

Diag. Cht. No. 1210-2 Insert

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-10476

LOCALITY

State Massachusetts - Rhode Island

### DESCRIPTIVE REPORT - DATA RECORD

- 2 -

T- 10476

Ph-163

Project No. (II): PRIME

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):  $2^3$   $^{960}$  Da

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

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): Rhode Island Corner, 1890

Lat.: 41° 46' 33.77"(1041.9 m)

Long.: 71° 19° 05.71" (131.9 m)

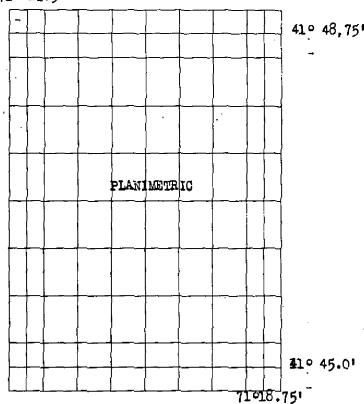
Adjusted **SHOULD SHOU** 

Plane Coordinates (IV):

State:

· Zone:





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

FORM 181c (4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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

Number

Date

PHOTOGRAPHS (III)

Scale

56-W-180 thru 182 209 thru 212

0844 0905

1:10,000

Stage of Tide 1.9, above MLW

Tide (III) (From Predicted Tables)

Reference Station:

Newport, R. I.

Subordinate Station:

Nayatt Point, R. I.

Subordinate Station:

Washington Office Review by (IV): S.G. Blanken baller

Nov., 1966 Date:

Spring

Range

Final Drafting by (IV):

Date:

Ratio of Mean

Range

Ranges

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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

Shoreline (More than 200 meters to opposite shore) (III): 10 mi.

Shoreline (Less than 200 meters to opposite shore) (III): 4 mi.

Control Leveling - Miles (II):

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

Recovered: Recovered: Identified: 3 Identified:

Number of Recoverable Photo Stations established (III):

None

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

Remarks:

Two (2) new third- order triangulation stations established.



Narragansett Bay, Mass.-Rhode Island

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### SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS T-10472, T-10473, T-10475 and T-10476 Job PH-163

Job PH-163 is comprised of thirty planimetric surveys and covers the Narragansett Bay, Rhode Island-Massachusetts area.

A complete field inspection preceded compilation. Limited field edit was accomplished in conjunction with contemporary hydrographic surveys H-8314 and H-8316. The project was bridged by multiplex and compiled by Kelsh plotter.

Difficulties encountered by the hydrographic survey verifier in adjusting hydrographic information based on plane table and photogrammetric control are discussed in the individual review reports and in 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 The Washington office verifier was unable to positions. 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 state 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. Reprincipled 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-10476

Please refer to the Field Inspection Report for Map T-10472 for all data pertaining to this map.

> Isaiah Y. Fitzgerald Photogrammetric Engineer

Approved:

Ira R. Rubottom

Chief of Party

FIELD MSPECTION PHOTOS - SOME OF WHICH ARE MISSING - ARE LISTED IN THE FIELD INSPECTION REPORT.

Ph-163

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY DCHTROL RECORD

SCALE FACTOR

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) FORWARD 8/15/57 DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) N.A. 1927-DATUM DATE. FORWARD DATUM CHECKED BY: C. Cregan SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. 599.9 809.2 635°4 645.5 627.2 782.5 757.2 292.0 1253.8 875.0 826.9 610.4 123.0 1495.3 633.8 179.7 283.7 783.1 760.0 1175.6 1106.0 1480.4 1577.2 1368.0 (BACK) FORWARD 628.5 273.9 1205.8 131.9 976.2 17.8 279.7 209.7 625.7 355.8 752.3 757.9 10 th . 9 1215.7 1101.6 1205.6 370.7 1068.6 1024.2 1251.2 1093.3 1068.0 1240.7 1262.7 11.533 32.542 32.828 40.555 47.35h 08.879 34.617 415.04 54.674 12.014 27.093 34.635 33.197 39.077 12,112 27.213 52.217 080.60 31.64 LONGITUDE OR x-COORDINATE C.50 33.77 00.77 LATITUDE OR y-COORDINATE 26 July 1957 91 2 13 62 2 19 4 61 Ħ 4 87 22 4 22 2 22 9 ผ ಸ S 17 7 PROJECT NO... 7 되다 7 Z 덬 Z 4 7 크 L 그 다 7 7 다 크 크 7 댜 7 れ 듸 4 DATE DATUM N.A. 1927 Ħ = # z Ħ # = F Ħ # = SOURCE OF INFORMATION Ouad. 33 C.of E. p. 169 p. 113 p. 158 ਜੰ COMPUTED BY J. C. Richter p. 158 H p. 28 Comp p.171 R p. A å å 8 å MAP 7 10476 PROVIDENCE RIVER LIGHT 17A, 1956 POMHAM CLUBHOUSE EAST PROVIDENCE SQUANTUM CLUB STACK, 1956 LICHTHOUSE, 1897 EAST PROVIDENCE MUNICIPAL WATER KENT (MCS) 1938 SWANSEA CORNER STATION POMHAM BEACON RHODE ISLAND CORNER, 1890 MGBU (MGS) use MÉBY (MGS) USE POMHAM ROCKS TANK, 1912 Sub. Sta. Méby Mæ 1912 1897

FORM 164 (4-23.54)

### COMPILATION REPORT T-10476

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

The identification, density and placement of horizontal control was adequate.

Vertical control is inapplicable.

### 33. SUPPLEMENTAL DATA

- 1. Map of Town of East Providence, R. I., used for boundary line delineated on discrepancy overlay. (See "Notes to Reviewer, T-10475")
- 2. U.S.G.S. quadrangle East Providence, Mass., R. I., is part of "Final Name Standard", dated 5 March 1957.

### 34. CONTOURS AND DRAINAGE

Drainage is complete.

Contours are inapplicable.

### 35. SHORELINE AND ALONGSHORE DETAILS

All shoreline was field inspected and is complete and adequate.

All low-water lines are from field inspection data.

### 36. OFFSHORE DETAILS

No comment.

### 37. LANDMARKS AND AIDS

All landmarks and aids are listed on Forms 567, which were submitted in March 1959.

### 38. CONTROL FOR FUTURE SURVEYS

Refer to the attached notes regarding the photo-hydro stations in the area of the survey and also to the "Descriptive Report to Accompany Graphic Control Survey Sheets Ph-1-A-56 through Ph-1-N-56" submitted for this project.

No recoverable topographic stations were established.

### 39. JUNCTIONS

Junctions have been made and are in agreement. with the following surveys:

To the north with T-10473,

To the south with T-10482.

To the east with T-10477.

To the west with T-10475.

### LO. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. through 45

Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

- 1. U.S.G.S. 7½ minute quadrangle, East Providence, Massachusetts, R. I., edition of 1941, reprinted 1951, scale 1:31,680.
- 2. Bureau Survey T-5748,  $\S_2^1$ , scale 1:10,000, compiled from photographs of July 1944.

### 47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 352, 25th edition, January 1945, revised 6/6/55, scale 1:10,000.

Chart No. 278, 10th edition, November 1946, corrected to 1/17/59.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Approved and Forwarded

William E. Randall

ETITION OF HOLINAY

LCDR, C&GS

Baltimore District Officer

Miam E. Randall

Respectfully submitted 11 December 1959

Raymond Glaser Carto. (Photo.)

### U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY



50 -

### PHOTOGRAMMETRIC OFFICE REVIEW

T- 10476

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size
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. Shoreline 13. Low-water line 14. Rocks, shoels, etc. 15. Bridges, 16. Aids to navigation 17. Landmarks 18. Other alongshore physical features 19. Other along-
to navigation 400 17. Landmarks 18. Other alongshore physical features 19. Other along
shore cultural features
SHOID CUITAIN IDUITAIN CONTRACTOR
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. C. Slaser (Jew) / Trital
Reviewer Supervisor, Review Section or Unit
,

REVIEW REPORT Planimetric Maps T-10472, T-10473, T-10475 and T-10476 November 1966

### 61. General Statement

Field edit, accomplished by hydrographic survey parties during contemporary surveys H-8314 and H-8316, consisted of a check of landmarks, MHW line and topographic features seaward from the shoreline. Hydrographic survey changes in photogrammetric details were applied to the photogrammetric surveys during the subject final review.

Hydrographic survey verification and review preceded this review. The verifier (H-8316) encountered considerable difficulty in adjusting hydrographic information. difficulties were never entirely eliminated. Since the



A number of discrepancies -- involving features (school names, boundaries, etc.) not applicable to either hydrographic surveys or nautical charts -- between these surveys and USGS quads were noted on discrepancy prints. The discrepancies were not resolved during field edit (hydro party); they cannot be resolved in the office.

### Adequacy of Results and Future Surveys

Refer to the "Addendum to Summaries" included in this Descriptive Report.

Reviewed by:

Approved by:

Photogrammetric Branch

JAN 8 0 1968

Chief, Marine

-17 -

1-9-68

### GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-163 (Rhode Island)

T-10476

Annawomscutt Brook

-Armington Corner

/Barringon

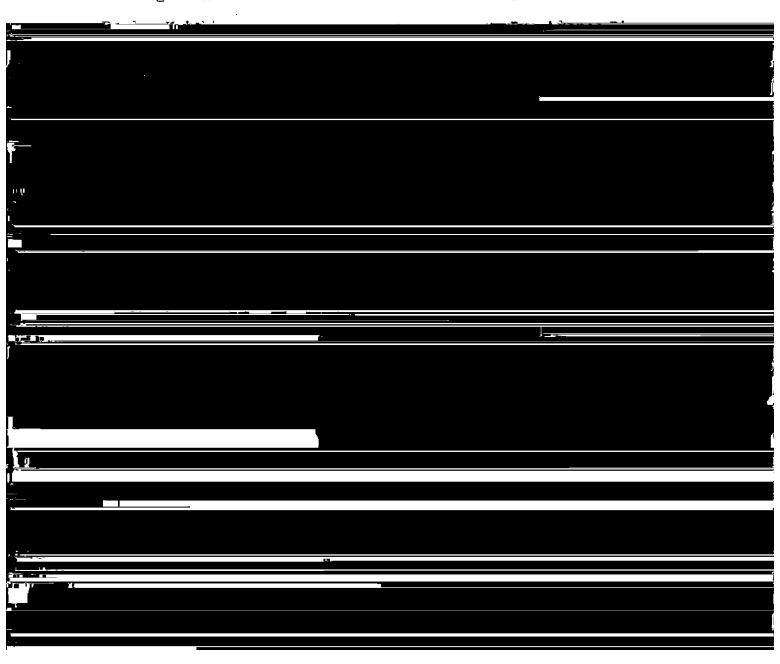
Barrington River

·Luther Corner

·Narragansett Terrace

·Peck Corner

· Pomham Rocks



REPORT TO ACCOMPANY CRONAFLEX PRINT FOR LURY..Y T-10476, PROJECT PH-163

- 18 - 1 41° 47 - 1 41° 40 - 2'30 710 18' 95

The map manuscript was compared with the Geographic Control sheet Ph-1-56 D N/2, scale 1:10,000, projects 13870 and 25120. The following is a list of photo-hydro stations, how far and in what direction the graphic control position falls from the common photogrammetric position

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DEPARTMENT OF COMMERCE
U. S. COAST AN GEODETIC SURVEY

# NONFLOATING AIDS ON/LIAMINATES FOR CHARTS

STRIKE OUT ONE TO BE CHARTED

Form 567 April 1945

Baltimore, Maryland

I recommend that the following objects which have (14/14/14/14) been inspected from seaward to determine their value as landmarks be charted on (14/14/14/14/14) the charts indicated.

William E. Clandell Chief Joseph W. Vonasek The positions given have been checked after listing by

STATE	RHODE ISLAND				POSITION	Z		METHOD			ячна
ļ			5	LATITUDE *	רט	LONGITUDE *	-	LOCATION			CHARTS
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U.S. DEPARTMENT OF COMMERCE FODETIC SURVEY COAST AND

### OPETITING PRIDSTOR LANDMARKS FOR CHARTS

Baltimore, Maryland

which have (hlob heb) been inspected from seaward to determine their value as landmarks be d. Joseph W. Vonasek fter listing by

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with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating eported on this form. The data should be considered for the charts of the area and not by ider each column heading should be given.

Comm-DC 28356

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Form 567 April 1945

## NONFLOPPHY PHY PATON LANDMARKS FOR CHARTS

STRIKE OUT ONE

Boltimore, Maryland

1 March

I recommend that the following objects which have [1446] help been inspected from seaward to determine their value as landmarks be charted on [1446] for the positions given have been checked after listing by Joseph U. Vonacek TO BE CHARTED

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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 Comm-DC 28356 individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

### T-10476

### NOTES TO REVIEWER

The transmission line on photograph 56-W-211 is incorrectly field inspected. The inspected line misses the actual location of towers (as office identified) by as much as 200 meters.

Chart 278 incorrectly places the geographic name "NARRAGANSETT TERRACE" in the area of CRESCENT (amusement) PARK.

Refer to "Notes to Reviewer" for T-10475, regarding boundary lines in Providence River.

### NAUTICAL CHART DIVISION

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

T-10476

### 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	8-44-69	Oscar Chapman	Full Part Defent After Verification Review Inspection Signed Via
			Drawing No. 25 Revised topo.
7. St. 10.3 - See	70,	34 9 9 9 9	
	<u> </u>	Jeff Start	Full Part Refore After Verification Review Inspection Signed Via
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			reconsti.
353	12-16-70	H. Danley	Pull Part Barray After Verification Review Inspection Signed Via
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278	2-16-72	W. Chellen	Full Part Before After Verification Review Inspection Signed Via
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FORM CaGS-8352 SUPERSEDES ALL EDITIONS-OF FORM CaGS-975.

USCOMM-DC 8558-P65