Diag. Cht. No. 1210--2. Inser+

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey	Planimetric	
Field No. Ph-16	Office No.	T-10479
	LOCALITY	
State	Massachusetts	ey, and se ra h () will be a shift a maker transpagment pp = 10 rays.
General locality	Taunton River	haa ca kii kii kaa kaaki kaan akkii ka aa akkii ka
Locality	ASSONET	
	1956	·
	CHIEF OF DARTY	

CHIEF OF PARTY
Ira R. Rubottom, Chief of Party
W. E. Randall, Baltimore District Officer

LIBRARY & ARCHIVES

DATE Fberuary 26, 1968

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA-RECORD

2 -

T- 10479

Ph-163

Project No. (II): 77/20

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)

1.000 Scale Factor (III):

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): NA 1927

Vertical Datum (III): MHW EVALOR EX HOLD SEVEN AND THE S

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): ASSONET, 1874

Lat.: 41° 47' 24.778" (764.5 m) Long.: 71° 05' 56.973" (1315.6 m)

Adjusted⁻ BENEVISORY

Plane Coordinates (IV):

State: (

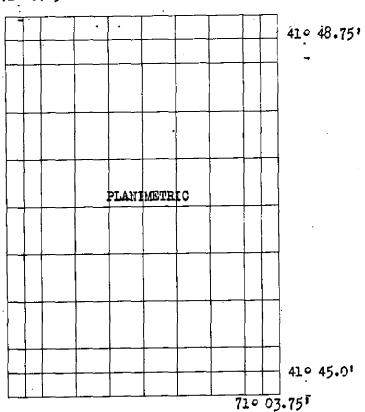
Zone:

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,





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

DESCRIPTIVE REPORT - DATA RECORD

- 4 -

Field Inspection by (II): John S. Winter Leo F. Beugnet Date: May - October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

THIS MAP WAS NOT FIELD EDITED

Mean High Water Location (III) (State date and method of location): 1956 (Photogrammetric - Kelsh Plotter)

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

8/6/57 Date:

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

8/6/57 Date:

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

8/29/57 Date:

D. M. Brant Control checked by (III):

8/30/57 Date:

RadiadxBtothen Stereoscopic E. L. Rolle

10/9/57 Date:

Control extension by (III):

Planimetry E. L. Rolle

7/7/58 Date:

Stereoscopic Instrument compilation (III):

MANAGE NEW

Date:

Manuscript desireated by (III): scribed

C. A. Lipscomb

Date: 7/27/60

Photogrammetric Office Review by (III): J. C. Richter

5/18/60

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

Date:

Date:

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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

Number Date

PHOTOGRAPHS (III)

Time (EST)

Scale

Stage of Tide

56-W-290 thru 292

5/1/56

1013

1:30,000

2.9' above MLW

Also photographs 56 w 277

278

11

279

11

Models set an pass points established by bridge

568

Tide (III) (From predicted tables)

Reference Station:

Newport, R. I.

Subordinate Station:

Fall River, Massachusetts

Subordinate Station:

Washington Office Review by (IV): 5.G. BLANKEN BAKER

Date: Dec. 1967

Range

Ratio of Mean | Spring Range

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Ranges

Proof Edit by (IV):

Date:

Date:

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

Shoreline (More than 200 meters to opposite shore) (III): 15.7 mi.

Shoreline (Less than 200 meters to opposite shore) (III): 3.6 mi.

Identified: 8

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 10 Number of BMs searched for (II):

Recovered: Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

Narragansett Bay, Mass.- Rhode Island

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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT . T-10479

T-10479 is one of thirty planimetric maps comprising Job 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 Kelsh plotter.

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

A cronaflex copy of this 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 signals. 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 incomplete 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. Blankenbaker

NOTE: POLITICAL BOUNDARIES - With the exception of the Mass. - Rhode 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-10479

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

> mosti e. moody Martin C. Moody Cartographic Survey Aid

baich y. Fitzgrald

Approved;

forra R. Rubottom Chief of Party

FIELD PHOTOGRAPHS -56w 277, 278, 279, 280

PHOTOGRAPHS 277, 278, 279 WERE MISSING AT THE TIME OF FINAL REVIEW - APPARENTLY LOST.

FORM 164 (4-23-54)

RIDGE, 1874

PAYNE, 1937

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

DAST AND GEODETIC SURVEY CONTROL RECORD

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) 1,000 CIMITS FORWARD SCALE FACTOR. DISTANCE
FROM GA.D OR PROJECTION LINE
IN METERS SHEET (BACK) N.A. 1927 - DATUM 3015500 FORWARD DATUM riturs SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. 805.9 6.69 943.4 158.6 897.5 156.0 388.8 894.8 1086.6 931.3 835.3 1130.4 1024.3 1046.1 1088.4 1052.2 186.3 793.6 7.16 1000.0 1163.7 1096.8 (BACK) FORWARD 361.4 764.5 7.706 339.4 916.8 640.8 953.6 6.966 798.9 1064.8 385.7 1057.5 222.5 762.7 490.3 1015.8 255.8 1045.2 56.973 1315.6 1226.4 1695.1 1340.1 754.3 1288.1 25.895 LATITUDE OR y-COORDINATE
LONGITUDE OR x-COORDINATE 32.925 33.877 15.650 24.778 14.699 29.812 54.944 58.011 53.127 27.752 43.163 170.11 29.421 24.721 30.908 21.238 Ph-163 3/27/57 元 94 60 9 17 70 48 70 90 9 元 94 07 47 90 90 野 07 03 玩 05 17 07 17 PROJECT NO. 口 口 7 7 7 7 다 7 7 17 듸 中 口 17 中 口 77 77 디 77 口 中 口口 17 DATUM N.A. = = = = = = = = = = = SOURCE OF INFORMATION p. A-16 K. Heywood aunton Juadon (USE) 110 612 809 598 p. 598 597 (INDEX) Comp. G.P. = = = od ·d ·d ·d FALL RIVER FREETOWN SCHOOL FREETOWN 3) MAP T. 10479 FARM HOUSE WHITE ASSONET BAPTIST COMPUTED BY. A. ASSONET, 1874 CHIMNEY, 1874 ASSONET, 1874 1 FT = 3048006 METER сниксн, 1890 BROWNS HILL, STATION Sub Pt RIDGE, 1874

TERRY, 1874

27A 16 MGS

PAYNE, 1937 Sub Pt

Sub Pt

8/13/57

DATE.

CHECKED BY. J. C. Cregan

DATE

COMPILATION REPORT Project Fh-163 T-10479

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.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Final name standard dated .5 March 1957.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage is complete.

35. SHORELINE AND ALONOSHORE DETAILS

All shoreline and alongshore details are from adequate field inspection.

No low-water or shoal lines are shown.

36. OFFSHORE DETAILS

Refer to paragraph 8 of the Field Report.

37. LANDMARKS AND AIDS

Form 567 has been submitted for one aeronautical aid.

38. CONTROL FOR FUTURE SURVEYS

No supplemental control was established.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-10474.

To the east - no contemporary survey.

To the south with T-10486.

To the west with T-10478.

LO. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

The state reservation boundaries were projected from the G.S. quadrangle (see paragraph 10, field report). Comparison was made with the photographs and adjustments were made to identifiable features.

42 through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U. S. Geological Survey $7\frac{1}{2}$ minute quadrangle Assonet, Massachusetts, scale 1:31,680, edition of 1951.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 353, scale 1:40,000, published 10 March 1958, (19th edition) (January 25, 1960).

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

Respectfully submitted

Edward L. Rolle

Carto. (Photo.)

Approved and forwarded

William E. Randall

LCDR, C&GS

Baltimore District Officer

Menn E. Paretall

14

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10479

1. Projection and grids JM 2. Title JM 3. Manuscript numbers JM 4. Manuscript size JM
CONTROL STATIONS 4a. Classification label GC/C
5. Horizontal control stations of third-order or higher accuracy 900 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plot report J LL 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 alongshore cultural features 11.
shore cultural features III
PHYSICAL FEATURES
20. Water features JCR 21. Natural ground cover JCR 22. Planetable contours 23. Stereoscopic
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
features JCK
CULTURAL FEATURES 27. Roads JCAL 28. Buildings JCAL 29. Railroads JCAL 30. Other cultural features JCAL
BOUNDARIES
31. Boundary lines
MISCELLANEOUS OF P
33. Geographic names JCL 34. Junctions JCL 35. Legibility of the manuscript JCL 36. Discrepancy
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms
40. Reviewer Supervisor, Review Section or Unit
Company (and attracted about)
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

REVIEW REPORT T-10479 December 1967

62. Comparison with Registered Topographic Surveys

T-1418	1:5,000	1875
T- 1419a	1:2,500	1875 1 944
T-5750	1:20,000	1944

T-1418 contains considerable rock details not shown on the subject survey. Except for a small area (southwest corner of the Map) no Bureau hydrographic surveys have been accomplished in the area covered by survey T-10479. Prior photogrammetric survey T-5750 provided boat sheet shoreline for the prior hydrographic survey (H-7939). Differences in shoreline between H-7939 and T-10479 are discussed under side heading 64.

63. Comparison with Maps of Other Agencies

USGS quad, Assonet

1:24,000

1963

No significant differences were noted.

64. Comparison with Hydrographic Surveys

H-7939

1:10,000

1951

A 4.0 mm datum difference exists between the surveys.

65. Comparison with Nautical Charts

No. 353

1:40,000

Revised 1/17/66

No significant differences were noted.

66. Adequacy of Results and Future Surveys

Project photography was generally poor for the purpose of interpreting alongshore rock details, and field inspection was inadequate in this regard -- most of the hydrographic surveys covering the project area show many rocks that are not shown on project maps. (Refer to heading 62, map T-1418).

Four pass points (tat. 41° 47' 33", Long. 71°07' 22.5"; Lat. 41° 46' 58.5", Long. 71° 06' 57"; Lat. 41° 46' 31.5", Long. 71° 06' 49.5"; Lat. 41° 47' 31", Long. 71°05' 42",

T-10479, cont.

southern most of two rocks) located in the water area were not symbolized to indicate the nature of the objects. Inspection of available photography -- complete coverage was not available -- indicates that the objects are rocks; and, they were symbolized as rocks awash during final review. These objects should be field inspected.

The addendum to the Summary for this Descriptive Report includes a discussion of adequacy and accuracy of project maps. Registration of the maps is recommended; however, remapping is recommended for future hydrographic survey support purposes.

Reviewed by:

S. G. Blankenbaker

Approved by:

Chief. Photogrammetric Branch

UKalph Sobjevalski MAR 25 1968 Chief. Photogrammetry Division

Chief, Marine Chart Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-10479

-Assonet Assonet Baptist Church Assonet Bay Assonet Burial Ground Assonet Neck Assonet River Bayview Avenue Bell Rock Road Berkley Bethel Cemetery Bryants Neck ·Conspiracy Island Copicut Road Dighton. Fall River Fall River Municipal Airport Ferry Point First Congregational Church

Freetown Fall River State Forest

New York, New Haven and Hartford North Main Street . Pierces Point ·Pine Island Pleasant Street .Rattlesnake Brook -Saint Bernards Church Sandy Point Shepherds Cove Shoves Neck Somerset South Main Street South School .State Wildlife Sanctuary Taunton River Terry Brook .Watuppa Reservation -Westcott Island Whale Rock

Approved by:

Freetown

A. Joseph Wraight Chief Geographer Prepared by:

·Winslow Point

Frank W. Picket Cartographic Technician U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

MONTECOMPRICIONAL LANDMARKS FOR CHARTS Baltimore, Haryland

19_60

I recommend that the following objects which have (anticomment) been inspected from seaward to determine their value as landmarks be

J. C. Richter The positions given have been checked after listing by charted on (delinedxfnorm the charts indicated.

STRIKE OUT TWO

TO BE CHARTED YOUR BEAUTIFUL

-13 Beston Sectional CHARTS AFFECTED Joseph Steinberg, by direction of OFFEHORE CHART TRAND TRONZE LOCATION 35/01 DATE r-10479 METHOD OF COCATION AND BURVEY No. Photo. DATUM 1927 H 134.2 D. P. METERS LONGITUDE 8 POSITION R 11.66 38 LATITUDE* 記 3 BIGNAL Located at Fall River DESCRIPTION MASSACHUSETTS Airport) BEACON CHARTING AIRPORT STATE

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. Revisions shall show both the old and new positions. 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.

USCOMMEDC 27126

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

Letter all information.
 In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
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			Full Part Before After Verification Review Inspection Signed Via
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63