7029 WIRE DRAG

Diag'd. on Diag. Ch. No. 1210-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

(Shoal and Wreck
Type of Survey WIRE DRAG Investigations)

Field No. WA-HI-2248 Office No. H-7029 W.D.

LOCALITY

State Rhode Island

General locality Narragansett Bay

Locality Vicinity of Brenton Reef and Point
Judith

1948

CHIEF OF PARTY

W.F. Walnate

LIBRARY & ARCHIVES

DATE January 7, 1949

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-7029 WD

Field No. Wa-Hi 2248

State RHODE ISLAND	
General locality NARRAGANSETT BAY	
	NTON REEF AND POINT JUDITH
Scale 1:20,000	Date of survey May-June 1948
Instructions dated 12 Feb. & 24 Mar.	1948
Vessel WAINWRIGHT AND HILGARD	
Chief of party W.F. MALNATE	
Surveyed by W.F. MALNATE	
Soundings taken by fathometer, graphic rec	corder, Kana lead, wire
Fathograms scaled by J.H.S.	······································
Fathograms checked by W.F.W.	
Protracted by W.W. FEAZEL Drag strips inked	
Soundhage penched by W.W. FEAZEL	
Soundings in Katheria feet at 1	MLW WAXXXX
Remarks:	

DESCRIPTIVE REPORT TO ACCOMPANY

WIRE DRAG SURVEY #17029 (FIELD NO. WAHI-2248)

SPECIAL WIRE DRAG INVESTIGATION OFF BRENTON REEF

AND POINT JUDITH, RHODE ISLAND

MAY - JUNE 1948

SHIPS WAINWRIGHT & HILGARD W.F. MALNATE, CHIEF OF PARTY

PROJECT:

These investigations were made in accordance with special instructions dated 12 February 1948 & 24 March 1948.

Report of shoal on Marine Data form, from the Master . Mr. A.J. Beck, of the S/S PERRYVILLE dated 17 October 1947.

SURVEY LIMITS & DATES

- (1) To prove or disprove the existance of a reported 7 1/2 fathom shoal.
- (2) To wire drag over the two wrecks, wreck No. 760 and wreck of the SS BLACK POINT, with an effective depth of 55 feet.

Field work was started on 19 May and ended 7 June 1948.

Work covers a small section of wire drag sheet H-4006 (1917) WD.

One days hydro was done on this sheet, May 24, 1948, in the vicinity of a grounding on "B" day which fell in a large split area of wire drag survey registered No. 4006.

Progress of work was rather slow due to Fog and strong winds.

VESSELS & EQUIPMENT

Ship WAINWRIGHT was used as Guide Launch and Ship HILGARD was used as End Launch and Launch M-306 was used as tender.

Ship WAINWRIGHT was used on the hydrographic survey and investigation of groundings, using type 808 J Fathometer No. 63.

TIDES

The primary tide station maintained at Newport, Rhode Island was inspected by the Ship GILBERT prior to the beginning of field work in this area.

Tidal data was not immediately available for use so Actual tides used predicted tides were used for tide reducers in the field. on smooth sheet

SMOOTH SHEET

Smooth & A&D No smooth sheet is being prepared in the field. The sheets platted by Process of. drag strips with their effective depths have been plotted on Guide Launch boat sheet. The hydrography was run on the End Launch boat sheet and the soundings as obtained using predicted tides are plotted thereon.

CONTROL STATIONS

The control used was the previously located 2nd and 3rd order triangulation stations, Narragansett Bay as listed in the geographic position, form 28B furnished by the Washington office, and Tgeographic position of the Main Breakwater Center Light, Pt. Judith. Harbor of Refuge was established by the Ship GTLBERT: in 1948.

SURVEY METHODS

Wire drag standard dual control methods were used. The drag strips were controlled by three point fixes observed on fixed shore objects. Lift was determined by tests from the tender using a graduated rod coated with a mixture of white lead & tallow.

On 62 B day the drag grounded, it was first thought that the drag grounded on lobster pots. The drag parted before the ground could be investigated. Soundingsof 57 and 47 feet were obtained with type 808J fathometer while picking up the drag. The is 43 ft.-cleared next work day, hydrographic development was run to determined the by 42 ft drag. least depth.

Least dette from hydrodevelopment

The End launch reported that on position 8 B the ship was pulled in for some unknown reason, so the area in the vicinity of ~ 8B was recovered on "C" day to make certain no shoal existed.

On "E" day the tender was in the repair shop at Fort Adams so the grounding on the wreck SS BLACK POINT was investigated by the Ship WAINWRIGHT using the 808 fathometer, while picking up the drag.

Special effort was made to cover the large split area covered by present left on Wire Drag Survey H 4006. This split is shown on the survey.

RECORDS

Wire drag standard records were kept. The diagrams have Actual tides been drawn in the books and the effective depth to the nearest by Process Off. foot intered. Predicted tides were used for tide reducers.

ECHO SOUNDING: Standard hydrographic methods were used. The fathogram was scanned at the end of the day to check the recorded soundings.

Bar checks were taken at the begining and ending of the sounding day and the corrections were entered in the sounding volume.

Predicted tides were used for tide reducers. Recess Off:

RECOMMENDATIONS

It is recommended that:

(1) The shoal as reported by the SS PERRYVILLE in drag clearly forth, Latitude 41°24' horth, Langitude 71°20.5' west be deleted fr. from the chart.

- (2) The wreck No. 760, in Latitude 41°24'30" north, Longitude 71°22'30" west be shown as cleared with Wire drag, effective depth 5% feet. 44
- (3) The wreck SS BLACK POINT, in Latitude 41°19'46" north, Longitude 71°25'47" west be charted as 46 feet and cleared with Wire drag at 45 feet effective depth. 74
 - (4) The 44 foot sounding in Latitude 41°25.39 north, 43 ft. feets effort with effective depth of 42 feet. 7
 - (5) The front sounding, in Latitude 41°25.25 north, See note (4)

 Ao Longitude 71°21 12 West, be charted. This shoal was cleared

 with effective depth of 42 feet.

 No Cor on Ch 70 155
 - (6) The 60 foot curve, as determined by the hydrography on 24 May 1948 be shown on USC&GS charts Nos. 1210 and 353.

Respectfully submitted

Walter J/Chovan Lt. Comdr. C&GS

Forwarded and approved

Comdg. WAINWRIGHT & HILGARD

STATISTICS FOR WIRE DRAG SURVEY WAHI 2248

WIRE DRAG

Date 19 May	Day A	Positions 118	Stat. Miles 7.7	Sdgs.
20 May	В	124	8.3	2
2 June	С	96	5.1	
3 June	D	60	2.9	
4 June	E	84	5.2	2
7 June		40 FOTAL 522 2.6 Sq. Stat. Miles	3.0	4

HYDROGRAPHY

Date	Day	Positions	Stat. Miles
5 May	С	74	14.1

Area 0.25 Sq. Stat. Miles

TIDE NOTE

Heights are referred directly to mean low water and are based on observed tides at Newport R.I. modified for necessary times and range differences. Tidal corrections were entered in records corrected to 60th meridian time.

DST

H.7029

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON 25

IN REPLY ADDRESS THE DIRECTOR
U, S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER
AND REFER TO NO. 36-timo

.8 July 1948

To:

Supervisor, Southeastern District U. S. Coast and Geodetic Survey Room 418, U. S. Post Office Building Norfolk 10, Virginia

Subject:

Tide Data, Rhode Island

Enclosed for the periods requested in your letter of.

23 June 1948 are tidal hourly heights for the reduction of soundings off Narragansett Bay. Heights are referred directly to mean low water and are based on observed tides at Newport modified for necessary time and range differences.

Acting Director

Enclosure

* Hourly Heights filed with fathograms

LIST OF SIGNALS

H-7029

TOW - NEWPORT, ST. GEORGE'S TOWER, 1932-40

FLAG - JAMES ESTATE, FLAGPOIE, 1933

DAVIS - NEWPORT, DAVIS HOUSE, CUPOLA, 1912-35

HILL - CASTLE HILL, LIGHTHOUSE, 1897, 1940

TAIL - BEAVERTAIL LIGHTHOUSE, 1869, 1940

HAZ - HAZARD TOWER, 1940

TANK - PT. JUDITH TANK, 1940

JUD - PT. JUDITH LIGHTHOUSE, 1839, 1940

CEN - MAIN BREAKWATER, CENTER LIGHT 2, 1948 (Ship GILBERT Location)

Lat. 41° 21' 14.90" Long. 71° 30' 27.96" 459.8 m. 650.0 m.

ADDENDUM To Accompany

WIRE DRAG SURVEY H-7029 W.D. (Field No. Wa.Hi.-2248)

SOUNDINGS

Due to the lack of bar check corrections, detatched to tender sdas. for soundings were omitted from smooth shoot tender soundings were omitted from smooth sheet.

Hydrography done by Ship WAINWRIGHT on C day 5/24/48 was plotted on an overlay and submitted with the smooth sheet. (Overlay incorporated with D.R.)

Respectfully submitted,

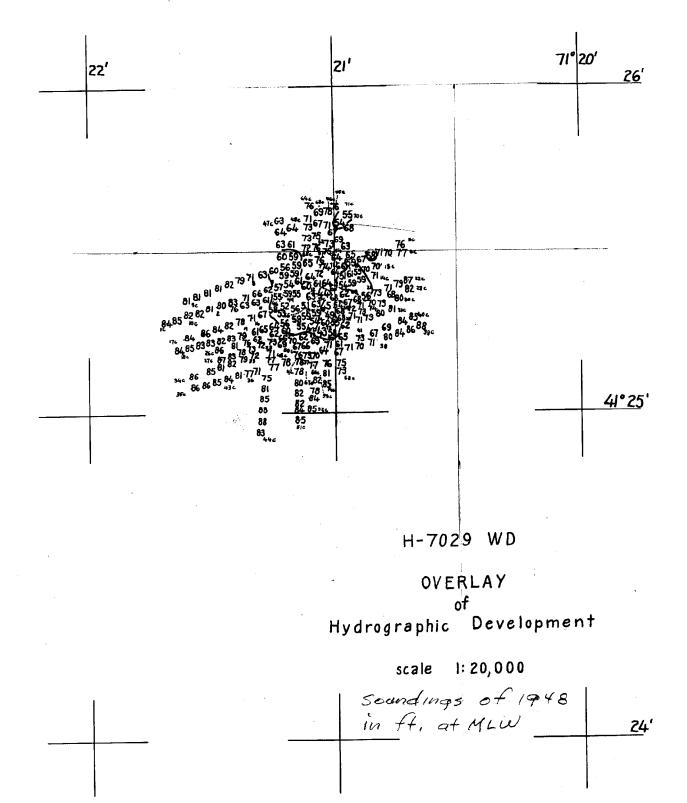
Hugh L. Proffitt Cartographer

Norfolk, Virginia May 25, 1949

Approved and forwarded.

Earl O. Heaton

Supervisor, SE Dist.



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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7029 W.D.

Records accompanying survey:		
Boat sheets; sounding vols; w	ire drag	; vols;
bomb vols; graphic recorder rolls Drag strip tracings,	l envel	· lav showing
special reports, etc. hydrography, 1 A &D		
	• • • • • • •	• • • • • • • • • • •
The following statistics will be submitted wi rapher's report on the sheet:	th the c	artog-
Number of positions on sheet		335
Number of positions checked		
Number of positions revised		
Number of soundings revised (refers to depth only)		
Number of soundings erroneously spaced		
Number of signals erroneously plotted or transferred		
Topographic details	Time	
Junctions	Time	6
Verification of soundings from graphic record	Time	
Verification by	.27	Date 25 Aug. 49
Reviewed by July askend Time	15	Dete 20 Jan. 150

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7029 W.D.

FIELD NO. WA-HI-2248

Rhode Island, Narragansett Bay, Vicinity of Brenton Reef and Pt. Judith

Surveyed in May - June, 1948

Scale 1:20,000

Project No.; Special Instructions dated 2/12/48 and 3/24/48

Wire Drag:

Control:

Leadline 808 Fathometer Sextant fixes on shore signals

Chief of Party - W.F. Malnate
Surveyed by - W.F. Malnate and W.J. Chovan
Protracted by - W.W. Feazel
Soundings plotted by - W.W. Feazel
Verified and inked by - L. V. Evans III
Reviewed by - I. M. Zeskind, January 19, 1950
Inspected by - R. H. Carstens

1. Shoreline and Control

The control for this survey originates with triangulation stations established from 1839 to 1948.

No shoreline is shown on this offshore survey.

2. Junctions with Wire Drag Surveys

No wire drag surveys adjoin the detached area covered on the present survey in the vicinity of lat. 41° 20', long. 71° 26'. Except for this area the present survey falls within the area covered by surveys H-4006 W.D. (1917) and H-4005 W.D. (1917-19). The A and D sheet for H-4006 W.D. was revised to include the effective drag depths of the present survey. No revision was made to the A and D sheet of survey H-4005 W.D., inasmuch as its effective drag depths within the common area are deeper than those of the present survey.

3. Comparison with Hydrographic Surveys

There are no contemporary hydrographic surveys by this Bureau in the area covered by the present survey.

A comparison between prior surveys H-6444 (1939) and H-1787 (1887) and the present survey reveals no conflict between prior depths and the effective wire-drag depths.

4. Comparison with Chart 1210 (Latest print date 8/1/49)

a. Hydrography

There are no conflicts between charted depths and the effective depths of the present survey.

b. Aids to Navigation

No aids to navigation were located on the present survey.

5. Condition of Survey

- a. The Descriptive Report and sounding records are complete and comprehensive.
- b. The smooth plotting of the survey was well done.
- c. The attention to detail in the execution of this survey was good. Adequate lift tests were made. There are no splits and only one area of insufficient overlap.

6. Compliance with the Project Instructions

The survey adequately complies with the Project Instructions.

7. Additional Field Work Recommended

This is an excellent survey and adequately serves the purpose intended.

'H'. R. Edmonston Chief, Nautical Chart Branch

K. G. Grosby Chief, Section of Hydrography

tes Chief Division of Charts

Examined and approved;

W. M. Scaife Chief, Division of Coastal Surveys FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
REV. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 15, 1949

Division of Hydrography and Topography:

Division of Charts: R. H. Carstens

Plane of reference approved in 6 volumes of sounding records for

HYDROGRAPHIC SHEET 7029

Locality Narragansett Bay, Rhode Island

Chief of Party: W. F. Malnate in 1948
Plane of reference is mean low water, reading
1.4 ft. on tide staff at Newport
36.0 ft. below B. M. 1 (1930)

Height of mean high water above plane of reference is 3.5 feet.

Condition of records satisfactory except as noted below:

E.C.Mc Kay

Section

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 756675

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7029. W.D.

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/22/49	236	4.7. Stegman	Before Werification and Review correction to
/ /			chart 236.
6-27-49	1210	Madros	Before Atter Verification and Review fartially
			applied
			Before After Verification and Review
9/14/49	353	1/7 Stegman	Before After Verification and Review Partially applied-
		,,,	(Complete except for possible changes noted in veriew)
11-7-49	1108	mellasson	Before After Verification and Review Open from CP Growing 1210 dated 7-5-49
11/1/50	70	Straw-Walley	Refuse After Verification and Review Completely applied direct from 4702940R.
1/16/51	353	Modann	Belove After) Verification and Review
. , ,			Completely applied. To reconstruction
3/9/51	236	y Walker	Before After Verification and Review
			Completely applied - no correction
7/9/51	1210	Thalker	After Verification and Review Completely
8-13-51	1108	J. HEaton	Batter Verification and Review
6/28/52	N.C.#248	McAlindea	After Ver. & Leview - No correction
10/27/41	1210 Recon	m. Rogers	After ver + review - Complete
415195	/322 (extension)	John Barter	After ver. 4 review - Exam. no corrs,
	1	L	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.