

T-11222

ORIGINAL

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T-11222

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric
Field No.	Office No. T-11222
LOCALITY	
State	Massachusetts
General locality	Nantucket Island
Locality	Nantucket
1945 - 1961	
CHIEF OF PARTY	
E. H. Kirsch, Chief of Party	
Photogrammetry Division, Washington, D.C.	
LIBRARY & ARCHIVES	
DATE	

DATA RECORD

T - 11222

Project No. (II): ~~27190~~ ~~(6116)~~ *PH-116* Quadrangle Name (IV):

Field Office (II): **Baltimore, Maryland** Chief of Party: **E. H. Kirsch**

Photogrammetric Office (III): **Washington, D. C.** Officer-in-Charge: **L. W. Swanson**
Baltimore Md. *W.E. Randall*

Instructions dated (II) (III): **30 April, 1953** Copy filed in Division of
9 July 1953 (Supp. II) Photogrammetry (IV)
15 December 1955 Office Files
20 January 1956

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

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

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

Scale Factor (III): **1.0**

Date received in Washington Office (IV): **AUG 30 1956** Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): **1927** Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): **Weeweeder, 1887**

Lat.: **41°14'36.668"** Long.: **70°05'54.244"** Adjusted
Unadjusted

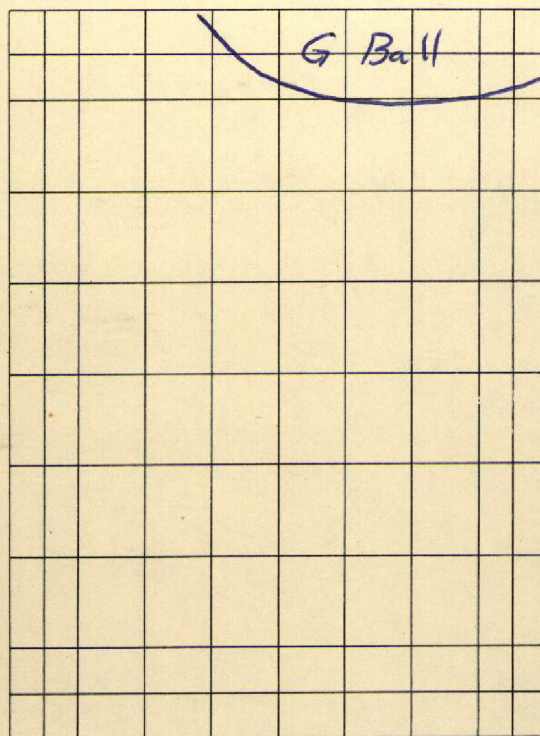
Plane Coordinates (IV): State: **Mass.** Zone: **Island Zone**

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.

(2)



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

3

DATA RECORD

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

Mean High Water Location (III) (State date and method of location):

Field Inspection

July 1955

1961 "tide controlled" photography (infrared)

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

Date: Jan. 1956

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

Date: Jan. 1956

Control plotted by (III): J. Perrow

Date: June 1956

Control checked by (III): G. Ball

Date: June 1956

Radial Plot or Stereoscopic

Date:

Control extension by (III): None

Planimetry G. Ball

Date: June 1956

Stereoscopic Instrument compilation (III):

Contours.

Date:

Manuscript delineated by (III): J. McDonald

Date: July 1956

Shoreline revised: B. Wilson

June 1961

Photogrammetric Office Review by (III): C. E. Cook

Date: July 1956

Revision Review R. Glaser

June 1961

Elevations on Manuscript

Date:

checked by (II) (III): None

44

Camera (kind or source) (III):

Wild Aviogon

④

Number	Date	Time	Scale	Stage of Tide
54-W-5033 - 5036	15 March 1956	0954-0956	1:25,000	+0.3
COLOR				
61-S-6620 thru 6622	4-12-61	3:30	1:20,000	OBSERVED TIDE - 0.1 (low water)
INFRARED				
61-L-1564, 1565	4-12-61	7:44	1:10,000	- 0.1 (high water)

Tide (III)

Reference Station: **Newport**
 Subordinate Station: **Off Radio Compass Station**
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	3.5	4.4
0.49	1.7	2.0

Washington Office Review by (IV): **S.G. Blonkenbaker**

Date: **July 1964**

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **2**
 Shoreline (More than 200 meters to opposite shore) (III): }
 Shoreline (Less than 200 meters to opposite shore) (III): } **6 ***
 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: 3.7 miles**

SHORELINE MAPPING PROJECT PH. 116

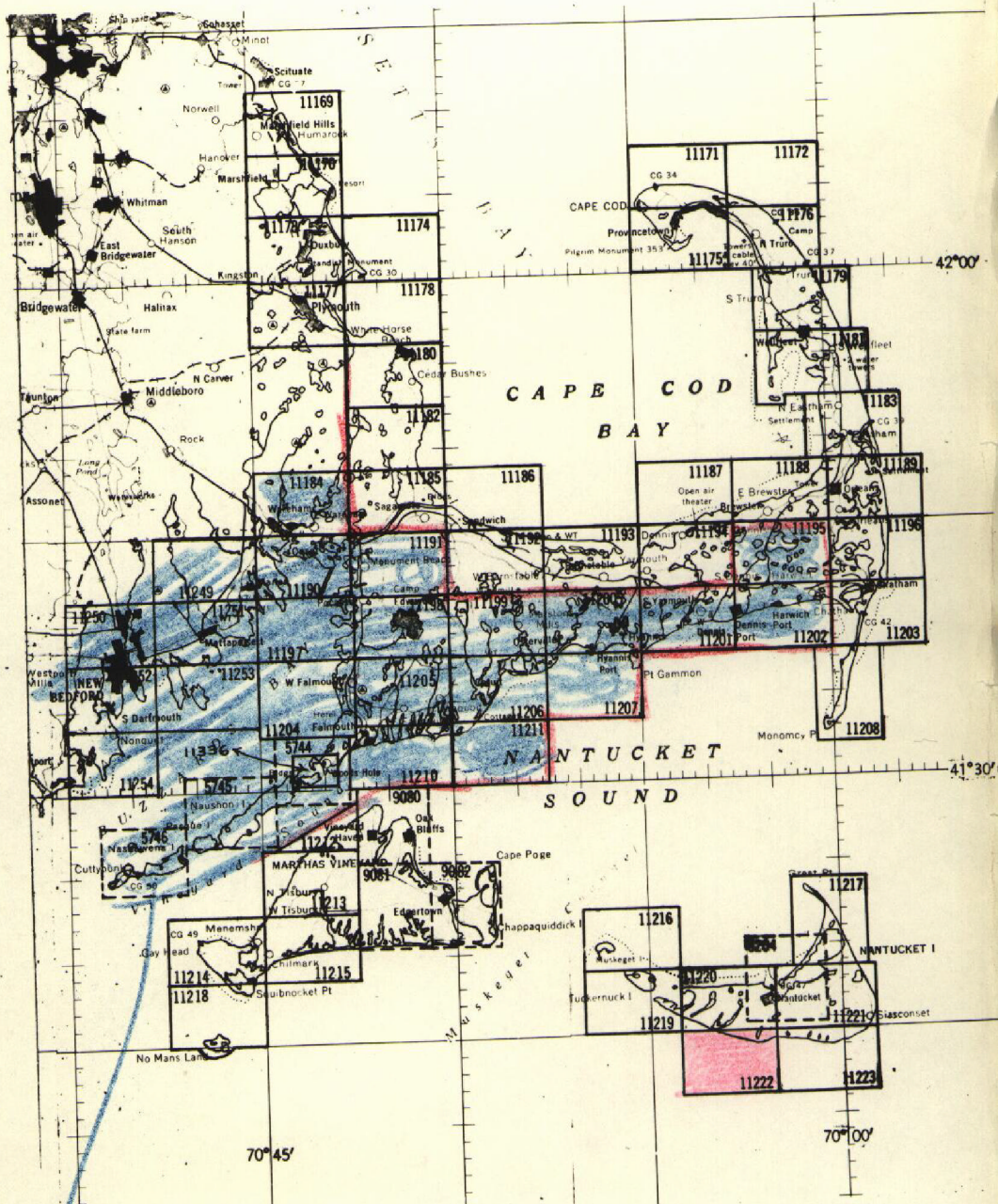
CAPE COD, MASS.

(5)

0.1 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



✓ sheets not compiled

(6)

Summary to Accompany Descriptive Reports

T-11216 and T-11222

The subject maps are two of 40 similar maps comprised project Project FH-116. Project coverage includes (1) Cape Cod shoreline, (2) the entire east shore of Cape Cod, and (3) the islands of Martha's Vineyard and Nantucket. T-11216 and T-11222 cover parts of Nantucket Island.

T-11216 was first compiled in 1956. This compilation was incorrectly oriented. An entirely new map was compiled in 1960. This map and T-11222 (1956) were revised in 1961 from "tide controlled" infrared and color photographs taken in 1961. Neither the 1960 compilation of T-11216, nor the 1956 compilation of T-11222 will be registered (refer to item 61 of the final review report). No records of the 1956 compilation of T-11216 are included.

The revised copies of the two maps were applied to a chart drawing base (T-12500). Refer to the Descriptive Report for T-12500 (FH-6102) concerning the additional work.

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T-11222

FIELD REPORT -

See Descriptive Report T-11221

NANTUCKET ISLAND

PROJECT NO.	6116	SCALE OF MAP	1:10,000	SCALE FACTOR
MAP T-11222				

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS		
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)	
WEENEEDER, 1887	GP 11	1927	41-14-36.668	1131.2	719.77	1850.95	30.849				
			70-05-54.244	1263.1	134.03	1397.1	23.285				
			Y = 89,348.28	4348.28	651.72						
			X = 304,502.54	4502.54	497.46						
S.S. WEENEEDER 1887			41-14-37.63	1160.9	690.09	1850.95	30.849				
			70-05-52.51	1222.6	174.40	1397.1	23.285				
			Y = 88,966.77	3966.77	1033.23						
			X = 304,185.26	4185.26	814.74						
MERIDIAN, MIDDLE STONE, 1887	GP 17		41-14-58.69	1810.5	40.41	1850.95	30.849				
			70-05-06.51	151.6	1245.41	1397.0	23.283				
			41-14-56.526	1743.8	107.17	1850.95	30.849				
			70-05-06.532	152.1	1244.90	1397.0	23.283				
MERIDIAN SOUTH STONE, 1887	GP 11										

FT. = 3048006 METER

Plotted BY: J. Perrow

DATE..... June 1956

CHECKED BY: G. Ball

DATE June 1956

COMPILATION REPORT

T-11222

31. DELINEATION

The Stereoplanigraph and Kelsh Plotter were used for detailing these maps.

32. CONTROL
33. SUPPLEMENTAL DATA
34. CONTOURS AND DRAINAGE
35. SHORELINE AND ALONGSHORE DETAILS
- } Not applicable

36. OFFSHORE DETAILS

Breakers were delineated from office inspection of the photographs.

37. LANDMARKS AND AIDS - Not applicable
38. CONTROL FOR FUTURE SURVEYS - Not applicable
39. JUNCTIONS

Junctions were made with T-11220 to the north and T-11223 to the east.

40. HORIZONTAL AND VERTICAL ACCURACY - No comment.

46. COMPARISON WITH EXISTING MAPS - AMS sheet 6966 I SW
Nantucket, Massachusetts
1:25,000 1947

USGS Nantucket Quadrangle
Nantucket, Massachusetts
1:31,680 1951

47. COMPARISON WITH NAUTICAL CHARTS Nautical Chart No. 1209
Nantucket Sound and Approaches
1:80,000 1943, corr. to 8/30/54

- (b) "Items to be Applied Immediately to Nautical Charts:" - None
(c) "Items to be Carried Forward." - None

Submitted: *C. E. Cook*

APPROVED:

K. N. Maki
K. N. Maki
Supervisory Photogrammetric Engineer

Morton Keller
Morton Keller
Supervisory Cartographer

SUPPLEMENTAL COMPILATION REPORT

T-11222

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

The low-water line and the breaker areas were delineated by office interpretation on overlays from the 1:20,000 scale color photographs. These details were then transferred to the manuscript by use of the vertical projector. The low water line was found to be almost coincident with the high water line delineated from the infrared prints and was therefore omitted. Some suggestion of the feature called Miacomet Rip on Chart 1209 was found on the color transparencies and was delineated with the miscellaneous line symbol.

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.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11222

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads X 30. Other cultural features X

BOUNDARIES

31. Boundary lines -- 32. Public land lines --

MISCELLANEOUS

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

40. C. E. Cook
C. E. Cook 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:

M-2623-12

Review Report

T-11216 and T-11222

61. General

T-11216 and T-11222 are two of seven planimetric surveys covering Nantucket Island. Two maps each are registered for the other five surveys (refer to the Descriptive Reports for these maps). T-11216 and T-11222 have not been used for shoreline for hydrography; only the revised (1961) final maps for T-11216 and T-11222 will be registered.

Control for T-11216 consists of stations of less than 3rd order accuracy - refer to side heading 40. of the Compilation Report.

62. Comparison with Registered Topographic Surveys

Prior to the subject surveys, the most recent maps covering the area were compiled in 1887. T-11216 and T-11222 were not compared with these surveys.

63. Comparison with Maps of Other Agencies

Quadrangle Tuckernuck Island, scale 1:24,000, date 1951
Quadrangle Nantucket, scale 1:24,000, date 1951.

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

265 scale 1:40,000 date 1963

Topography for this chart was provided through T-11216, T-11222 and other PH-116 maps. These maps were reduced and then applied to the nautical chart base or drawing.

66. Adequacy of Results and Future Surveys

Refer to side heading 61 of this report concerning horizontal control for T-11216. Horizontal accuracy of this map is dependent upon control of less than 3rd order accuracy. T-11222 meets the National Standards of Map Accuracy and Bureau Requirements.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

Charles L. Linn
Chief, Photogrammetric Branch Chief, Nautical Chart Division

Eubank 8/17/65
Chief, Photogrammetry Division

T-11222.

Geographic Names.

- Atlantic Ocean
- Atlantic Avenue
- Great Moxes Pond
- Massachusetts
- Miacomet Pond
- Miacomet Road
- Nantucket Island
- Nonatum Avenue
- Reedy Pond
- South Shore
- Surfside
- Surfside Road
- Weeweeder Ponds

Lovers Lane

Names approved 7-5-56

L. Heck
h. H.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. _____

T-11222

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]