

11431

Diag. Cht. No. 1210-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-142 Office No. T-11431

LOCALITY

State Massachusetts

General locality Westport River

Locality Acoaxet to Cadman Neck

1956

CHIEF OF PARTY

I.R. Rubottom, Chief of Party

W.F. Deane, Baltimore District Officer

LIBRARY & ARCHIVES

DATE November 17, 1961

USCOMM-DC 5087

11431

DESCRIPTIVE REPORT - DATA RECORD

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T-11431

Ph-142

Project No. (II): ~~71799~~ Quadrangle Name (IV):

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

Chief of Party: I. R. Rubottom

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: William F. Deane

Instructions dated (II) (III):

Copy filed in Division of
Photogrammetry (IV)

Instructions - Project Ph-142(Field), 8 June 1954

" " " " , Supp. 1, 15 July 1954

" " " " , " 2, 6 Aug. 1954

" " " " , " 3, 18 Aug. 1954

" " (Office), 15 Sept. 1955

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000
(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): M.H.W.

~~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): LOW ROCK, 1934

Lat.: 41° 31' 13.694" (422.5 m) Long.: 71° 02' 50.297" (1166.2 m)

Adjusted

~~XXXXXXXX~~

Plane Coordinates (IV):

State: Mass.

Zone: Mainland

Y=

X=

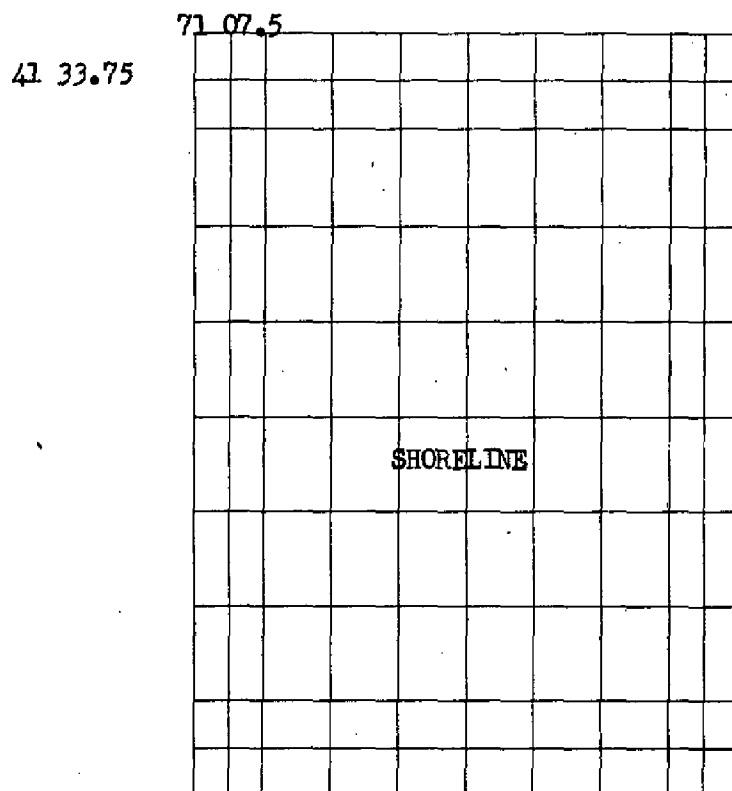
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

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

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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

DESCRIPTIVE REPORT - DATA RECORD

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Field Inspection by (II): **M. C. Moody**

Date: **August 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): **Austin Riley**

Date: **10/1/54**

Projection and Grids checked by (IV): **Austin Riley**

Date: **10/8/54**

Control plotted by (III): **J. C. Cregan**

Date: **7/1/57**

Control checked by (III): **E. L. Rolle**

Date: **7/2/57**

Radial Plot or Stereoscopic Control extension by (III): **E. L. Rolle
(Kelsh Bridge)**

Date: **8/14/57**

Stereoscopic Instrument compilation (III):
Planimetry **J. C. Cregan**
Contours

Date: **9/15/58**

Date:

Manuscript delineated by (III):

Date:

Photogrammetric Office Review by (III): **J. W. Vonasek**

Date: **10/3/58**

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

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Number	Date	PHOTOGRAPHS (III) Time (EST)	Scale	Stage of Tide
56-W-420 thru 424	5/1/56	1218	1:30,000	2.1' above MLW
56-W-428 thru 430	"	1230	"	2.1' " "

54W 896-899
54W 890-893
54W 884-888
DENIX-PI-84
43652-43654

THESE OLD
PHOTOS WERE NOT
USED FOR INSPECTION
BUT AVAILABLE TO THE
REVIEWER. *AWA*

Tide (III)
From predicted tables

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

Ratio of Ranges	Mean Range	Spring Range
	3.5	4.4
	3.0	3.7

Washington Office Review by (IV):

D. K. Thompson

Date:

Sept 28 1960

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 21

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

35
10.6

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 17

Recovered: 15

Identified: 10

Number of BMs searched for (II): 3

Recovered: 3

Identified: 1

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

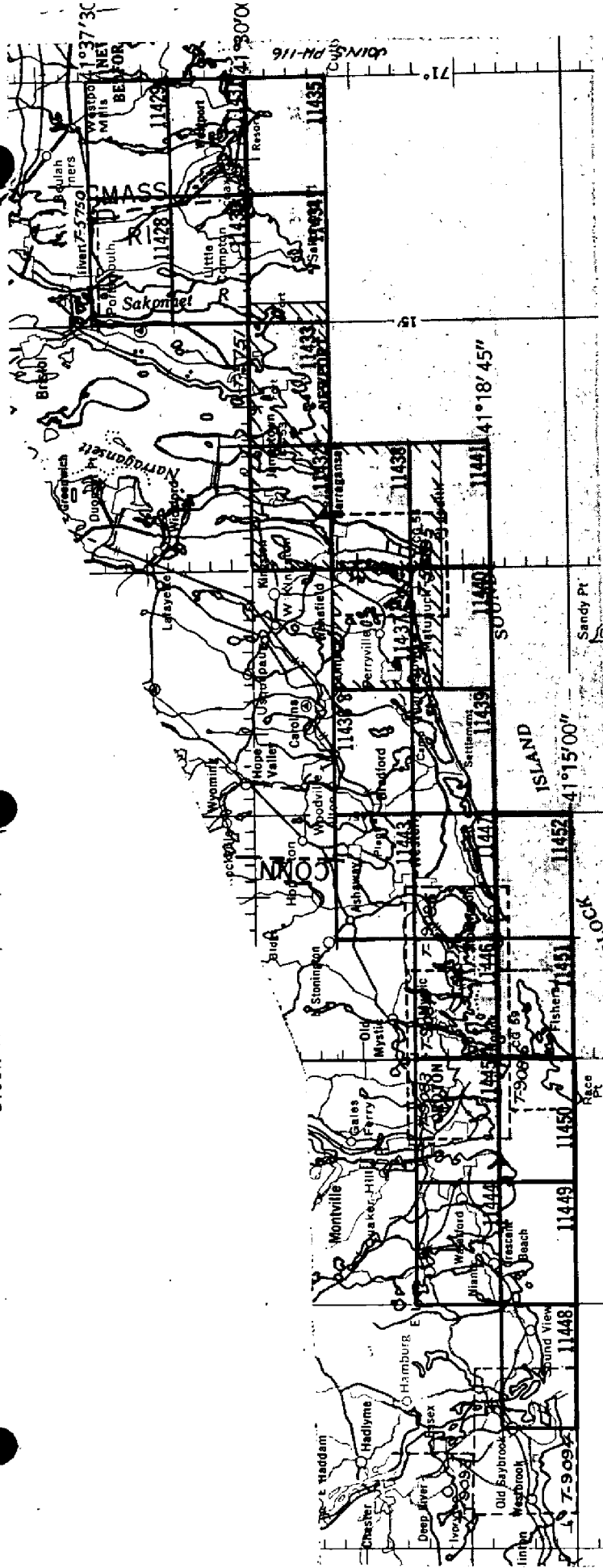
Remarks:

Massachusetts Geodetic Survey traverse stations are included in triangulation stations searched for, recovered and identified as follows:

4 searched for
4 recovered
2 identified

SHORELINE MAPPING PROJECT PH-142

Block Island Sd., R.I. to Cape River, Conn.



SHEET NO.	11428	11429	11430	11431	11432	11433	11434	11435	11436	11437	11438	11439	11440	11441	11442	11443	11444	11445	11446
OFFICIAL MILEAGE FOR COST ACCOUNTS	12	10	10	35	27	26	17	4	10	22	11	25	8	3	8	35	43	40	
AREA	23	26	24	22	17	7	8	1	16	25	9	13	2	1	9	25	24	15	
SHORELINE	28	30	20	8	14	4													
SQ. MILES	22	8	4	3	3	1													
TOTALS	450	308																	

----- Indicates shoreline revision
 [Symbol] Topographic revision

SUMMARY
PROJECT PH 142
TWENTY-FOUR

This project consists of 3 3/4' X 7 1/2', 1:10,000 scale shoreline maps. Three manuscripts T-11444, T-11448 and T-11449 were compiled by the Tampa District Office. The remainder were compiled by the Baltimore District Office.

The objective of the project was to provide shoreline and horizontal control data for contemporary hydrographic surveys and base maps for nautical charts.

It extends from the New Bedford, Connecticut area west to Old Saybrook along Block Island Sound and includes parts of Massachusetts, Rhode Island, and Connecticut.

Aerial photography was taken in the spring of 1954 with the "A" camera at 1:20,000 scale and supplemental nine-lens at 1:10,000 at low water. Some additional photography was flown in May 1956 for revision purposes.

Control was extended by stereoplanigraph and multiplex methods. Compilation was accomplished by Kelsh.

More stations were identified than necessary for this project. This was due to the fact that the original intentions were to extend horizontal control by radial line plot methods. Subsequent purchase of an additional first order bridging instrument reduced the need for the density of control. This item is the subject of supplemental instructions dated 15 September 1955, Paragraph 5. The field phase of control identification was initiated in June 1954.

The project is classified as Shoreline yet instructions to the field dated 8 June 1954, Paragraph 9 "Interior Inspection" states "the inland limits of inspection and delineation are the map limits".

Five contemporary hydrographic surveys dated 1956-57 have been completed in this area by visual hydrographic methods.

All sheets were scribed and transmitted to the Washington Office by

Final Review was completed by April 1960.

Submitted by:

A. K. Heywood

FIELD INSPECTION REPORT

Project 27300

Map T-11431

Please refer to the Field Inspection Report for Map T-11429
for all data pertaining to this map.

I. J. Fitzgerald
I. J. Fitzgerald
Photogrammetric Engineer

Approved:
I. R. Rubottom
I. R. Rubottom
Chief of Party

MASS. LAMBERT
GRID MAINLAND ZONE

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

MAP T-11431

PROJECT NO. 6142

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
LOW ROCK, 1934	p. 94	NA 1927	189,987.05	4987.05	(12.95)					
			723,978.01	3978.01	1021.99					
Sub. Sta. LOW ROCK, 1934	Office Comp.	"	189,894.51	4894.51	105.19					
			724,028.25	4028.25	971.75					
IVI, 1934	p. 94	"	195,520.18	520.18	4479.82					
			723,560.74	3560.74	1439.26					
Sub. Sta. IVI, 1934	Office Comp.	"	195,606.09	606.09	4393.91					
			723,775.17	3775.17	1224.83					
BLUE GOOSE, 1934	p. 94	"	201,042.14	1042.14	3957.86					
			717,755.20	2755.20	2244.80					
WESTPORT PT. METH. CH. SP., 1934	"	"	191,238.27	1238.27	3761.73					
			716,310.15	1310.15	3689.85					
WESTPORT PT. WATER TOWER, 1914	"	"	192,511.42	2511.42	2488.58					
			713,865.42	3865.42	1134.58					
NOOTAS 2, 1934	p. 66	"	195,874.57	874.57	4125.43					
			703,053.89	3053.89	1946.11					
Sub. Sta. NOOTAS 2, 1934	Office Comp.	"	195,914.93	914.93	4085.07					
			703,090.55	3090.55	1909.45					
OWEN, 1934	p. 94	"	200,390.00	390.00	4610.00					
			705,352.00	352.00	4648.00					
WESTPORT HARBOR WATER TANK, 1934	"	"	185,350.62	350.62	4649.38					
			710,737.03	737.03	4262.97					
82 E. MOS, 1936	Fall Riv. Quad.	"	200,676.74	676.74	4323.26					
			734,352.03	4352.03	647.97					

1 FT. = 3048006 METER

COMPUTED BY: E. L. Rolle

DATE 6/24/57

CHECKED BY: J. C. Cregan

DATE 6/25/57

COMM-DC-57843

COMPILATION REPORT
Project Ph-142
T-11431

Photogrammetric Plot Report:

The report for stereoplanigraph bridging in this area is part of the descriptive report for survey T-11429. A Kelsh templet bridge was prepared for photographs 56-W-420 through 425, furnishing pass points in surveys T-11429, T-11430 and T-11434.

31. DELINEATION

The Kelsh plotter was used for delineation on vinylite projection.

The Photogrammetric Office review corrections were made on a cronaflex copy of the penciled worksheet.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Final name standard dated 12/15/54 and Chart 237 were used for geographic names.

34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

All alongshore details are from field inspection, which was adequate. The low water lines and the shallow lines showing the stream channels are as delineated by the field party.

36. OFFSHORE DETAILS

Dogfish Ledge, Old Skunk, and Seal Rock could not be identified and are not shown.

37. LANDMARKS AND AIDS

Forms 567 were submitted for six landmarks and one aid to be charted and one landmark to be deleted.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-11429.

To the east, no contemporary survey.

To the south with T-11435.

To the west with T-11430.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BRIDGE CLEARANCES

The following are the clearances for the swing bridge at Westport Point as furnished by the field party, compared with the bridge book data:

	HORIZONTAL		VERTICAL	
	Left	Right	MLW	MHW
Engrs.	34.8	29.0	9.0'	6.0'
Field	30.5	30.0	8.3	5.3

42 - 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

USGS 7½ minute quadrangle Westport, Mass.-R.I., scale 1:30,680, edition of 1951.

Bureau surveys as follows:

T-5602 (1936), scale 1:10,000.

T-5603 (1936), scale 1:10,000.

~~T-5603 (1936), scale 1:10,000.~~

T-5604 (1936), scale 1:10,000.

More rocks and rock elevations are shown on these surveys than appear on the present survey.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 237, scale 1:20,000 edition of April 1937, corrected to 6/6/55.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Approved and forwarded

William F. Deane
William F. Deane, CDR, C&GS
Baltimore District Officer

Respectfully submitted
30 September 1958

Joseph W. Vonasek
Joseph W. Vonasek
Carto. (Photo.)

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11431

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

5a. Classification label ☒

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ☒ 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 ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

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

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. Joseph W. Voracek
Reviewer

Henry P. Enich
Supervisor, Review Section or 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.

Compiler

Supervisor

43. Remarks:

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TO BE CHARTED

STRIKE OUT ONE

TO BE DELETED

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland 2 Jan. 1959

I recommend that the following objects which have ~~(deleted from)~~ 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 Henry P. Richert

William F. Deane Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION					METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE	LONGITUDE	D. M. METERS	"	"						
MASSACHUSETTS	TANK	Steel, water, ht=125(133) (Δ Westport Harbor Water Tank, 1934)	13 30	28.546 880.7	71 05	44.637 1035.2	"	NA	Tr-1 T-11431	1934	X	X		237, 1210
	TOWER	Wood, water, ht=63(163) (Δ Westport Point Water Tower, 1914)	13 31	39.142 1207.6	71 05	03.064 71.0	"	"	Tr-1 T-11431	1914	X	X		237, 1210
	CHURCH SPIRE	Wooden, white, ht=60(132) (Δ Westport Point M.E. Ch. Spire, 1934)	13 31	26.445 815.9	71 04	31.008 718.9	"	"	Tr-1 T-11431	1934	X			237
	E. CHIMNEY	Red brick, ht=30 (120) (Δ Blue Goose, 1934)	13 33	03.230 99.6	71 04	11.362 263.3	"	"	Tr-1 T-11431	1934	X			237
	FLAGPOLE	White, wooden, ht= 31(36)	13 33	33.87 1045	71 04	22.14 513	"	"	Photo T-11431	1956	X			237
	FLAGPOLE	White, wooden, ht= 31 (36)	13 33	10.37 320	71 04	6.34 147	"	"	Photo T-11431	1956	X			237

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland

I recommend that the following objects which have ~~(been inspected from seaward to determine their value as landmarks be inspected from seaward to determine their value as landmarks be~~ charted on ~~(the charts indicated)~~ the charts indicated.

The positions given have been checked after listing by Henry P. Eichert

William F. Deane

Chief of Party:

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

STRIKE OUT ONE

TO BE CHARTERED
TO BE DEVELOPED

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

East Providence, Rhode Island 12 October, 1956

I recommend that the following objects which have ~~(added/added)~~ been inspected from seaward to determine their value as landmarks be ~~added/added~~ ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

/s/ I. R. Rubottom *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**

GEOGRAPHIC NAME LIST(cont)

Massachusetts

Nootas Hill

Point Bial
Point Pines

Quicksand Pond

Rhode Island
Richmond Pond

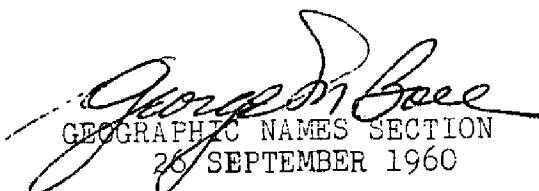
Sanford Flat
Sherman Hill
Ship Rock
Simon Brook
Slocum Corner
*Slocums River
Southards Dock
Speaking Rock
Sunk Rock

Taber Point
The Knubble
The Let
Toms Point

Upper Spectacle Island

*Westport Harbor
Westport Point(village)
Westport River-East Branch
Westport River-West Branch
Whites Flat
Woods Point

* B.G.N. Decision


GEOGRAPHIC NAMES SECTION
28 SEPTEMBER 1960

GEOGRAPHIC NAME LIST

Acoaxet
Allens Pond
Angeline Brook
Angeline Cove

Bailey Flat
Big Pine Island
Big Ram Island
Black Rocks
Buzzards Bay

Cadman Cove
Cadman Neck
Canoe Rock
Charlton Wharf
Cock East Pond
Corys Island
Crack Rock

Dunhams Brook

East Horse Neck Beach

Fishing Rock

Great Flat
Great Island
Grinnell Rock
Gull Rock
Gunning Island

Halfmile Rock
Halfmoon Flat
Hicks Cove
Hodgeman Rock
Horse Neck Beach
*Horse Neck Channel
Horse Neck Point
Hulda Cove

Irish Island

Jug Rock
Judy Island

Lakes Island
Lions Tongue
Little Beach
Little Pine Island
Little Ram Island
Lower Spectacle Island

REVIEW REPORT T-11431
SHORELINE
September 23, 1960

62. Comparison with Registered Topographic Maps:

183 bis.	1:10,000	1844
2217	"	1895-96
5602	"	1934
5603	"	1934
6119	"	1934
6120	"	1934
6121	"	1934

All of the foregoing surveys are to be superseded by this new manuscript for chart construction.

63. Comparison with Maps of Other Agencies:

USGS Westport, Mass.-R.I. 1:30,680 Ed. 1951

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

237 1:20,000 1st Ed. April 26, 1937 Revised
6/27/60.

Tabulated below are features of note which are shown on the nautical chart and do not appear on this new map manuscript.

1. Rock awash Lat. $41^{\circ}40'00''$ Long. $71^{\circ}04'45''$

These two rocks awash could not be found on any of the single lens 1956 photography

65. Comparison with Nautical Charts (Continued):

available to the reviewer at 1.3 above MLW.
The nine lens photos 43651-52 were taken in
1954 at 2.8¹ ^{above} MHW.

2. Rocks awash ^{above} east of bridge at Point Pines
Lat. 41°30'40" Long. 71°04'05"

Same comments as "1" above.

3. Bridge under construction Point Pines

This work was undertaken after photography and is covered by chart letter no. 895 (1959).

4. Rocks awash from Lat. 41°30" to 41°20' and
Long. 71°45" to 71°50'

Three groups of two rocks awash in three feet of water could not be found on any of the project photographs.

5. Seal Rock 41°22'25" Long. 71°04'10"

This rock was not visible to the field inspector and is not delineated.

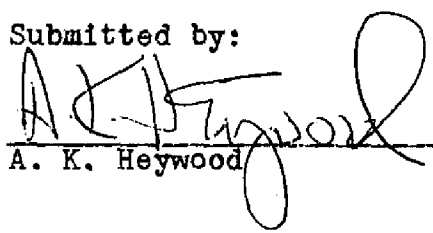
The survey area was visited by the inspector at about MHW. The photography taken in 1956 was 1.6 above MLW. It follows that many of the rocks awash at the sounding datum shown on previous Bureau surveys T-5601, 02, 03 and verified by previous hydrography should be carried forward on new chart construction.

66. Adequacy of Results and Future Surveys:

See comments on rocks awash item no. 65.

This survey complies with instructions and meets National Standards of Map Accuracy.

Submitted by:


A. K. Heywood

Approved by:

L. C. Lande
Chief, Review & Drafting Sec.
Photogrammetry Division

J. E. Waugh 11/28/61
Chief, Nautical ~~Charts~~
Charts Division

L. F. Woodcock
Asst. Chief, Photogrammetry Div.

G. B. Mast
Chief, Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11431

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.