Diag. Cht. No. 1210-2 Insert

#### Form 504

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

Type of Survey Planimetric Field No. Ph-163 Office No. T-10477 **LOCALITY** Massachusetts - Rhode Island General locality Providence River Locality North Swansea 1956

CHIEF OF PARTY Ira R. Rubottom, Chief of Party William E. Randall, Baltimore Dist. Officer

LIBRARY & ARCHIVES

1 1 FEB 1968

DATE

USCOMM+DC 5087

#### DESCRIPTIVE REPORT - DATA RECORD

- 2 -

T-10477

Project No. (II): Ph-163

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): ho 3

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

THE PROPERTY OF THE PROPERTY O

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): REHOBOTH-SEEKONK-SWANSEA COR. (REHOBOTH CORNER 2), 1890

Lat.: 41° 46' 29.213" (901.3 m) Long.: 71° 17' 34.637" (800.0 m)

Adjusted

A DESIGNATION OF THE PERSON OF

Plane Coordinates (IV):

State:

Zone:

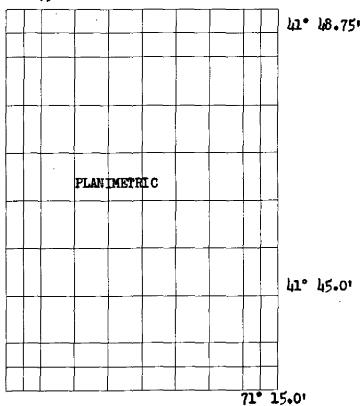
X≈

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.

COMM- DC- 57842





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

#### DESCRIPTIVE REPORT - DATA RECORD

COAST AND GEODETIC SURVEY

- L =

Field Inspection by (II): John S. Winter

Date: May-October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (il):

Date:

See footnote page 5

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

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

Date: 28 March 1957

Projection and Grids checked by (IV): H. D. W.

Date: 29 March 1957

Control plotted by (III):

J. C. Richter

Date: 1 August 1957

Control checked by (III):

J. C. Cregan

Date: 6 August 1957

Redial Plet-er Stereoscopic

Control extension by (III):

E. L. Rolle

Date: 30 Sept. 1957

Stereoscopic Instrument compilation (III):

Planimetry B. Kurs Date: 17 July 1958

**Goodooc** 

Date:

Manuscript delineated by (III): R. J. Mechlinsky

(scribed)

Date: 3 December 1959

Photogrammetric Office Review by (III): R. Glaser

Date: 24 November 1959

Elevations on Manuscript

checked by (II) (III): None

Date:

#### DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): U.S.C. & G. S. Type "W" 6" Focal Length

-5-

		PHOTOGRAPHS (III)		
Number	Date	Time (EST)	Scale	Stage of Tide
56-W-219	5/1/56	0916	1:30,000	2.3 above MLW
220	n	11	11	2.3 above MLW
221	n n	0917		2.3 above MLW
222	11	0918		2.3 above MLW

Tide (III) (Predicted tide tables)

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

Subordinate Station:

Nyatt Point, R. I.

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

Date: Nov. 1966

Range

Ratio of Mean | Spring Range

Final Drafting by (IV):

Date:

Ranges

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 13

5.5 mi Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III): 6.5 mi

Recovered: Recovered: 5

Identified: 2

Identified:

Control Leveling - Miles (II):

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

None

Number of Recoverable Photo Stations established (III): None

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

Remarks:

FIELD EDIT -

LIMITED FIELD EDIT BY HYDROGRAPHIC

SURVEY PARTY.

NO CHANGES WERE MADE IN THE PHOTOGRAMMETRIC SURVEY DETAILS. PATE : 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 data. 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 appreciabl 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-10477

Please refer to the Field Inspection Report for Map 1-10472 for all data pertaining to this map.

Isaiah Y. Fitzgerald Photogrammetric Engineer

Approved:

Ira R. Rubottom Chief of Party

> FIELD PHOTOGRAPH NUMBERS -56 W 218, 219, 220, 249

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

MAP T- 10477

DESCRIPTIVE REPORT: U.S. DEPARTMENT OF COMMERCE

PROJECT NO. Ph-163 SCALE OF MAP 1:10,000

COAST AND GEODETIC SURVEY CONTROL RECORD

1.000 SCALE FACTOR

						-			N.A. 1927 - DATUM	F ( )
STATION	SOURCE OF	DATUM	LONGITI	IDE OR y-( UDE OR x·	LATITUDE OR #-COORDINATE LONGITUDE OR *-COORDINATE	DISTANCE FROM	DISTANCE FROM GRID IN FEET.  OR PROJECTION LINE IN METERS	DATUM	PROM GRID OR PROJECTION LINE IN METERS	FROM GRID OR PROJECTION LINE IN METERS
	(INDEX)		·			FORWARD	(BACK)		FORWARD (BACK)	FORWARD (BACK)
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REHOBOTH-SEEKONK-	Mass.		T	947	29.213	901•3	949.8			
BOTH CORNER 2)1890	p.642	E	7	17	34.637	800•0	585.8			
REHOBOTH CORNER	Mass.		다	94	28.93	892.5	958.6			
1, 1890	p•642	=	TL	17	02.70	62.4	1323.4			
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1 FT.= 3048006 METER C.	C. Richter		DATE	26 July	y 1957	CHEC	CHECKED BY. J. C	J. C. Cregan	DATE 6 AV	6 August 1957

#### COMPILATION REPORT T-10477

Refer to Descriptive Report T-10472 for the photogrammetric plot report.

#### 31. DELINEATION

The Kelsh plotter was used to compile this manuscript.

#### 32. CONTROL

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

#### 33. SUPPLEMENTAL DATA

 $^{\rm F}$ inal Names Sheet, dated 5 March 1957 on U.S.G.S. East Providence, Mass-R.I. quadrangle.

Graphic Control Sheet Ph-1-56-D N/2 for photo-hydro station comparison.

#### 34. CONTOURS AND DRAINAGE

No contours on manuscript.

All visible drainage delineated.

#### 35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection adequate. No low water or shoal lines shown on this manuscript.

#### 36. OFFSHORE DETAILS

None on this manuscript.

#### 37. LANDMARKS AND AIDS

None.

#### 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 T-10483 to the south and T-10476 to the west. There are no contemporary surveys to the north and to the east.

#### 40. HORIZONTAL AND VERTICAL ACCURACY

`No comment.

#### 41. BOUNDARIES

The location of the SEEKONK-REHOBOTH boundary line was determined by computing the approximate azimuth between REHOBOTH-SEEKONK-SWANSEA COR., 1890 and SEEKONK-REHOBOTH COR.-ATTLEBORO LINESTONE, 1889.

A similar computation was required between REHOBOTH CORNER 1, 1890 and REHOBOTH CORNER 10, 1890 to plot the boundary line between REHOBOTH AND SWANSEA townships.

The Mass-R.I. state line was plotted from state line monuments identified by field inspection.

42 thru 45 - Inapplicable.

#### 46. COMPARISON WITH EXISTING MAPS

U.S.G.S. East Providence, Mass.-R.I. quadrangle, scale 1:31680, edition of 1941, reprinted 1951.

Chart No. 353, Narragansett Bay, scale 1:40,000, edition of March 1958, corrected to 3/22/58.

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

Respectfully submitted 24 November 1959

Approved and forwarded

William & Randall

William E. Randall

CDR, C&GS Baltimore District Officer R. Glaser

Carto. (Photo.)

FORM 182 / (6-12-56)

-14-

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#### PHOTOGRAMMETRIC OFFICE REVIEW

T- 10477

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)
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. Aids
to navigation 17. Lendmarks 18. Other alongshore physical features 19. Other along -
shore 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. 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. f. Slaser  Reviewer  Reviewer  Supervisor, Review Section or Unit
Nevional Action of the Control of th
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 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:

\_\_\_\_

G. Blankenbaker

Chief, Photogrammetric Branch

Chief, Motogrammetry Division

JAN 8 0 1968

Chief, Marine Chart Division

# GEOGRAPHIC NAMES FINAL NAME SHEET PH-163 (Rhode Island) T-10477

Barrington

Birch Swamp Corner

Clear Run Brook

Devils Rock

-Health Brook

Hundred Acre Cove

Mararets Rock Margarets Rock-7.

New Meadow Neck

North Swansea

Oak Swamp Stream

Palmer River

-Rehoboth

- Rocky Run

-Seekonk

Shoe Factory Pond

· Swansea

The Tongue

·Torrey Creek

Warren

Warren River

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

## REPORT TO ACCOMPANY CRONALLEX PRINT OF SURVEY T-10477, PROJECT PH-163

The map manuscript was compared with copies of Graphic Control sheet Ph-1-56-D N/2, scale 1:10,000, projects 13870 and 25120. Those photo-hydro stations that agree within 0.5 mm were removed from the map manuscript. 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. All photo-hydro stations that fall within the limits of this survey were identified in the stereoscopic models.

AHA 0.8 mm N EAT 1.4 mm S FIG 0.8 mm NNW GOB 0.8 mm NW IVY 2.3 mm N RUB 0.9 mm ESE SAM 0.6 mm W	STATION 1	IAME		PHOTOGRAM/4E	TRIC POSITION
FIG 0.8 mm NNW  GOB 0.8 mm NW  IVY 2.3 mm N  RUB 0.9 mm ESE	AHA			0.8 mm	N
GOB	EAT			1.4 mm	S
IVY 2.3 mm N RUB 0.9 mm ESE	FIG	1,		0.8 mm	NNW
RUB 0.9 mm. ESE	GOB	<u>'</u>		0.8 mm	, NW
	IVY		•.	2.3 mm	N
SAM 0.6 mm W	RUB '			 0.9 mm	ESE
	SAM		•	0.6 mm	W

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

Respectfully submitted 5 September 1958

Approved and Forwarded

Leroy A. Senasack Carto. Photo. Aid

William F. Deane CDR C&CS Baltimore District Officer Ċ

#### 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.

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	8-14-69	Oscar Chapman	
			Drawing No. 25 No. Corv
353	12-16-70	H. Danley	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
278	0.1/-27	W. Challe	Full Part Before After Verification Review Inspection Signed Via
	7-76-73		Drawing No.
<b>)</b>	6-18-73	W. Challer	Full Describese After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
<del>7.</del>			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63