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6908b
6908a
6908b

Diag. Cht. No. 1210-2

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

6908

Field No. Office No. ~~6941~~ a and b

LOCALITY

State RHODE ISLAND

General locality Narragansett Bay

Locality East Passage

194³

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE January 6, 1944

Applied to Cht. 1210	1/26/44	G.R.
Partially " " " 236	1/26/44	G.R.
" " " " 353	3/29/44	G.R.
F-6908 A partially applied " " 262	7/13/44	H72
	9/2/44	L.A.M.
Applied in full to chart 262.		
Completely applied (after review) to chart 236-10/19/44-		J.W.
	3/10/45	J.W.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
70908

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. -----

REGISTER NO. ⁶⁹⁰⁸ 6841 a and b

State ----- RHODE ISLAND -----

General locality ----- Narragansett Bay -----

Locality ----- East Passage -----

Scale 1 to 10,000 Date of survey July - August 1943 19

Vessel ----- Motor Vessel COWIE -----

Chief of party ----- Benjamin H. Rigg -----

Surveyed by ----- Arnold Friedlander -----

Inked by ----- William B. Page -----

Heights in feet above ~~M.H.W.~~ ----- to ground to tops of trees

Contour, Approximate contour, Form line interval ----- feet

Instructions dated March 15 and 26 . 1943 , 19

Remarks: This sheet is for Graphical Control and revision.

INSTRUCTIONS: This survey was conducted in accordance with instructions dated March 15, 1943, and supplemented March 26, 1943 for project CS 304.

METHODS: These sheets are graphic control sheets and no attempt was made to make a completed topographic survey of the area. Standard methods of topographic survey were employed. All topographic signals, aids to navigation, and rafts along the torpedo range, and certain of the offshore features such as points on docks, were located by three or more intersecting cuts. Offshore features and shoreline were located by rod shots. The shoreline was run in places where noticeable changes had occurred, as well as at other setups where time permitted.

REVISIONS: Changes in the shoreline of Dyer Island, Carr Point, and the southeast end of Prudence Island were noted, and the shore line was run in.

LANDMARKS FOR CHARTS: Landmarks for charts in this area have been submitted on form 567.

RANGES: The azimuth of the Melville Range for the channel to the east of Dyer Island was determined by a plane table position 78 meters northwest of station GOULD ISLAND 1843. Its value is $42^{\circ} - 41'$ true. ^{compared with actual true value of 42°} The position of MELVILLE RANGE FRONT and REAR LIGHTS as located by plane table cuts do not agree with the positions as given by triangulation. It is believed that these range objects have been rebuilt and moved. The front range pole is now a black pole with a white slat triangle at the base, and the rear range object is now a black pole with an inverted white triangle at the top. The new positions of these objects have been submitted on form 567.

MAGNETIC MERIDIAN: The magnetic variation as determined at station PINE HILL 1843 on July 31, 1943 at 1000 was $15^{\circ} - 15'$ West.

The magnetic variation as determined at station RAPOSO 1932, on August 3, 1943, at 1500, was $17^{\circ} - 14'$ West. The discrepancy between the values at these two stations may be a result of local attraction caused by the many buildings of the Naval Torpedo Station surrounding station RAPOSO.

The discrepancy between the value of $15^{\circ} - 15'$ West at PINE HILL 1843, and the charted value of $14^{\circ} - 30'$ West may in part be the index error of the declinatoire (number 186). No information at the time was available on the magnetic variation at any of the stations, therefore the index error of the declinatoire could not be determined.

TORPEDO RANGE: This range extends north of the firing pier at the north end of Gould Island and has been established to test torpedoes. Rafts have been anchored at intervals along the range from which the torpedoes are timed. The first raft is 20 meters wide (East to west) and 10 meters long (north and south), all the others are 10 meters each way.

Respectfully submitted,

Arnold Friedlander
Arnold Friedlander
Ensign, USC&GS

Approved by

Bernard H. Rigg
Bernard H. Rigg
Lieut. Comdr. USC&GS
Chief of Party

FEATURES OUTSIDE HIGHWATER LINE:

⁶⁹⁰⁸
SHEET 6841a

CON..... Radar mast CONFIDENTIAL
COR..... Southwest corner of dock
FIT..... Flagpole top of building at end of
torpedo firing pier.
PIP..... Light mast, N'ly of two on dock
SOW..... Southeast corner of dock.
TOT..... South edge of sign on face of dock
WAY..... HALFWAY ROCK BEACON

⁶⁹⁰⁸
SHEET 6841b

SAM..... Center of rock ledge exposed at high water
RIG..... High point boulder center of small rocky island

The mile trial course markers on
Cannonicut Id. apparently have
been abandoned and should therefore
be deleted from the nautical chart.

Halfway Rock Bn. was occupied
and its position is undoubtedly
correct. The position shown on
the chart which does not agree
with the position on the topographic
sheet is in error.

Arnold Friedlander
Lieut. Jg. USN & L.
Aug. 31, 1944

U. S. GOVERNMENT PRINTING OFFICE 50077-1

LANDMARKS FOR CHARTS

STRIKE OUT ONE

New York City, N.Y.

Sept. 27, 1943

TO BE CHARTED }
TO BE DELETED }

I recommend that the following objects which have (have not) 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.

Benjamin H. Riggs

Chief of Party.

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE		DATUM							
		O	I	D. M. METERS	O		I						
Narragansett Bay	SILO, (red) ((@ Fin)	41	34	630 ⁴	71	17	238	NA 1927 Topogr.	1943	X	X	X	1210 353 236 12/10
	CHIMNEY-(NORTHERLY OF TWO) ((@ Nar)	41	33	629	71	18	430	"	"	X	X	X	"
	SILO, (white) ((@ Sil)	41	34	163	71	17	644	"	"	X	X	X	"
	TANK, ELEVATED ((@ Pat) (Cap)	41	36	387	71	21	1313	"	"	X	X	X	1210 353 12/10
	CUPOLA, (SOUTHWESTERLY OF TOWER) ((@ Cap) (Cap)	41	36	355	71	20	62	"	"	X	X	X	"
Same as Letter 680 (43)													
Scales by W.B.P. A.P.													

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.

Remarks

Decisions

1		
2		415713 0.3.6.8
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GEOGRAPHIC NAMES

Survey No. **TC908**

Name on Survey	On Chart No.							On previous survey No.		On U. S. quadrangle Maps		From local information		On local Maps		P. O. Guide or Map		Rand McNally Atlas		U. S. Light List	
	A	B	C	D	E	F	G	H	K												
<u>Rhode Island</u>																					1
<u>Narragansett Bay</u>																					2
<u>East Passage</u>																					3
<u>Aquidneck I.</u>																					4
<u>Prudence I.</u>																					5
<u>Dyer I.</u>																					6
<u>Gould I.</u>																					7
<u>Conanicut I.</u>																					8
<u>East Passage</u>																					9
<u>Hope I.</u>																					10
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Names underlined in red approved
by L. Heck on 2/26/44

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H

No. T

6908

received
registered
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
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RETURN TO

82	R. W. Knox
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V. R. R. R.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6908a&b

Rhode Island, Narragansett Bay, East Passage
Surveyed July - August 1943, Scale 1:10,000
Instructions dated March 15-26, 1943

Plane Table Survey

Aluminum Mounted

Chief of Party - B. H. Rigg
Surveyed by - A. Friedlander
Inked by - W. B. Page
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, July 17, 1944

1. Adjoining Surveys

There are no contemporary adjoining surveys.

2. Prior Surveys

T- 897 (1861) 1:10,000
T- 912 (1868) 1:10,000
T-1054 (1868) 1:10,000
T-1119 (1869) 1:10,000
T-1162 (1870) 1:10,000

Only segments of shoreline differing from the charted topography were located on the present survey. Natural changes of 30 - 40 meters have occurred on the south end of Dyer Island and in Lat. $41^{\circ}34.3'$, Long. $71^{\circ}17.5'$. Other changes are largely man-made improvements. The present survey position of the small island in Lat. $41^{\circ}36.47'$, Long. $71^{\circ}21.7'$ charted from T-912 (1868) differs slightly with the position from that survey. Within the common area the changes shown on the present survey should supersede these prior surveys.

3. Comparison with Chart 236 (latest print date 3-24-44)
262 (latest print date 11-16-43)

The present survey has been only partially applied to the charted topography which originates largely with the previously discussed surveys. The azimuths of the ranges used in the Naval Trial Course on Conanicut Island differ by approximately 4° and fail to give a measured mile except between the markers themselves. The charted positions of the rear range markers are not in good agreement with the computed positions.

4. Condition of Survey

Satisfactory except that it is not complete with respect to certain desirable information regarding the nature of the numerous ranges on Conanicut Id. The fact that the markers of the Naval Trial Course were not used as hydrographic signals might indicate that the course was no longer in use but no information regarding the course was given in the descriptive report. The present light on Conanicut Point has not been located by triangulation nor was it located on the present survey.

5. Compliance with Instructions for the Project

Satisfactory.

6. Additional Field Work Recommended


None.

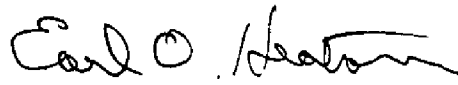
7. Superseded Surveys


T- 897 (1861)	in part
T- 912 (1868)	" "
T-1054 (1868)	" "
T-1119 (1869)	" "
T-1162 (1870)	" "

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys