

11169

Diag. Cht. Nos. 1207-2 & 1208-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-116 Office No. T-11169

LOCALITY

State Massachusetts

General locality Massachusetts Bay

Locality Green Harbor

1952-53

CHIEF OF PARTY

E. H. Kirsch, Chief of Party

LIBRARY & ARCHIVES

DATE January 2, 1966

USCOMM-DC 5087

11169

DATA RECORD

T-11169

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: **E. H. Kirsch**

Instructions dated (II) (III):
 30 April 1953
 9 June 1953 (Supplement 1)
 9 July 1953 (Supplement 2)
 11 ~~July~~ ^{August} 1953 (Supplement 3)
 10 July 1953 (Letter 70-lmh)
 12 Feb. 1954 (Office)

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): **THIRD CLIFF SCITUATE OP, 1940**

Lat.: **42° 10' 33.979" (1048.4m)** Long.: **70° 42' 56.425" (1295.1m)**

Adjusted
~~00000000~~

Plane Coordinates (IV):

State: **Massachusetts** 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.

Not Applicable

SHORELINE

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

3

DATA RECORD

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

Date **July 1953**

Planetable contouring by (II): **None**

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): **1953, Field inspection.**

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

Date: **10/30/53**

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

Date: **11/2/53**

Control plotted by (III): **J. King**

Date: **3/11/54**

Control checked by (III): **A. Queen**

Date: **3/11/54**

Radial Plot of ~~Stereoscopic~~

Date: **3/15/54**

~~contouring~~ by (III): **F. M. Wisiecki**

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): **J. Tolodziecki**
R. Hartley
J. Honick

Date: **9/16/55**

Photogrammetric Office Review by (III): **R. Glaser**

Date: **10/3/55**

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

Date:

④

Camera (kind or source) (III): **Production and Marketing Administration, single lens**

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
DPT-5K-107 thru 111	7/26/52	1000	1:10,000	2.6' above MLW
DPT-5K-170 thru 173	"	1100	"	4.3' " "

Tide (III)
From Predicted tables

Reference Station: **Boston**
Subordinate Station: **Scituate**
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	9.5	11.0
0.9	9.0	10.4

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

Date: **June 1964**

Final Drafting by (IV): **Baltimore Office**

Date: **1955**

Drafting verified for reproduction by (IV): **S. G. Blankenbaker**

Date: **June 1964**

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **10**

Shoreline (More than 200 meters to opposite shore) (III): **11.4**

Shoreline (Less than 200 meters to opposite shore) (III): **15.0**

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): **26**

Recovered: **20**

Identified: **12**

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): **4**

Number of Temporary Photo Hydro Stations established (III):

Remarks:

SHORELINE MAPPING PROJECT PH-116

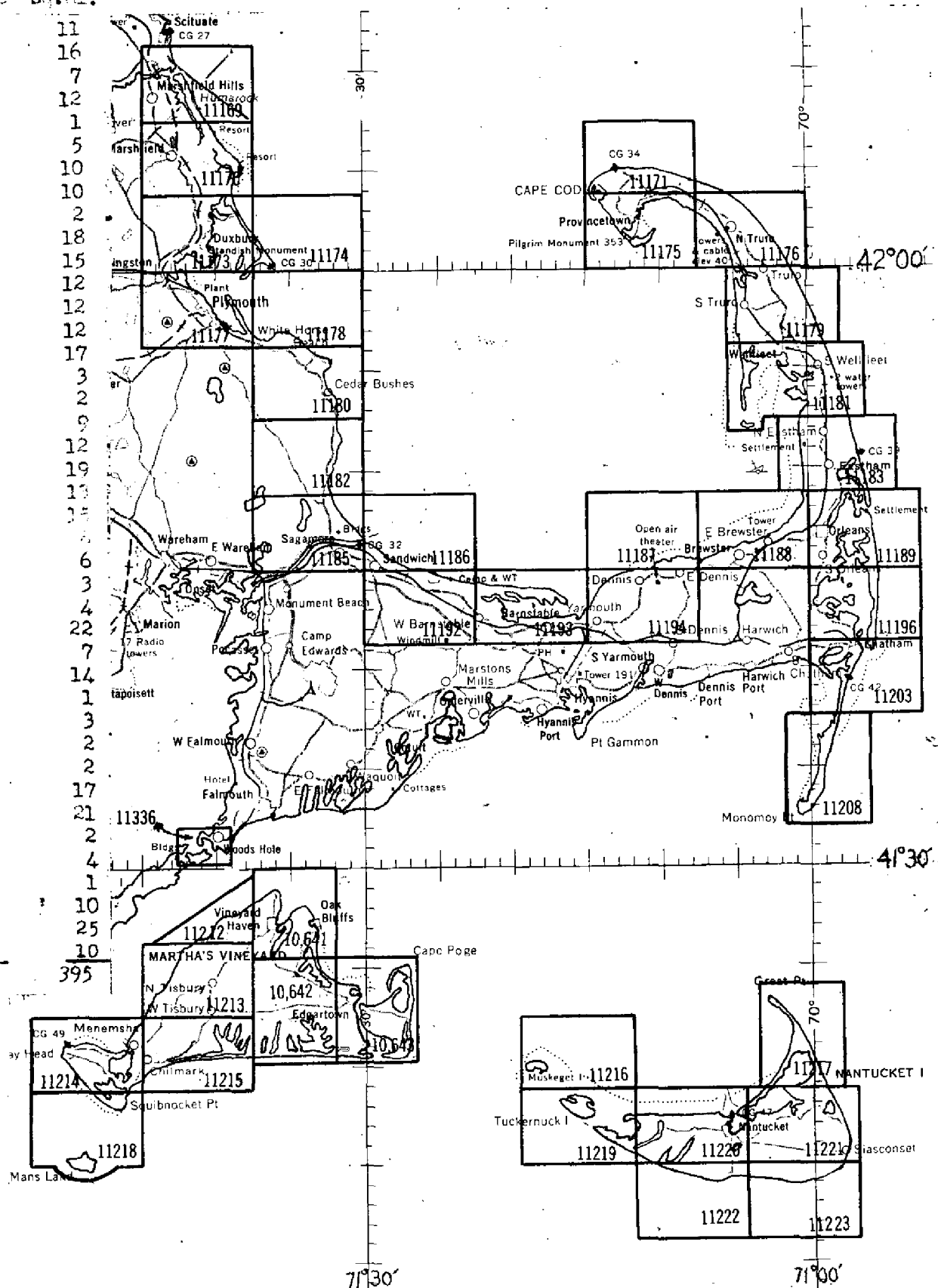
CAPE COD, MASS.

5

Official Mileage for Cost Accounts

Sheet - lin.Mi. Area
No. Shoreline 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	15
11196	14	6
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	10	10
TOTALS	607	395



(6)

Summary to Accompany Descriptive Report

T-11169

T-11169 is one of 40 similar shoreline maps comprising project PH-116. T-11169, extending along the west shore of Massachusetts Bay from Peggotly Beach to Humarock Beach, covers New Inlet at the mouths of the North and the South Rivers.

2. AREAL FIELD INSPECTION

The area is located along the west side of Massachusetts Bay and includes parts of the towns of Marshfield and Scituate.

The areas along the bay are more thickly settled than any other parts; most of the beach areas being covered with typical beach cottages catering to the tourist trade during summer.

Away from the beaches the houses are widely scattered along the various roads.

Parts of the area are covered by dense woods and high ridges, with the ridges sloping rather steeply to the rivers and bay.

Field inspection is believed complete and was performed on the following 1:10,000 scale photographs: DPT-5K-106 through DPT-5K-108 and DPT-5K-170 through DPT-5K-173.

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

3. HORIZONTAL CONTROL

All U.S.C. & G.S. control was searched for.

To supplement the control of this Bureau, several third-order traverse stations, established by the Massachusetts Geodetic Survey were identified. These stations are 29B, 29C and M 3A 22.

Station NORTH SCITUATE STACK 1934 was reported lost but was identified. The stack was formerly 165 feet high but has been cut down to its present height of 50 feet. The base of the stack is the same as originally.

The following stations were reported lost: 29A, 29E, 29F and CEDAR POINT.

4. VERTICAL CONTROL

Work requiring vertical control was not a requisite of this project. None was searched for and none was established.

5. CONTOURS AND DRAINAGE

No contouring was required for this shoreline project.

All perennial drainage is along the short streams running inland from the bay. These streams are self-evident from the photographs and have not been indicated.

6. WOODLAND COVER

Adequately covered by the photographs.

(Note: Field inspection completed prior to receipt of Instructions, Field - Project Ph-116, Supplement III).

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line has been indicated at intervals on the photographs. Measurements were taken from identifiable points along the beach in some cases and in others the beach was walked and the mean high water line indicated by inspection.

The area was inspected on two occasions at low water and the approximate low water line has been indicated on the photographs.

The foreshore varies widely in different parts of the map. In some places the foreshore is several hundred feet in width, while in others there is little appreciable distance from the mean high water line to the mean low water line. The area in the vicinity of Third and Fourth Cliffs is a bluff with elevations up to approximately 60 feet. The remaining area is a low sand beach with scattered dunes.

All docks, wharves, piers and landings have been indicated on the photographs.

There are no submarine cables in the area.

8. OFFSHORE FEATURES

No offshore features, other than several rocks near the low water line, were visited. These rocks are of no particular significance to navigation but have been indicated on the photographs together with their elevation above the water at the time and date on which they were visited.

9. LANDMARKS AND AIDS

No new landmarks for charts were selected. The current chart of the area was inspected and no landmarks are to be deleted. There are no aids to navigation in the area.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

The following recoverable topographic stations were established: BOUNDARY 1953, CENT 1953, MARSH AVE 1953 and WIND 1953.

12. OTHER INTERIOR FEATURES

All roads have been classified according to Paragraph 5441 of the Topographic Manual.

The clearances of two bridges were determined as follows:

Stream	Type	Use	Hor. Cl.	Vert. Cl.	Time (EDT)
North River	Bascule	Hwy	31.6 ft.	16.4 ft.	1045 7/6/53
South River	Fixed	Hwy	30.3 ft.	19.6 ft.	1135 7/3/53

There are no cables over navigable waters.

There are no airports or landing fields in the area.

13. GEOGRAPHIC NAMES

No discrepancies in charted names or new names were found during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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

Letter of Transmittal No. Ph-116-5, Data, Map T-11169, Forwarded to Washington Office 11 September 1953.

Submitted
8 September 1953

William M. Reynolds
William M. Reynolds
Cartographic Survey Aid

Approved & Forwarded
11 September 1953

E. H. Kirsch
E. H. Kirsch
Chief of Party

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

MAP T. 11169

PROJECT NO. 6116

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -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)
SCITUATE SECOND CLIFF TOWER MGS, 1938 (Tower, 1908)	P. 245 GTZ-G 4249	N.A. 1927	42	11	29.433			908.1	(943.1)		
			70	43	04.372			100.3	(1276.4)		
M3A 22, MGS, 1934	P. 4 MGS	"	42	11	29.433			1454.9	(69.1)		
			802	923.81				891.2	(632.8)		
29B, MGS, 1934	P. 1 MGS	"	42	11	29.433			1156.1	(367.9)		
			804	686.77				1428.5	(95.5)		
Sub. Pt. 29B	Comp.	"	42	11	29.433			1159.1	(364.9)		
			804	750.28				1447.9	(76.1)		
THIRD CLIFF SCITUATE O.P., 1940	P. 515 G-4548	"	42	10	33.979			1048.4	(802.9)		
			70	42	56.425			1295.1	(82.0)		
R.M. 1 THIRD CLIFF SCITUATE O.P.	Comp.	"	42	10				1062.0	(789.3)		
			70	42				1295.2	(81.9)		
FOURTH CLIFF (USE), 1943	P. 399 G-5933	"	42	09	35.421			1092.9	(758.3)		
			70	42	19.453			446.6	(930.8)		
29C MGS, 1934	P. 1 MGS	"	42	11	29.433			1133.2	(390.8)		
			807	927.37				892.3	(631.7)		
STODDARD'S BARN CUPOLA, 1885	P. 672	"	42	09	24.53			756.8	(1094.4)		
			70	44	33.38			766.4	(611.2)		
NORTH MARSHFIELD UNITARIAN CHURCH SPIRE, 1849	P. 244 GTZ-G 4249	"	42	08	29.590			913.0	(938.3)		
			70	44	29.539			678.3	(699.5)		
HOLLY HILL, 1943	P. 399 G-5933	"	42	08	06.238			192.5	(1658.8)		
			70	42	12.617			289.8	(1088.2)		
Sub. Pt. HOLLY HILL	Comp.	"	42	08				177.1	(1674.2)		
			70	42				266.4	(1111.6)		

1 FT. = 3048006 METER

COMPUTED BY: J. King

DATE 3/9/54

CHECKED BY: J. Steinberg

DATE 3/10/54

CONT. DC-57843

COMPILATION REPORT
Project No. 6116
Survey No. T-11169

For Photogrammetric Plot Report, see Descriptive Report for Survey No. T-11173.

31. DELINEATION

Graphic methods were used to delineate this manuscript.

The vertical projector was used to compensate for scale difference between the photographs and the map manuscript.

A swamp area (NW corner of this survey) for which there was no field inspection, was transferred to the manuscript from the U.S.G.S. Scituate quadrangle by use of the vertical projector.

The delineation was done on a worksheet and transferred to the manuscript by scribing methods. See paragraph 41.

The interior limits of delineation are as specified by the project instructions.

32. CONTROL

Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

The revision data for the U.S.G.S. Scituate quadrangle submitted by the field party was used for additional field inspection.

The U.S.G.S. Scituate quadrangle was used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.

Drainage: The unsurveyed drainage symbol was used to delineate drainage, obscured by trees, that have a geographic name.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and low water line inspection furnished by the field party was adequate.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

Form 567 has been submitted for one landmark to be charted.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 for four topographic stations have been prepared. They are listed in paragraph 11.

39. JUNCTIONS

Junction of the high water line with Survey No. T-9513 (1950), Ph-64 to the north is not in agreement. This is a result of a difference in field inspection between these surveys. Junction with T-11170 to the south is in agreement. No contemporary survey to the west and an all water area to the east.

40. HORIZONTAL AND VERTICAL CONTROL

Refer to Photogrammetric Plot Report.

41. SCRIBING

After the work sheet was compiled and reviewed the work was transferred on a light-table to a yellow coated sheet sensitized with watercote. The linework was then scribed. The blackline impression made from the scribed sheet, with the addition of stick-up symbols and lettering, is now the map manuscript.

42 - 45 Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle, Scituate, Mass., scale 1:31,680, edition of 1940, revised in 1947.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 1207, scale 1:80,000 published July 1945 (4th edition) corrected to July 19, 1954.

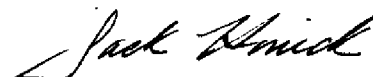
Items to be applied to Nautical Charts immediately:

None.


Items to be carried forward:

None.

Respectfully submitted
16 September 1955


Jack Honick,
Carto. Photo. Aid

Approved and forwarded


E. H. Kirsch,
Comdr. C&GS
Baltimore District Officer

(14)

4 Oct 1955

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11169

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒5a. Classification label ☒

CONTROL STATIONS

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. E. Glaser Joseph Steinberg
Reviewer Supervisor, Review Section of 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
Shoreline Survey T-11169
June 1964

62. Comparison with Registered Topographic Surveys

719	1858	1:10,000 Scale
719a	1909	1:10,000 Scale

T-11169 supersedes the prior survey for charting purposes.

63. Comparison with Maps of Other Agencies

USGS Quadrangle, Scituate Mass., 1961, 1:24,000 scale

No significant differences between the maps were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

1207 and 1208, scales 1:80,000

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 L. ...
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

J. E. Vaughn 8/17/65
Chief, Photogrammetry Division

48. GEOGRAPHIC NAMES

Ames Way

Bares Brook
Bear Island
Branch Creek
Broad CreekCanoe Tree St.
Carolina Hill
Church St.
Coast Guard Radio Station Boston NMF
Coleman Hills
Country WayFerry Hill
Ferry St.
First Church of Christ Scientists
* First Herring Brook *OK A/W*
Forest St.
Fourth CliffGilson Rd.
Greenbush
Greenfield LaneHannah Fames Brook
Highland St.
Holly Hill
Humarock
Humarock Beach
Herring River *OK JMC 2-20-67*
Kent St.Lewis Pond
** Little Creek *OK A/W*Macombers Creek
Main St.
Marchfield Hills
Massachusetts Bay
Massachusetts 3A (Hwy)New Inlet
New York-New Haven & Hartford
North Community Church
North River
North River MarshOld Main St.
Old Mouth North River*Names approved
5-15-65
A. J. Whanght** Shown on Chart 1207 as Herring River
** Little Creek on Chart 1207

48. GEOGRAPHIC NAMES (cont'd)

Peggotty Beach
Pine St.
Pleasant St.
Prospect St.

Rivermoor

Scituate Country Club
Sea View
South River
Spring St.
St. Catherine's Chapel
Stockbridge Rd.
St. Therese Chapel
Summer St.

The Driftway
Third Cliff
Tilden Island
Trouant Island

Wales Pond

Wills Island

TO BE CHARTED
~~to/bh/believed~~

STRIKE OUT ONE

NONFLOATING AIDS/OR LANDMARKS FOR CHARTS

Baltimore, Maryland

February 1956

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

carried on ~~(added/removed)~~ the charts indicated.

(Signed) E. H. Kirsch

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-11169

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]