

11441

Diag. Cht. Nos. 1210-2 and 1211-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-142 Office No. T-11441

LOCALITY

State Rhode Island

General locality Rhode Island Sound

Locality Point Judith

1954

CHIEF OF PARTY

L.F. Woodcock, Chief of Party

W.F. Deane, Balto. District Office

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11441

DATA RECORD

- 2 -

T -11441

Project No. (II): Ph-142

Quadrangle Name (IV):

Field Office (II): Groton, Conn.

Chief of Party: L. F. Woodcock

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: William F. Deane

Instructions dated (II) (III): 8 June 1954, 18 Aug. 1954,
15 Sept. 1955Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Air Photographic (Kelsh Plotter)

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:4000
(pantograph ratio 2/5)

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): 24 Aug 1960

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): POINT JUDITH (USE), 1940

Lat.: 41° 22' 17.900"

Long.: 71° 29' 22.943"

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.

SHORELINE
SURVEY

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

DATA RECORD

- 4 -

Field Inspection by (II): W. M. Reynolds

Date: Aug 1954

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (II) (State date and method of location):
21 April 1956; photogrammetric (Kelsh)

Projection and Grids ruled by (IV): Austin Riley

Date: 8 Oct. 1954

Projection and Grids checked by (IV): Austin Riley

Date: 8 Oct. 1954

Control plotted by (III): J. B. McDonald

Date: 16 Aug. 1955

Control checked by (III): J. D. Perrow

Date: 16 Aug. 1955

Radial Plot or Stereoscopic
Control extension by (III):

Date: ----

Planimetry D. M. Brant
Stereoscopic Instrument compilation (III):

Date: 16 Feb. 1956

~~CONTROL~~

Date:

Manuscript delineated by (III): C. A. Lipscomb

Date: 12 Sept. 1956

Photogrammetric Office Review by (III): J. D. McEvoy

Date: 8 June 1956

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

Date: ----

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

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time (EST)			
54-W-999	22 Apr. 1954	1200		1:20,000	1.8' Above MLW
54-W-1000	"	"		"	"
54-W-1001	"	"		"	"

also 1956

Tide (III)
(From predicted tables)

Reference Station: Newport, R. I.
Subordinate Station: Pt. Judith Harbor
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
---	3.5	4.4
0.9	3.1	3.9

Washington Office Review by (IV):

Date: 4/12/60

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date: Aug 28, 1960

Land Area (Sq. Statute Miles) (III): 1

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

3

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

—

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

14

Recovered:

11

Identified:

4

Number of BMs searched for (II):

4

Recovered:

3

Identified:

Number of Recoverable Photo Stations established (III):

None

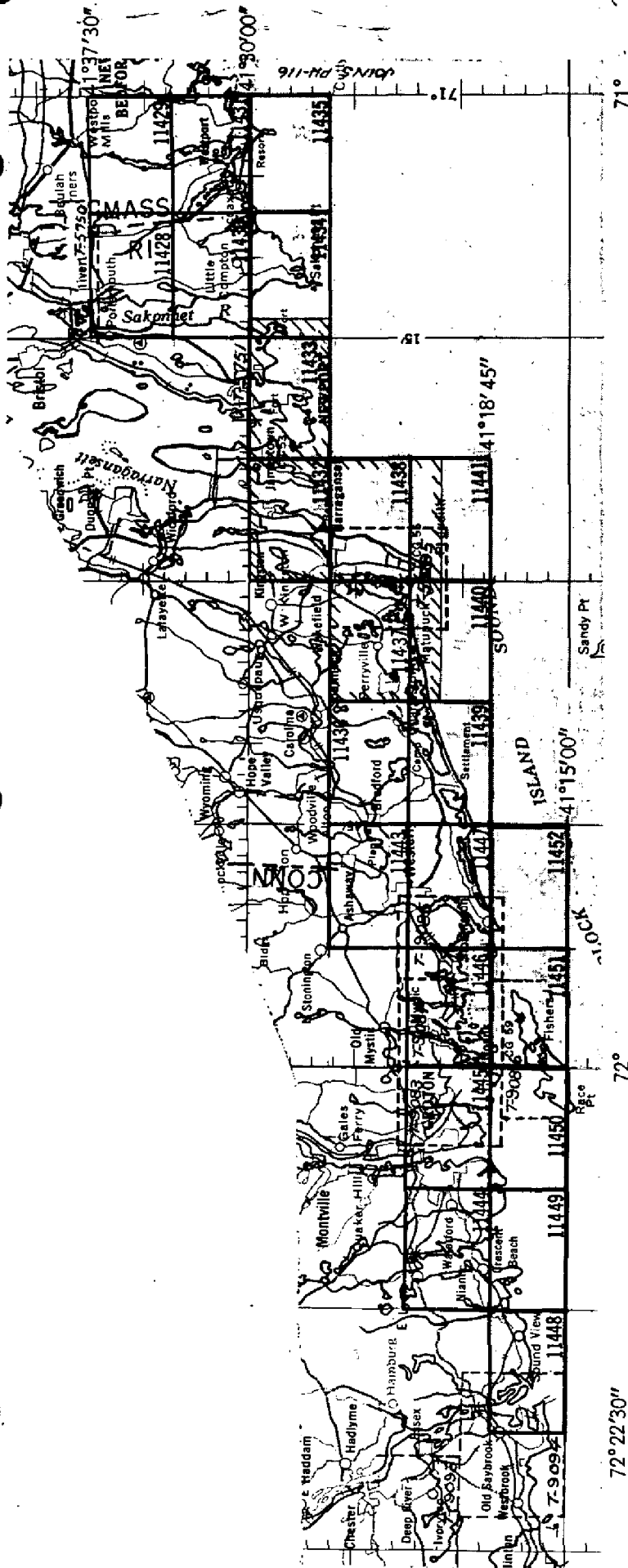
Number of Temporary Photo Hydro Stations established (III):

None

Remarks:

SHORELINE MAPPING PROJECT PH-142

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



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN. MI.	SHORELINE	AREA	SQ. MILES
11428	12			23
11429	10			26
11430	10			24
11431	35			22
11432	27			17
11433	26			7
11434	17			8
11435	4			1
11436	10			16
11437	22			25
11438	11			9
11439	25			13
11440	8			2
11441	3			1
11443	8			9
11444	35			25
11445	43			24
11446	40			15

11447	28	22
11448	30	8
11449	20	4
11450	8	3
11451	14	3
11452	4	1
TOTALS	450	308

Indicates shoreline revision
Topographic revision

SUMMARY
PROJECT PN 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.

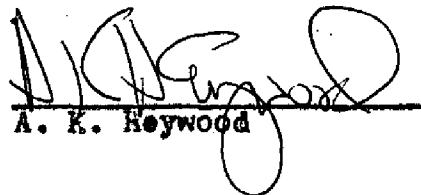
The project is classified as Shoreline yet instructions to the field dated 8 June 1954, Paragraph 9 "Interior Inspection" states "the inland limits of inspection and delineation are the map limits".

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

^{this} ~~41~~ sheets ^{was} ~~were~~ scribed and transmitted to the Washington Office by *Baltimore District Office*

Final Review was completed by April 1960.

Submitted by:


A. K. Heywood

2. AREAL FIELD INSPECTION

This shoreline sheet is located in southern Rhode Island. The land area consists of the extreme southern part of Point Judith.

The area is chiefly a summer resort. It also has a small commercial fishing fleet, which bases out of the harbor.

The harbor is man-made, being protected from the open sea by long granite breakwaters.

The photography was of recent date and of good quality. No difficulty was encountered in their interpretation in the field.

Field inspection was completed prior to the hurricane "Carol" of 31 August. Point Judith was one of the worst hit areas and considerable damage was done. The area was not inspected after the hurricane passed.

No items were deliberately left for the field editor.

Changes made by the hurricane have been noted on the photographs in violet ink.

Field inspection was performed on the following photographs: 54-W-1000 through 54-W-1002, and 1:10,000 scale nine-lens photograph 43624.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for. All stations were not identified due to the density of the control.

No control of any other agency was searched for or recovered.

The following stations were reported lost: TAVERN 1943; HOUSE CHIMNEY 1913 and BATTERY 211 1943.

4. VERTICAL CONTROL

The following tidal bench marks were recovered: POINT JUDITH HARBOR OF REFUGE, EASTERN BREAKWATER, TIDAL BENCH MARKS 6(1948), 7(1948) and 8(1948).

5. CONTOURS AND DRAINAGE

Contouring was not required for this shoreline sheet.

There is no perennial drainage in the area.

6. WOODLAND COVER

Woodland cover is adequately covered by the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected by walking along the shore and has been indicated by symbol on the photographs.

The area was inspected at low water and the approximate mean low water line along with foreshore characteristic notes were applied to nine-lens photograph 43624.

The foreshore is generally rocky and steep.

All docks, wharves, piers, etc. are adequately covered by the field inspection photographs.

The submarine cables, shown on the published charts of the area could be neither confirmed or denied. There are no cable crossing signs along the shore.

There are no other shoreline structures.

8. OFFSHORE FEATURES

The only offshore features are the stone breakwater around the harbor. These are self-evident from the photographs.

9. LANDMARKS AND AIDS

There are no landmarks for nautical charts.

All fixed aids to navigation had been located previously by triangulation and had not been disturbed.

10. BOUNDARIES, MONUMENTS AND LINES

There are no state boundaries affected by this sheet.

11. OTHER CONTROL

* No other control was established. One recoverable topographic station POINT JUDITH C.R.F. 1940 dated 1949, was recovered.

* now a triangulation station ^{also an} # AZ MK for Point Judith (use), 1940
Bm. 15 Aug 1953
524 card destroyed

12. OTHER INTERIOR FEATURES

All buildings and roads were inspected and classified according to the project instructions dated 8 June 1954. The area was completed prior to receipt of Instructions, Project Ph-142(Field), Supplement 3 and was not revised.

There are no bridges or cables over navigable streams.

There are no airports or landing fields in the area.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Ph-142".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, Geographic Names, Project Ph-142, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-142-3, Form 567, Aids to Navigation, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-142-20, Data, Map T-11441, forwarded to Washington Office **OCT 25 1954**

Submitted
20 October 1954

William M. Reynolds
William M. Reynolds
Carto. Survey Aid

Approved & Forwarded

OCT 25 1954

Lorin F. Woodcock

Lorin F. Woodcock
Chief of Party

1 of 2 sheets

MAP T-11441

PROJECT NO. Ph-142

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-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	
B ₁₁ ¹ S ₁₁ ¹ , 1943	1/84 499/21	1927	41 21 51.130 71 29 07.289		1577.4 169.4	(273.6) (1225.1)		1851.0 1394.5				
B ₁₁ ² S ₁₁ ² , 1943	1/84 499/21	1927	41 21 49.994 71 29 10.709		1542.3 248.9	(308.7) (1145.6)		1851.0 1394.5				
B ₆ ² S ₆ ² , 1943	1/84 499/21	1927	41 21 51.066 71 29 07.420		1575.4 172.5	(275.6) (1222.0)		1851.0 1394.5	Congested Not Plotted			
BC 3, 1943	1/84 499/21	1927	41 21 50.122 71 29 10.414		1546.3 242.0	(304.7) (1152.5)		1851.0 1394.5	Congested Not Plotted			
CL, 1943	1/84 499/21	1927	41 21 50.147 71 29 13.708		1547.0 318.6	(304.0) (1075.9)		1851.0 1394.5				
GL, 1943	1/84 499/21	1927	41 21 50.147 71 29 13.861		1547.0 322.2	(304.0) (1072.3)		1851.0 1394.5	Congested Not Plotted			
Point Judith Harbor of Refuge, East Breakwater Light, 1948	1/150 499/20	1927	41 21 31.624 71 29 36.215		975.6 841.8	(875.4) (552.8)		1851.0 1394.6	Pricked direct		Destroyed by Hurricane 1954	
Point Judith Harbor of Refuge, Main Breakwater East Light, 1948	1/150 499/20	1927	41 21 34.929 71 29 54.542		1077.6 1267.8	(773.4) (126.8)		1851.0 1394.6	Pricked direct		Destroyed by Hurricane 1954	
Point Judith Lighthouse, 1839	1/41 499/10	1927	41 21 39.322 71 28 54.825		1213.1 1274.3	(637.9) (120.3)		1851.0 1394.6	Pricked direct			
Point Judith, (USE), 1940	1/39 499/22	1927	41 22 17.900 71 29 22.943		552.2 533.2	(1298.8) (861.2)		1851.0 1394.4				
S.S. Point Judith (USE), 1940		1927	41 22 71 29		570.4 577.5	(1280.6) (816.9)		1851.0 1394.4			10	
Point Judith CRF (USE) AZ-ME, 1940	1/45 499/12	1927	41 21 54.189 71 29 17.839		1671.7 414.6	(179.3) (979.9)		1851.0 1394.5				

1 FT. = 3048006 METER

COMPUTED BY: J. B. McDonald

DATE 15 August 1955

CHECKED BY: J. D. Parrow, Jr.

DATE 16 August 1955

M. 2388.12

2 of 2 sheets

MAP T- 11441	PROJECT NO. Ph-142	SCALE OF MAP 1:10,000	SCALE FACTOR
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[illegible]

COMPILATION REPORT
Project Ph-142
T-11441

Photogrammetric Plot Report: Bridging did not extend into the area of this survey. Models were held to horizontal control points.

31. DELINEATION

The Kelsh plotter was used for delineation on vinylite projections. The final manuscript was prepared in two halves by standard scribing methods. Field inspection was good.

Photographs showing extent of hurricane damage have been received and changes have been made. (56-W-150 thru 152)

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

Shoreline Survey T-5095 was used to locate Champlin Rock.

34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline details are from field inspection which was thorough. Low water lines are based on field inspection from nine-lens photograph 43624.

Most of the shoreline appears not to have changed appreciably. Without the aid of new field inspection, other possible changes could not be made with certainty.

36. OFFSHORE DETAILS

Notes to hydrographer were submitted 3/30/56.

37. LANDMARKS AND AIDS

Form 567 has been submitted for one aid to navigation.

38. CONTROL FOR FUTURE SURVEYS

No topographic stations have been established.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-11438.

To the west with T-11440.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment necessary.

41. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S. 7½ min. quad. Narragansett Pier R. I., Scale 1:31,680, 1944.

USC&GS Shoreline Survey No. T-5095, Scale 1:10,000, May 1949.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 268, Scale 1:15,000 at Latitude 41° 23' published March 1953, Rev. 6-28-54.

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
8 November 1957

Joseph D McEvoy

Joseph D. McEvoy
Carto. (Photo.)

Approved and forwarded

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

PHOTOGRAMMETRIC OFFICE REVIEW

T-11441

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

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 D. McEvoy Henry P. Fisher
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:

M-2623-12

T-11441. Geographic Names.

Block Island Sound (use also in title)

Galilee Road

Money Pond

Point Judith (point)

Point Judith (settlement)

Point Judith Harbor of Refuge

Point Judith Neck

Rhode Island (title only)

Rhode Island Sound (not Atlantic Ocean)

Sand Hill Cove

Seaweed Beach

Names approved 4-4-58

L. Herk

REVIEW REPORT T-11441
SHORELINE
April 13, 1960

62. Comparison with Registered Topographic Surveys

91	1:10,000	1839
3388	1: 5,000	1913
5095	1:10,000	1948-49
71000 (graphic)	"	1948

Champlin Rock, north of Point Judith and about 250m offshore, could not be seen on the low water photography of this survey and should be carried forward on new nautical chart construction.

Except for this item, this survey supersedes all of the above previous surveys in common areas for nautical chart construction.

63. Comparison with Maps of Other Agencies

USGS Narragansett Pier 1:31,680 1944

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

268 1:15,000 1st Ed., Mar. 1953 12/21/59

The Rock Breakwater, extending southwest from Point Judith, was field inspected in Nov. 1954 after the August 1954 hurricane "Carol" as in ruins. The 12/21/59 revision, dated chart does not show this feature in ruins.

Similarly "Pt Judith Harbor of Refuge Maine Breakwater East Light 1948" was destroyed. The light is shown on the chart.

66. Adequacy of Results and Future Surveys

This map complies with all instructions and meets the National Standards of Map Accuracy.

Reviewed by


A. K. Heywood

Approved

L. C. Lande
L. C. Lande, Chief
Review Section

J. E. Laugh 4/3/62
Chief, Photogrammetry
Division

Marvin Hansen
Chief, Nautical Chart
Division

G. L. Mast
Chief, Coastal Surveys
Division

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T-11441

ion to Charts

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

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Before After Verification and Review

Before After Verification and Review

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.