Diag. Cht. No. 1210-2.Insert

### Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

DESCRIPTIVE REPORT
Type of Survey Planimetric
Field No. Ph-163 Office No. T-10178
LOCALITY
State Massachusetts
General locality Narragansett Bay
Locality Somerset
, i
19.56
CHIEF OF PARTY Ira R. Rubottom, Chief of Party W. E. Randall, Baltimore District Officer

LIBRARY & ARCHIVES

DATE February 26, 1968

USCOMM-DC 5087

### DESCRIPTIVE REPORT - DATA RECORD

- 2 -

T - 10478

Ph-163

Project No. (II): 25126

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)

Kelsh Plotter Method of Compilation (III):

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000

(Pantograph ratio 3/5)

Scale Factor (III):

1.000

Date reported to Nautical Chart Branch (IV): Date received in Washington Office (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

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): DIGHTON CORNER 1, 1890

Lat.: 41° 47' 21.36" (659.0 m) Long.: 71° 10' 17.62" (406.9 m)

Adjusted landjusted

Plane Coordinates (IV):

State:

Zone:

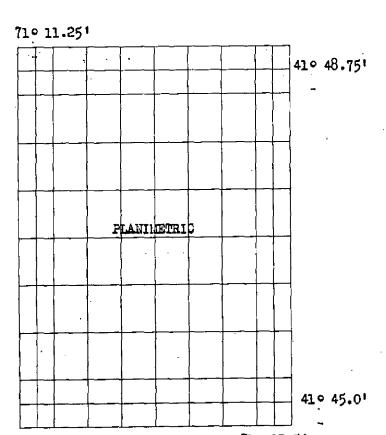
Y=

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.

COMM-DC-57842



71 ° 07.5 \*
Areas contoured by various personnel (Show name within area)
(II) (III)

### DESCRIPTIVE REPORT - DATA RECORD

.

Field Inspection by (ii): Mathew A. Stewart Leo F. Beugnet Date: May - October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (11):

Date:

Mean High Water Location (III) (State date and method of location):

1956 (Photogrammetric - Kelsh Plotter)

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

Date: 8/6/57

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

Date: 8/6/5

Control plotted by (III):

B. Kurs

Date: 8/30/57

Control checked by (III):

D. M. Brant

Date: 9/5/57

Redict-Plot-or Stereoscopic

E. L. Rolle

Date: 3/15/58

Control extension by (III):

(E. L. Rolle

Planimetry (B. Kurs

8/8/58

Stereoscopic Instrument compilation (III):

Contours:

Date:

Date:

Manuscript delineated-by (III): (scribed)

C. A. Lipscomb

Date: 8/5/60

Photogrammetric Office Review by (III): J. C. Richter

Date: 4/29/60

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

Date:

COMM- DC- 57842

### DESCRIPTIVE REPORT - DATA RECORD

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

- 5 -

Number	Date	PHOTOGRAPHS (III) Time (EST)	Scale	Stage of Tide
56-W-255 56-W-256	5/1/56	0944 0945	1:30,000	No tidal waters
56-W-257	11	0946	11	2.6' above MLW
56-W-278 thru 280	11	1001	11	2.71 11 11

Tide (III)

(From predicted tables)

Reference Station:

Newport, R. I.

Subordinate Station: Subordinate Station:

Taunton, Massachusetts

Washington Office Review by (IV): 5.G.BLANKENBAKER

Date: 0 CT- 1967

Ratio of Mean | Spring

Range

3.5

2.8

Range

4.4

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date: Date:

Identified:

Ranges

Proof Edit by (IV):

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

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

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): Recovered: Identified: 4 27 19

Number of BMs searched for (II):

Recovered: Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

THIS MAP WAS NOT FIELD EDITED

COMM- DC- 57842

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# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-10478

T-10478 is one of thirty planimetric maps comprising Job PH-163. Project maps cover the Narragansett Bay, Rhode Island-Massachusetts area.

Field inspection preceded compilation. This map was not field edited. The project area was bridged by multiplex and compiled by Kelsh plotter.

The addendum to this Summary includes a discussion of project map accuracy and adequacy.

A cronaflex copy of this map 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 Eureau 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. Blankenbolu-

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 affice 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-10478

Please refer to the Field Inspection Report for Map T- 10474 for all data pertaining to this map.

Martin C. Moody Cartographic Survey Aid

Approved:

Chief of Party

FIELD PHOTO GRAPHS -56W 255, 257, 277, 278, 280

MOS. 257, 277, 278 WERE MISSING AT THE TIME OF FINAL REVIEW - APPARENTLY LOST.

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

ORM 164 4-23-54)

GOAST AND GEODETIC SURVEY CONTROL RECORD

MAP T. 10478		PROJECT NO.	CT NO.	Ph-163	6	SCALE C	SCALE OF MAP 1:10,000	000,0	SCALE FACTOR 1.000	JR 1.000
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DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

ORM 164 4-23-54)

COAST AND GEODETIC SURVEY CONTROL RECORD

1,000

COMM- DC- 57843 FROM GAID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS (BACK) 13 August 1957 FORWARD SCALE FACTOR Cuita (BACK) N.A. 1927 - DATUM DATE astrick In break FORWARD DATUM CHECKED BY. J. C. Cregan 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. 164.3 1100.5 40h.6 235.8 185.9 31.6 752.3 185.8 1592.3 643.3 1240.7 963.0 42.3 1047.4 865.3 973.7 142.4 1316.2 1226.9 1772.3 (BACK) SCALE OF MAP. FORWARD 122.5 744.5 534.9 258.8 742.9 1808.8 519.5 111.9 750.6 634.0 624.2 78.8 1686.8 1819.5 1243.0 1446.5 899.9 338.2 1665.3 1150.1 LONGITUDE OR \*-COORDINATE 22.508 19.789 32,156 1,6.881 58.975 54.675 17.835 24.330 53.832 27.438 53.976 17.336 38,962 06.260 02.554 08.387 58.627 14.643 LATITUDE OR W-COORDINATE Ph-163 29 July 19*5*7 PROJECT, NO. 16 9 弘 8 52 抏 8 4 옄 Ħ 검 47 07 07 07 17 임 Ħ 귿 디 급. 디 71 믜 Z 7 7 다 7 디 7 믜 7 77 7 口 7 4 3 크 DATE DATUM N.A. 1927 = = ¥ = Ξ = = = = SOURCE OF INFORMATION COMPUTED BY J. C. Richter p. 617 G.P. List p. 617 618 8 617 38 38 597 p. 607 (INDEX) Comp. List = å å, ó, å ġ 10478 DIGHTON-SOMERSET BOUNDARY STONE SOMERSET 4, 1887 Sub. Pt. DIGHTON rehoboth corner 10, 1890 CORNER 1, 1890 SOMERSET SPIRE 1 FT. - . 3048006 METER HOGBACK, 1890 DILLON, 1890 WHITE CHURCH STATION MAP T.... BLUFF, 1874 SPIRE, 1874 LITTLE ROCK ~ WOOD, 1874 1890 1874

1

### COMPILATION REPORT Project Ph-163 T-10478

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

Horizontal control was adequate.

Vertical control inapplicable.

### 33. SUPPLEMENTAL DATA

Final Name Standard, dated 5 March 1957.

### 34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage is complete.

### 35. SHORELINE AND ALONGSHORE DETAILS

All shoreline and alongshore details are from adequate field inspection.

No low-water or shoal lines are shown.

### 36. CFFSHORE DETAILS

Refer to paragraph 8 of the Field Report.

### 37. LANDMARKS AND AIDS

Form 567 has been submitted for two landmarks to be charted. See Descriptive Report for T-10485. Page 20 of this report.

### 38. CONTROL FOR FUTURE SURVEYS

STACK, 1956 (landmark) was located photogrammetrically.

### 39. JUNCTIONS

Junctions have been made as follows:

To the north - no contemporary survey.

To the east with T-10479.

To the south with T-10485.

To the west - no contemporary survey.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

### 41. BOUNDARIES

A small portion of the town line between Somerset and Fall River in the Taunton River was taken from the USGS Somerset Quadrangle.

42. thru 45 - Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

U.S. Geological Survey 7½ minute Quadrangle Somerset, Massachusetts, scale 1:31,680, edition of 1943 and reprinted 1949.

### 47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 353, scale 1:40,000, published March 10, 1958 (19th edition) (January 25, 1960).

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

Edward L. Rolle Carto. (Photo.)

Approved and forwarded

William E. Randall

LCDR, C&GS

Baltimore District Officer

Mian & Randall

# PHOTOGRAMMETRIC OFFICE REVIEW

T. 10478 - Ph 163

1. Projection and grids JCM2. Title JCM 3. Manuscript numbers JCM 4. Manuscript size JCM
CONTROL STATIONS  4a, Classification lab
5. Horizontal control stations of third-order or higher accuracy 16. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)
9. Plotting of sextant fixes10. Photogrammetric plot report GLAL 11. Detail points GCAL
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline At 13. Low-water line At 14. Rocks, shoals, etc. At 15. Bridges 16. Alds to navigation 17. Landmarks At 18. Other alongshore physical features At 19. Other along-
to navigation17. Landmarks18. Other alongshore physical features19. Other along-
shore cultural features FTAC
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 CM 28. Buildings GCR 29. Railroads GCR 30. Other cultural features GCR
POLINDADIES
31. Boundary lines ACA-32. Public land lines
31. Budicary lines 2.52. Fubilit land lines
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy
overlay III 37. Descriptive Report III 38. Field inspection photographs III 39. Forms
40. Tohas C. Richtle Joseph Steinberg
Reviewer Supervisor, Review Section or Light
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

### NOTE TO REVIEWER

There are discrepancies in position of detail in the vicinity of the following MCS traverse stations along the east edge of the survey. Map detail was checked at stations SOMERSET SPIRE, 1874 and WHITE CHURCH SPIRE, 1874; and is satisfactory.

STA	Dimension from Description	Map Dimensio	n
98a MGS	892 ft. south of centerline of Hart Street	720	ft.
•	19.3 ft. east of centerline of Route 138	5	19
98B MGS	3552 ft. south of Hart Street	3480	11
•	25.7 ft. west of centerline of Route 138	ЬO	51
98c MGS	244.3 ft. east of centerline of Route 138	230	ft
98D MGS	23.5 ft. west of centerline of County Street	15	Ħ
98E MGS	172 ft. northeast of centerline of Route 138	18 <b>0</b>	tt
	450 ft. northeast of centerline of Gibbs Stree	t 440	17

# T-10478 October 1967

### 61. General Statement

This survey has not been used for hydrographic support purposes. In the compiler's "Note to Reviewer" page 16 included in the back of this Descriptive Report -- discrepancies are noted between map dimensions and dimensions given in Massachusetts Geodetic Survey traverse station descriptions in distances between the stations and roads. Several stereoplanigraph test models were set for project maps T-10472 and T-10473. A datum shift was found between C&GS control on T-10472 and a combination of MSG and USGS control on T-10472 and T-10473. A report on the test is included in the Descriptive Report for T-10472; and, the test is discussed in the addendum to the Summary for this map. The subject MGS stations on this map were not used as control for bridging or for compilation.

Differences exist between T-10478 and prior Bureau topographic and hydrographic surveys, and the USGS quad covering the area in horizontal position of shoreline and topographic features in the shoreline area. The only shoreline area on T-10478 is located in the southeast corner of the map (also the area of the MGS control stations mentioned in the preceding paragraph). This area was compiled from Kelsh plotter models set on pass points established by the multiplex bridge and field and office identified Bureau control stations. Compilation photography was not included in the bridge.

# 62. Comparison with Registered Topographic Surveys

T-5754

1:20,000

1944

T-5754 was the source of shoreline and topography for H-7939, dated 1951 -- except for corrections and additions applied by the hydro party. Comparison of shoreline and alongshore topography is discussed under side heading 64.

# 63. Comparison with Maps of Other Agencies

USGS quad, Somerset

1:24,000

1948

In view of the differences between T-10478 and prior Bureau surveys noted under side headings 61 and 64 in the location

T-10478, cont.

of features, a number of clearly defined shoreline) points were scaled from the quad and plotted on the subject map. A shift toward their location on H-7939 was indicated for some points.

### 64. Comparison with Hydrographic Surveys

H-7939

1:10,000

1951

Differences between the surveys in shoreline location amounts to as much as 25 meters, ground distance. This is accounted for, in part, by the enlargement (from 1:20,000 to 1:10,000 scale) of the source of hydrographic survey shoreline (T-7939); and in some cases faulty transfer of details; local datum errors, however, amounting to approximately 15 meters exist.

### 65. Comparison with Nautical Charts

The landmark stack located near the south end of the town of Somerset is shown on the chart in the position determined through survey H-7939 (1951). This position differs by approximately 30 meters with the position determined through survey T-10478. No other significant differences were noted.

## 66. Adequacy of Results and Future Surveys

Differences between the survey and other sources are discussed in preceding sections of this report. In view of the amount and distribution of control, and compilation method used, this survey should meet the required accuracy standards. The addendum to the Summary for this survey includes a discussion of project map accuracy and adequacy. The maps will be registered; remapping, however, is recommended for future hydrographic survey support purposes.

Reviewed by:

S. G. Blankenbaker

Approved by:

Chief, Photogrammetric Branch

// Kalph/ Jobievalok: MAR 25 1968 Chilef, Photogrammetry Division

Chief, Marine Char Division

### GEOGRAPHIC NAMES

### FINAL NAME SHEET

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

T-10478

Bark Street Beals Ledge Bourn Cemetery Broad Cove Bristol County -Buffington Corner Chace Avenue Chace Street Cole River -County Street Dighton Elm Street Fall River Hailes Mill Road Hart Street Hunters Hill Labor in Vain Creek Lewin Brook Marvel Street

New York, New Haven and Hartford North Street Palmer Street Cemetery ·Pleasant Street · Pottersville Richmond Hill Riverside Avenue St. Patrick Cemetery Sharps Lot Road Simmons Cemetery Somerset >Somerset Avenue State Highway 138 Swansea Taunton River .Whetstone Hill Road .Williams Street

Approved by:

A. Jøseph Wraight

Chief Geographer

Prepared by:

Cartographic Technician

U.S. DEPARTMENT OF COMMERCE COAST AND PETIC SURVEY

# NONFILIPATING/PAPS/OR LANDMARKS FOR CHARTS

TO BE CHARTED | STRIKE OUT ONE TO | BE/PFLFTFD/

Form 567 April 1945 Daltimore, Marylend

I recommend that the following objects which have (1/4/2/4/1/1) been inspected from seaward to determine their value as landmarks be charted on Applicated.

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

									T.Y.	Miliam B.	Randall,		Ö	Cited of Party.	
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concrete	concrete, ht=50(66)		11. 1	57	-	1.2		12,95 992	¢	Photo <b>r-1</b> 0478	£	**		=	
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating eight to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the farea and not by Comm-DC 28355 individual field survey sheets. Information under each column heading should be given.

M TABULATE SECONDS AND METENS

2

### 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.

Letter all information.
 In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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