## 10490

Diag. Cht. No. 1210-2.

### FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

Type of Survey Planimetric
Field No. Ph-163 Office No. T-10490
LOCALITY
State Rhode Island
General locality Narragansett Bay
Locality Bristol Harbor
19 <u>56-</u> 57
CHIEF OF PARTY I.R.Rubottom , Chief of Field Party W.F.Deane, Balto. District Officer
LIBRARY & ARCHIVES
DATE February 26, 1968

USCOMM-DC 37022-P66



### DESCRIPTIVE REPORT - DATA RECORD

T - 10490

Ph-163 Project No. (II): 25126

Quadrangle Name (IV):

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

Chief of Party: Ira R. Rubottom

Photogrammetric Office (III): Baltimore. Md.

Officer-in-Charge: William F. Deane

Instructions dated (II) (III): (II) 9 April 1956 13 March 1957 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

zbhorebiner - 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):

MILES SENTINE CONCENTRATIONS: 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): HOG ISLAND 3, 1874

Lat.:41° 38 ° 39.930″ (1231.9 m)

Long.: 71° 16' 50.930"(1178.6 m)

Adjusted किर कर दर्भ

Plane Coordinates (IV):

State: Rhode Island Zone:

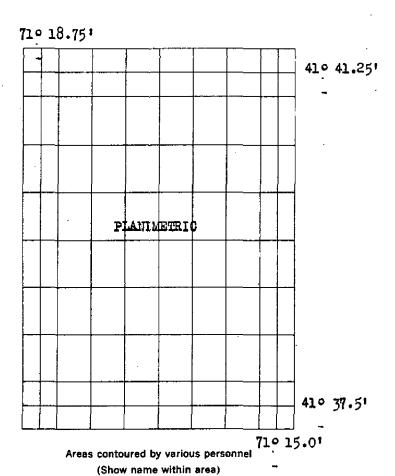
Υ=

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.

COMM- DC- 57842



(II) (III)

COMM- DC- 57842

### DESCRIPTIVE REPORT - DATA RECORD

- 4 -

Field Inspection by (II): Mathew A. Stewart Leo F. Beugnet

Date: May - October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II): \* See below

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): Joan Chaconas

Date: 8 March 1957

Projection and Grids checked by (IV): H. D. Wolfe

Date: 8 March 1957

Control plotted by (III): A. K. Heywood Date: 25 March 1957

Control checked by (III): S. G. Blankenbaker

26 March 1957 Date:

Radial Plot or Stereoscopic E. L. Rolle Date: 18 Oct. 1957

Control extension by (III):

Planimetry

Date:

Date:

Stereoscopic Instrument compilation (III): Shoreline: A. K. Heywood 1 April 1957

XOOM COKS Planimetry:

J. C. Cregan ) J. C. Richter 26citemexile50x 26 Jan. 1959

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

(scribed)

Date: 8 Oct. 1959

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

21 April 1959 Date:

**Elevations on Manuscript** checked by (ii) (iii):

Date:

\* FIELD EDIT

LIMITED FIELD EVIT WAS ACCOMPLISHED IN CONJUNCTION WITH CONTEMPORARY HYDROGRAPHIC SURVEYS - REFER TO THE FINAL REVIEW REPORT.

COMM- DC- 57842

DATE 1956-57

NO DISCREPANCY PRINTS WERE SUBMITTED.

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

Number

Date

PHOTOGRAPHS (III) Time (EST)

Scale

Stage of Tide

56-W-224 thru 227 56-W-242 thru 245 1 May 1956

0919 0931

1:30,000

2.01 above MLW

Tide (III) (from predicted tables)

Reference Station:

Newport, R. I.

Washington Office Review by (IV): 5. G. BLANKENBAKER

Subordinate Station:

Bristol

Subordinate Station:

Dec., 1966 Date:

Range

4.4

Ratio of Mean | Spring

Range

Final Drafting by (IV):

Date:

Ranges

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 5.5 sq. mi.

Shoreline (More than 200 meters to opposite shore) (III): 17.2 mile Shoreline (Less than 200 meters to opposite shore) (III): 0.5 mile

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): Number of BMs searched for (II):

18 Recovered: Recovered:

13 Identified: Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III): see par. 38

Remarks:

Two (2) third-order triangulation stations established.

All bench marks searched for are Tidal Bench Marks.

PH - 163

Narragansett Bay, Mass. - Rhode Island

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### Summary to Accompany Descriptive Report T-10490

T-10490 is one of 30 planimetric maps comprising project PH-163. The project covers the Narragansett Bay, Rhode Island-Massachusetts, area.

The project area was field inspected. Deficiencies in alongshore rock information are discussed in the final review report and in the addendum to this Summary.

Limited field edit of this map was accomplished by contemporary hydrographic survey parties.

The project area was bridged by multiplex. T-10490 was compiled by Kelsh plotter.

A cronaflex copy of the 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 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 appreciable 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

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). 560

FIELD INSPECTION REPORT Project 25120 Map T-10490

Please refer to the Field Inspection Report for Map T-10480 for all data pertaining to this map.

Leo F. Bengut

Leo F. Beugnet Cartographic Survey Aid

Approved:
Spaish y. Tilgueld

for Ira R. Rubottom
Chief of Party

FIELD INSPECTION PHOTOGRAPHS 56 W 225, 226, 227, 242, 243, 244, 245

54w 1194, 1195, 1196, 1197

PHOTOGRAPHS 54W 1145, 1194, 1195 WERE MISSING AT THE TIME OF FINAL REVIEW - APPARENTLY

LOST .

FORM 164 (4-23-54)

MAP T. 10490

DESCRIPTIVE REPORT
Ph-163
PROJECT NO. /79130 U.S. DEPARTMENT OF COMMERCE

CONTROL RECORD

COAST AND GEODETIC SURVEY

SCALE OF MAP 1:10,000 SCALE FACTOR 1,000

STATION	SOURCE OF	DATUM	LATITUC	DE OR #-	LATITUDE OR p. COORDINATE	DISTANCE FRC	DISTANCE FROM GRID IN FEET.	DATUM	N.A. 1927 - DATUM DISTANCE FROM GELD OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID DO PROJECTION LINE
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	p. 143	<b>5</b>	ב	18	05,285	122.3	1266.1			
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ERISTOL FERRY		   	대	38	33.890	1045.5	805.6			
Left., 10%/	P• 142	=	n	15	38.749	896.8	491.8			
BRISTOL COURTHOUSE,			4	3	12,117	373.8	1477.3			
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BRISTOL SQUARE		4	14	9	16,876	520•6	1330.5			)/ <b>8' -</b>
1912	p. 142	=	71	16	17.028	393.9	1966			
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COMPLIED BY. A. K. Hevudod	Hevanod		Li I-	3/00/5	Ę.		S. C. Blankanholes	Planken		COMM- 9C- 57843
Commence of the commence of th			4	1.56	21	CAR	CKED BY: ** C.	TOWNSTA	DATE	3/50/3/

FORM **164** (4-23-54)

U.S. DEPARTMENT OF COMMERCE .. DESCRIPTIVE REPORT Ph-163

PROJECT NO. 7749

MAP T. 10490

COAST AND GEODETIC SURVEY CONTROL RECORD

SCALE FACTOR... SCALE OF MAP 1:10,000

1.000

STATION	SOURCE OF	DATUM	LATITUD	E OR y -	LATITUDE OR y-COORDINATE	DISTÂNCE FRO	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GND DOR PROJECTION LINE IN METERS
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HOG ISLAND 3, 1874	<b>.</b>		41	38	39.930	1231.9	619.2			
	p. 143		71	16	50.930	1178.6	209.9			
			14	39	13.426	414.2	i436.9			
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COMPUTED BY. A. K. Heywood	Heywood	₩0	3/ Date 3/	3/22/57	_	CHE	CHECKED BY: S. G.	• Blankenbaker	baker DATE 3/26/57	com. pc. 57843

### COMPILATION REPORT Ph-163 T-10490

The photogrammetric plot report for this survey is part of the descriptive report for Survey T-10472.

### 31. DELINEATION

The Kelsh plotter was used for delineation.

### 32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

### 33. SUPPLEMENTAL DATA

Final name standard dated 5 March 1957.

Planetable Sheet Ph-1-F-56.

### 34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

### 35. SHORELINE AND ALONGSHORE DETAILS

All shoreline detail is from field inspection which was thorough.

### 36. OFFSHORE DETAIL

Refer to paragraph 8 of the field report. Two named submerged features could not be delineated.

A sextant fix at Usher Rocks is recorded on the back of Photograph 56-W-226.

### 37. LANDMARKS AND AIDS

Forms 567 have been submitted for seven landmarks and four aids to navigation.

### 38. CONTROL FOR FUTURE SURVEY

Thirty-four Photo-hydro stations fall within the limits of this manuscript and are located on Planetable Sheet No. Ph-1-F-56. Refer to the Descriptive Report to Accompany Graphic Control Survey Sheets Ph-1-A-56 thru Ph-1-N-56 submitted for this project.

Refer also to letter 711/rab dated 7 August 1958, subject: "Smooth Sheet H-8395, Project CS-13870 (PH-163) Narragansett Bay" copy of which is attached to report for T-10489.

No points other than those mentioned in item 37 were located.

### 39. JUNCTIONS

Junctions have been made as follows:

To the north with T-10483

To the east with T-10491

To the south with T-10497

To the west with T-10489

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

### 41. BRIDGE CLEARANCES

The following clearances were furnished:

Mount Hope Bridge, horizontal clearance 1156 feet, vertical clearance 135 feet MHW.

Bridge at Mill Gut, horizontal clearance 39.5 feet, vertical clearance 8 feet MHW.

### 42. BOUNDARIES

The Bristol County - Newport County Boundary was transferred from the U.S.G.S. quadrangle.

43 - 45 Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

U.S.G.S. 72 minute quadrangle Bristol R. I. and Massachusetts, scale 1:24,000; edition of 1955 published 1955.

Bureau Surveys T-5749(1944) and T-5750(1944), scale 1:20,000, date of issue 1949.

### 47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 278, scale 1:20,000, published November 11, 1946, revised 8/25/58.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

26 January 1959

John C. Richter Carto. (Photo.)

Approved and Forwarded

Villiam F. Deane

CDR, C&GS

Baltimore District Officer

### PHOTOGRAMMETRIC OFFICE REVIEW

T. 10490

1. Projection and grids
4a. Classification label
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks
9. Plotting of sextent fixes10. Photogrammetric plot report 11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids
to navigation17. Landmarks18. Other alongshore physical features19. Other along-
shore cultural features
PHYSICAL CEATURES
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
1eatures
CULTURAL FEATURES  27. Roads 28. Buildings 29. Railroads 30. Other 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 39.
40. Joseph W Vonasck Jenes / Trichal
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.
S. G. BLANKEN SAKER Supervisor
Compiler Supervisor  Dec. 1966
43. Remarks:

COMM-DC 34529

### Review Report T-10490 December 1966

### 61. General Statement

This survey has been used for hydrographic survey support purposes (H-8314, H-8395, and H-8396). Corrections applied to photogrammetric survey detail during hydrography and/or verification of the hydrographic surveys were applied to T-10490 during this review.

No discrepancies exist between the surveys. T-10490 is deficient in alongshore rock information - refer to side heading 66.

During review of the hydrographic surveys, thorough evaluations were made of prior Bureau topographic information (registered surveys). For this reason comparison with prior surveys during the review of T-10490 was limited to the surveys accounted for in subsequent sections of this report.

### 62. Comparison with Registered Topographic Surveys

T-5749	1:20,000	1944
T-5750	1:20,000	1944

A few alongshore rocks were carried forward from the prior topographic surveys to H-8396, dated 1956. Except for these details, T-10490 supersedes the prior surveys for nautical charting purposes in the common area.

### 63. Comparison with Maps of Other Agencies

USGS quad Bristol 1:24,000 1955

No significant differences were noted.

### 64. Comparison with Contemporary Hydrographic Surveys

н-8314	1:10,000	1956
н-8395	1:10,000	1957
н-8396	1:10,000	1957

These surveys have been accepted as basic surveys. Refer to side headings 61 and 66 of this report concerning application of T-10490 to the hydrographic surveys.

### 65. Comparison with Nautical Charts

278

1:20,000

11/9/64

The chart contains some topography from more recent sources. No significant differences were noted.

### 66. Adequacy of Results and Future Surveys

Project photography was poor for the purpose of interpreting alongshore details (rocks, piles, etc.); and, in addition, field inspection of alongshore rock details was incomplete. As a result a considerable number of rocks were added by the hydrographic survey party; also, rock details were carried forward to the smooth sheet from prior surveys during verification.

The addendum to the "Summary" included in this Descriptive Report contains additional information pertaining to the adequacy and accuracy of project maps. The maps are to be registered; remapping, however, is recommended for future hydrographic survey support purposes.

Reviewed by

<u> S. S. Blankenbofn</u> S. G. Blankenbaker

Approved by

Chief, Photogrammetric Branch

Chief, Photogrammetry Div.

Thief, Marine Chart Div.

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-163 (Rhode Island)
T-10490

Bristol County of Bristol Harbor Bristol Ferry-gf Bristol Neck

Bristol Point

Castle Island

East Cemetary-pf
East Passage

De Wolf Cemetary-pf
Fort Hill

Ferry Cliff-ff
Hog Island

Hog Island Rock

Hog Island Shoal-yf.

Juniper Hill Cemetary pp

Mill Gut

Middle Ground-pp

Mill Pond

Mount Hope Bay
Mount Hope Bridge of
Musselbed Shoal- of
Approved by:

A. Joseph Wraight Chief Geographer Narragansett Bay, Newport County-pp North Point

Popasquash Neck

Popasquash Point Pourtsmouth af Prudence Island

Rhode Island
St. Marys Cemetary of
Silver Creek

Southwest Point

Usher Cove .

Usher Point
Usher Rocks-Walker Cove

, Walker Creek

Walker Island

Prepared by:

Frank W. Pickett Cartographic Technician U.S. DEPARTMENT OF COMMERCE DETIC SURVEY COAST AND G

# MONHIO AMEND AMENTS FOR CHARTS

STRIKE OUT ONE

2 February

ŀ

Baltimore, Maryland

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

The positions given have been checked after listing by

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STATE	Hhode Island	i						METHOD					
			3	LATITUDE*	Ş	LONGITUDE #		COCATION	DATE			CHARTS	, í
CHARTING	ă	BIGNAL	•	D. N. METERS	•	D. P. MEJERS		T-Ibho	LOCATION	MARBO	ONSNI NB110		9
TANK		LAC	양		2 T	10.620	1927	Triang	2/97/s	M	CAP-I	20,353,	
STACK	Found, brick, nt-101(220)(2) Bristol Stack, 1932)	STA	100		2 L		a	6	•	M	_		
TOWER	square, bull oriek at-90(145)	ARE	ा १७	520.6	71 16	393.9	æ	•	#.	M			=
	ciura tower, 1944)											l.	1
TANK	ECUEL, CAUGE BUTTOL DE	SOS	०५ म	<del>                                     </del>	91 U		æ	Photo.	8/111/8	M		=	
TANK	steel, water bt 118(123) #8395	Kali	क्ष ए	Щ.	9T U	1_	6	=	E	M	~	278	1
TOHER	steel, ht-285(265)( A Mt. Hope Bridge North Tower, 1932) Asses	HOP	क्र क	28.692	71 15	33.613	.=	Triang.	Triang 5/16/56	×	2	278	
TOWER	Steel, nt-205(205)(Ant. Hope Hope South Tower, 1932)	SS.	9E 17		n 15	┝╍╌┵		=	e	M	2	278	
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COMM-DC 28356 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

Form 567 April 1945

Form 567 April 1945

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

# NONFLOATING AIDS DRALLANDMANARS FOR CHARTS

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Baltimore, Maryland

I recommend that the following objects which have (1666 1660) been inspected from seaward to determine their value as landmarks be charted on 1964 1964 the charts indicated.

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

278, 353, 1210 27810353 CHARTS AFFECTED Chief of Party. 21 OFFENDRE CHART INSHORE CHART 14 NYKBOK CHYKL M William F. Dears LOCATION DATE 1927 1956 £ • T-10490 LOCATION AND BURVEY No. Triang Triang Photo. Photo. N.A. 1927 DATUM = 12.252 283.5 25.187 589.9 37.63 871 13.6 1009 LONGITUDE \* 18 2 POSITION C R 10.21 13.126 13.126 57.8 56.082 1730.2 1783 : LATHTUDE\* 器 33 33 0 크 크 4 크 BIGNAL PA PA SEL CAS HOL Hog Island Shoal Lighthouse, 1913 Castle Hog Island Shoal Light ( 🛆 Castle Island Light ( A Island Light, 1956) Musselbed Shoals Light Bristol Harbor Light DESCRIPTION RHODE ISLAND CHARTING STATE 텀 뛈 H H

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 This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

Comm-DC 28356

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. \_

T-10490

### 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 Charte" in the Revi

CHART	DATE	CARTOGRAPHER	REMARKS
236	7/9/68	A Hogon	Full Part Before After Verification Review Inspection Signed Via
		0	Drawing No. 35 No Con
			Consider fully applied until reconstruction . a 4
278	8-15-69	O. Chapman	Full Prore After Verification Review Inspection Signed Via
			Drawing No. 25 Revised topo
			100000000000000000000000000000000000000
353	12-16-70	H. Danley	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
500	0 (5.0)	w. Chala	Full Deep Professor Africa V. (C
278	2-17-73	W. Charles	Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Diawing No.
757	6-18-23	W. Cla De	Full Part Before After Verification Review Inspection Signed Via
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