - June 1956

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Field measurements, June 1956
Office interpretation, April 1961 (revision, infrared photography)
Office interpretation, Oct. 1964 (T-10643A), infrared photography)

PROJECTION AND GRIDS RULED BY (IV):	DATE
W.O.	

PROJECTION AND GRIDS CHECKED BY (IV):	DATE
W.O.	

CONTROL PLOTTED BY (III):	DATE
Washington, D.C.	

CONTROL CHECKED BY (III):	DATE
R.E. Smith	July, 1957

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE
T-10643: Stereoplanigraph bridge - C.E. Cook; T-10643: Kelsh models - R.E. Smith; T-10643A: Radial Plot J.P.Battley	1955 1965

STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
R.E. Smith *J.Phillips (T-10643A)		
	CONTOURS	DATE July - Aug 1957 *1965

MANUSCRIPT DELINEATED BY (III):	DATE
R.E. Smith J.C. Richter (Shoreline revision) J. Phillips (T-10643A)	Sept. 1957 June 1961 1965

SCRIBING BY (III):	DATE

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	DATE
J.A. Giles R. Glaser (1961 revision review) J.P. Battley (T-10643A)	Sept. 1957 June 1961 1965

REMARKS:

USCOMM-DC 16276-P61

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

(3) (4)

Camera (kind or source) (III): **Wild**

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55-W-5069	15 March 1955	1018	1:20,000	0.6
55-W-5070 F	"	1018	"	0.6
55-W-5071 F	"	1019	"	0.6
55-W-5072 F	"	1020	"	0.6
55-W-5101 V	"	1040	"	0.3
55-W-5102 V	"	1040	"	0.3
55-W-5103 V	"	1041	"	0.3
55-W-5104	"	1041	"	0.3
55-W-5106 V	"	1043	"	0.3
105 V				

Tide (III)

Ratio of Ranges	Mean Range	Spring Range
0.46	1.6	2.0
0.23	2.2	2.6

Reference Station: **NEWPORT; BOSTON ***
Subordinate Station: **Wasque Point, Chappaquiddick I.**
* Subordinate Station: **Cape Page, Chappaquiddick I.**

Washington Office Review by (IV): S. G. 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): **11**
Shoreline (More than 200 meters to opposite shore) (III): **42 miles (scaled)***
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): **18** Recovered: **10** Identified: **7**
Number of BMs searched for (II): **4** Recovered: **4** Identified: **1**
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks: **Two (2) Massachusetts Geodetic Survey traverse stations are included in triangulation stations searched for and recovered. One (1) M.G.S. station identified.**

All bench marks searched for were tidal bench marks.

REVISION PHOTOGRAPHS

				OBSERVED TIDE:
COLOR:				
61-S-6688 thru 6690	4-15-61	4:40	1:10,000	+0.4 (low-water)
61-S-6699 thru 6701	4-15-61	4:50	1:15,000	+0.4 (low-water)
61-S-6722	4-15-61	5:08	1:15,000	+0.4 (low-water)
61-S-7821	5-5-61	6:56	1:15,000	+0.1 (low-water)
INFRA-RED				
61-L-1525, 1526	4-9-61	2:50	1:10,000	+0.4 (high water)
61-L-1541 thru 1544	4-9-61	4:22	1:10,000	-0.2 (high water)
61-L-1548 thru 1550	4-9-61	4:29	1:10,000	-0.2 (high water)

COMM-DC-57842

See page 4A - 1964 photographs

* 36 Miles shoreline revised

FORM C&GS-181c
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-10643A

(4)

CAMERA (KIND OR SOURCE) (III): "W" C&GS

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
RA				
64-W-5272 thru 5276	10/4/64	09:00	1:20,000	
5286 thru 5290	10/4/64	09:11	1:20,000	
5295 thru 5299	10/4/64	09:22	1:20,000	

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:			
SUBORDINATE STATION:			
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):		DATE:
PROOF EDIT BY (IV):		DATE:
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	RECOVERED:	IDENTIFIED:
NUMBER OF BM(S) SEARCHED FOR (II):	RECOVERED:	IDENTIFIED
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		

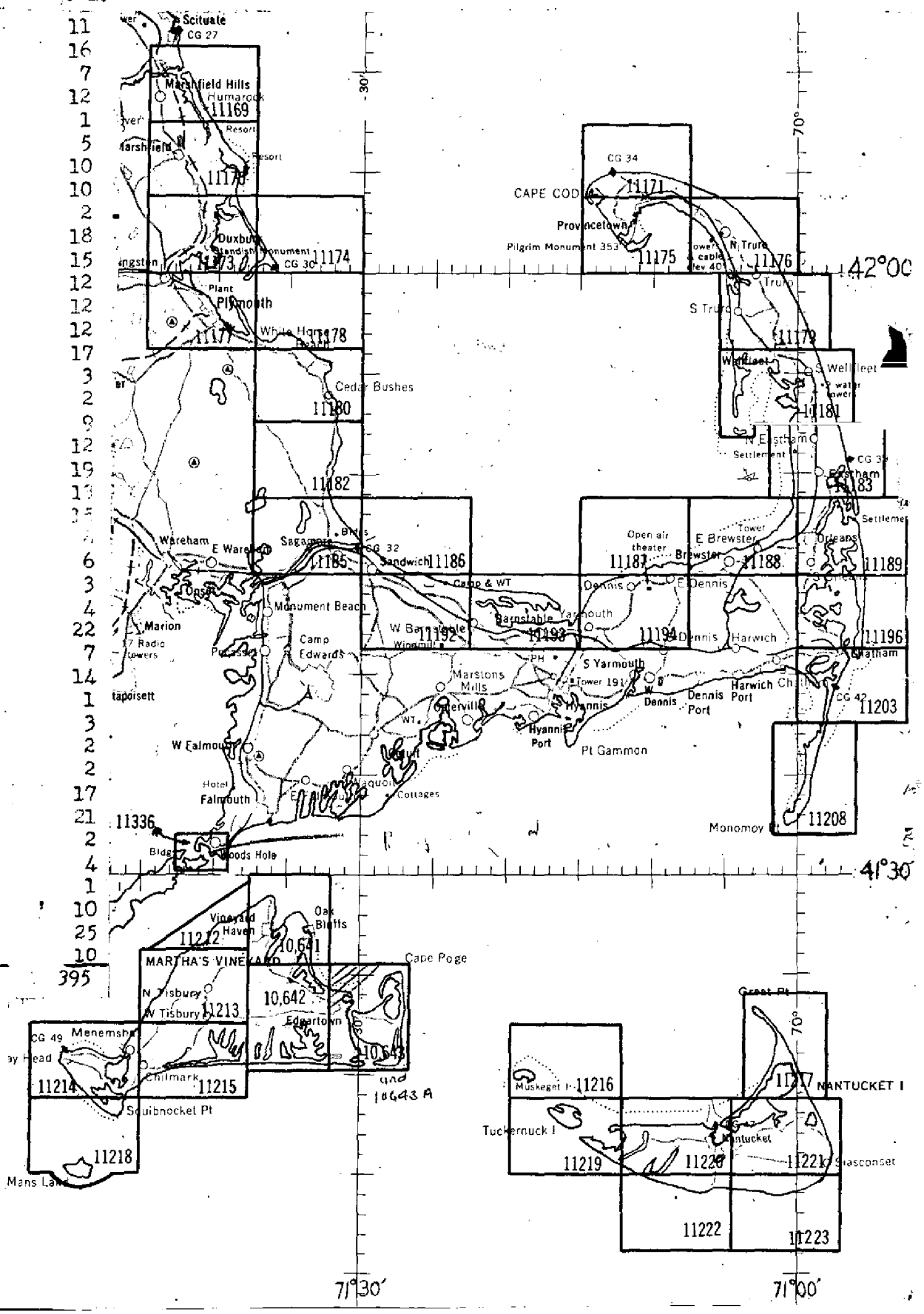
REMARKS:

SHORELINE MAPPING PROJECT PH-116

CAPE COD, MASS.

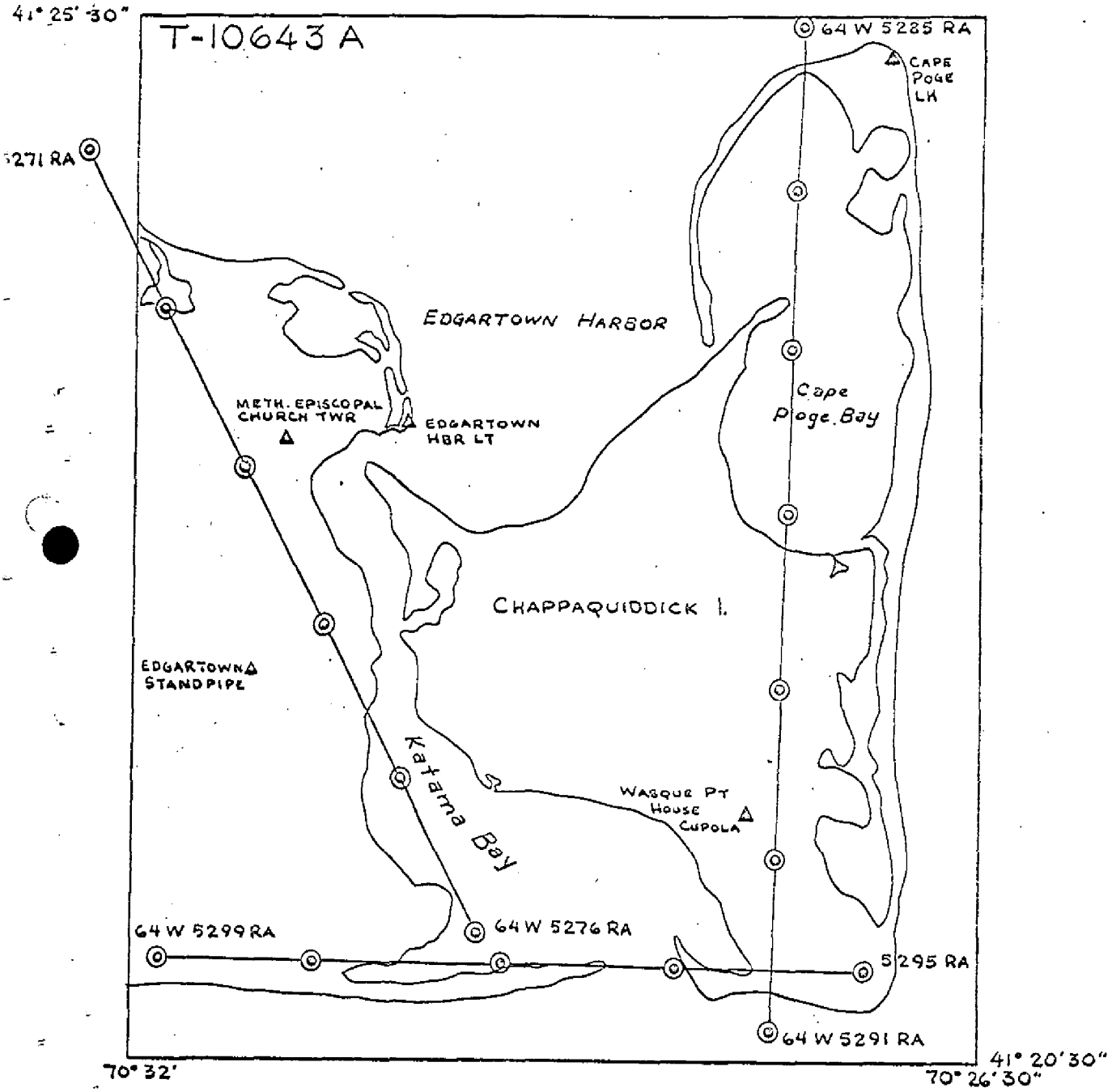
Official Milage for Cost Accounts

Sheet No.	Lin.Mi. Shoreline	Area 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	3
11196	14	2
11203	24	6
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	40	10
TOTALS	607	395



(6)

PROJECT 21005
T-10643A (Supplement to T-10643)
SHORELINE MAPPING
April 1965
LAYOUT SKETCH



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 blackline impressions of T-28081, T-28082, and T-28083 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. From 1961 photos.

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 alongshore 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. T-10643A ALSO REGISTERED

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.

D. G. Blankenbaker

(10)

PHOTOGRAMMETRIC PLOT REPORT
T-10643A
SHORELINE MAPPING
APRIL 1965
PROJECT 21005

The purpose of this project was to supply photo-hydro support and revised shoreline for Martha's Vineyard and Nantucket Island.

Seven manuscripts were needed in the area: T-10642, 10643, 11214, 11215, 11216, 11218 and 11219. (See Project Layout.)

Infra-red photography flown October 4, 1964 was provided to accomplish these objectives.

In order to accurately fix the 1964 photography in position, a radial plot was necessary for T-10643.

A new manuscript was ruled, a radial plot laid, and the shoreline delineated from the 1964 infra-red photography. This manuscript has been designated T-10643A, shoreline manuscript (supplement to T-10643).

21. Area Covered

T-10643 in its entirety.

22. Method

T-10643A was ruled 4-5-65 with a Polyconic Projection and 5000 ft. Mass. State Grid - Island Zone.

The 1964 cronapaque ratio prints were prepared, transferring stereoscopically, conjugate centers, pass points and horizontal control.

Templets were made of these prepared photographs on clear mylar.

The five office-identified triangulation stations held well along with four selected points common to the previous compilation.

Good azimuths and pass point intersections were also achieved for this plot.

The established intersections of all photogrammetric points were pricked and rung up on the back of the manuscript.

23. Adequacy of Control

Utilizing the previously determined pass points on T-10643, selected as being most accurate, the five easily identifiable triangulation stations were considered adequate for positioning the radial plot.

All control held well (see layout sketch).

24. Supplemental Data

See item 23.

25. Photography

Photography was adequate as to coverage, definition and position for hydro-support.

26. thru 30.

None.

Submitted by:
Jeter P. Battley, Jr.
Jeter P. Battley, Jr.
Cartographer

Approved by:
K. N. Maki
K. N. Maki
Chief - Compilation Unit

(12)

FIELD INSPECTION REPORT
~~Project 27190~~ (PH-116)
Map ~~T-9082~~ 10643

Please refer to 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
Chief of Party

(13)

COMPILATION REPORT

T-10643 (T-9082)

PHOTOGRAMMETRIC PLOT REPORT.

21 through 30

Reference Item 32. CONTROL

31. DELINEATION.

The Kelsh Plotter was used. Delineation was done on a black line impression of T-9082. Shoreline and interior changes were made in red ink. Field inspection was satisfactory.

32. CONTROL.

A stereoplanigraph bridge was run in the Washington Office. When orientation of the models indicated control discrepancies, the plotting of all the points was checked, some moved slightly and one moved about 1 mm. Models controlled by triangulation were set up but some adjustments of about 0.8 mm. were required for the stereoplanigraph points. Point 702, apparently misidentified when dropped, falls about 7 mm. (70 meters) west southwest of the stereoplanigraph position. The stereoplanigraph points moved, the approximate distance and directions are:

021	0.7 mm. north
701	0.8 mm. north
702	7.0 mm. west southwest
711	0.7 mm. east northeast
712	0.8 mm. east
721	0.5 mm. east
722	0.5 mm. east

It is noted that when these positions of the pass points were held, identical sharp details of the 1948 stereoplanigraph compilation were held.

33. SUPPLEMENTAL DATA.

The black line impression of T-9082 was the only supplemental data.

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 low-water line was not delineated.

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

38. CONTROL FOR FUTURE SURVEYS.

None

39. JUNCTIONS.

T-10643 to the west has not been compiled. There is no contemporary survey to the north, east and south, these being bounded by Nantucket Sound and the Atlantic Ocean.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

There was good agreement with the 1949 compilation excepting changes along the beaches.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison has been made with C&GS Nautical Chart No. 346, scale 1:20,000, 8th edition, corrected to Aug. 13, 1956. The same changes noted in Item 46 were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rexford E. Smith, Jr.
Carto. Photo. Aid

Approved and Forwarded:

J. E. Waugh, Chief of Party

(16)

SUPPLEMENTAL COMPILATION REPORT * See Addendum

T-10643

The approximate low-water line, breaker areas and the apparent edge of shallow areas were delineated by office interpretation on overlays from the 1:15,000 scale color photographs. These details were then transferred to the manuscript by use of the vertical projector.

Ratio prints of the infrared photography were used to revise the high-water line.

There was no color photo coverage along Edgartown Harbor for approximately 1.2 miles southwest of Cape Poge Gut.

Triangulation station CAPE POGE LIGHTHOUSE, 1928 was rebuilt in 1960. Its approximate new position is shown on the manuscript with a small circle. (See Light List and N. M. 39, 1960) The triangle has been dashed and the old name remains on the manuscript temporarily. **

Respectfully submitted
22 June 1961

R. Glaser

R. Glaser
Carto. (Photo.)

Approved and forwarded

** New position determined by third order triangulation

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

(17) (a)

T-10643

Addendum:

Only those interior details needed for the compilation of Chart 261 have been added or revised from 1961 photography.

(18)

COMPILATION REPORT
T-10643A
PROJECT 21005
APRIL 1965

This manuscript was compiled to provide a base for photo-hydro support. It is one of seven manuscripts required for the 1965 season. (See instructions dated March 12, 1965.)

T-10643A is a supplement to registered survey T-10643.

Due to extensive shoreline changes and a questionable base manuscript (see the Descriptive Report for T-10643), a radial plot was laid with the 1964 infra-red photography covering this manuscript. Refer to the enclosed Plot Report for details.

The 1964 cronapaque ratio prints, used to bridge the plot, was the photography used to delineate the manuscript.

31. Delineation

The manuscript was delineated graphically, holding to pass points established by the radial plot. The MHWL was office interpreted utilizing tide data obtained for the time of photography. Only shoreline and connecting details were compiled.

The 1964 photographs were prepared in the usual manner for photo-hydro support.

32. Control

(See the enclosed Plot Report).

Photogrammetric pass points afforded an accurate positioning of compiled details.

33. Supplemental Data

T-10643, previously compiled and registered, was used to verify shoreline details compiled.

34. Contours and Drainage

Inapplicable

35. Shoreline and Alongshore Details

No unusual problems were encountered in compiling the MHWL. As the photography used was infra-red, shallow or shoal areas could not be compiled.

36. Offshore Details

Explanation under Item 35 applicable.

37. Landmarks and Aids

Landmarks and aids shown were triangulation stations.

38. Control for Future Surveys

None

39. Junctions

A junction was made with T-10642 to the West. All other area bordering this manuscript is water.

40. Horizontal and Vertical Accuracy

The manuscript complies with accuracy standards.

41. thru 45.

Inapplicable

46. Comparison with Existing Maps

See the opening paragraph of this report.

47. Comparison with Nautical Charts

T-10643, which this manuscript is a supplement to, was the base for the contemporary nautical chart in this area. As this shoreline manuscript was compiled for photo-hydro support, a comparison was not made at this time.

Submitted by:

J. B. Phillips

J. B. Phillips

Approved by:

K. N. Maki

K. N. Maki
Chief - Compilation Unit

(20) (19)

49. NOTES FOR THE HYDROGRAPHER.

Pass points were dropped along the shore to facilitate the location of photo-hydro stations. The pass points and the identified horizontal control points have been transferred to all the office ratio prints.

On Field Print 55-W-5070, at approximate latitude 41°22' 25", longitude 70°27' 15", there is a fixed bridge with a horizontal and vertical clearance note. The vertical clearance data could not be computed using the predicted Tide Tables as the subordinate station, CAPE POGE, is too far north and the shoreline has closed up at Wasque Point. It is requested that the hydrographer check the vertical clearance.

Shoreline pass points from 1961 photographs added for hydrography in May 1963 (T-10643)

Refer to page 24 (A) - For : the photogrammetric location of signals during additional compilation in 1965 & 1966

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

(21)

PHOTOGRAMMETRIC OFFICE REVIEW

T-10644 (T-9082)

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

4a. 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) JG 7. Photo hydro stations XX 8. Bench marks JG
9. Plotting of sextant fixes XX 10. Photogrammetric plot report XX 11. Detail points XX

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

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

40. Jesse A. Giles
Jesse A. Giles Reviewer

M. M. Slavney
Supervisor, Review Section or Unit M. M. Slavney

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:

COMM-DC 34529

REVIEW REPORT
T-10641, T-10642, T-10643, T-10643A

62. Comparison with Registered Topographic Surveys

10641	No. 1802	1:10,000 - 1888
	No. 4427	1:10,000 - 1928
	No. 9080	1:20,000 - 1948
10642	No. 2299	1:20,000 - 1897
	No. 9081	1:20,000 - 1948
10643A	No. 1702	1:10,000 - 1866
	No. 2299	1:20,000 - 1897
	No. 9082	1:20,000 - 1948

The PH-116 surveys supersede the prior surveys for charting purposes in the common areas. Refer to side headings 65 and 66 of this report concerning T-10643 and T-12497.

63. Comparison with Maps of Other Agencies

USGS Quad., Edgartown, Mass. - 1:24,000 - 1951
USGS Quad., Vineyard Haven, Mass. - 1:24,000 - 1951
USGS Quad., Tisbury Great Pond, Mass. - 1:24,000 - 1951

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts
Chart 261 - 1:20,000, revised June 4, 1965

T-12497 (side heading 62) is the source of basis topography for this chart. Refer to side heading 66.

66. Adequacy of Results and Future Surveys

Maps T-10641 and T-10642 meet the National Standards of Map Accuracy and Bureau requirements. Areas of map T-10643 are substandard in datum. These three maps are the source of T-12497 and the basic topography chart 261 (side headings 62 and 65). T-10643A meets the required standards.

A general description of the various procedures used in compiling the subject maps and the related registered map T-12497 are discussed in the "Summary" for this survey. In

addition, the "Summary" makes recommendations concerning future use of the subject maps as bases for revision.

Reviewed by:

S. G. Blankenbaker

S. G. Blankenbaker

Approved by:

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

Chief, Marine Charts Division

(24)

Chief, Photogrammetric Branch

March 12, 1965

WSC-6320

Chief, Photogrammetry Division

Hydro Support Data, Cape Cod, Massachusetts, Project 21005

The Ship WHITING will require photo-hydro support this season in Martha's Vineyard and Nantucket Island.

New photography taken in 1964 covers the area.

Use this photography to revise shoreline, alongshore and offshore detail resecting centers and providing shoreline passpoints for signal location.

Complete hydro-support data consisting of two cronaflex copies, three ozalid prints and cronapaque ratio prints according to the following schedule:

T-10642	April 21, 1965
T-10643	April 21, 1965
T-11214	April 26, 1965
T-11215	April 26, 1965
T-11218	April 26, 1965
T-11216	May 3, 1965
T-11219	May 3, 1965

Charge all costs to Project 21005.

/s/ J. E. Waugh

J. E. Waugh

cc:
Mr. Maki L-6324

24 A

HYDRO SUPPORT (PHOTOGRAMMETRIC)
Nantucket Sound
T-10643A

Eighty photo-hydro stations which were located and pricked on the photographs in the field have been identified and located photogrammetrically on the manuscript in the Photogrammetric office. These stations are shown with a 2.5 mm circle along with the identifying name. There is one station name that has been repeated - "CAT", on the west shore of the Katama River, and "CAT", on the northwest sand spit of Cape Poge Bay. These stations are listed in alphabetical order on the following page.

Hydro stations located by field methods were not on the subject manuscript. An ozalid copy and a cronaflex copy forwarded by the field party contain this information. These copies will be returned to the Hydrographic Branch for forwarding to the East Coast Field Office.

Refer to 24B for list of signals

24 B

EIGHTY PHOTO-HYDRO STATIONS
Located Photogrammetrically
T-10643A

ABE
AIM
ANN
ART
BAG
BAN
BAT
BIT
BUD
CAT (Katama Bay)
CAT (Cape Poge Bay)
COD
COP
COW
COY
DEL
DIP
DOG
DOM
DUN
DUD
EAT
EGG
EGO
EVA
FEZ
FIT
FOX
GAL
GAS
GOT
GUM
HAD
HER
HIS
HOG
ICE
IDA
IKE
INK
JAY
JIM
JOY
KEY
KIM
LED
LEG
LIP
MAW
MAX
MOP
NAT
NED
NIX
OAR
ODD
OWE
PAT
PEG
QUO
RAG
ROB
SAD
SAL
SAM
TAX
TEE
TOM
USE
VAN
VIC
VIM
WAX
WAY
WET
YET
YOI
YOW
ZOO
ZOT

Form 567
April 1945

PHOTOGRAMMETRIC REVIEW BRANCH

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ } STRIKE OUT ONE

Tampa, Florida 1 October, 1957

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

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

J. E. Waugh *Chief of Party.*

STATE MASSACHUSETTS

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE * ° ′	LATITUDE * ″ D.M. METERS	LONGITUDE * ° ′	LONGITUDE * ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	EDGARTOWN HARBOR LIGHT (No. 404)		41 23	26.697 823.6	70 30	12.909 299.9	N.A. 1927	Tri. T-10644	1956	x	x		346, 1209
	(EDGARTOWN HARBOR LIGHT, 1956)												
	~~CAPE POGE LIGHT (No. 380)~~	MOVED	~~41 25~~	~~13.449~~ ~~414.9~~	~~70 27~~	~~06.044~~ ~~140.4~~	~~"~~	~~"~~	~~1928~~	x	x		~~346, 1209~~
	~~(CAPE POGE LIGHTHOUSE, 1928)~~	1960											
	CAPE POGE LIGHTHOUSE, 1961		41-25	11.933 368.13	70-27	05.853 135.92	"	TRI.	1961	x	x	x	1209, 261 ; 264

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

Form 567
April 1945

PHOTOGRAMMETRIC REVIEW BRANCH

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Tampa, Florida 1 October, 19 57

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

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

J. E. Waugh *Chief of Party.*

STATE MASSACHUSETTS

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CUPOLA	Wooden, shingled, ht = 46 ft. (105)		41 21	39.933 1231.9	70 28	01.081 25.1	N.A. 1927	Tri. 3 T-1064	1932	x	x		346, 1209
	(NASQUE POINT HOUSE CUPOLA, 1932)												
SPIRE	White, church, ht = 93 ft. (107)		41 23	25.396 783.5	70 30	56.687 1317.1	"	"	1928	x	x		346, 1209
	(EDGARTOWN METHODIST EPISCOPAL CHURCH TOWER, 1928)												
~~TOWER~~	~~Observation, wood, ht = 31 ft. (61)~~	DESTROYED	~~41 21~~	~~06.03~~ ~~186~~	~~70 27~~	~~05.59~~ ~~130~~	"	~~Photo~~ ~~T-1064~~ 3	~~1956~~	~~x~~	~~x~~		~~346~~
STANDPIPE	Edgartown Standpipe, 1932 HT 46 (105') FT		41-22	40.807 1258.9	7031	10.876 252.7		TRI	1932	X	X	X	1209: 261 264

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

FORM 1[illegible]
(4-27-54)

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph- T

Time and date of exposure 1040; March 15, 1955 Reference station Boston Mean range 2.2

Date of field inspection ________ Subordinate station Cape Poge; Chappaquiddick I Ratio of ranges 0.23

	Time h.	Time m.
High tide	16	02
Low tide	9	55
Duration of rise or fall	6	09

	Height feet	Height x Ratio of ranges
High tide	7.9	1.8
Low tide	0.7	0.2
Range of tide		1.6

	Time h.	Time m.
High tide at Ref. Sta.	16	02
Time difference	+	45
Corrected time at Subordinate station	16	47

	Time h.	Time m.
Low tide at Ref. Sta.	9	55
Time difference	0	00
Corrected time at Subordinate station	9	55

	h. m.		feet		feet	Photo. No.
Time ~~H. T. or~~ L. T.	9 55	Ht. ~~H. T. or~~ L. T.	0.2	Feature bares	0.3	5102
Required time	10 40	Tabular correction	0.1	Stage of tide above MLW		
Interval	0 47	Stage of tide above MLW	0.3	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		
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		

(27)

COMM-DC-57848

Computed by R.E.S. Checked by [illegible]

GEOGRAPHIC NAMES

T-10643

Atlantic Ocean
Bluefish Point
Caleb Pond
Cape Poge
Cape Poge Bay
Cape Poge Elbow
Cape Poge Lighthouse
Chappaquiddick Island
Chappaquiddick Point
Chappaquiddick Road
Clevelandtown
Cook Street
Crackaturet Cove
Edgartown
Edgartown Beach
Edgartown Harbor
Edgartown Harbor Light
Edgartown-Oak Bluffs Road
Eel Pond
John Oliver Point
Katama
Katama Bay
Katama Point
Katama Road
Little Beach
Little Neck
Long Point
Main Street
Mattakeset Bay
Mattakeset Herring Brook
Muskeget Channel
Nantucket Sound
North Neck
Poucha Pond
Quohog Point
Sampson Hill
Sengekontacket Pond
Simon Point
Snows Point
South Sommer Street
Spear Pen Pond
Toms Neck
Vineyard Haven Road
Wasque Point
Wasque Road
Wasque Point House Cupola
Whistler Point

A. J. Wraight

A. J. Wraight
Chief, Geographic Branch

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T10643 & T10643A

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
261	10-20-69	Irene Beeler	~~Full~~ Part ~~Before~~ ~~After~~ Verification Review Inspection ~~Signed~~ Via
			~~Drawing No.~~ Corr thru H8847 & checked via T10643A
			H8847 & shoreline only
			41° 20.7'-70° 28.5' PA & West to edge of T10643A
264	"	Irene Beeler	~~Full~~ Part ~~Before~~ After Verification Review Inspection ~~Signed~~ Via
			~~Drawing No.~~ & Cht 261 & checked via T10643A
			shoreline only
1209	"	Irene Beeler	~~Full~~ Part ~~Before~~ After Verification Review Inspection ~~Signed~~ Via
			~~Drawing No.~~ Cht 264
1209	7-73	O. Chapman	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. #40 Forward until applied to chart 264 Exam DO. Corr. Superseded by
			T-10467 (see chart 261 / dwg #8
261	9-10-73	John R. Bailey	Full ~~Part Before After Verification~~ Review Inspection Signed Via
			Drawing No. 8 Applied extensive revisions to HWL
			from reduction of T-10643 A. Also revised inset directly.
			Full Part Before After Verification Review Inspection Signed Via
264	11-26-73	RL Pottle	Drawing No. 8 REVISED SHORELINE THRU
			CHT 261, DRWG # 8
13237	6-13-90	Tracy Sanford	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 52 APPLIED THRU CHART 13233 (1209)
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63