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-10487

LOCALITY

State Rhode Island

General locality Narragansett Bay

Locality East Greenwich

WXXXXX 1956

CHIEF OF PARTY

Ira R. Rubottom, Chief of Party William F. Deane, Baltimore District Officer

LIBRARY & ARCHIVES

DATE 8 6 FEB 1968

USCOMI-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

- 2 -

T- 10487

Ph-163

Project No. (II): 12/1/20

Quadrangle Name (IV):

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

Chief of Party: Ira R. Rubottom

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge:

W. F. Deane

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): ate 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): SPENCER, 1843

Lat.: 41° 40' 42.730" (1318.3 m) Long.: 71° 29' 40.777" (943.2 m)

Adjusted

KATEGOREAGU

Plane Coordinates (IV):

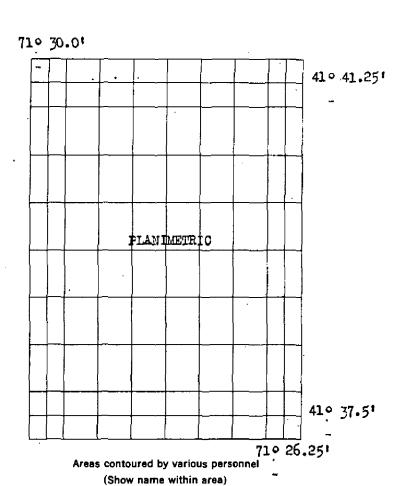
State: Rhode Island

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.



(11) (11)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Mathew A. Stewart
Leo Fl Beugnet

Date:May - October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

* SEE BELOW

Date:

Mean High Water Location (III) (State date and method of location): 1956 date of photography supplemented by field inspection.

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): J. C. Cregan

Date: 8/27/57

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

Date: 9/5/57

Radial Plot or Stereoscopic

E. L. Rolle

Date: 9/30/57

Control extension by (III):

Planimetry

Date:

Stereoscopic Instrument compilation (III):

commons E. L. Williams

Date: 11/14/58

Manuscript delineated by (III):

Date:

Photogrammetric Office Review by (III): J. W. Vonasek

Date: 2/17/59

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

Date:

XFIELD EDIT

LIMITED FIELD EDIT BY HYPROGRAPHIC SURVEY PARTY H-8313

DATE 1956

Note

NO PRELD EDIT SHEET SUBLITTED

COMM- DC- 57842

FORM 181c (4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Camera (kind or source) (III): C&GS Camera "W" " focal length.

- 5 -

PHOTOGRAPHS (III)

Stage of Tide Time Scale Number Date

56-W-138 thru 140 5/1/56 0816 1:30,000 1.6' above MLW

> Tide (III) (from predicted tables)

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

Subordinate Station:

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

Date: NOV-1966

Range

4.4

Ratio of | Mean | Spring

Range

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Date:

Ranges

Proof Edit by (IV):

Date:

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

Shoreline (More than 200 meters to opposite shore) (III): 4.5 miles Shoreline (Less than 200 meters to opposite shore) (III): 1.5 miles

Control Leveling - Miles (II):

10 Recovered: 9 Identified: Number of Triangulation Stations searched for (II): Identified: Recovered: Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

None

Number of Temporary Photo Hydro Stations established (III): See paragraph 38

Remarks:

All bench marks searched for are Tidal Bench Marks.

Narragansett Bay, Mass. Rhode Island

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# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS T-10489, T-10487, T-10488 and T-10489

Job PH-163, comprised of thirty planimetric surveys, covers Narragansett, A,Rhode Island-Massachusetts.

A complete field inspection preceded compilation. Limited field edit was accomplished in conjunction with contemporary hydrographic surveys H-8313 and 8395. The project was bridged by multiplex and compiled by Kelsh plotter.

Difficulties were encountered in smooth plotting H-8395. Refer to the addendum to this Summary.

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 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 - 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). sen

### FIELD INSPECTION REPORT Project 25120 Map T-10487

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:
Spaint y Titywall
Ira R. Rubottom
Chief of Party

FIELD INSPECTION PHOTOGRAPHS SEW 137, 8140, 162, 480 164

54W 1021 , 1022

FORM 16# (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

CONTROL RECORD

GOAST AND GEODETIC SURVEY

COMM-DC-57843 FROM GRID OR PROJECTION LINE IN METERS (BACK) SCALE FACTOR 1.000 FORWARD 8/13/57 FROM GRID OR PROJECTION LINE IN METERS (BACK) N.A. 1927 - DATUM DATE DISTANCE FORWARD CHECKED BY, Henry P. Eichert DATUM CORRECTION SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, 264.3) 515.5) 348.9) 532.8) 921.3) 444.6) 662.3) (392.5) 650.5) 265.0) 316.7) 123.1) 602.9) (1005.0) (233.7)(1038.8)(1108.8)262.9) (1307.4)(374.2) (BACK) FORWARD 846.1 943.2 1586.0 166.8 812,3 1966 737.4 1502.1 1248.1 1123.5 1188.7 742.3 1265.0 1335.5 80.7 1014.4 1073.4 1588.2 1318.3 1154.1 LONGITUDE OR x-COORDINATE LATITUDE OR W. COORDINATE 18.690 20,176 L2.730 49.898 40.777 31.877 38.531 73.04 24.061 43.29 03.49 26.33 54.68 51.48 46.31 간하 Ph-163 3/53/21 56 10 29 유 29 38 29 앜 53 29 오 39 26 39 56 39 33 38 27 2 PROJECT NO. 다 듸 7 건 그 7 7 듸 7 닼 7 듸 7 건 크 7 듸 그 크 DATE DATUM NA 1927 = E = = = = = = SOURCE OF p. 107 p.105 COMPUTED BY A. H. Heywood (INDEX) Comp. д. Р. ф. 9 USGS z Ξ = **=**, BRICK CHIMNEY, 1913 EAST CREENWICH YEL LOW CHIMNEY, 1913 MAP T. 10487 IN 609 USGS, 1941 COURTHOUSE, 1913 EAST GREEN WICH LUTHERAN CHURCH SPENCER 2, 1932 1 FT. = .3048006 METER SPENCER 2, 1932 EAST GREENWICH EAST GREENWICH SPENCER, 1843 STATION EM 609 (USCS) SPIRE, 1913 CHIP, 1913 Sub. Pt. Sub. Pt.

### COMFILATION REPORT Project Ph-163 T-10487

The photogrammetric plot report is part of the descriptive report for Survey T-10472.

### 31. DELINEATION

The Kelsh plotter was used for delineation.

### 32. CONTROL

Horizontal control was adequate.

### 33. SUPPLEMENTAL DATA

U.S.G.S. East Greenwich quadrangle for town and county boundaries. Map of Naval Air Station Quonset Point, R. I., 1955. Beat Sheet H-8313 for comparison. Final name standard dated 5 March 1957.

### 34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

### 35. SHORELINE AND ALONGSHORE FEATURES

Field inspection of the shoreline was adequate.

No low water or shoal lines are delineated.

### 36. OFFSHORE DETAILS

Refer to paragraph 8 of the field inspection report which is part of the report for Survey T-10480. Haul Rock could not be delineated.

### 37. LANDMARKS AND AIDS

Form 567 was submitted for three landmarks to be charted.

### 38. CONTROL FOR FUTURE SURVEYS

A comparison of the photogrammetric positions of only the identified photo-hydro stations was made with the positions shown on a copy of graphic control sheet No. Ph-1-G-56. A report of the results of this comparison was forwarded to the Washington office. (see attached copy) However, no list of the photo-hydro signals is given in this report because the hydrography has been completed and the work done in this office was primarily a spot check of the field work.

Refer to the "Descriptive Report to Accompany Graphic Control Survey Sheets Ph 1-A-56 through Ph-1-N-56", submitted for this project.

No topographic stations were located.

### 39. JUNCTIONS

Junctions have been made with map manuscripts. T-10480 to the north, T-10488 to the east, and T-10494 to the south. There is no contemporary survey to the west.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

### 4. BOUNDARIES

The limits of the Naval Reservation near the railroad were transferred from the map of the Naval Air Station Quonset Point holding to identified details. The East Greenwich-Warwick boundary was transferred from the U.S.G.S. quadrangle.

42. - 45. Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

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

Bureau Survey No. T-5749 (1944) scale 1:20,000, date of issue July 1949.

### 47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 278; scale 1:20,000; 10th Edition, November 1946; corrected to 8/9/54.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted 14 November 1958

E. L. Williams Carto. (Photo.)

Approved and forwarded

William F. Deane,

CDR, C&GS

Baltimore District Officer

### PHOTOGRAMMETRIC OFFICE REVIEW

T. 10487

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size
(a. Classification Inbel
CONTROL STATIONS
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 report 11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line 14. Rocks, shoals, etc 15. Bridges 16. Alds
to navigation17. Landmarks18. Other alongshore physical features19. Other along
shore cultural features
snore 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. Reilroads 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 Orseph Worland / James World
Reviewer Supervisor/Review Section or Unit
41. Remarks (see attached sheet)
42. (13.11.11.11.11.11.11.11.11.11.11.11.11.1
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. BLANKENBAKE ?
S.G. BLANKENBAKER  Compiler Supervisor
43. Remarks:
COMM-DC 3452

### T-10489, T-10487, T-10488 and T-10489 November 1966

### 61. <u>General Statement</u>

These surveys provided shoreline -- applied to smooth sheet during verification -- for H-8313; and, T-10489 provided, in part, support for H-8395. Changes in photogrammetric survey details shown in red on the hydrographic surveys were applied to the subject maps during this review.

### 62. through 65. Comparisons

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

Comparisons 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 or in the compilation reports. These discrepancies can be disposed of only through a field check.

### 66. Adequacy of Results and Future Surveys

Refer to the Summary and Addendum to the Summary included in this Descriptive Report:

Reviewed by:

Approved by:

S. G. Blankenbaker

Chief, Photogrammetric Branch

Ralph Satisfaction FEB 0 6 1968

Chief, Marine Chart Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-163 (Rhode Island)

T-10487

Bartons Corner Chejorwanoxet-gf. Chepiwanoxet Island-J, Cowesett	Long Point-J.f. Maskerchugg River
Drum Rock Hill  East Greenwich FSSEX Bridge-Joff Folly Wharf Forge Bridge-Joff Frenchtown	North Kingston North Kingstown-44 Potowomut Neck Potowomut Pond
Frenchtown Brook  Fry Brook  Goddard State Park	Potowomut River Quidnessett St. Patrick Lemetary Jy. Sandhill Brook
Greenwich Bay  Greenwich Cemetary Greenwood Cemetary Jo  Greenwich Cove  Hay I Rock-Jof  Hunt River  Hitch Up Rock-Jof  Kent County-Jof	Spencer Hill  The Mount  Warwick  Washington County-J.f.

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

Form 567 April 194

U.S. DEPARTMENT OF COMMERCE PDETIC SURVEY

# ·····COAST AND

# NONFLOATING/ADS/PR LANDMARKS FOR CHARTS

STRIKE OUT ONE // DE/PEVETEP/ TO BE CHARTED

Baltimore, Maryland

1958 December 5

I recommend that the following objects which have [http://tot] been inspected from seaward to determine their value as landmarks be The positions given have been checked after listing by charted on (#4/4/4/1/1/4/1/1) the charts indicated.

Joseph W. Vonasek

278, 353, 1210 278, 353, 1210 278, 353, CHARTS APPECTED Chief of Party. OFFSHORE CHART INSHORE CHART M Ħ TRAND ROLLAN Triang. (5/4/4 /9% " (1913) Triang (3 /4/ /9% LOCATION William F. Deame Photo. 13 July T-10487 1956 DATE LOCATION AND AND SURVEY No. DATUM M.A. 1927 54.68 1265.0 D.P. MEYERS 89. 25. 200 1,6 LONGITUDE # POSITION 51.[8] 1588.2 71 26 71 27 77 27 1335,5 D. M. METERS 1269 ट-प LATITUDE* 8 8 33 0 4 크 3 BIGNAL HIE East Greenwich, Yellow Chimney wooden hest Greenwich Courthonse yellow brick ht=93(130) ht=99(206) ht=100(167 RHODE ISLAND DESCRIPTION stone 4 COURTHOUSE CHARTING STATE CUEDIA SPIRE STACK

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 This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. individual field survey sheets. Information under each column heading should be given.

# TABULATE SECONDS AND METERS

Comm-DC 28356

### NOTES TO ACCOMPANY CRONAFLEX PRINT OF SURVEY T-10487, PROJECT PH-163

The map manuscript was compared with the copy of graphic control sheet No. Ph-I-G-56, Projects 13870 and 25120, scale 1:10,000. The following is a list of photo-hydro stations, indicating how far and in what direction the photogrammetric position falls from the common point on the graphic control sheet.

Also listed are those photo-hydro stations that could not be identified. All other photo-hydro stations within the limits of this survey were verified within 0.5 mm and removed from the map manuscript.

Station Name		Photogrammetric Posit	Lon
VIM WAS		0.7 mm NW 0.6 mm NW	
NIP Stations not identified:		0.7 man. SW	
LET BAT ACE ZOO	YES CAB HAT JOE	KEN RAG QUO	

It is recommended that the photo-hydro stations plotted on the map manuscript be used in making the smooth sheets.

Respectfully submitted 10 November 1958

Approved and forwarded

E. L. Williams Carto. (Photo.)

Henry P. Eichert Super. Carto. (3-25-63)

### NAUTICAL CHART DIVISION

### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

T-10487

### **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	V. REMARKS
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			all intensive purposes consider fully applied
			Full Part Perim After Verification Review Inspection Signed Via
1210	4/17/69	H. Oumby	Drawing No. 50 - Examine de mo correction
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	,	•	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		•	·
<i>35</i> 3	12-16-20	H. Danley	Enl! Part Bofore After Verification Review Inspection Signed Via
'			Drawing No.
278	29/4/71	R. Sanocki	Part Before After Verification Review Inspection Signed Via
	6	<del></del>	Drawing No. #27
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