

11223 a
11223 b

Diag. Cht. No. 1209-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-116 Office No. T-11223 a
T-11223 b

LOCALITY

State Massachusetts

General locality Nantucket Island

Locality Tom Nevers Head

1955-61

CHIEF OF PARTY

E.H.Kirsch, Chief of Party

W.E.Randall, Chief of Party

L.W.Swanson, Div. Of Photo. Wash., D.C.

LIBRARY & ARCHIVES

DATE February 1, 1965

USCOMM-DC 5087

11223 a
11223 b

Inked (red) notations refer to the 1961 revision work.

(1)

DATA RECORD

T - 11223 A and T - 11223 B

Refer to the "Summary" (page 6)
concerning the registration of two

Project No. (II): 6116

Quadrangle Name (IV): maps ("A" and "B") for this survey.

Field Office (II): Baltimore, Maryland

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Washington, D. C.
Baltimore Md.

Officer-in-Charge: S. W. Swanson

W.E. Randall

Instructions dated (II) (III): 30 April 1953
9 July 1953 (Supp. II)
15 December 1955
20 January 1956

Copy filed in Division of
Photogrammetry (IV)

Supplemental Instructions (Office) PH-116 8 May 1961
PH-6102 Instructions 10 May 1961

Method of Compilation (III): Stereo instruments
Kelsh and Stereoplanigraph

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:10,000

Scale Factor (III):

Date received in Washington Office (IV): MAR 28 1955 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III):

~~Mean sea level 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): West Tangent RM No. 1 (MGS) 1937

Lat.: 41°-14'-50.15"

Long.: 69°-58'-48.63"

Adjusted
Unadjusted

Plane Coordinates (IV):

State:

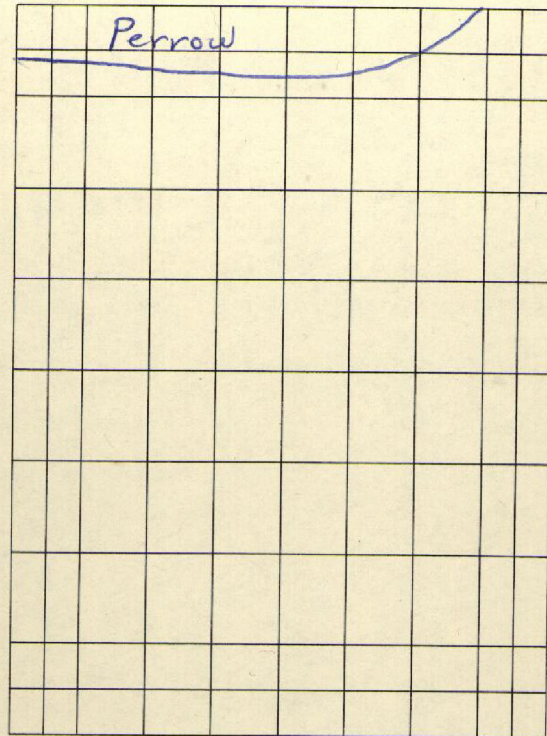
Zone:

Y=

X=

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.



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

DATA RECORD

3

Field Inspection by (II): R. L. McGlinchey

Date: July 1955

Planetable contouring by (II): None

Date:

Completion Surveys by (II): R. L. McGlinchey

Date: July 1955

J. K. Wilson

Field Edit Report (Refer to PH-6102) T-12500
Mean High Water Location (III) (State date and method of location):

Sept 1961

Field Inspection July 1955 (T-11223 A)

1961 "tide controlled" infrared photography (T-11223 B)

Projection and Grids ruled by (IV): A. Riley

Date: 4 Jan. 1956

Projection and Grids checked by (IV):

Date:

Control plotted by (III): C. Cook
M. Keller
J. Perrow

Date: Feb. 1956

Control checked by (III): C. Cook
M. Keller
J. Perrow

Date: Feb. 1956

Radial Plot or Stereoscopic J. Perrow
Control extension by (III):

Date: Feb. 1956

Stereoscopic Instrument compilation (III):
Planimetry C. Cook
J. Perrow
~~Contouring~~

Date: Feb. 1956

Date:

Manuscript delineated by (III): C. Cook
Shoreline revised B. Wilson

Date: March 1956
June 1961

Photogrammetric Office Review by (III):

Date:

Revision Review R. Glaser

June 1961

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

Date:

Camera (kind or source) (III): Wild

(4)

Number Date Time Scale Stage of Tide
55-W-5028 thru 5033 15 March 1955 9:52 1:25,000 +0.3

COLOR

61-S-6622 thru 6624 4-12-61 3:30 1:20,000 OBSERVED TIDE
61-M-056 4-12-61 6:40 1:60,000 - 0.1 (low water)

INFRARED

61-L-1572 thru 1574 4-12-61 7:58 1:10,000 + 0.15 (high water)

Tide (III)

Reference Station: Boston
Subordinate Station: Tom Nevers Head
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	9.5	11.0
	1.2	1.4

Washington Office Review by (IV): S.G. Blankenbaker

Date: Dec. 1961

Final Drafting by (IV):

July 1964 (Final review)

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III): *

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

See Descriptive Report T-11221

Recovered:

Identified:

Recovered:

Identified:

Remarks:

* Shoreline revised 6.1 miles

Refer to the Descriptive Report for Nautical Chart
Drawing 265 (T-12500) for new Forms 567

SHORELINE MAPPING PROJECT PH- 116

CAPE COD, MASS.

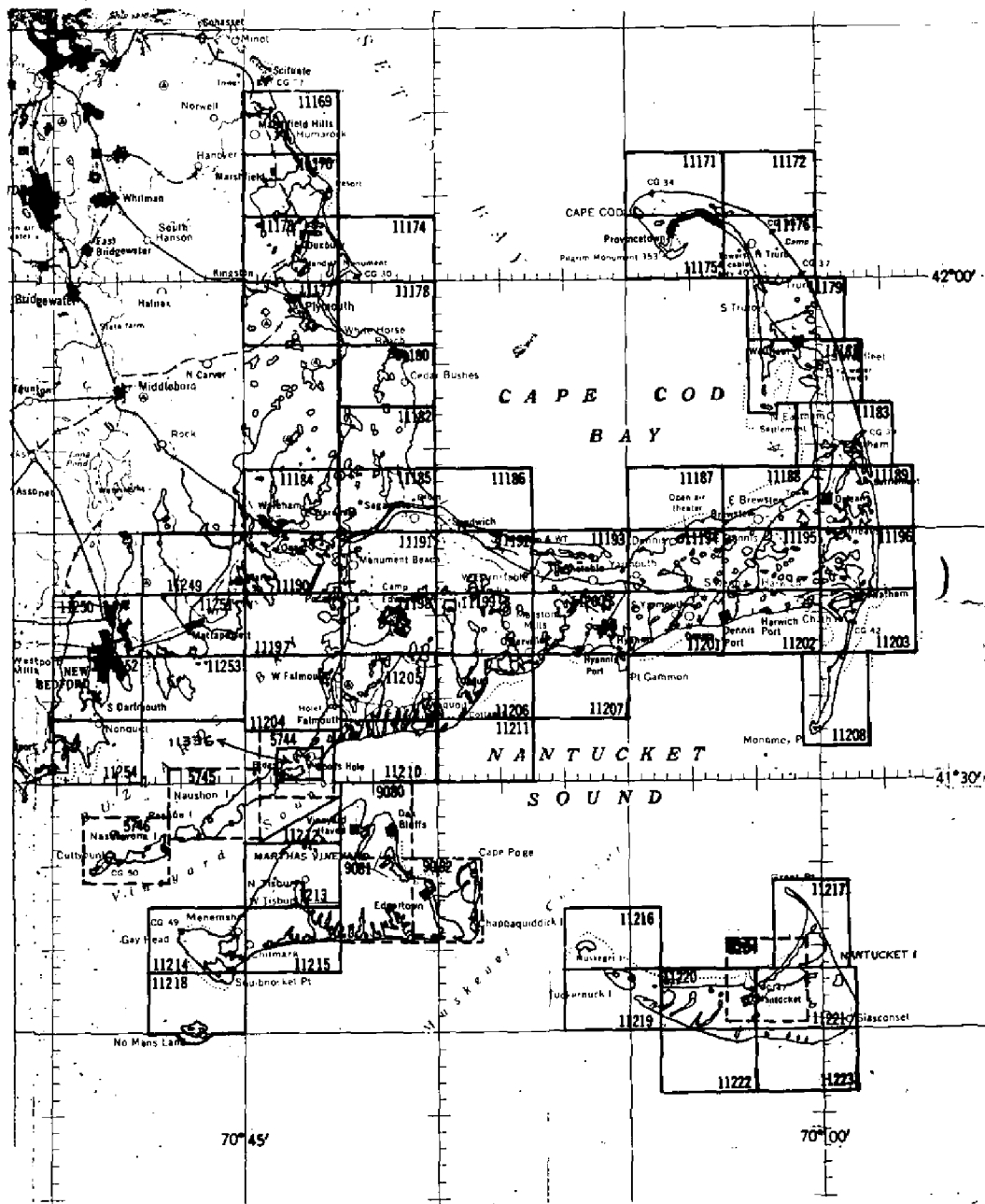
5

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Lin. Miles Shoreline Sq. St. Miles

11169	24	11
11170	12	16
11171	10	7
11172	2	1
11173	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
11184	12	13
11185	8	17
11186	6	3
11187	5	2
11188	13	9
11189	20	12
11190	59	12
11191	17	13
11192	5	19
11193	32	13
11194	7	15
11195	3	16
11196	14	8
11197	19	4
11198	7	7
11199	9	9
11200	25	10
11201	13	12
11202	13	9
11203	24	6
11204	12	5
11205	9	15
11206	20	14
11207	6	2
11208	14	3
11210	25	6
11211	3	1
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
11249	7	24
11250	11	23
11251	19	21
11252	15	13
11253	13	1
11254	16	3
11336	7	1

TOTALS 872 584



Summary to Accompany Descriptive Reports

T-11221A and T-11221B

T-11123A and T-11123B

T-11121 and T-11123 are two of 40 similar surveys comprising Project FH-116. Two maps (labeled "A" and "B") are to be registered for each of the subject surveys. Project coverage includes (1) Cape Cod Bay shoreline (2) the entire east shore of Cape Cod, and (3) the islands of Martha's Vineyard and Nantucket. The subject maps cover the southeastern shore of Nantucket Island.

The shoreline on T-11121A and T-11123A was compiled from 1955 photographs (field inspected in 1955). This shoreline was used for Hydrographic surveys 8449 and 8450 (1958).

New photography - tide controlled infra red and color - was taken in 1961 for the purpose of constructing a new nautical chart (265). A chart compilation manuscript, registered as T-12500, provided the new topography for the chart. The details required for the new chart were revised on T-11221 and T-11223. T-111221B and T-11123B are the revised copies.

A report covering 1958 photogrammetric field work accomplished in conjunction with Hydrographic Surveys H-8449, H-8459, and H-8497 is bound with Descriptive Report T-11217 (A and B)

MAP T-11223

PROJECT NO. 6116

SCALE OF MAP.

SCALE FACTOR:

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: M. Keller

DATE.....February 1956.....

CHECKED BY: C. Cook

DATE February 1956

M-2388-12

⑧

FIELD REPORT

See Descriptive Report for T-11221.

COMPILATION REPORT T-11223

31. DELINEATION

The Stereoplanigraph was used to detail this sheet.

32. CONTROL - not applicable

33. SUPPLEMENTAL DATA - not applicable

34. CONTOURS AND DRAINAGE - not applicable

35. SHORELINE AND ALONGSHORE DETAILS

The high and low water lines were clearly delineated in the field.

36. OFFSHORE DETAILS - not applicable

37. LANDMARKS AND AIDS - See Form 567, a part of this report.

38. CONTROL FOR FUTURE SURVEYS - not applicable

39. JUNCTIONS

T-11221, T-11222

40. HORIZONTAL AND VERTICAL ACCURACY - not applicable

46. COMPARISON WITH EXISTING MAPS

AMS V814 Sheet 6966 I SE
Siasconset, Mass.
1:25,000, 1947

47. COMPARISON WITH NAUTICAL CHARTS

Nautical Chart No. 1209
Nantucket Sound and Approaches
1:80,000, 1943

Submitted by: C. Cook

C. Cook

Approved by: M. Keller

Moscow Keller

(10)

SUPPLEMENTAL COMPILATION REPORT

T-11223

Ratio prints of the infrared photography were used to revise the high-water line by holding details common to both the manuscript and the photographs.

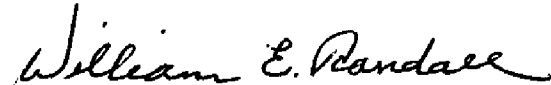
The approximate low-water line, breaker areas and the apparent edge of shallow areas were delineated by office interpretation on overlays from the 1:20,000 and 1:60,000 scale color photographs. These details were then transferred to the manuscript by use of the vertical projector.

Respectfully submitted
23 June 1961



R. Glaser
Carto. (Photo.)

Approved and forwarded



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

Addendum:

Only those interior details needed for the compilation of Chart 265 have been added or revised from 1961 photography.

(11)

Review Report

T-11221A and T-11221B

T-11223A and T-11223B

61. General

Refer to the subject Descriptive Report "Summaries" concerning the registration of two maps each for surveys T-11221 and T-11223.

62. Comparison with Registered Topographic Surveys

Having been used for (1) shoreline for hydrographic surveys - maps T-11221A and T-11223A and (2) new nautical chart construction - maps T-11221B and 11223B, the maps were not compared with older topographic surveys at the time of review. Manuscripts T-11221B and T-11223B or chart compilation manuscript T-12500 should be used for future chart construction.

63. Comparison with Maps of Other Agencies

Siasconset, Mass. 1:24,000 1951

No significant difference were noticed.

64. Comparison with Contemporary Hydrographic Surveys

H-8449	Scale 1:10,000	Date 1958
H-8450	Scale 1:10,000	Date 1958

T-11221A, T-11223A and T-11217A provided the shoreline for H-8450 and H-8449. Portions of the shoreline shown on the planimetric surveys were revised by field methods during hydrography. The revised shoreline, shown on the hydrographic survey was not transferred to the planimetric survey.

Some rock information shown on planimetric survey T-11221, near the entrance of Polpis Harbor, was not carried forward to the Hydrographic survey. Due to their locations and elevations the rocks are of no great importance.

65. Comparison with Nautical Charts

265 scale 1:40,000 Date 1963

Topography for this chart was provided through T-11221B,

T-11223B and other Ph-116 surveys; refer to the Descriptive Report "Summary" and other sections of this report.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and Bureau requirements.

Reviewed by:

J. B. Blankenbaker
S. G. Blankenbaker

Approved by:

Charles J. Hauer
Chief, Photogrammetry Division
h.e.h. Branch

Chief, Nautical Chart Division

J. W. Laugh 1/26/65
Chief, Photogrammetry Branch
Division

GEOGRAPHIC NAMES

Survey No. T-11223

GEOGRAPHIC NAMES											
Survey No. T-11223											
Name on Survey											
	A	B	C	D	E	F	G	H	K		
Nantucket Memorial Apt											1
Atlantic Ocean											2
Tom Nevers Head								(13)			3
Tom Nevers Pond											4
											5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27
											M 234 22

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

NONNEGATING AIDS OR LANDMARKS FOR CHARTS

Nantucket, Mass. 25 July, 1955

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

The positions given have been checked after listing by

E. H. Kirsch

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.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11223 a & b

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

[illegible]