

10487

Original

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
XXXXX - 1956	
CHIEF OF PARTY	
Ira R. Rubottom, Chief of Party	
William F. Deane, Baltimore District Officer	
LIBRARY & ARCHIVES	
DATE	86 FEB 1968

USCOMM-DC 5087

10487

DESCRIPTIVE REPORT - DATA RECORD

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T- 10487

Ph-163

Project No. (II): ~~125126~~

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):

MAY 3 - 1960

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

~~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
~~0654096X~~

Plane Coordinates (IV):

State: Rhode Island Zone: ---

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

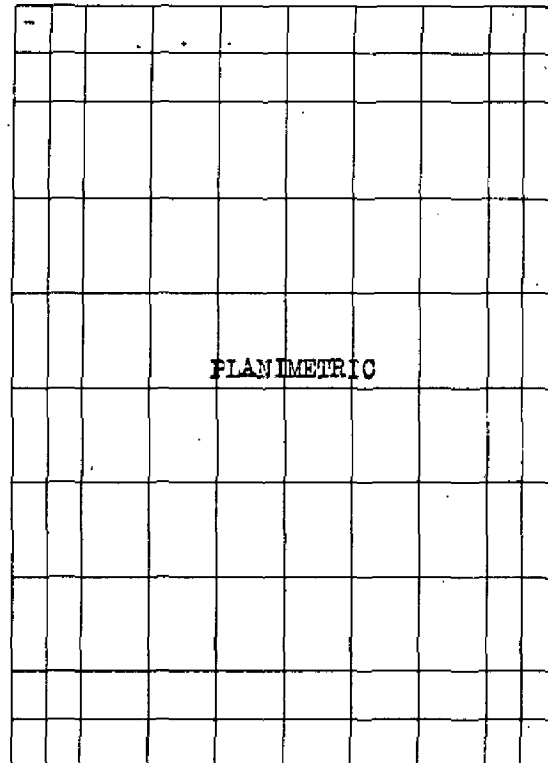
When entering names of personnel on this record give the surname and initials, not initials only.

FORM 181a
(4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

71° 30.0'



41° 41.25'

41° 37.5'

71° 26.25'

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

DESCRIPTIVE REPORT - DATA RECORD

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

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Number	Date	Time	Scale	Stage of Tide
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.
Subordinate Station: East Greenwich
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	3.5	4.4
	4.4	5.5

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

Date: NOV-1966

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

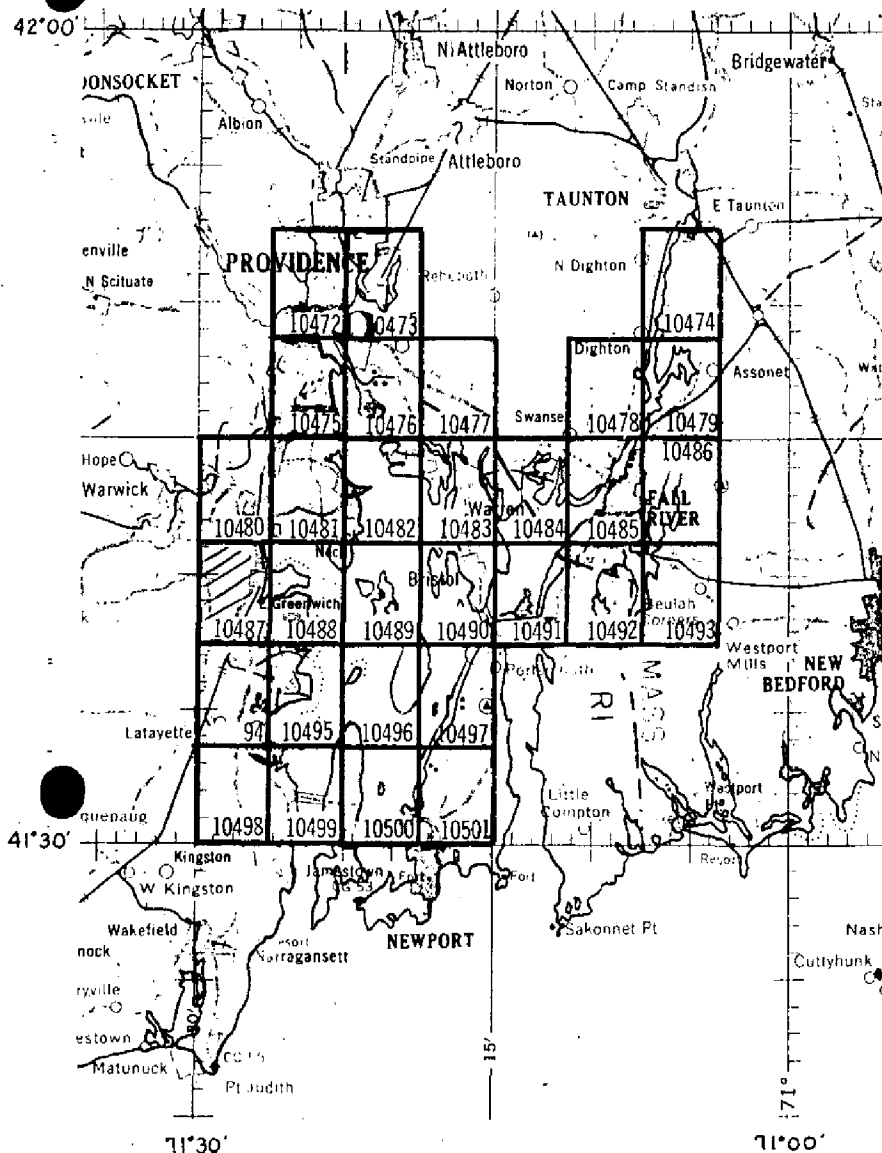
Land Area (Sq. Statute Miles) (III): 13
Shoreline (More than 200 meters to opposite shore) (III): 4.5 miles
Shoreline (Less than 200 meters to opposite shore) (III): 1.5 miles
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 10 Recovered: 9 Identified: 3
Number of BMs searched for (II): 4 Recovered: 4 Identified: 1
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.

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OFFICIAL MILEAGE FOR COST ACCOUNTING		
	Lin. Mi.	ARE.
<u>SHEET NO.</u>	<u>SHORELINE</u>	<u>SQ. M.</u>
10472	10	12
10473	7	13
10474	- 0 -	14
10475	8	10
10476	6	11
10477	2	13
10478	1	13
10479	7	12
10480	2	13
10481	4	13
10482	8	4
10483	6	11
10484	8	8
10485	8	10
10486	7	10
10487	3	13
10488	6	6
10489	7	3
10490	8	7
10491	8	6
10492	4	11
10493	3	13
10494	2	13
10495	5	6
10496	5	4
10497	5	7
10498	- 0 -	14
10499	10	7
10500	6	4
10501	2	13
TOTALS	158	294

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS
T-10489, T-10487, T-10488 and T-10489
80 Job PH-163

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

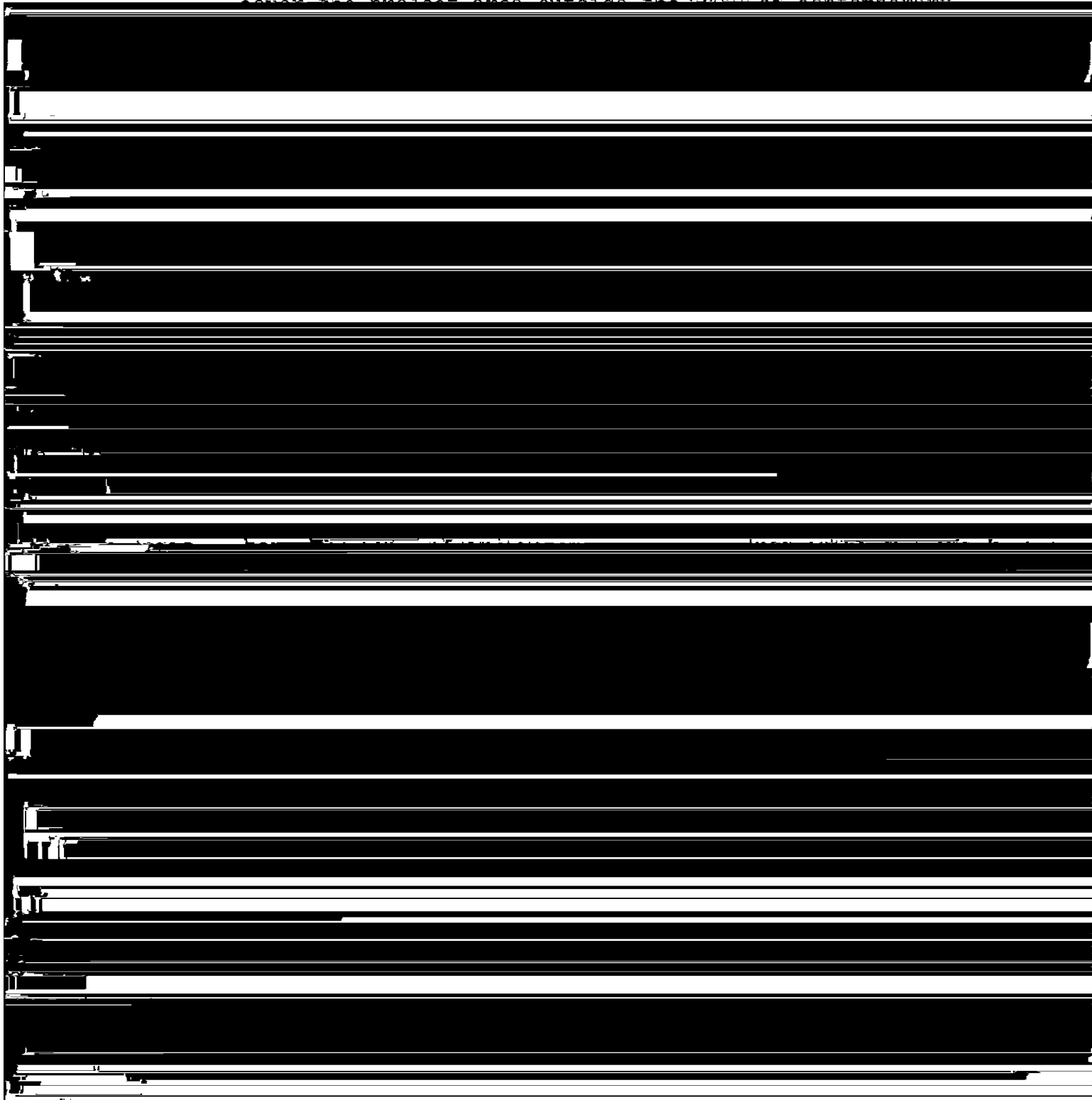
A complete field inspection preceded compilation. Limited field edit was accomplished in conjunction with contemporary hydrographic surveys H-8313 and 8395. The project was bridged by multiplex and compiled by Kelsh plotter.

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 hydro-
graphic survey operations. Four hydrographic surveys
accomplished in the period of time between 1943 and 1955
cover the project area outside the areas of contemporary



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. Re-bridging by analytic aerotriangulation and new mapping with new color and infrared photography is recommended.

S. G. Blankenbaker
S. G. Blankenbaker

NOTE: POLITICAL BOUNDARIES - With the exception of the Mass. - Rhode 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 basic

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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

Leo F. Beugnet
Cartographic Survey Aid

Approved:

Paish Y. Fitzgerald
for

Ira R. Rubottom
Chief of Party

FIELD INSPECTION PHOTOGRAPHS
56W 137^{thru} 140, 162^{thru} 164

54W 1021, 1022

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

10487

PROJECT NO. Ph-163

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

MON	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
1932	G.P. p. 4	NA 1927	41 40 38.531 71 29 49.898	1188.7 (662.3) 1154.1 (233.7)			
1941	USGS	"	41 38 26.33 71 29 43.04	812.3 (1038.8) 996.1 (392.5)			
	p. 105	"	41 40 24.061 71 26 31.877	742.3 (1108.8) 737.4 (650.5)			
WICH NEY, 1913	p. 107	"	41 39 51.41 71 26 46.31	1586.0 (265.0) 1071.4 (316.7)			
WICH YEL- L, 1913	"	"	41 39 51.48 71 26 54.68	1588.2 (262.9) 1265.0 (123.1)			
WICH , 1913	"	"	41 39 43.29 71 27 03.49	1335.5 (515.5) 80.7 (1307.4)			
WICH BURCH 3	"	"	41 39 48.690 71 27 20.176	1502.1 (348.9) 466.8 (921.3)			
843	p. 9	"	41 40 42.730 71 29 40.777	1318.3 (532.8) 943.2 (444.6)			
1932	Comp.	"	41 40 71 29	1248.1 (602.9) 1123.5 (264.3)			
GS)	"	"	41 38 71 29	846.1 (1005.0) 1014.4 (374.2)			

6 METER
BY: A. H. Heywood
DATE 3/29/57
CHECKED BY: Henry P. Eichert
DATE 8/13/57
COMM-DC-57843

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COMPILATION 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.
Boat 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 Sheet No. 1, 55 through No. 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.

41. 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. 7½ 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

T. 10487

- 4a. Classification Label_____

COMM-DC 34529

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REVIEW REPORT
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



1-9-68

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-163 (Rhode Island)

T-10487

Bartons Corner	<i>Long Point - J.F.</i>	<i>Maskerchugg River</i>
<i>Chepiwanoxet - J.F.</i>	<i>Chepiwanoxet Island - J.F.</i>	Nichols Corner
Cowesett		
Drum Rock Hill		<i>North Kingston</i>
East Greenwich	<i>Essex Bridge - J.F.</i>	<i>North Kingstown - J.F.</i>
<i>Folly Wharf</i>	<i>Forge Bridge - J.F.</i>	Potowomut Neck
Frenchtown		Potowomut Pond
Frenchtown Brook		Potowomut River
Fry Brook	<i>Quidnessett Cemetary - J.F.</i>	Quidnessett
Goddard State Park		<i>St. Patrick Cemetary - J.F.</i>
Greenwich Bay		Sandhill Brook
<i>Greenwich Cemetary</i>	<i>Greenwood Cemetary - J.F.</i>	Spencer Hill
Greenwich Cove		The Mount
<i>Haul Rock - J.F.</i>		Warwick
Hunt River		<i>Washington County - J.F.</i>
<i>Hitch Up Rock - J.F.</i>		
<i>Kent County - J.F.</i>		

Approved by:

A. Joseph Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

STRIKE OUT ONE

NON-FLOATING AIDS/OR LANDMARKS FOR CHARTS

Baltimore, Maryland December 5 1958

I recommend that the following objects which have ~~(not been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(Bathymetric)~~ the charts indicated.

The positions given have been checked after listing by Joseph W. Vonasek

William F. Deane *Chief of Party.*

[illegible]

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.

*** TABULATE SECONDS AND METERS**

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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 Position
VIM	0.7 mm NW
WAS	0.6 mm NW
NIP	0.7 mm SW

Stations not identified:

LET	YES	KEN
BAT	CAB	RAG
ACE	HAT	QUO
ZOO	JOE	

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.

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	REMARKS
236	7/8/68	J. Hogan	Full Part Before After Verification Review Inspection Signed Via Drawing No. 35 - No Corr. off board for all intensive purposes Consider fully applied until reconstruction 688
1210	4/17/69	H. Quimby	Full Part Before After Verification Review Inspection Signed Via Drawing No. 50 - Examined, no connection types deleted for chart title