10481

Diag. Cht. No. 1210-2.

FORM **C&GS-504**

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric
Field No. Ph-163 Office No. T-10481
LOCALITY
State Rhode ^T sland
General locality Narragansett Bay
Locality Warwick Pond
19.56
CHIEF OF PARTY I.R.Rubottom, Chief of Party

LIBRARY & ARCHIVES

W.E.Randall, Balto. District Officer

DATE February 11, 1968

USCOMM-DC 37022-P66

2 -

T- 10481

Ph-163

Project No. (II): 2/5/12/0

Quadrangle Name (IV):

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

Chief of Party: Ira R. Bubottom

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: William E. Randall

Instructions dated (II) (III):

Copy filed in Division of Photogrammetry (IV)

(II) 9 April 1956 13 March 1957

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):

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

MIGROPHIA TO A CONTROL OF THE PROPERTY OF THE

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): No. 10 (RISFC) 1956

Lat.: 41° 44' 33.440" (1031.7 m) Long.: 71° 22' 47.558" (1099.0 m)

Adjusted UPER RECOGNISM

Plane Coordinates (IV):

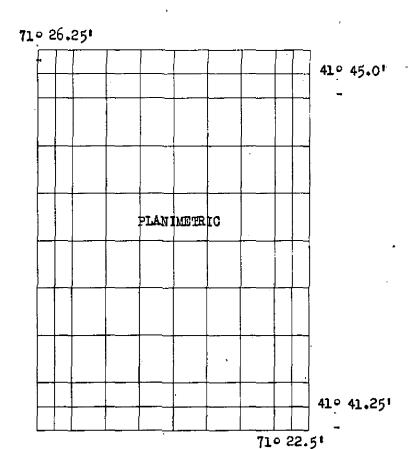
State: Rhode Island Zone:

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.

T-10481



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

Field Inspection by (II): Mathew A. Stewart Leo F. Beugnet Date: May - October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

REFER TO FOOTHOTE PAGE 5

Mean High Water Location (III) (State date and method of location): 1 May 1956, Photo gramme tric

Projection and Grids ruled by (IV): J. B. Phillips Date: 8/5/57

Projection and Grids checked by (IV): J. B. Phillips Date: 8/5/57

Control plotted by (III): B. Kurs Date: 8/28/57

Control checked by (III): J. C. Cregan Date: 9/4/57

Radial Diobox Stereoscopic
Control extension by (III):

D. M. Brant

Planimetry B. Kurs Date: 8/18/58

Stereoscopic Instrument compilation (III):

Manuscript delineated by (III): C. A. Lipscomb

(scribed)

Date: 7/8/6

Photogrammetric Office Review by (III): E. L. Rolle Date: 4/13/60

Elevations on Manuscript Date:

checked by (II) (III):

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

- 5 -

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

PHOTOGRAPHS (III)

Number 56-W-164 & 165 56-W-182 thru 184

Time (EST) 0831

0845

Scale 1:3.0,000

Stage of Tide 1.8' above MLW 1.91

Tide (III) (From Predicted Tide Tables)

Reference Station: Subordinate Station: Newport, R. I. East Greenwich

Subordinate Station:

Nayatt Point, R. I.

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

4.4 4.6

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Ratio of | Mean | Spring Range Ranges Range

Date: NOU- 1966

3

Date:

Date:

Date:

Recovered: Identified:

Identified: Recovered: None None

6.7

3.0

Remarks:

One (1) third-order triangulation station established.

FIELD EDIT:

LIMITED FIELD EDIT BY HYDROGRAPHIC SURVEY PARTY H-8314

10

NO FIELD EVIT SHEET SUBMITTED.

DATE: 1956

Narragansett Bay, Mass.-Rhode Island

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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS T-10477, T-10481, T-10482 and T-10483

Job PH-163 is a planimetric survey project comprised of thirty maps covering Narragansett Bay, Rhode Island-Massachusetts.

A complete field inspection preceded compilation. Limited field edit was accomplished in conjunction with contemporary hydrographic surveys. The project was bridged by multiplex and compiled by Kelsh plotter.

Refer to the accompanying addendum concerning adequacy and accuracy of the subject maps and recommendations regarding future surveys.

Cronaflex copies of the maps 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 appreciably 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 - 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-10481

Please refer to the Field Inspection Report for Map T-10480 for all data pertaining to this map.

Leo F. Beugnet

Cartographic Survey Aid

Approved:

Jesish J. Fitguall

Fira R. Rubottom

Chief of Party

FIELD INSPECTION PHOTOGRAPHS -56W-164 THRU 166 56W 183 11 185 54 W 1048, 1099B, 1099C, 1099D, 1100, 1101

PHOTOGRAPHS 54W 1099B, 1099C, 1099D WERE MISSING AT THE TIME OF FINAL REVIEW - APPAREN-TLY COST.

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

FORM **164** (4-23-54)

CONTROL RECORD

COAST AND GEODETIC SURVEY

STATION	MAP T.10481		PROJEC	PROJECT NO. Ph-163	Ph-163		SCALE OF	SCALE OF MAP 1:10,000	000*(SCALE FACTOR 1,000	→ ⊃R 1. 000
1934	STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE	OR W-CO	ORDINATE HORDINATE	DISTÂNCE FROI OR PROJECTION FORWARD	M GRID IN FEET. LINE IN METERS (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GKID ON PROJECTION LINE IN METERS FORWARD (BACK)	FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
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COMPILATION REPORT Project Ph-163 T-10481

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 to compile this manuscript.

32. CONTROL

Adequate horizontal control. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Planetable Sheets Ph-1-C-56 and PH-1-G-56 (comparison). Final Name Standard dated 5 March 1957.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.
All visible drainage was delineated.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. All alongshore details believed to be adequately shown.

36. OFFSHORE DETAILS

Refer to paragraph 8 of the field report for T-10480.

37. LANIMARKS AND AIDS

Submitted on Form 567.

38. CONTROL FOR FUTURE SURVEYS

No topographic stations were established.

A number of hydrographic signals in this area were observed in the Kelsh models. Their positions were in fair to good agreement with the graphic control surveys (PH-1-C-56 and PH-1-G-56). Many signals could not be seen in the models so that verification was impossible. Refer to the Descriptive Report to accompany Graphic Control Survey Sheets the 1-A-56 through Fh-1-N-56 submitted for this project.

39. JUNCTIONS

The manuscript junctions with T-10475 to the north; T-10488 to the south; T-10482 to the east and T-10480 to the west. All junctions are in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 - 45 No comment.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S. $7\frac{1}{2}$ minute quadrangle of East Greenwich, R. I., scale . 1:24,000, revised 1957, edition of 1959.

47. COMPARISON WITH NAUTICAL CHARTS

C&GS Chart No. 353, scale 1:40,000, 19th edition 10 March 1958, revised 29 June 1959.

USC&GS Chart No. 278, scale 1:20,000, 10th edition 11 Nov. 1946, corrected to 17 January 1959.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted 18 August 1958

Bernard Kurs

Carto. Photo. Aid

Approved and forwarded

William E. Randall

William E. Randall

LCDR, C&GS

Baltimore District Office

PHOTOGRAMMETRIC OFFICE REVIEW T- T-10481

1. Projection and grids
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)7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids to navigation17. Landmarks18. Other alongshore physical features19. Other alongshore
· · · · · · · · · · · · · · · · · · ·
shore cultural features
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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. Challand d. Wolled Supervisor, Review Section or Unit
13 APRIL 1960 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.
S.G. BLANKEN RAVER
S.G. BLANKEN BAKER Complier Supervisor
43. Remarks: 400, 1966

REVIEW REPORT Planimetric Maps T-10477, T-10481, T-10482 and T-10483 November 1966

61. General Statement

These surveys provided, in part, hydrographic support data for surveys H-8313, 8314 and 8396. Changes in photogrammetric survey details, shown in red on the hydrographic surveys, were applied to the subject maps during this review.

62. thru 65. Comparisons

All prior Bureau topographic information (topographic and hydrographic surveys - and the subject maps) located in the alongshore area was evaluated by hydrographic survey parties and/or verifiers. Prior Bureau surveys were not compared with the new maps during the subject review.

Comparison was made with contemporary hydrographic surveys (refer to side headings 61 and 66, the Summary and its addendum).

Comparison with nautical charts and maps of other agencies were made by photogrammetric compilers. A number of discrepancies - involving features (school and street names and boundaries) not applicable to either hydrographic surveys or modern charts - between these surveys and USGS quadrangles were noted on discrepancy prints. These discrepancies can be disposed of only through a field check. The compilation report for project map T-10475 contains a general discussion of boundary discrepancies.

66. Adequacy of Results and Future Surveys

Hydrographic survey verifiers experienced considerable difficulty in adjusting hydrography (H-8396) and in mapping rock information. Some plane table signal positions were corrected by photogrammetric methods prior to completion of smooth sheet plotting. Refer to the Summary and its addendum included in the Descriptive Report concerning the adequacy of results and future surveys.

Reviewed by:

Approved by:

Chief, Photogrammetric Branch

Chief Photogrammetry Division

Chief, Marine Chart Division

GEOGRAPHIC NAMES FINAL NAME SHEET

Posneganset !

PH-163 (Rhode Island)

T-10481

Baker Creek

Bayside

Brush Neck

Brush Neck Cove

Buckeye Brook

Buttonwoods Cove

-Coles

Conimicut

-Gaspee Point

Greene Island

Horse Neck

Hoxsie

Kettle Corner

Knowles Brook

Lakewood

Lincoln Park

Little Sand Pond

Lockwood Brook

·Lockwood Corner

Norwood

Oakland Beach

Occupessatuxet Cove

Old Mill Creek

Old Warwick Cove

Palace Garden

Passeonkquis Cove

Providence River Rock Island

Sand Pond Little Pond

Shawomet

Spring Greene

Spring Green Pond

Theodore Francis Greene

Airport

-Tuscatucket River

.Warner Brook

Warwick

-Warwick Pond

-Warwick Neck

. Wilde Corner

Approved by:

Whaight

Chief Geographer

Prepared by:

W. Pickett

Cartographic Technician

U.S. DEPARTMENT OF COMMERCE

EODETIC SURVEY COAST AND

AEROHAUTICAL.

MONHAUGHMAU/KIDB/AR LANDMARKS FOR CHARTS

Baltimore, Maryland

(Alliam F. Deane

15 October

TO BE CHARTED STRIKE OUT ONE

I recommend that the following objects which have (hat he) been inspected from seaward to determine their value as landmarks be charted on (define field). Joseph U. Vonesek The positions given have been checked after listing by _

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AIRURY BRADG (Decreed of Theodore Francis Green Alryort, M. b.) 1203 N. 26 263 1927 F-1048 1956 Providence) Providence	CHARTING	DESC	SIGNAL	1	D. M. WETERS	۰	" D. P. GRETERS	DATUM	SURVEY No.	LOCATION	OHENI OHENI HETTO	AFFECT	
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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. COMM-DC 28356

TABULATE SECONDS AND METERS

l

Form 567 : April 1945

NOTES FOR THE REVIEWER

The geographic position for triangulation station 596, USGS, 1934 is evidently in error. For additional information refer to a letter dated 18 March 1959, included with the Photogrammetric plot report in the Descriptive Report for quadrangle T-10472. It is recommended that this station be removed from the manuscript at time of final review.

During the Photogrammetric office review, the hydrographic signals, which were difficult to see in the Kelsh models, were transferred graphically from the field photographs to the manuscript and then compared with the graphic control surveys. Discrepancies were noted at signals HAS and IMP.

In places where field inspection was inadequate, U.S.G.S., $7\frac{1}{2}$ minute quadrangle of East Greenwich, R. I., scale 1:24,000; 1959 was used.

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-10481

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	Part REMARKS
278	8-15-69	O. Chazeman	Full Para Before After Verification Review Inspection Signed Via
			Drawing No.25 Revised topo.
353	12-16-70	H. Danley	Enk Part Bringe After Verification Review Inspection Signed Via
			Drawing No.
278	2-/6-73	W.Cl. ll	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
353	6-18-73	W. Clarla	Full Parabore After Verification Review Inspection Signed Via
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FORM CAGS-8352 SUPERSEDES ALL EDITIONS OF FORM CAGS-975.

USCOMM-OC 6558-P63