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

LOCALITY

Rhode Island

General locality

Narragan sett Bay

Locality

Patience Island

CHIEF OF PARTY

Ira R. Rubottom, Chief of Party

LIBRARY & ARCHIVES

William F. Deane, Baltimore District Office

PATE Feb. 26, 1968

USCOMM-DC 5087

#### DESCRIPTIVE REPORT - DATA RECORD

- 2 -

T- 10489

Ph-163

Project No. (II): 45/46

Quadrangle Name (IV):

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

Chief of Party: Ira R. Rubottom

Photogrammetric Office (III): Baltimore, Md.

Officer in Charge: William 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): 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):

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

MARGE TARGET DE LA CONTROL DE

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): PATIENCE, 1843

Lat:41° 39' 32.929" 1015.9 m

Long.: 71° 21' 24.669"

**Adjusted** 

State: Rhode Island

MARO KOM MOKAKU

Plane Coordinates (IV):

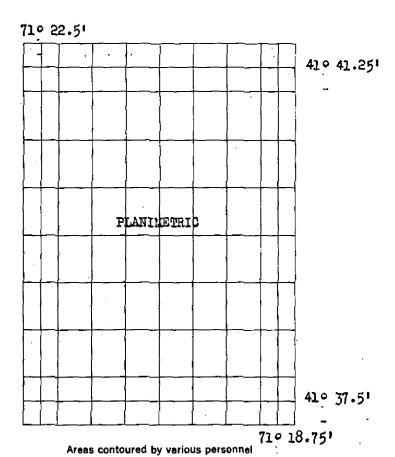
X=

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

- 3 -



(Show name within area) (II) (III)

COMM- DC- 57842

#### DESCRIPTIVE REPORT - DATA RECORD

- 4 -

Field Inspection by (II): Martin C. Moody Leo F. Beugnet

Date: May - October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

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: 3/15/57

Projection and Grids checked by (IV): H. D. W. Date: 3/15/57

Control plotted by (III): J. C. Richter Date: 8/1/57

Control checked by (III): J. C. Cregan Date: 8/22/57

Radiabilitation Stereoscopic E. L. Rolle Date: 10/18/57 Control extension by (III):

Planimetry B. Kurs Date: 2/27/58

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): R. J. Ryan Date: 6/23/59 (scribed)

Photogrammetric Office Review by (III): J. W. Vonasek Date: 1/8/59

checked by (II) (III):

Elevations on Manuscript

Date:

FIELD EDIT -

SURVEY H-8313 & H-8395

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", 6" focal length

- 5 -

Number

Date

PHOTOGRAPHS (III) Time (EST)

Scale

Stage of Tide

56-W-203 thru 205

5/1/56

0900

1:30,000

1.9 ft above MLW

Tide (III)

(From predicted tables)

Reference Station:

Newport, R. I.

Subordinate Station:

Prudence Island, Sandy Point

Subordinate Station:

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

Date: 100, 1966

Ratio of Mean | Spring

Range 3.5

Range

4.4

4.9

Final Drafting by (IV):

Date:

Ranges

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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

Shoreline (More than 200 meters to opposite shore) (III): 14 miles Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

3 miles

Identified:

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Recovered: Recovered:

Identified:

Number of Recoverable Photo Stations established (III): None

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

Remarks:

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

Job PH-163, comprised of thirty planimetric surveys, covers Narragansett, 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 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 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 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-10489

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

Leo F. Beugnet

Cartographic Survey Aid

Les f. Beugnet

faish y Figure for Ira R. Rubottom Chief of Party

> FIELD INSPECTION PHOTOS -56 W - 184, 185, 203, 204, 205, 227 54W 1100, 1101

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

CONTROL RECORD

COAST AND GEODETIC SURVEY

COMM- DC- 57843 DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS (BACK) 1,000 FORWARD SCALE FACTOR (BACK) N.A. 1927 - DATUM FORWARD DATUM SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. 19.8 663.9 131.4 1652.9 331.9 857.8 673.0 10.6 581.6 349.9 557.5 817.4 80.0 840.9 27. 773.1 14.4 727.4 15.2 835.1 (BACK) FORWARD 715.3 1340.5 1848.6 570.8 807.1 724.h 831.2 1719.6 1308.2 198.1 993.3 1078.0 1056.4 1368.4 1373.0 1015.9 1501.2 1374.4 1010.2 1123.7 LONGITUDE OR \* COORDINATE LATITUDE OR W.COORDINATE 59.344 2Jr•669 55.739 59.379 32.744 35.913 36.424 56.519 31,311 32,929 45,656 18.661 59.921 06.422 Ph-163 20 2 39 39 39 20 39 18 39 ଯ 2 긶 3 2 な 33 37 ଯ 3 37 PROJECT NO. 7 1,1 17 7 디 7 7 건 7 덬 7 7 되 긔 7 41 듸 긔 7 듸 DATUM N.A. 1927 E = = z = = SOURCE OF INFORMATION (INDEX) MAP T. 10489 105 104 р• 64 64 22 Comp. G. P. = = = = å å င္ခံ PINE HILL, 1843 PRUDENCE (USE), - PINE HILL, 1843 PRUDENCE, 1909 PATIENCE, 1843 1 FT. = 3048006 METER STATION BELL, 1913 BEIL, 1913 - PAT, 1913 - DER, 1913 NAG, 1913 S. S. S. S. 1909

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ORM 164 4-23-54)

A. K. Heywood COMPUTED BY.

DATE

3/59/51

CHECKED BY. Henry P. Eichert

DATE.

15/91/8

## COMPILATION REPORT Survey T-10489 Project PH-163

The photogrammetric plot report for this survey is part of the descriptive report for survey No. T-10472.

## 31. DELINEATION

The delineation was done by Kelsh Plotter.

#### 32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

#### 33. SUPPLEMENTAL DATA

Copies of boat sheets H-8313 and H-8395 for comparison. U.S.G.S. Bristol quadrangle for county boundary. Final Name Sheet dated 5 March 1957.

#### 34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage is complete.

# 35. SHORELINE AND ALONGSHORE DETAILS

All shoreline was field inspected and is complete and adequate.

All low water line was field inspected. Rocks without elevations were office interpreted with the aid of the boat sheet.

## 36. OFFSHORE DETAILS

Refer to paragraph 8 of the field report. See paragraph 48 for several named submerged features that could not be delineated from the photographs.

#### 37. LANDMARKS AND AIDS

None.

## 38. CONTROL FOR FUTURE SURVEYS

No recoverable topographic stations were established.

A number of hydrographic signals in the area were observed in the Kelsh models. Their positions were in fair to good agreement with the graphic control surveys (Ph-1-E-56, Ph-1-F-56, Ph-1-H-56, Ph-1-L-56). Many signals could not be seen in the models and could not be verified. Refer to the descriptive report to accompany these surveys for the project.

Refer also to letter 711/rab dated 7 August 1958, subject: "Smooth sheet H-8395, Project CS 13870 (Ph-163) Narragansett Bay", copy of which is attached.

## 39. JUNCTIONS

Junction has been made with the following:

To the north with survey No. T-10482.

To the east with survey No. T-10490.

To the south with survey No. T-10496.

To the west with survey No. T-10488.

# 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

## 41. BOUNDARIES

A portion of the Kent County-Newport County boundary, as delineated on the U.S.G.S. Bristol quadrangle, was transferred in the vertical projector.

42. through 45. - Inapplicable.

#### 46. COMPARISON WITH EXISTING MAPS

Geological Survey, Bristol, R. I. - Massachusetts quadrangle, scale 1:24,000, edition of 1955.

Bureau Survey No. T-5749 (1944) and T-5751 (1944), scale 1:20,000 date of issue 1949.

#### 47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 278, scale 1:20,000, published November 1946, corrected to 8/9/54.

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

Approved and forwarded

Respectfully submitted 8 January 1959

William F. Deane

CDR, C&GS

Baltimore District Officer

Joseph W. Vonasek Carto. (Photo.)

-14

# PHOTOGRAMMETRIC OFFICE REVIEW

T.10489

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 report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline 13. Low-water line 14. Rocks, shoals, etc. 15. Bridges 16. Alds
to navigation 17. Landmarks 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
teatures
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. Reviewer Supervisor, Review Section of 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. BLANKENBAKER  Compiler Supervisor
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43. Remarks: No U., 1966

Ph-163-15-

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P. C. LEZ SEA

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Sudfect:

Smooth Chest H-8395, Project CO-A35/O

(FR-163) Cerragament Bay

References

ECIR Robert G. Berilng's letter of 12 June 1958 and our reply of 20 June 1958

same subject

The signal discrepancies have been resolved as stated in subsequent paragraphs of this letter. The eight phanetable graphic central sheets are being forwarded to you. New blueline tracings at scale 1:10.000 of photogrammetric manuscripts T-10487. T-10490, T-10496, and T-10497 are being prepared and will be forwarded to you shortly.

The following is a recume of the work in this area of the project:

- 1. Oraphic control surveys were made by a field party of the Photogrammetry division sheed of the photogrammetric mapping to provide immediate control for hydrography.
- 2. Photogrammetric mapping followed the graphic control surveys to provide shoreline for the hydrographic sheets and map information for charts.
- 3. Some of the graphic control sheet stations were identified on the photographs but many of those stations were not identified and cannot be located by photogrammetric plot.
- 4. The shoreline pass points shown on the photogrammetric manuscripts are not necessarily identical with graphic control sheet stations and usually are not identical with those stations.
- 5. ICPR Derling reported in the reference letters discrepancies between the graphic control stations and the photogrammetric manuscripts ranging up to 2 millometers.

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7. Demo of the apparent discrepanties cano not discrepantly objects. See Item 4 shows.

3. In general to multiples were then he a colinguition of shoreline details was accurate. The only notable distrepancy frumi in the multiples when co station "NAT". The accepted stereoplanigraph position differs by about ten meters from the graphic control position and about five meters from the multiples position.

9. We were able to check only those graphic central stations that had been identified on the photographs. This check indicates that the graphic control was generally good but there were some errors that we take to be random errors. Most of these are small and we think that you should use that graphic control positions except as stated under item 10.

10. Is have relocated the following graphic control stations and the accepted stereoplanigraph positions are shown on the photogrammetric manuscripts, copies of which are being prepared for you. It is suggested that you use these positions for the smooth sheet rather than the graphic control sheet positions and notes to this effect have been placed on the graphic control sheets: NAT, HUT, BEL, BOX, — 10.97 GUS, and HEX. The difference in position between the stereoplanigraph and the graphic control sheets with amounts to about ten meters at station NAT, and twelve to fifteen meters at station BOX. Otherwise the differences range from five to seven meters.

The any are sessed work on the plotting of smooth short E-8193 and I doubt that you will have any farether difficulty with signals. However, so have supposed of the graphic control stations in this area since they were not all identified and I whole the open of this is the factor in the farether in the control is the factor of the farether in the factor of the farether in the factor of the farether south the south of the factor of t

(Signed) Charles Pierce

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#### T-10489

#### NOTES FOR THE REVIEWER

During the photogrammetric office review, some of the signals that could not be seen in the models were transferred graphically from the field photographs to the work sheet and compared with the graphic control surveys. Appreciable discrepancies were noted at signals BUM, NON, OUT (sheet H) GAM (sheet F) BUT, ALP (sheet E).

The application of the name EAST PASSAGE to that part of Narra-gansett Bay appearing on this survey should be verified.

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

# 61. General Statement

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

1. Ralph Softendok' Chief. Bhotogrammetry Division

rier, protogrammetry Divisio

Chief, Marine Chart

Division

MAR 2 6 1969

#### GEOGRAPHIC NAMES

#### FINAL NAME SHEET

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

T- 10489

Barden Rock

Bear Point

·Coggeshall Cove

East Passage

Gull Point

Jenny Pond

Johnson Ledge

-Kent County

Long Point

Mill Creek

Mount Tom Rock

Nag Pond

Narragansett Bay

Newport County

Northeast Point

Northwest Point

Ohio Ledge

Old Pier Rock

·Patience Island

Pine Hill

Pine Hill Ledge

Portsmouth

Potter Cove

·Providence Point

-Prudence Island

-Sand Point

\*Sheep Pen Cove

-Sheep Pen Swamp

-Shell Island

· Spring Rock

· The Brothers

.Warwick

Warwick Neck

· West Passage

PINE HILL POINT

Checked by F.W. Pickett 3/26/68

Approved by:

A. *T*ose**g**h Wraigh Chief Geographer

Prepared b

Cartographic Technician

#### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

T-10489

#### 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 Revi

CHART	DATE	CARTOGRAPHER	REMARKS
236	7/8/68	9. Hogo	Full Part Before After Verification Review Inspection Signed Via
		000	Drawing No. 35 - 1/- C
			Consider fully applied until reconstruction. aga
1210	2/17/69	H. Quimby	Full Part Before After Verification Review Inspection Signed Via
	11.1/2		Drawing No. 50 - Examined, no conection
			Part Part
278	8-8-69	O. Chapman	Full Page After Verification Review Inspection Signed Via
			Drawing No. No Corr
			Consider fully applied until recentaristion
353	12-16-70	H. Danley	End Part Before After Verification Review Inspection Signed Via
			Drawing No.
278	2-17-23	W. Challe	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
357	6-18-22	W. Clade	Full Part Cofore After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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