11436

Diag. Cht. No. 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-11436

LOCALITY

State Rhode Island

General locality Block Island Sound

Locality Watchaug Pond

1954

CHIEF OF PARTY

L.F.Woodcock, Chief of Party
W.F.Deane, Balto. District Office

LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

11436

DATA RECORD

T-11436

Project No. (II): Ph-142 Quadrangle Name (IV):

Field Office (II): Groton, Conn. Chief of Party: L. F. Woodcock

Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: William F. Deane

Instructions dated (II) (III): 8 June 1954, 18 Aug. 1954, 15 Sept. 1955. Copy 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 (pantographic ratio 2/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV): AUG 14 1959 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): Sept 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): BUNKER HILL, 1873

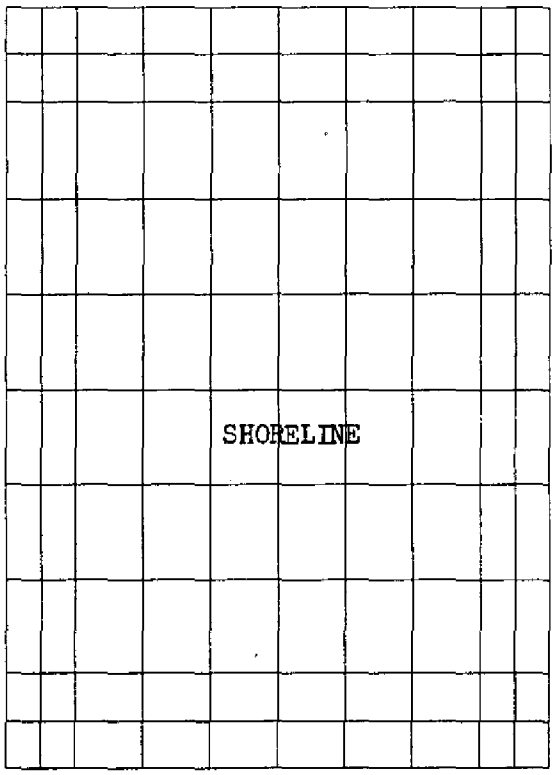
Lat.: 41° 23' 09.614" Long.: 71° 39' 16.500" Adjusted

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.



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

DATA RECORD

Field Inspection by (II): M. A. Stewart — Date: August 1954

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location):
22 April 1954, Photogrammetric (Kelsh)

Projection and Grids ruled by (IV): Austin Riley — Date: 1 Dec. 1954

Projection and Grids checked by (IV): Austin Riley — Date: 10 Dec. 1954

Control plotted by (III): J. Perrow — Date: 21 Oct. 1955

Control checked by (III): J. B. McDonald — Date: 21 Oct. 1955

~~Radial~~ Stereoscopic Control extension by (III): C. E. Cook — Date:

Stereoscopic Instrument compilation (III):
Planimetry E. L. Rolle — Date: 10 July 1956
~~Contours~~ — Date:

Manuscript delineated by (III): C. A. Lipscomb (scribed) — Date: 24 April 1957

Photogrammetric Office Review by (III): Jos. D. McEvoy — Date: 30 Aug. 1956

Elevations on Manuscript checked by (II) (III): ---- — Date: ----

M-2618-12(4)

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
54-W-799A thru F	4/22/54	1542	1:20,000	No tidal waters
54-W-781 thru 783	"	1531	"	At MLW

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): A. K. Ingwood Date: Sept 7th 1960

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

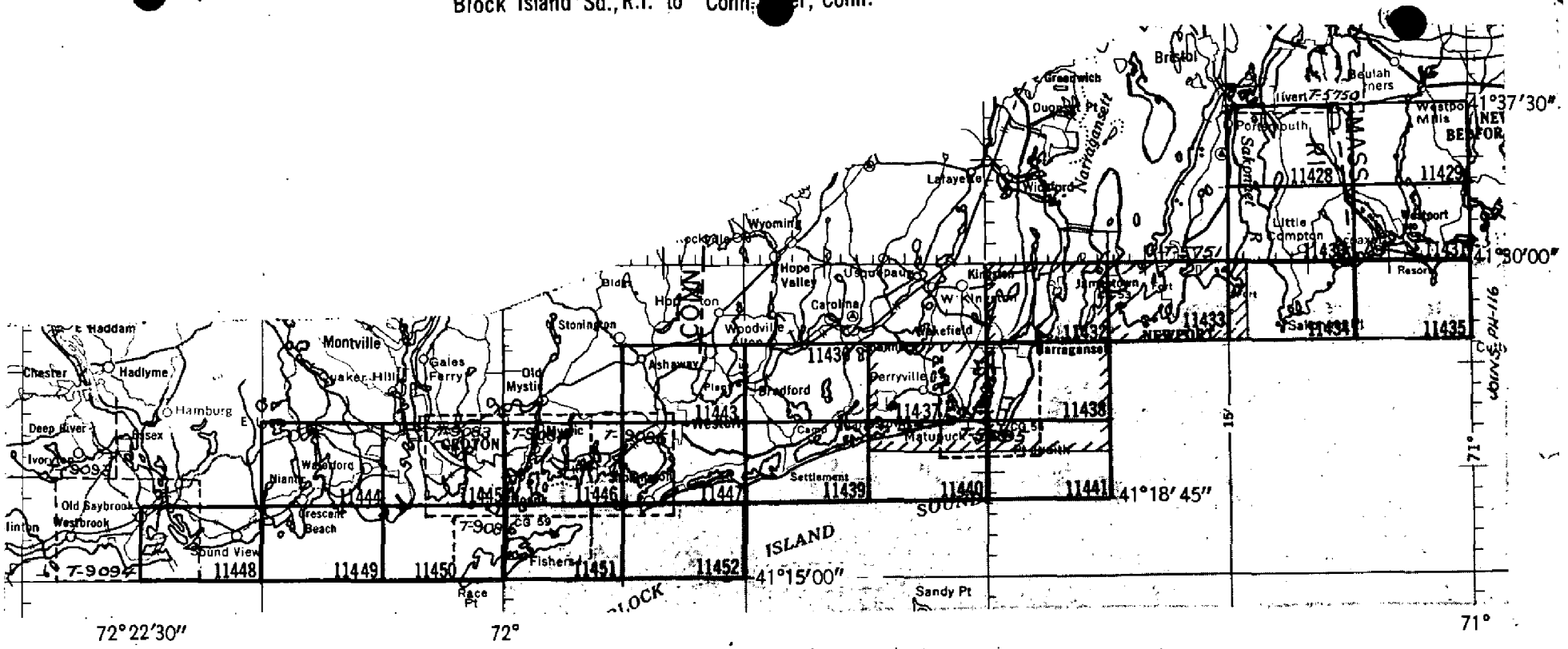
Land Area (Sq. Statute Miles) (III): 16
Shoreline (More than 200 meters to opposite shore) (III): 2
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 7 Recovered: 7 Identified: 7
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

M-2618-12 (4)

SHORELINE MAPPING PROJECT PH-142

Block Island Sd., R.I. to Conn[illegible]er, 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 PH 142
TWENTY-FOUR

This project consists of 3 3/4' X 7½', 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 scribed and transmitted to the Washington Office by Baltimore Office

Final Review was completed by April 1960.

Submitted by:

A. K. Haywood

2. AREAL FIELD INSPECTION

The area is in southwestern Rhode Island north of the north shore of Block Island Sound.

The area is a summer resort which is gradually being developed into a permanent semi-annual residential area.

There are several small dairy and truck farms scattered through the area.

Field inspection is believed to be adequate and complete.

Field inspection was done on 1:10,000 scale ratio prints of single lens photographs 54-W-779 through 54-W-783 and 54-W-799A through 54-W-799G.

Quality of photographs was excellent.

3. HORIZONTAL CONTROL

No supplemental horizontal control was established.

All existing Coast and Geodetic Survey control recovered and identified.

Three third-order traverse stations of the U. S. Geological Survey were recovered and identified. In addition, Temp. Station No. 338 on one U. S. Geological Survey traverse was identified.

There were no stations reported lost.

4. VERTICAL CONTROL

Inapplicable.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

The drainage pattern was developed and classified by standard symbols in blue ink.

There is considerable swamp throughout the area. Swamp limits have been indicated completely.

6. WOODLAND COVER

The woodland cover was field inspected and the classification has been noted on the photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The only shoreline is the northern part of Fort Neck Pond which is adequately covered by the field inspection notes.

There is no perceptible periodic tide in the area so there is no mean low water line.

Alongshore features consistcof houses and small piers which are adequately covered by field inspection notes.

8. OFFSHORE FEATURES

All rocks are close to the shoreline and have been shown on the photographs.

9. LANDMARKS AND AIDS

There are no landmarks or aids in the area.

10. BOUNDARIES, MONUMENTS AND LINES

There are no boundaries in the area.

11. OTHER CONTROL

Inapplicable.

12. OTHER INTERIOR FEATURES

Field inspection of buildings was completed prior to receipt of Instructions, Project Ph-142(Field)Supplement 3. Class 1 buildings were indicated by an "x" in red ink placed upon the image of the building. Class 2 buildings were indicated by the numeral 2 in red ink on the image of the building. Blocked-in new buildings were classified by the appropriate numeral and a leader. All other interior features are adequately covered by field inspection notes.

13. GEOGRAPHIC NAMES

No discrepancies were noted during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. Ph-142-17, Data, Map T-11436, forwarded to Washington Office OCT 27 1954

Submitted
20 October 1954

Matthew A. Stewart
Matthew A. Stewart
Carto. Survey Aid

Approved & Forwarded

OCT 27 1954

Lorin F. Woodcock
Lorin F. Woodcock
Chief of Party

Photogrammetry

Sheet 1 of 1

MAP T-11436 PROJECT NO. Ph-142 SCALE OF MAP 1:10000 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 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)
BUNKER HILL 1873	1/116		41 23 09.614	296.6	(1554.4)	1851.0				
	499/7	NA 1927	71 39 16.500	383.4	(1010.7)	1394.1				
SS BUNKER HILL, 1873		"	41 23	336.7	(1514.3)	1851.0	Pricked			
			71 39	294.9	(1099.2)	1394.1	Direct			
13M (USGS), 1941		"	41 23 46.94	1448.1	(402.9)	1851.0				
			71 37 38.77	900.7	(493.2)	1393.9				
TT 1, WO, 1941 (USGS)		"	41 23 35.48	1094.6	(756.4)	1851.0	Pricked			
			71 44 19.20	446.1	(947.9)	1394.0	Direct			
U.S.B.M. 74.6 (USGS) 1941		"	41 24 04.52	139.4	(1711.6)	1851.0	No R card			
			71 44 51.37	1193.3	(200.5)	1393.8				
S.S. U.S.B.M. 74.6 (USGS) 1941		"	41 24	160.0	(1691.0)	1851.0	Pricked			
			71 44	1198.7	(195.1)	1393.8	Direct			
Temp. Sta. No. 338+ (USGS), 1941		"	41 24 28.13	867.8	(983.2)	1851.0	Pricked			
			71 40 49.03	1138.8	(254.8)	1393.6	Direct			
TT 2, WO, 1941 (USGS)		"	41 24 11.49	354.5	(1496.5)	1851.0				
			71 40 51.23	1190.0	(203.7)	1393.7				
SS TT2, WO 1941 (USGS)		"	41 24	355.7	(1495.3)	1851.0	Pricked			
			71 40	1206.7	(187.0)	1393.7	Direct			
S.S. 13M, 1941 (USGS)			41 23	1450.9	(400.1)	1851.0				
			71 37	918.5	(475.4)	1393.9				
Watchaug, 1943	1/75		41 23 05.971	184.2	(1666.8)	1851.0				
	499/17	"	71 40 29.141	677.1	(717.0)	1394.1				
Watchaug, 1943 R.M. No. 2		"	41 23	206.4	(1644.6)	1851.0	Pricked			
			71 40	681.5	(712.6)	1394.1	Direct			

1 FT. = 3048006 METER

M-2388-12

COMPUTED BY: J. B. McDonald DATE 18 October 1955 CHECKED BY: J. Perrow DATE 21 October 1955

PHOTOGRAMMETRIC PLOT REPORT

Project 6142

21. Area Covered:

Map Manuscripts T-11436, T-11437, T-11443 and T-11447.

22. Method:

Two standard stereoplanigraph bridges were run using a vinylite overlay on the manuscripts (Models 801 to 799c and 799c to 792, inclusive). After running the strips, the overlay was reoriented over the manuscript to correct for azimuth, and then only a simple radial expansion was necessary. Maximum deviation was 1.5mm. before adjustment.

23. Adequacy of Control:

One point, TT2WO, could not be held in either strip. The substitute station was one of several boulders in a woods area and may have been misidentified in the field.

Only one strip was bridged because sufficient control was available to set the balance of the models on Kelsh plotter. Additional pass points were located by the bridge to facilitate setting adjoining models on the Kelsh plotters.

Submitted by:

C. E. Cook

C. E. Cook

Approved by:

Charles Theurer

C. Theurer

COMPILATION REPORT
Project Ph-142
T-11436

31. DELINEATION

Delineation was by Kelsh Plotter on vinylite projections. The final manuscript on Cronar film, was prepared in two parts by standard scribing methods.

Field inspection was good.

32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

Inspection was adequate and details are complete.

36. OFFSHORE DETAILS

Details are complete.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

No recoverable topographic stations have been established.

39. JUNCTIONS

Junctions have been made as follows:
To the east with T-11437.
To the south with T-11439.
To the west with T-11443.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment necessary.

41 thru 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

USGS 7½ minute quadrangle, Carolina, Rhode Island, scale 1:31,680 dated 1942, revised 1953.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 1211, scale 1:80,000 at Latitude 41°, published January 1941 (7th edition), revised August 1955, (3/13/56).

Respectfully submitted
13 August 1958

Joseph D. McEvoy
Carto. (Photo.)

Joseph D. McEvoy

Approved and forwarded

William F. Deane

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

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-11436

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 alongshore 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 — 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-11436

GEOGRAPHIC NAME LIST

Bradford

Cedar Swamp Brook
Charlestown
Cross Mill Pond

Deep Pond

Fort Neck Pond

Hannah Clarkin Pond

Indian Burying Hill
Indian Cedar Swamp

King Tom Pond

New York, New Haven & Hartford R.R.

Pasquiset Pond
Pawcatuck River
Perry Healy Brook
Perry Pond
Poquiant Brook

School House Pond

Watchaug Pond

Yawgunsk Brook

George M. Bass
GEOGRAPHIC NAMES SECTION
8 SEPTEMBER 1960

REVIEW REPORT T-11436
SHORELINE
September 7, 1960

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

1271	1:10,000	1872
1312	1:10,000	1873

Both of the above surveys are to be superseded by this recent manuscript for Nautical Charting.

63. COMPARISON WITH MAPS OF OTHER AGENCIES :

USGS Carolina $7\frac{1}{2}$ minute Scale 1:31,680 1942

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None

65. COMPARISON WITH NAUTICAL CHARTS:

1211 7thEd., January 1941, Revised 8/1/60

A very small portion of this survey was covered by this 1:80,000 scale chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey contains very little shoreline. Fort Neck Pond extends up into the sheet about 30 seconds from the southern sheet limits. The manuscript could have been eliminated from the project by the extension of the contemporary sheet to the south one minute in latitude.

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

Submitted by:

A. K. Heywood

Approved by:

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

Marvin Pankow
Chief, Nautical ~~Chart Br.~~
Charts Division

J E Clough 4/2/62
Chief, Photogrammetry Division

G. B. Mast
Chief, Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11436

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			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
			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
			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.