

# 11183

ORIGINAL

Diag. Cht. No. 1208-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. Ph-116 Office No. T-11183

### LOCALITY

State MASSACHUSETTS

General locality CAPE COD BAY

Locality EASTHAM

1953 1952-1955

### CHIEF OF PARTY

E. H. Kirsch, , Chief of Party  
William F. Deane, Baltimore District Officer

### LIBRARY & ARCHIVES

DATE January 2, 1966

B 1870-1 (1)

# 11183

# DATA RECORD

T-11183

(1)

Project No. (II): **Ph-116**

Quadrangle Name (IV):

Field Office (II): **Plymouth, Mass.**

Chief of Party: **E. H. Kirsch**

Photogrammetric Office (III): **Baltimore, Maryland**

Officer-in-Charge: **William F. Deane**

Instructions dated (II) (III):  
 30 April 1953  
 9 June 1953 (Supp.1)  
 9 July 1953 (Supp.2)  
 11 July 1953 (letter 70-1mh)  
 11 Aug 1953 (Supp.3)  
 22 Nov. 1957

Copy filed in Division of  
 Photogrammetry (IV)

Method of Compilation (III): **Graphic**

Manuscript Scale (III): **1:10,000**

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): **1.000**

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N.A. 1927**

Vertical Datum (III): **MHW**

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): **HERRING, 1933**

Lat.: **41° 49' 25.751 (794.5 m)** Long.: **70° 00' 13.900" (320.8 m)**

Adjusted  
~~Unadjusted~~

Plane Coordinates (IV):

State: **Mass.**

Zone: **Mainland**

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

SHORELINE

(Show name within area)

# DATA RECORD

③

Field Inspection by (II): W. M. Reynolds

Date: Sept 1953

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1955 date of photography  
field inspection on 1952 and 1953 photographs.

Projection and Grids ruled by (IV): Austin Riley

Date: 2/4/54

Projection and Grids checked by (IV): H. D. Wolfe

Date: 2/11/54

Control plotted by (III): D. Williams

Date: 7/26/55

Control checked by (III): H. R. Rudolph

Date: 8/3/55

Radial Plot of Stereoscopic

Date: 2/13/58

~~Stereoscopic Instrument~~ by (III): H. R. Rudolph

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. Honick  
B. Kurs

Date: 5/1/59

Photogrammetric Office Review by (III): R. Glaser

Date: 7/15/59

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

Date:



Camera (kind or source) (III): C&GS "W" and "J" cameras  
P.M.A. 6" lens

(4)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
4K-48 thru 52	7/13/52	0950	1:10,000	0.3' below MLW
5K-70 thru 75	7/25/52	1332	"	5.4' above MLW
55-W-4965 thru 4971	3/15/55	0915	"	1.3' above MLW
55-W-5005	3/15/55	0932	"	0.9' above MLW
53-J-469 thru 473	4/29/53	0758	"	3.2' above MLW
3K-4 thru 7	6/3/52	1012	"	(not needed)
53-J-661-662	1953		"	
53 J-610			"	

Tide (III)  
From Predicted Tide Tables

Reference Station: Boston  
Subordinate Station: Wellfleet  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	9.5	11.0
	10.0	11.6

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

Date: July 1965

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 6

Shoreline (More than 200 meters to opposite shore) (III): 5.0 mi

Shoreline (Less than 200 meters to opposite shore) (III): 1.0 mi

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 14 15 Recovered: 5 Identified: 6

Number of BMs searched for (II): 3 Recovered: 1 Identified:

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

# SHORELINE MAPPING PROJECT PH-116

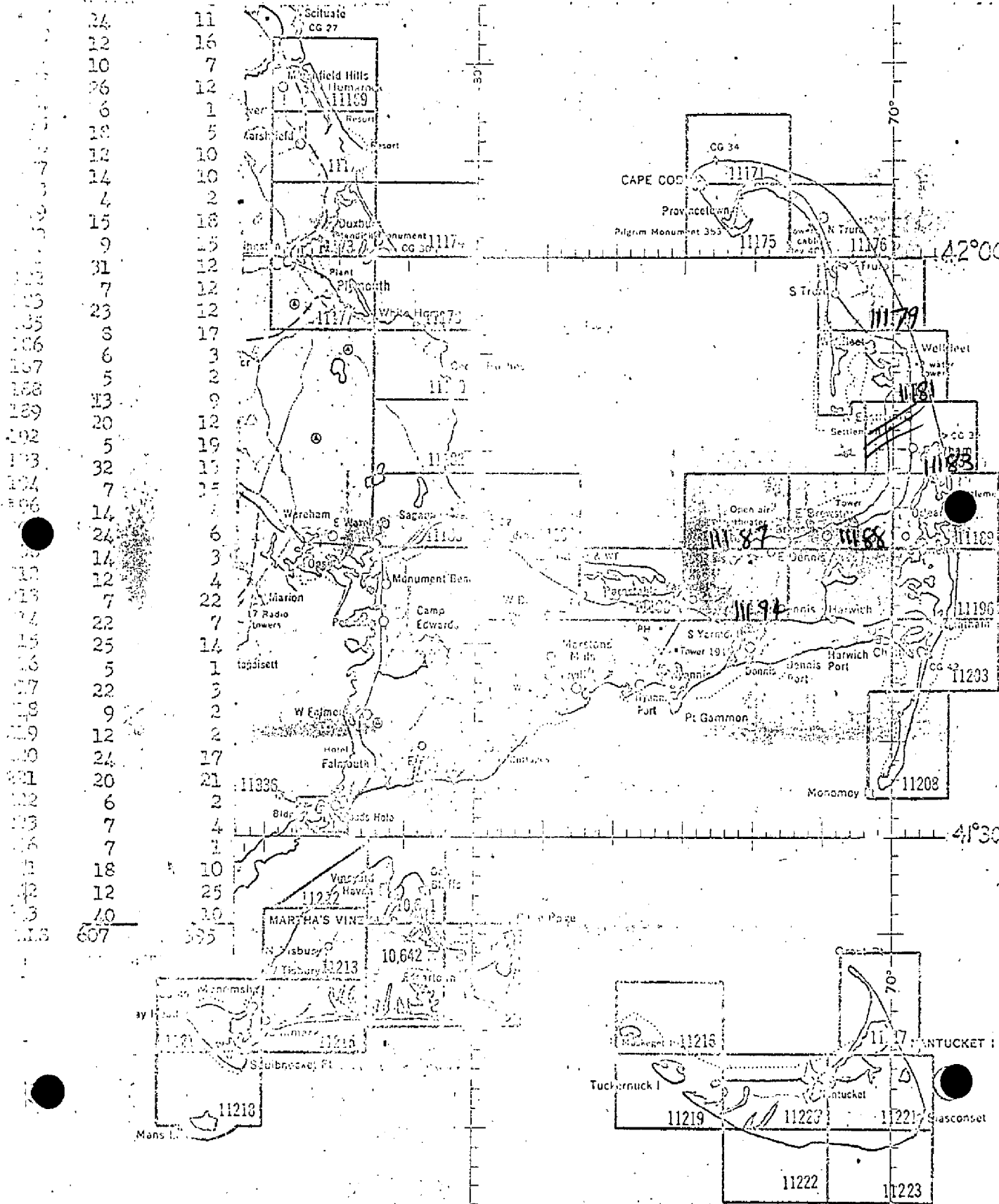
## CAPE COD, MASS.

6

1 Village for Cost Accounts

lin. ft. 1:240

Shoreline 1:240



6

Summary to Accompany Descriptive Report

T-11183

July 1965

T-11183 is one of 40 similar surveys comprising Project PH-116. Project coverage includes (1) Cape Cod Bay shoreline, (2) approximately  $\frac{1}{2}$  of the east shore of Cape Cod, and (3) the islands of Martha's Vineyard and Nantucket.

Subject map coverage includes the towns of Eastham and North Eastham.

In accordance with instructions dated November 22, 1957, the ocean shoreline was not compiled.



## 2. AREAL FIELD INSPECTION

The land area of this sheet consists of a part of the narrow peninsula separating the Atlantic Ocean and Cape Cod Bay. The average width of the land area is three miles and contains the settlements of Eastham and North Eastham.

The area is dependent mainly upon the tourist trade as a means of livelihood. The developed areas along the beaches consists mostly of summercottages.

One good highway crosses the area in a north-south direction. A secondary road network affords means of reaching the beaches to the east and west.

Field inspection is believed complete and was performed on the following photographs: 53-J-469 through 473; DPL-5K-71 through 74; and DPL-3K-4 through 7.

Photography was of fairly recent date and of good quality and no difficulty was encountered in their interpretation in the field.

## 3. HORIZONTAL CONTROL

All Coast and Geodetic Survey stations was searched for and where recovered was identified.

One third-order traverse station established by the Mass. Geodetic Survey was identified.

The following stations were reported lost: NAUSET MOORS SILO 1933; NAUSET COAST GUARD SIGNAL MAST 1933; NAUSET BEACH CENTER BEACON 1846; NORTH EASTHAM 1933; CAREY 1933; 144A; 144B; 144C; 145A, and 145B.

NAUSET MOORS SILO 1933 was reported lost but was identified. The circular base was still in place on the ground.

## 4. VERTICAL CONTROL

One tidal bench mark was recovered, Nauset Beach Lighthouse Tidal BM 1(1949).

No vertical control was established.

## 5. CONTOURS AND DRAINAGE

Contouring was not a part of the work requirements for this project.

Herring River is the only perennial stream in the area. This stream is self-evident from the photographs.



6. WOODLAND COVER

Inapplicable.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected by walking along the beach and has been indicated at intervals on the photographs. It was not practical to visit the area at low water and the low water line has not been indicated.

The foreshore along the Atlantic Ocean is steep and there would be very little horizontal displacement between the mean high water line and the mean low water line. The foreshore along Cape Cod Bay is gradual and there is a displacement of several hundred feet between the two lines.

All bluffs or cliffs are adequately covered by field inspection notes on the photographs.

All docks, wharves, piers, etc. are adequately covered by notes on the field inspection photographs.

There are no submarine cables in the area.

There are no other shoreline structures.

8. OFFSHORE FEATURES

A scuttled liberty ship is located approx. 2 miles offshore in Cape Cod Bay. This ship is used as a target in aerial gunnery practice. The mast on the target ship was located by intersection from existing triangulation.

9. LANDMARKS AND AIDS

One landmark for nautical charts was deleted and one was added. All information is adequately covered by the photographs and Form 567.

One fixed aid to navigation, Nauset Beach Lighthouse, was located by triangulation in 1932 and has not been disturbed since.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

The following recoverable topographic stations were established: CUPOLA, ROCK and SPIT.

12. OTHER INTERIOR FEATURES

Buildings along the shoreline were inspected according to Paragraph 5446 of the Topographic Manual. All roads have been classified in accordance with Paragraph 5441 of the Topographic Manual.

There are no bridges or cables over navigable waters.

There are no airports or landing fields.

13. GEOGRAPHIC NAMES

No discrepancies in published names were noted and no new names are recommended for charting.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. Ph-116-2, Forms 567, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-116-28, Data, Map T-11183, forwarded to Washington Office **OCT 26 1953**

Submitted  
26 October 1953

*William M. Reynolds*  
William M. Reynolds  
Carto. Survey Aid

Approved & Forwarded

**OCT 26 1953**

*Lorin F. Woodcock*  
*By Basil F. Fitzgerald*  
Lorin F. Woodcock  
Chief of Party

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T. 11183

PROJECT NO. Ph-116

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -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)
WELLFLEET SOUTH BASE, 1936	G-3548 p. 128	N.A. 1927	41	51	53.433			1648.6	202.6		
			69	59	00.399			9.2	1374.6		
HERRING, 1933	G-3711 p. 198	"	41	49	25.751			794.5	1056.7		
			70	00	13.900			320.8	1064.0		
NAUSET LIGHTHOUSE, 1932	G-3548 p. 128	"	41	51	37.796			1166.1	685.1		
			69	57	09.309			214.7	1169.2		
145C MGS	M.G.S. p. 43	"	320,867.81			867.81	4132.19	264.5	1259.5		
			1,006,720.94			1720.94	3279.06	524.5	999.5		
Sub. Pt. HERRING, 1933		"	41	49				802.5	1048.7		
			70	00				325.7	1059.1		
REAR MAST, 1933		"	306,338.18			1338.18	3661.82	407.9	1116.1		
			996,726.04			1726.04	3273.96	526.1	997.9		
NORTH EASTHAM MGS, 1933	p. 128	"	41	51	24.679			761.4	1089.7		
			70	00	26.582			613.2	770.8		
145A, MGS	p. 43	"	317,244.03			2244.03	2755.97	684.0	840.0		
			1,006,351.47			1351.47	3648.53	411.9	1112.1		
145B, MGS	p. 43	"	319,591.38			4591.38	408.62	1399.5	124.5		
			1,006,097.45			1097.45	3902.55	334.5	1189.5		
NAUSET MOORS SILO, 1933 (Destroyed)	p. 198	"	41	50	51.364			1584.7	266.4		
			69	57	23.477			541.6	842.6		

1 FT. = 3048006 METER  
COMPUTED BY: Norman Wedemeyer

DATE 9 July 1954

CHECKED BY: B. Kurs

DATE

3 August 1954

COMM. DC-57843

COMPILATION REPORT  
Survey T-11183

The photogrammetric plot report is a part of combined Descriptive Report, T-11175 and T-11176.

31. DELINEATION

This manuscript was delineated by the graphic method. In some places later photography, taken in 1955, indicated roads which the field inspection photography did not show. These roads were delineated by analogy.

The interior limits of delineation were set to include all of the Gar Highway (U.S. No. 6) and New York, New Haven and Hartford Railroad. (see revised project instructions dated 22 November 1957, para. 4)

32. CONTROL

The identification, density, and placement of control was adequate.

33. SUPPLEMENTAL DATA

USGS Orleans, Massachusetts quadrangle was used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: not applicable.  
Drainage: not comment.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. The offshore limit of sand (approximate low-water line) falls to the west of the manuscript limits and no junction of this line could be made with T-11181 or T-11188.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

One Form 567 is being submitted for two landmarks. A Form 567 was submitted by the field party for one aid to navigation.



38. CONTROL FOR FUTURE SURVEYS

Form 524 for two recoverable topographic stations, SPIT, 1953 and ROCK, 1953 are being submitted.

"CUPOLA", listed in item 11 of field report as a recoverable topographic station, is a landmark and is reported on Form 567.

39. JUNCTIONS

Junctions are in agreement with T-11181 to the north and T-11188 and T-11189 to the south. To the east and west are all water areas. (also see item 35)

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 - 45

Not applicable.

46. COMPARISON WITH EXISTING MAPS

USGS Orleans, Massachusetts quadrangle, scale 1:31,680, edition of 1944, reprinted 1947.

C&GS T-5735, Orleans and vicinity, scale 1:10,000, dated 1941.

47. COMPARISON WITH NAUTICAL CHARTS

Chart 581, scale 1:40,000, published 1936 and corrected to 9/21/53.


Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted  
1 May 1959

  
Bernard Kurs  
Carto. Photo. Aid

Approved and forwarded

  
William F. Deane,  
CDR, C&GS  
Baltimore District Officer

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Review Report  
T-11183  
July 29, 1965

62. Comparison with Registered Topographic Surveys

T-5734	1:10,000	1943
T-5735	1:10,000	1943

T-11183 supersedes the prior surveys for nautical charting purposes in common areas.

63. Comparison with Maps of Other Agencies

USGS quad., Orleans, Mass. 1:24,000 1962

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

581 1:40,000 revised 9/24/62

The form indicating application to nautical charts has not been inserted in the subject Descriptive Report.

No significant differences were noted.

66. Adequacy of Results and Future Surveys

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

Reviewed by:

S. G. Blankenbaker  
S. G. Blankenbaker

Approved by:

Charles H. Hemen  
Chief, Photogrammetric Branch  
H.C.H.

L. J. Woodward  
Chief, Photogrammetry Division

Chief, Nautical Chart Division

(14)

7-15-59

Form T-2

50 -

# PHOTOGRAMMETRIC OFFICE REVIEW

T. 11183

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

## CONTROL STATIONS

5a. Classification label ☒

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

## ALONGSHORE AREAS

(Nautical Chart Data)

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

## PHYSICAL FEATURES

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

## CULTURAL FEATURES

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

## BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

## MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒  
40. R. E. Glaser Joseph Steinberg  
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

TO BE CHARTED  
~~TO BE DELETED~~

Plymouth, Mass. 23 Oct. 1953

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

The positions given have been checked after listing by Isaiah Y. Fitzgerald

/s/ Lorin F. Woodcock

**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.

**\* TABULATE SECONDS AND METERS**



**STRIKE OUT ONE**

## NONBLANKING/ATDS/OR/LANDMARKS FOR CHARTS

**Baltimore, Maryland**

1 May 1959

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

The positions given have been checked after listing by

**R. Glaser**

**William F. Deane** *Chief of Party.*

Chief of Party.

16

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.

\* TABULATE SECONDS AND METERS

48. GEOGRAPHIC NAME LIST

Aspinet Road

Barnstable County

Brackett Road

Bridge Road

Bridge Pond (Name from T-5735) *OK ajw*

Campground Landing

Campground Road

Cape Cod

Cape Cod Bay

Church of the Visitation

Chapel in the Pines

Cole Road

Cook Brook Road

Depot Pond

Eastham

Eastham Methodist Church

Evergreen Cemetery

First Encounter Beach

Governor Prentice Road

Gar Highway

Great Pond

Great Pond Road

Herring Brook

Herring Brook Road

Herring Pond

Herring River

Higgins Road

Jemima Pond

Kingsbury Beach

Kingsbury Beach Road

Locust Road

Massasoit Road

McKay Road

Mill Road

Muddy Pond

New York, New Haven and Hartford (R.R.)

North Eastham

Oak Road

Samoset Road  
Silver Spring Beach  
Sunken Meadow

Thumpertown Beach (Name from T-5735) *OK a/w*  
Thumpertown Road

U. S. 6 (hwy)

West Road  
Widow Harding Pond

Names from USGS Orleans, Massachusetts quadrangle except as noted.

*OK a/w*

*Names checked &  
approved  
7-23-65*

*A. J. Wright*

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11183

## 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]