Diag. Cht. No. 1210-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric
Field No. Ph-163 Office No. T-10492
LOCALITY
State Massachusetts - Rhode Island
General locality Narragansett Bay
Locality Fall River (south)
1956
CHIEF OF PARTY Ira R. Rubottom, Chief of Party W. E. Randall, Baltimore District Officer
LIBRARY & ARCHIVES

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DATE ...

USCOMM-DC 5087

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DESCRIPTIVE REPORT - DATA RECORD

- 2 -

T- 1.0492

Ph-163

Project No. (II): ASARO

Quadrangle Name (IV):

Field Office (II): East Providence, R. I.

Chief of Party:

Ira R. Rubottom

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: William E. Randall

Instructions dated (II) (III):

(II) 9 April 1956 13 March 1957

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000

(Pantograph ratio 3/5)

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):

M KANTAGEN KANTAGEN AND KANTAGEN THE TRANSPORT

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

NO TIDEWATER

Reference Station (III): FALL RIVER - TIVERTON CORNER 3, 1891

Lat.: 41° 40' 05.316(164.0) Long.: 71° 10' 35.852 (829.4)

Adjusted L MONTHONING MEDICAL

Plane Coordinates (IV):

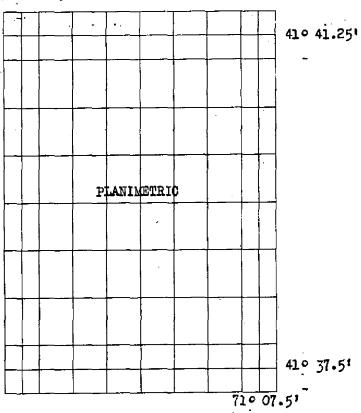
State:

Zone:

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.

710 11.251



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

DESCRIPTIVE REPORT - DATA RECORD

- 4 -

Field Inspection by (II): Martin C. Moody

DateMay - October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II): NO FIELD ED IT

Date:

Date:

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

Projection and Grids ruled by (IV): J. B. Phillips

8/6/57

Projection and Grids checked by (IV): J. B. Phillips

8/6/57 Date:

Control plotted by (III):

E. L. Rolle

8/27/57 Date:

Control checked by (III):

B. Kurs

Date: 9/4/57

RECEDENCE Stereoscopic

Control extension by (III): E. L. Rolle

3/13/58 Date:

Planimetry

Date:

Stereoscopic Instrument compilation (III): J. C. Richter)

XXXXXX E. L. Rolle

2/10/59 Date:

scribed

Manuscript delineated by (III):

C. A. Lipscomb

9/28/60 Date:

Photogrammetric Office Review by (III): E. L. Rolle

7/12/60 Date:

Elevations on Manuscript

checked by (il) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

- 5 -

Camera (kind or source) (III): USC&GS Type "W" 6" focal length

PHOTOGRAPHS (III)
Number Date Time (EST)

Scale

Stage of Tide

56-W-273 and 274 56-W-332 and 333

5/1/56

0946

1:30,000

No tidal waters

Tide (III)
No tide water

Reference Station: Subordinate Station: Subordinate Station:

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

Date: JAN. 1968

Range

|Ratio of | Mean | Spring

Range

Ranges

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 12 sq. mi.

Shoreline (More than 200 meters to opposite shore) (III): None.

Shoreline (Less than 200 meters to opposite shore) (III): None.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 6

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III): Recovered:

None.

Date:

Date:

Date:

Identified: 1

Remarks:

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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-10492

T-10492 is one of 30 planimetric maps comprising Project PH-163. Project maps cover the Narragansett Bay, Rhode Island - Massachusetts area.

Field inspection preceded compilation. This map was not field edited.

The project area was bridged by multiplex and compiled by a Kelsh Plotter.

The addendum to this Summary includes a discussion of project map accuracy and adequacy.

A cronaflex copy of the map will be registered.

ADDENDUM TO SUMMARIES TO ACCOMPANY JOB PH-163 MAPS T-10472 through T-10501 (ACCURACY AND FUTURE SURVEYS)

Most of the project maps were used in contemporary hydrographic survey operations. Four hydrographic surveys accomplished in the period of time between 1943 and 1955 cover the project area outside the areas of contemporary surveys.

The contemporary hydrographic surveys have been registered. With one exception they are classified "basic". Survey H-8367 is classified as "basic for charting only".

Considerable difficulty was experienced during smooth plotting and verification of some hydrographic surveys in using signals located by plane table methods. Many of the objects were identified on field photographs by the plane table party. Field identification of these objects was re-examined in the Baltimore Office, Compilation Unit. Some of the objects were relocated photogrammetrically and this revised information was furnished for use in smooth plotting.

The Norfolk Processing Office Addendum to Accompany Survey H-8316 mentions difficulties experienced when plotting sextant angles locating piles, piers, shoreline changes, etc. -they were seldom in agreement with photogrammetric manuscript positions. The Washington office verifier was unable to adjust the subject information using the available hydrographic To assist in resolving the discrepancies, the Photogrammetry Division (Washington Office Review Group) rechecked signal locations on Maps T-10472, T-10473, T-10475 and T-10476. Fifty-seven signal locations and random portions of shoreline were revised by graphic methods using available field photographs that included field identified primary control and This additional work is subject to error due to the condition of the photographs and the more limited use of project control; many discrepancies between the surveys, however, were resolved by using the revised information. No requests for similar rechecks were made by verifiers of other hydrographic surveys.

In part, the problems encountered in survey H-8316 (and H-8394) during hydrography and by verifiers can be attributed to the enlargement of these photogrammetric maps from 1:10,000 to 1:5,000 scale for use in hydro support. Similar problems on

other hydrographic surveys were attributed, in part, to incorrect transfer of signals, substandard plotting and use of weak sextant fixes.

Control for project bridging (multiplex) was classified "over abundant" (150 stations). While 25% of the stations were "difficult to see", only two stations were not held. Pass points between strips were averaged-adjustment less than 0.5 mm.

In addition to the previously mentioned supplemental work (relocation of signals and shoreline), two stereoplanigraph models were set to test horizontal map accuracy. The models covered parts of maps T-10472 and T-10473. A datum difference was found to exist between Bureau control and MGS and USGS control. Adjustment of these difference produced no appreciable shift in map details.

Rock information mapped on some of the photogrammetric surveys was incompled as the result of poor photography inadequately supplemented by field inspection. The hydrographer located many rocks missed on the photogrammetric survey; and, in addition, the hydrographic survey reviewers found it necessary to bring forward considerable rock information without the benefit of verification by either the photogrammetric surveys or the contemporary hydrographic surveys.

These surveys have been used, in part, for nautical charting through both direct application of details and indirectly through contemporary hydrographic surveys. As previously mentioned, all but one of the contemporary hydrographic surveys have been registered as "basic surveys". Registration of these maps is recommended. Future use of the maps for hydro support purposes is not recommended due to the previously discussed problems that were encountered. Rebridging by analytic aerotriangulation and new mapping with new color and infrared photography is recommended.

S. G. Blankenbahr

NOTE: POLITICAL BOUNDARIES - With the exception of the Mass - Rhope Island State Line, none of the numerous. mapped political boundaries are shown on modern charts. In Consideration of the loss of some field photographs, and requests by photogrammetric office reviewers for field verification of boundaries, it is recommended that the project maps not be considered sources for political boundaries (with the exception of the state line). See

FIELD INSPECTION REPORT Project 25120 Map T-10492

Please refer to the Field Inspection Report for Map T-10474 for all data pertaining to this map.

most - C. moody Martin C. Moody Cartographic Survey Aid

Approved: fritgueld

Ira R. Rubottom Chief of Party

FIELD INSPECTION PHOTOGRAPHS—
56W 260, 262, 273, 274, 275

PHOTOGRAPHS 260 AND 275 WERE
MISSING AT THE TIME OF FINAL
REVIEW - APPARENTLY LOST.

FORM **164** (4.23.54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

MAP T. 10492 PROJECT NO Ph-163 SCALE OF MAP 1:10,000 CONTROL RECORD

COAST AND GEODETIC SURVEY

1,000 SCALE FACTOR

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COMPILATION REPORT T-10492

The photogrammetric plot report for this survey is part of the Descriptive Report for Survey No. T-10472.

31. DELINEATION

The Kelsh plotter was used for delineation. Two stateline boundary monuments were established in the Kelsh model using C.S.I. card identification. These two monuments, plus two triangulation station corners, were used to delineate the state boundary between Massachusetts and Rhode Island.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Geographic Name Standard, dated 5 March 1957.

34. CONTOURS AND DRAINAGE

Drainage is complete. Contours and inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline was delineated from office interpretation. This consisted of large ponds in the area. There is no tidal water within the limits of this manuscript.

36. OFFSHORE DETAIL

An abundance of rocks are scattered throughout the water area on this quadrangle. By office interpretation most of these rocks were delineated. In congested areas only the more prominent rocks were shown.

37. LANDMARKS AND AIDS

Form 567 has been submitted. Copy is bound with Descriptive Report for T-10485.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

To the north with T-10485.

To the east with T-10493.

To the west with T-10491.

To the south with T-11428 (Ph-142).

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

The boundary between the town of Westport, Massachusetts and the city of Fall River, Massachusetts was delineated from U.S. G. S. $7\frac{1}{2}$ minute series of Fall River, Massachusetts-Rhode Island.

42. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S. $7\frac{1}{2}$ minute series of Fall River, Mass.-R. I., scale 1:31,680, edition of 1944, reprinted with corrections in 1950.

Map of city of Fall River, Mass., 1903.

47. COMPARISON WITH NAUTICAL CHARTS

C&GS chart No. 353, scale 1:40,000; 19th edition, 10 March 1958, revised 25 January 1960.

Items to be applied to nautical charts immediately: None. Items to be carried forward: None.

Respectfully submitted

19 October 1960

Edward L. Rolle Carto. (Photo.)

Approved and forwarded

William E. Randall

LCDR, C&GS

Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10492

	1. Projection and grids2. Title3. Manuscript numbers_	4. Manuscript size
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	CONTROL STATIONS	4a, Classification label
	5. Horizontal control stations of third-order or higher accuracy6.	Recoverable horizontal stations of less
	than third-order accuracy (topographic stations)	ons X8. Bench marks X
	9: Plotting of sextant fixes	11. Detail points
	ALONGSHORE AREAS	
	(Nautical Chart Data)	
	12. Shoreline13. Low-water line 14. Rocks, shoels, etc	15. Bridges16. Aids
	to navigation17. Landmarks18. Other alongshore physics	19. Other elong-
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	overlay 37, Descriptive Report 38, Field Inspection photon	graphs 39. Forms
	40. Bduard L. Tollo Joses	h steinberg
	Reviewer . Sup	ervisor, Review Section or Unit
	41. Remarks (see attached sheet)	9
	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.	
	Complier	Supervisor
3	westipped .	Owper Trave

43. Remarks:

Review Report T-10492 Jan. 1968

62. Comparison with Registered Topographic Surveys

T-5750

1:20,000

1949

T-10492 supersedes the prior survey for nautical charting purposes in the common area.

63. Comparison with Maps of Other Agencies

USGS Fall River, Mass. - Rhode Island

1:24,000

1949

No significant differences were noted.

64. Comparison with Hydrographic Surveys

Inapplicable - there is no tidal water within the limits of this map.

65. Comparison with Nautical Charts

353

1:40,000

Revised 1/17/66

No significant differences were noted.

66. Adequacy of Results and Future Surveys

The addendum to the Summary for this report includes a discussion of project map accuracy and adequacy. Registration of project maps is recommended. For those project maps covering areas of tidal waters, remapping is recommended for future hydrographic survey support purposes. For this survey many offshore rocks located in large "ponds" (lakes) were delineated from office inspection of the photographs. This information has not been carried forward to chart 353 - probably because the chart is not intended for use in small craft navigation in the area. The mapped rocks should be checked in the field (or new photography obtained) prior to charting for purposes of use in navigation.

Reviewed by

J. J. Blankenbaker S. G. Blankenbaker Approved by

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

Chief, Marine Chart Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-163 (Mass. & R. I.)

T-10492

Bay Street Bleachery Pond Blessed Sacrament School Bliss Corners Brayton Avenue ·Brayton Avenue School Bristol County -Bulgarmarsh Road Cook Hill Cook Pond Coughlin School Æagleville Eagleville Road Eastern Avenue /Fall River Fish Road Flint Village Globe Street Globe Village Green School ·Healy School Henry Lord Junior High School Jewish Cemetery Laurel Lake School Laurel Street Letourneau School -Maplewood Park Massachusetts; Newhall Street

Newport County New York, New Haven and Hartford North Tiverton Notre Dame Cemetery Old County Road Plymouth Avenue · Pocasset Cedar Swamp ·Quequechan River Ranger School Rhode Island Saint Marys Cemetery Saint Patricks School ·Sawdy Pond .Slade School South Main Street South Watuppa Pond Stafford Pond Stafford Road State Avenue Stone School Stony Brook Sucker Brook -Tiverton Townsend Hill ·Tucker Street Warren Street .Watson School Westport -Woodman Street

Approved by:

A. /Joseph Wraight/ Chief Geographer Prepared by:

Cartographic Technician

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NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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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.

CHART	DATE	CARTOGRAPHER	REMARKS
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