

11435

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-1142 Office No. T-11435

LOCALITY

State Massachusetts & Rhode Island

General locality Rhode Island Sound

Locality Gooseberry Neck

1956

CHIEF OF PARTY

I.R. Rubottom, Chief of Party
W.F. Deane, Balto. District Office

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11435

DESCRIPTIVE REPORT - DATA RECORD

T-11435

Ph-142

Project No. (II): ~~21144~~

Quadrangle Name (IV):

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

Chief of Party: E. R. Ribottom

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): 1:6,000
(Pantograph ratio 3/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV): 6 OCT 1955

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 30 Aug 1960

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): GOOSE, 1943

Lat.: 41° 29' 04.801" (148.1 m)

Long.: 71° 02' 18.407" (427.0 m)

Adjusted

~~11/11/54~~

Plane Coordinates (IV):

State: Mass.

Zone: Mainland

Y=

X=

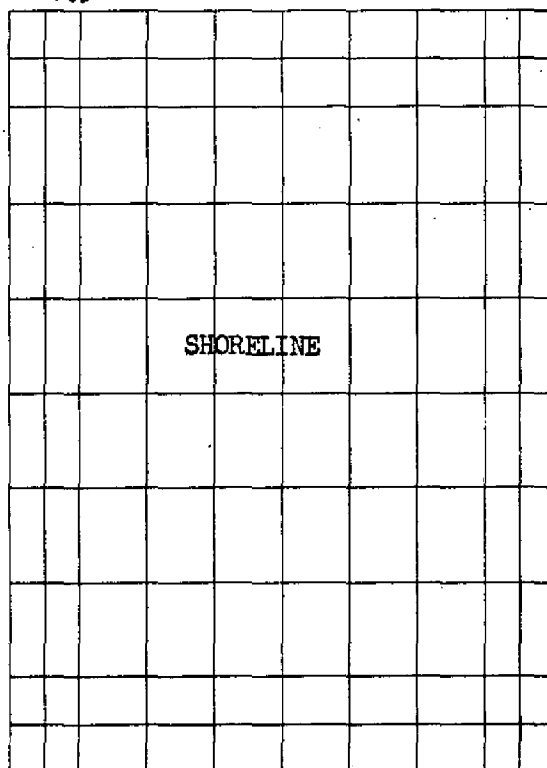
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

41 30.0 71 07.5



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

DATA RECORD

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**

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

Date: **9/15/58**

~~XXXXXXXX~~

Date:

Manuscript delineated by (III):

Date:

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

Date: **10/6/58**

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

Number	Date	PHOTOGRAPHS (III) Time (EST)	Scale	Stage of Tide
56-W-428 and 429	5/1/56	1230	1:30,000	2.1' above MLW

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):

Date: **4/1/60**

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date: **AUG. 30th / 1960**

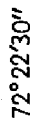
Land Area (Sq. Statute Miles) (III): **0.5**
Shoreline (More than 200 meters to opposite shore) (III): **3.6**
Shoreline (Less than 200 meters to opposite shore) (III): **negligible**
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): **10** Recovered: **9**
Number of BMs searched for (II): **0** Recovered: **0**
Number of Recoverable Photo Stations established (III): **None**
Number of Temporary Photo Hydro Stations established (III): **None**

Identified: **3**

Identified: **0**

Remarks:

Block Island Sd., R.I. to Connecticut, Conn.



----- Indicates shoreline revision
[] 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 "W" 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 seribed and transmitted to the Washington Office by *Baltimore Office*.

Final Review was completed by April 1960.

Submitted by:

A. K. Heywood

FIELD INSPECTION REPORT
Project 27300
Map T-11435

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

I. Y. Fitzgerald
I. Y. Fitzgerald
Photogrammetric Engineer

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

COMPILATION REPORT
Project Ph-142
T-11435

Photogrammetric Plot Report:

Refer to the descriptive report for survey T-11431.

31. DELINEATION

The Kelsh plotter was used for delineation on vinylite projection.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Final names 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

Shoreline details are from field inspection which was adequate. The low water line at Quicksand Point was taken from nine-lens field photograph 43651.

36. OFFSHORE DETAILS

Refer to paragraph 48, Geographic Names, for a large number of underwater features that could not be delineated. Old Cock (rock awash) and Hen and Chickens (reef) appeared on only one photograph and were office interpreted.

The charted wrecks in this area could not be positively identified.

37. LANDMARKS AND AIDS

Forms 567 were submitted for three (3) aids and one landmark to be charted.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made as follows:

- To the north with T-11431.
- To the east, all water area.
- To the south, all water area.
- To the west with T-11434

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

No information was furnished by the field party for the Massachusetts-Rhode Island state boundary in the water area off Quicksand Point, as shown on the USGS Westport quadrangle. The point on the shoreline is the last point on the line in the description furnished by the field party. Refer to the marginal note on the Westport quadrangle.

42 - 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

USGS 7½ minute quadrangle Westport, Mass.-R.I., scale 1:31,680, edition of 1951.

Bureau surveys T-5602(1936) and T-5603(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, USGS
Baltimore District Officer

Respectfully submitted
6 October 1958

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

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11435

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

4a. 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.

Reviewer

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:

MONTHLY CHARTING/AIDS/OR LANDMARKS FOR CHARTS

Baltimore, Maryland 2 Jan. 1959

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

The positions given have been checked after listing by

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.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

Baltimore, Maryland

2 Jan. 1959

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

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

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

Comm-DC 28356

48. GEOGRAPHIC NAME LIST

Buzzards Bay
Bar Rock

East Horse Neck Beach
Gooseberry Neck

Hen and Chickens
Horse Neck Beach

Little Southwest Rock
Long Rock

Old Cock
Old Whale Rock

Quicksand Point

Rhode Island Sound

Southwest Rock

Twomile Rock

George M. Bass
GEOGRAPHIC NAME SECTION
21 APRIL 1960

REVIEW REPORT T-11435
SHORELINE
April 5, 1960

62. Comparison with Registered Topographic Surveys

2217	1:10,000	1895-96
6118	"	1934
6119	"	"
5602	"	"
5603	"	"

Refer to Item #65 and Item #66.

63. Comparison with Maps of Other Agencies

Westport, Mass.-R. I. 31,680 1951

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

237 1:20,000 Edition 1937 6/23/58 ✓

Since T-5602 and T-5603 were used as a source for the revision of this chart in the area covered by this report, comments under Item #66 are pertinent to this paragraph.

Field inspection photograph 54-W-1182 (7' above MLW), shows two small isles and a bare rock in the vicinity of Cutty Wow Rock, Lat. 41° 28' 45", Long. 71° 07' 30". These features are apparent also on nine-lens 43651 (taken at MLW). Nautical chart #237 shows only the bare rock taken from previous survey T-5602 (1934) and 3' depth in the vicinity of the two isles.

66. Adequacy of Results and Future Surveys

Again as in some previous surveys, the poorest photographs, due to glare and water surface ripple, were chosen for field inspection of offshore detail. It was, however, the latest photography (1956) and this is probably why it was selected. The stage of tide was 2' above MLW.

66. Adequacy of Results and Future Surveys continued

From a compilation point of view, the 1954 nine-lens was superior in clarity and detail. The stage of tide was also advantageous, being at MLW.

Offshore rocks were impossible to see on the field inspection print 56-W-429. Many of these rocks were delineated by office interpretation during final review from a study of nine-lens prints and reference to Bureau Survey T-5603 (1936).

A closer study of the Nautical Chart, (#237, 1:20,000), and Bureau Surveys T-5602 and T-5603 by the field inspector should have been made in order to prove or disprove the many rocks that are shown. Perhaps the time of low water was not coincident with time available for field inspection or some other deterrent factor may have been present. If so, a notation to this effect would have been welcomed in the report.

Instructions to the field, dated 8 June 1954, under Item #8, states "This shall include the field inspection of the high and low water lines and of detached rocks and shoals".

All other instructions with their supplements have been followed and the map complies with National Standards of Map Accuracy.

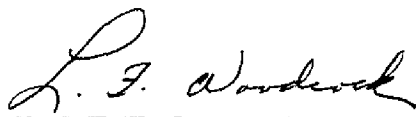
Reviewed by



A. K. Heywood

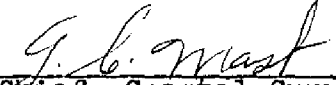
Approved


L. C. Lande, Chief
Review Section

Ass't.


Chief, Photogrammetry
Division


Chief, Chart Division


Chief, Coastal Surveys
Division

SURVEY NO. T-11435

[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.