

**T- 11216**

ORIGINAL

**T- 11216**

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Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric
Field No.	Office No. T-11216
LOCALITY	
State	Massachusetts
General locality	Nantucket Island
Locality	Muskeget Island
1945, 1961	
CHIEF OF PARTY	
E. H. Kirsch, Chief of Party	
Photogrammetry Division, Wash., D. C.	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD  
T- 11216

PROJECT NO. (II):  PH-116		
FIELD OFFICE (III):  Baltimore, Md.		CHIEF OF PARTY  E. H. Kirsch
PHOTOGRAMMETRIC OFFICE (III): Washington, D. C. Baltimore, Md.		OFFICER-IN-CHARGE L. W. Swanson W. E. Randall
INSTRUCTIONS DATED (II) (III): 30 April 1953 9 July 1953 (Supp. II) 15 Dec. 1955 (Supp.) 20 Jan. 1956 Supplemental instructions (Office) PH-116 8 May 1961 PH-6102 Instructions 10 May 1961		
METHOD OF COMPILATION (III):  Stereoplanigraph		
MANUSCRIPT SCALE (III):  1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  1:10,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):  June 1960		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 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):  Peak 1955		
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):  Y = 122,944.7      X = 255,477.6		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.		

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
R. L. McGlinchey		July 1955
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Field Inspection - July 1955 Revised in 1961 using 1961 "Tide controlled" Photography (infra-red)		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. Riley		Jan. 1955
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
A. Riley		Jan. 1955
CONTROL PLOTTED BY (III):		DATE
R. Fuechesel		1960
CONTROL CHECKED BY (III):		DATE
J. Perrow		1960
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
None		
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	R. Fuechsel	June 1960
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
*K. N. Maki		June 1960
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
K. N. Maki Revision Review - R. Glaser		June 1960 June 1961
REMARKS:		
*Shoreline Revision - L. Senasack - 1961		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild Avigon

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE FT
55 W 5065 5066	15 Mar. 1955	10:15	1:25,000	+ 0.6
* { 615 6610, 6611, 6613	4-12-61	3:25	1:20,000	- 0.1 (Low water)
* { 61L 1557 thru 1559	4-12-61	7:43	1:10,000	- 0.1 (High water)

## TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston		9.5	11.0
SUBORDINATE STATION: Muskeget Island, W. Side	0.17	1.6	1.9
SUBORDINATE STATION:			

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

DATE:  
July 1964

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:

\* Tide controlled photography

# SHORELINE MAPPING PROJECT 6116

## CAPE COD, MASS.

④

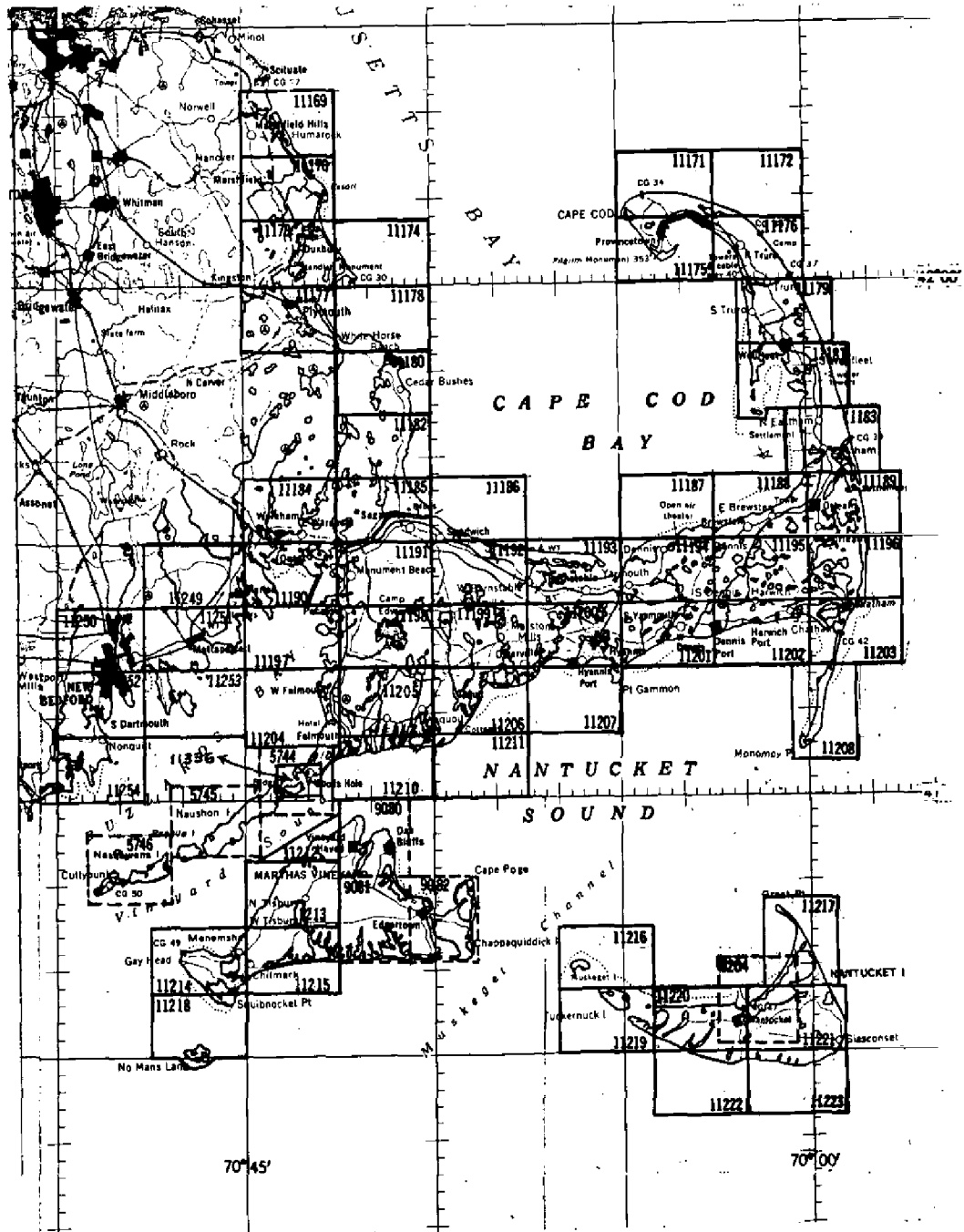
### OFFICIAL MILEAGE FOR COST ACCOUNTS

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-11216 and T-11222

The subject maps are two of 40 similar maps comprised project Project PH-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-11220 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 (PH-6102) concerning the additional work.

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FIELD REPORT -

See Descriptive Report T-11221





## COMPILATION REPORT T-11216

31. Delineation

The Stereoplanigraph was used for detailing. Since the land area covered only a small portion of the model, special methods were used to set the model in the instrument. Two areas of shifting sand were indicated on the field photographs as former water areas. These areas were delineated on the instrument and checked with a projector.

32. Control

The four horizontal control stations recovered on this island afford adequate control. All stations were held within .2 mm.

33. Supplemental Data - Not applicable34. Contours and Drainage - Not applicable.35. Shoreline and Alongshore Details - Not applicable.36. Offshore Details - Not applicable.37. Landmarks and Aids - Not applicable.38. Control for Future Surveys - Not applicable.39. Junctions

Junctions were made with T-11219 to the south.

40. Horizontal and Vertical Accuracy

The horizontal datum and azimuth of Muskeget Island are based on four horizontal stations of less than 3rd-order accuracy.

46. Comparison with Existing Maps

USGS Nantucket County, Massachusetts  
Tuckernuck Island Quadrangle  
1:31680 1951

47. Comparison with Nautical Charts

Nautical Chart No. 1209  
Nantucket Sound and Approach  
1:80,000 1943, Corr. to 8/30/54

- (b) "Items to be applied to Nautical Charts  
Immediately" - None
- (c) "Items to be Carried Forward" - None

Submitted by

J. D. Perrow Jr.  
J. D. Perrow, Jr.

Approved

K. N. Maki  
K. N. Maki  
Super. Photogrammetric Engineer

E. H. Ramey  
E. H. Ramey  
Super. Cartographer

## SUPPLEMENTAL COMPILATION REPORT

T-11216

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 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.

Respectfully submitted

22 June 1961

*R. Glaser*

R. Glaser

Carto. (Photo.)

Approved and forwarded

*William E. Randall*

William E. Randall

CDR, CGS

Baltimore District Officer

Addendum:

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

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 H. Hume  
Chief, Photogrammetric Branch

Chief, Photogrammetry Division

# GEOGRAPHIC NAMES

Survey No.

T-11216

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
Atlantic Ocean										1
Massachusetts										2
Muskeget Island										3
Nantucket Sound										4
Tuckernuck Bank										5
										6
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Names approved  
5-15-65  
C. J. Wright