10478

Original

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-10478

LOCALITY

State Massachusetts

General locality Narragansett Bay

Locality Somerset

19.56

CHIEF OF PARTY

Ira R. Rubottom, Chief of Party
W. E. Randall, Baltimore District Officer

LIBRARY & ARCHIVES

DATE Febraury 26, 1968

USCOMM-DC 5087

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 10478

Ph-163

Project No. (II): 26120 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):

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): DIGHTON CORNER 1, 1890

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

Plane Coordinates (IV): State: Zone:

Y= X=

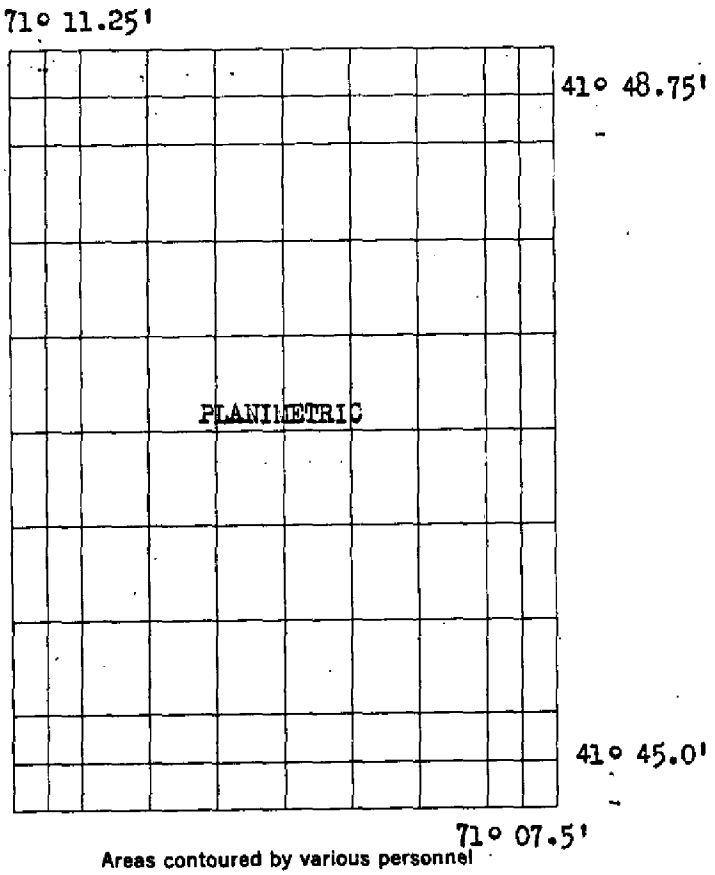
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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 (II):
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: 8/6/57

Control plotted by (III): B. Kurs
Date: 8/30/57

Control checked by (III): D. M. Brant
Date: 9/5/57

~~Radial Plot~~ or Stereoscopic Control extension by (III): E. L. Rolle
Date: 3/15/58

Stereoscopic Instrument compilation (III):
Planimetry (E. L. Rolle, B. Kurs)
Date: 8/8/58
~~Contours~~
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:

DESCRIPTIVE REPORT - DATA RECORD

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

PHOTOGRAPHS (III)

Number	Date	Time (EST)	Scale	Stage of Tide
56-W-255	5/1/56	0944	1:30,000	No tidal waters
56-W-256	"	0945	"	" " "
56-W-257	"	0946	"	2.6' above MLW
56-W-278 thru 280	"	1001	"	2.7' " "

Tide (III)
(From predicted tables)

		Ratio of Ranges	Mean Range	Spring Range
Reference Station:	Newport, R. I.	-	3.5'	4.4'
Subordinate Station:	Taunton, Massachusetts		2.8'	3.5'
Subordinate Station:				

Washington Office Review by (IV): S.G. BLANKENBAKER Date: OCT. 1967

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

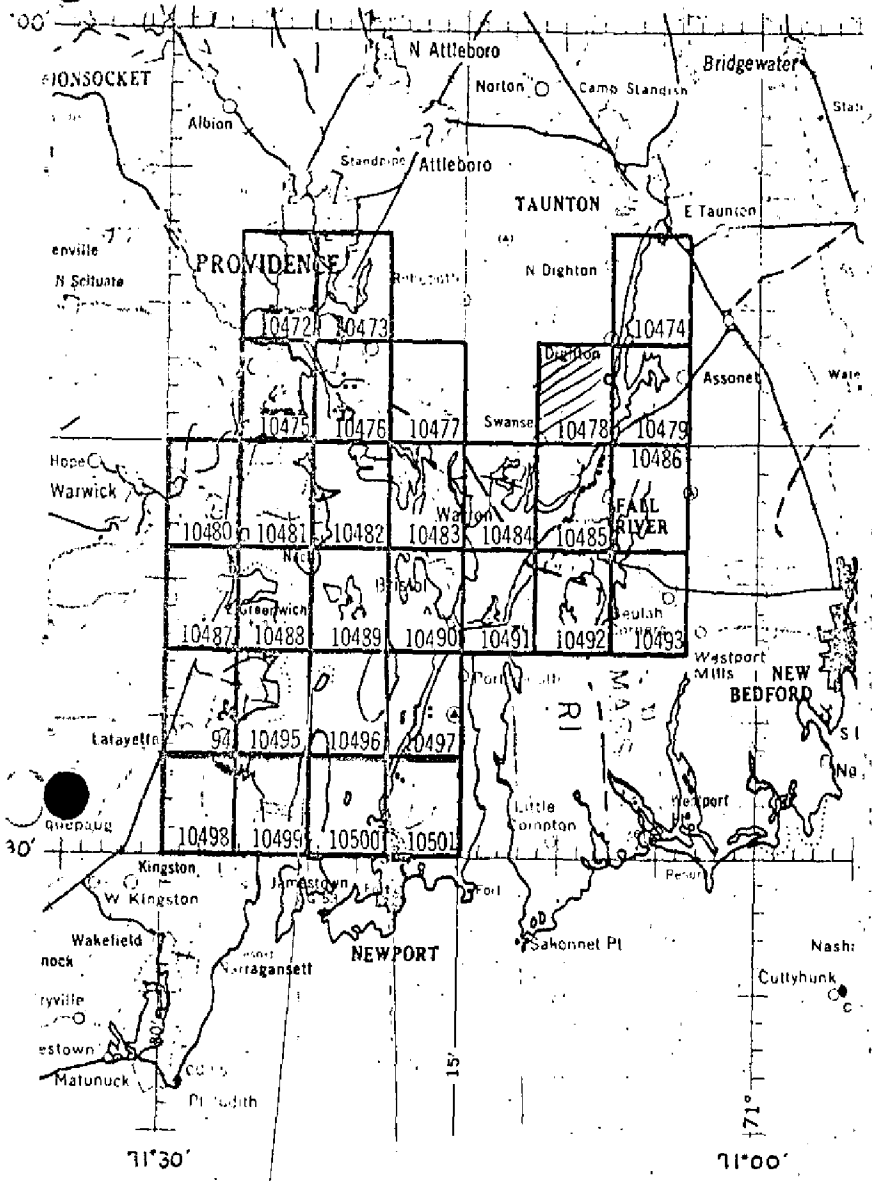
Land Area (Sq. Statute Miles) (III): 13
Shoreline (More than 200 meters to opposite shore) (III): 2 mi
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 27 Recovered: 19 Identified: 4
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

THIS MAP WAS NOT FIELD EDITED

PLANIMETRIC MAPPING PROJECT PH - 163

Narragansett Bay, Mass.- Rhode Island



SHEET NO.	Lin.Mi. SHORELINE	AREA SQ. MI
10472	10	12
10473	7	13
10474	9	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	9	14
10499	10	7
10500	6	4
10501	2	13
TOTALS	158	294

OFFICIAL MILEAGE FOR COST ACCOU

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 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

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 boundaries, it is recommended that the project maps not be considered sources for political boundaries (with the exception of the state line). SGB

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
Martin C. Moody
Cartographic Survey Aid

Approved:
Laird Y. Fitzgerald
for Ira R. Rubottom
Chief of Party

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

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

ORM 164
4-23-54)

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

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T- 10478 PROJECT NO. Ph-163 SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR φ-COORDINATE / LONGITUDE OR x-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)
MARK ECCENTRIC, 1934	G.P. List p. 110	N.A. 1927	41	48	26.908	830.2	1020.9					
			71	07	42.633	984.2	400.9					
98A MGS	Taunton Quad. (USE) A. 34	"	41	48	11.407	351.9	1499.2					
			71	07	39.123	903.2	482.0					
98B MGS	A 35	"	41	47	51.811	1598.5	252.6					
			71	08	02.515	58.1	1327.2					
98C MGS	A 35	"	41	46	11.794	363.9	1487.2					
			71	08	16.887	390.1	995.8					
98D MGS	A 35	"	41	45	57.689	1779.8	71.3					
			71	08	24.854	574.1	811.8					
98E MGS	A 36	"	41	45	45.526	1404.6	446.5					
			71	08	22.323	515.7	870.3					
LITTLE ROCK SOUTH BASE, 1890	G.P. List p. 617	"	41	48	54.726	1688.4	162.7		outside limits			
			71	11	37.756	871.5	513.4					
LITTLE ROCK NORTH BASE, 1890	"	"	41	48	59.298	1829.5	21.6		outside limits			
			71	11	38.688	893.0	491.9					
BOUNDARY STONE SOMERSET 3, 1887	p. 608	"	41	47	22.04	680.0	1171.1					
			71	09	13.20	304.8	1080.7					
DIGHTON-SWANSEA CORNER 1 (DIGHTON CORNER 2), 1890	p. 618	"	41	48	56.893	1755.3	95.8		outside limits			
			71	10	36.244	836.5	548.3					
DIGHTON COR. 1, 1890	p. 617	"	41	47	21.36	659.0	1192.1					
			71	10	17.62	406.9	978.6					
DIGHTON CORNER 3, 1890	"	"	41	48	59.151	1824.9	26.2		outside limits			
			71	11	38.390	886.1	498.7					

1 FT. = .3048006 METER

COMPUTED BY: J. C. Richter, A. K. Heywood — DATE: 29 July 1957, 28 March 1957

CHECKED BY: J. C. Cregan — DATE: 13 August 1957

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 10478 PROJECT NO. Ph-163 SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-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)
LITTLE ROCK 1890	G.P. List p. 617	N.A. 1927	41 48 54.675	1686.8	164.3		outside limits			
			71 11 22.508	519.5	865.3					
REHOBOTH CORNER 10, 1890	p. 618	"	41 46 58.975	1819.5	31.6		outside limits			
			71 11 17.835	411.9	973.7					
DIGHTON-SOMERSET BOUNDARY STONE SOMERSET 4, 1887	p. 608	"	41 47 24.330	750.6	1100.5					
			71 07 53.832	1243.0	142.4					
HOGBACK, 1890	p. 617	"	41 47 46.884	1446.5	404.6					
			71 11 06.260	144.5	1240.7					
WOOD, 1874	p. 598	"	41 45 02.554	78.8	1772.3					
			71 08 27.438	634.0	752.3					
BLUFF, 1874	p. 597	"	41 45 53.976	1665.3	185.8					
			71 07 49.789	1150.1	235.8					
SOMERSET SPIRE 1874	p. 607	"	41 46 17.336	534.9	1316.2					
			71 07 38.962	899.9	485.9					
WHITE CHURCH SPIRE, 1874	"	"	41 45 08.387	258.8	1592.3					
			71 08 32.156	742.9	643.3					
Sub. Pt. DIGHTON CORNER 1, 1890	Comp.	"	41 47	624.2	1226.9					
			71 10	422.5	963.0					
DILLON, 1890	G.P. List p. 617	"	41 46 58.627	1808.8	42.3					
			71 11 14.643	338.2	1047.4					

1 FT. = .3048006 METER

COMPUTED BY: J. C. Richter DATE 29 July 1957 CHECKED BY: J. C. Cregan DATE 13 August 1957

COMM-DC-57843

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. OFFSHORE 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

Edward L. Rolle
Carto. (Photo.)

Approved and forwarded

William E. Randall

William E. Randall
LCDR, C&GS
Baltimore District Officer

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

15

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10478 - Ph 163

1. Projection and grids JCK 2. Title JCK 3. Manuscript numbers JCK 4. Manuscript size JCK

4a. Classification label JCK

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy JCK 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) — 7. Photo hydro stations — 8. Bench marks —

9. Plotting of sextant fixes — 10. Photogrammetric plot report JCK 11. Detail points JCK

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline JCK 13. Low-water line JCK 14. Rocks, shoals, etc. JCK 15. Bridges — 16. Aids

[redacted]

NOTE TO REVIEWER

There are discrepancies in position of detail in the vicinity of the following MGS 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 Dimension	
98A MGS	892	ft. south of centerline of Hart Street	720	ft.
	19.3	ft. east of centerline of Route 138	5	"
98B MGS	3552	ft. south of Hart Street	3480	"
	25.7	ft. west of centerline of Route 138	40	"
98C MGS	244.3	ft. east of centerline of Route 138	230	"
98D MGS	23.5	ft. west of centerline of County Street	15	"
98E MGS	172	ft. northeast of centerline of Route 138	180	"
	450	ft. northeast of centerline of Gibbs Street	440	"

REVIEW REPORT
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
S. G. Blankenbaker

Approved by:

Chief, Photogrammetric Branch

Ralph Sobieralski MAR 25 1968
Chief, Photogrammetry Division

John A. Boyer
Chief, Marine Chart 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. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

Form 567
April 1945

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ } STRIKE OUT ONE

Baltimore, Maryland 21 January 1960

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

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

William E. Randall, *Chief of Party.*

STATE	MASSACHUSETTS		POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE*		LONGITUDE*		DATUM						
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.H. METERS	° ′	″ D.P. METERS							
STACK	yellow brick ht=153(173)		41 43	57.38 1784	71 08	24.58 568	NA 1927	T-10485 Photo	30 Oct. 1955	x			350, 353
SPIRE	square granite clock tower, ht=106(366) (Fall River High School Tower, 1887)		41 42	18.935 584.2	71 09	08.329 194.2	"	Triang. T-10485	"	x			" "
STACK SE OF THREE	concrete ht=271(288)		41 44	14.33 442	71 08	46.04 1064	"	Photo. T-10485	"	x			" "
TOWER	Steel transmission ht=208(208)		41 43	17.86 552	71 09	41.10 950	"	"	"	x			" "
TOWER	steel transmission ht=208(208)		41 43	16.17 499	71 09	42.83 995	"	"	"	x			" "
TOWER	steel transmission ht=208(212)		41 43	10.50 324	71 09	28.47 658	"	"	"	x			" "
TOWER	steel transmission ht=208(212)		42 43	8.78 271	71 09	30.20 698	"	"	"	x			" "
RADIO TOWER S OF FOUR	steel ht=330(338)		41 42	51.08 1576	71 10	26.60 615	"	"	"	x			" "
CUPOLA	(wooden) ht=105(323)		41 44	05.54 171	71 07	42.40 980	"	"	"	x			353
CHURCH N. SPIRE	(stone) ht=147(307)		41 40	37.83 1167	71 09	52.11 1205	"	"	"	x	x		350, 353, 1210
STACK TALLER OF TWO	yellow brick ht=200(203)		41 42	24.97 462	71 09	58.73 1358	"	"	"	x	x		350-353, 1210
CHURCH SPIRE	stone, ht=130(318)		41 41	7.68 237	71 10	26.03 602	"	T-10492	"	x	x		350, 353, 1210
SPIRE	white wooden, ht=69(149) (A White Church Spire, 1874)		41 45	08.367 258.8	71 08	32.156 742.9	"	Triang. T-10478	"	x			353
STACK	concrete, ht=60(66)		41 45	53.08 1656	71 07	42.95 992	"	Photo T-10478	"	x			"

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

Coast-DC 28356

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-10478

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
			Full Part Before 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
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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