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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey . WIRE DRAG

Field No. 1044 Office No. H-6977 W.D.

LOCALITY

State Maine

General locality Casco Bay

Locality Approaches to New Meadows River

194 3-144

CHIEF OF PARTY

L. C. Johnson & J. H. Brittain

LIBRARY & ARCHIVES

DATE Sept. 21, 1945

B-1870-1 (1)

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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.

Field No. 1044

REGISTER NO. H-6977 W.D.

StateMaine
Casco Bay
Approgenis To New Meddows River
Locality Casco Bay (Eastern Part) Aug. 1943
Scale 1/10,000 Date of survey May to July 1944
Vessel WAINWRIGHT, HILGARD and MARINDIN
Chief of Party L. C. Johnsen and John H. Brittain
Surveyed by L. C. Johnson and John H. ?Brittain
Protracted by R.J. Auld
Soundings penciled by R.J A uld
Soundings in fathoms feet MLW.
Plane of reference
Subdivision of wire dragged areas by
Inked by
Verified by
March 11, 1944 Instructions dated March 11, 1942, March 16, 1943, 19
Remarks: This sheat was processed in the Hydrographic Section,
Southeastern District, Norfolk, Va.

U. S. GOVERNMENT PRINTING OFFICE

### DESCRIPTIVE REPORT

### to accompany

### WIRE DRAG SURVEY FIELD NO. 1044

H.- 6977

### AUTHORITY:

This wire drag survey was executed under Supplemental , Instructions, Project CS-265, dated March 11, 1942, March 16, 1943, and March 11, 1944.

### DATE OF SURVEY:

The field work on this survey was done on August 17 and August 19, 1943, and between May 25 and July 19, 1944.

### SCOPE AND JUNCTIONS:

The extension of wire drag surveys in the Eastern part of Casco Bay between Fuller Rock on the east, Ragged Island on the west, from Cow Ibland on the south to the vicinity of Cundy Harbor in the New Meadows River on the north. Quohog Bay and Small Point Harbor were included.

A Junction was made with whre drag Survey H-6674 on the south and with wire drag Survey H-6783 in the area covered by H-6922 (MH) this Survey. A Junction was made with the 1943 wire drag Survey

Field No. 1001, on the west and with 1144, on the North in New Meadows River. Several splits were dragged near the junctions with Surveys H-6674 and H-6783.

### CONTROL:

Existing triangulation and graphic control executed by the LYDONIA in 1942 furnished the necessary control. Additional signals were located by sextant cuts in the vicinity of Small Point.

### SURVEY METHODS:

The 1944 wire drag was done with the WAINWRIGHT as guide launch and the HIIGARD as end launch. Launch 101 was used for a tender. The two days work in 1943 was done with the HIIGARD as guide launch, the MARINDIN as end launch, and Launch 101 as a tender.

Standard dual control methods were used. The drag strips were controlled by three point fixes on shore signals. Lift was determined on each section of the drag by tests from the tender, using a graduated rod coated with a mixture of white laad and tallow, and suspended from a float by means of a graduated wire.

### DESCRIPTIVE REPORT

Wire Drag Survey Field No. 1044

COMPARISON WITH HYDROGRAPHY:

Shoal soundings determined on the hydrographic Surveys were transferred from copies of those surveys to the boat sheets. In general these shoals were cleared by an effective depth of 2 to 3 feet.

In the following listed instances shoaler depths were

found:

v1. Latitude 43.45. Longitude 69 55. grounded at effective depth of 11.5 feet, cleared at 10 feet effect-

ive depth. Hydrography shows 15 feet. 68'. 2. Latitude 43 46.13 Longitude 69.54.7, grounded at effective depth of 16 feet, cleared at 11.5 feet effective depth. Hydrography shows 18 feet. (141-ft.sdq.atpos.2p)

see last P 3. Latitude 43 42.72 Longitude 69 53.05 grounded at 20 feet, / 20. notes | cleared at 18 feet. Least death as London at 20 feet, / cleared at 18 feet. Least depth on hydrography is 22 feet.

14ft. sdq. plotted on smooth sheet

. Latitude 43 45.80 Longitude 69 53.218 grounded at 16.8/17ft. 149. c/caref ft; hand lead sounding of 17 ft. obtained. Cleared at 15.5 ft. Hydrography shows least depth of 18% ft.

15.5 ft. Hydrography shows least depth of 18% ft.

15.5 ft. Hydrography shows least depth of 18% ft.

ft., sounding of 15 ft. obtained. This was cleared with an effective depth of 12 ft. Hydrography shows least depth of 17 ft.

H-6806(1942) In Latitude 43-44.2 Longitude 69-54.05 the hydrographic survey shows a least depth of ft. This shoal was covered with the wire drag at effective depth of 17. feet, 19. ft., 19.0 ft., and 17.0 feet. The drag grounded on the 19 feet depth and then slipped over before a hand lead sounding could be obtained. There was no indication of grounding on the other strips. It is possible if it was the that the grounding indication was due to kelp rather than an actual grounding. However, it is recommended that the effective depth of clearance be taken as 17.5 feet.

TIDES:

Hourly heights taken from the standard gage at Portland, Maine were used in the reduction of effective depths to mean low water. These tides were used without time on range corrections.

L. C. Johnson

John H. Brittain

### STATISTICS

for WIRE DRAG SURVEY FIELD NO. 1044

16944

Date	Day Letter	Positions	No. Soundings	Statute Mi. Drag
May 25	<b>A.</b> .?	38	0	4.2
May 31	В	34	0	4.8
June 1	C	52	0	6.1
June 2	D	39	0	5.5
June 8	E	24	0	3.2
June 9	F	48	0	6.0
June 14	G	43	0	6.1
June 26	H	9	0	0.7
June 27	J	45	. 0	4.9
June 28	K	47	0	6.7
June 30	L	26	1	3.7
July 3	M	49	0	7.7
July 4	N	11	0	2.4
July 6	P	34	1	4.7
July 7	Q	28	4	3.4
July 17	R	35	1	4.6
July 18	S T	53	1 4 1 1 0	5.9
July 19	T	25	O ,	2.9
			*:	
		1943	·	
Aug. 19	A	62	4	3 <b>.</b> 8 ·
Aug. 27	В	9	Ó	0.7
	,			40.0
TOTAL		721	12	88.0

Sq. Sta. Mi. Drag - 14.3

### ADDENDUM

### to accompany

WIRE DRAG SHEET NO. H-6997 (Field No. 1044)

Drag Strip 12 to 19 P (red); Latitude 43° 45.5' to 46.2" and Longitude 69° 54.81.

The records show a lift of 6.5 ft. for this wire drag strip. Since this was considered excessive, it was deemed advisable to show this wire drag strip in pencil, until final disposition of this strip could be determined after verification by the Washington Office.

14 ft. soundings, 3 - 4 p (red); Latitude 43° 46.10' and Longitude 69° 54.85'.

These soundings fall in an area covered by 3 drag strips which have effective depths of 24 to 25 ft.

28½ ft. Grounding; Latitude 43° 42.85° and Longitude 69° 53.00°.
This 28½ ft. grounding is cleared by a drag strip whose effective depth is 34 ft. It is believed this  $28\frac{1}{2}$  ft. grounding is part of the same shoal as the 34 ft. grounding which is located about 150 meters southward.

Page 2 this descriptive report, Comparison with Hydrography, item No. 3.

In addition to clearing this shoal with an 18 ft. depth, drag 18ff. clearan strip 29 to 30 K (red) apparently clears at 20 ft.

A&D 34007

Respectfully submitted.

Cartographic Engineer

Norfolk, Virginia Sept. 19, 1945

Approved & Forwarded

Paul C. Whitney

Supervisor SE District

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
ROY. June 1937

### TIDE NOTE FOR HYDROGRAPHIC SHEET

5 December 1945

Division of Hydrography and Topography:

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in drag 13 volumes of sounding/records for

HYDROGRAPHIC SHEET 6977

Locality Casco Bay (Eastern Part), Coast of Maine

Chief of Party: L. C. Johnson and John H. Brittain in 1943 and 1944 Plane of reference is mean low water, reading 8.6 ft. on tide staff at Portland 19.0 ft. below B. M. 31

Height of mean high water above plane of reference is 8.9 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 15422

IRF DRAG SURVEY		Chor.	AO OF	S. Moda	indrosis	Or local way	Q. O. Gride of	Mag Herally	N.S. Jake J.	
- Name on Survey	A	/ B	/ c	D	/ E	F	G	/ H	/ K	
New Meadows River	<u> </u>	-							UbicB	1
Quehog Bay		ļ	ļ					(1948	U86 B	2
Ridley Cove			ļ				-			3
Bear I.			ļ				-			4
Harbor I.									USINB	5
Wood I.										6
Small Pt. Harbor										7
East Brown Cow										8
Cape Small										9
Ragged I:										10
Casco Bay			Cfor	1:116	)				USOB	11
Maine				1.						12
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# Surveys Section (Chart Division) WHEN DRAG SHRVEY. HYDROGRAPHIC SURVEY NO. . #6977

Records accompanying survey:
Boat sheets .1; sounding vols3.; wire drag vols.13;
bomb vols; graphic recorder rolls;
special reports, etcl.A.& D. Sheet
· · · · · · · · · · · · · · · · · · ·
The following statistics will be submitted with the cartog- rapher's report on the sheet:
Number of positions on sheet 1454.
Number of positions checked
Number of positions revised .22
Number of soundings recorded ./2
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 .24
Verification of soundings from graphic record Time
Verification of critical infor. only (2.A.O insmore) 28 hrs. 26h. 48  Verification by f. Warre Total time 155 Date 7.0ct. 1949
Review by Meskend. Time 47. Date 190.17.50

### DIVISION OF CHARTS

### REVIEW SECTION - NAUTICAL CHART BRANCH

### REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-6977 W.D.

FIELD NO. 1044

Maine, Casco Bay, Approaches to New Meadows R. Scale 1:10.000 Surveyed in Aug. 1943, May-July, 1944 Project No. CS-265

Wire Drag:

Control:

Soundings by leadline Sextant fixes on shore signals

Chief of Party - L.C. Johnson and J.H. Brittain Surveyed by - L.C. Johnson and J.H. Brittain Protracted by - R.J. Auld Soundings plotted by - R.J. Auld Verified and inked by - L. V. Evans III Reviewed by - I. M. Zeskind, January 17, 1950 Inspected by - R. H. Carstens

### 1. Shoreline and Control

The shoreline for this survey originated with air photographic surveys T-5969, T-5970, T-5971 and T-5972 of 1942.

The control for this survey originates with triangulation stations of 1933 to 1941 and with graphic control surveys T-6912b, T-6928b and T-6929b of 1942. Supplementary hydrographic signals originate with sextant fixes recorded in Vol. 2, Smooth Tender Record, of the present survey.

### Junctions with Wire Drag Surveys 2.

Adequate junctions were effected with H-6978 W.D. (1944) on the north, H-6922 W.D. (1945) on the west, H-6674 W.D. (1941) on the south and H-6783 W.D. (1942) on the southwest. South of lat. 43° 45°, the present survey overlaps a large portion of H-6783 W.D. Effective depths of both surveys have been combined in making the A and D sheet of the area of the present survey.

### 3. Comparison with Hydrographic Surveys

The effective depths of this wire-drag survey do not conflict with depths on hydrographic survey H-6805 (1942), H-6806 (1942) and H-6810 (1942). Minor conflicts with these hydrographic surveys were disposed of during verification.

The soundings, groundings and bottom characteristics obtained on the present survey have been transferred to the hydrographic surveys.

### 4. Comparison with Chart 315 (Latest print date 10/11/48)

### a. Hydrography

The charted hydrography originates with the previously discussed surveys which need no further consideration, and with the present survey prior to verification and review.

The following differences between the chart and the present wire-drag survey are noted:

- (1) The 15-ft. clearance depth charted in lat. 43° / 45.86', long. 69° 53.20' is shown to be cleared by a depth of only 12 ft. on the present survey.
- (2) The 42-ft. grounding shown on the present survey in lat. 43° 44.99', long. 69° 52.40' is not charted.

### b. Aids to Navigation

No floating aids to navigation are shown 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, except as noted in paragraph c below.
- c. The effective drag depth, soundings and groundings were originally plotted on the smooth and A and D sheet in half feet. The A and D sheet was revised in the Washington Office to show these depths in whole feet. The half-foot depth units on the smooth sheet were not changed.

### H-6977 W.D. (1943-44)-3-

- d. The attention to detail in the execution of this survey was adequate. However, in a few instances grounding notes were not clear. Soundings were obtained at most groundings and adequate lift tests were made. Except for the unimportant split in lat. 43° 33.47', long. 69° 55.40', there are no splits or insufficient overlaps within the area of the survey.
- 6. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

7. Additional Field Work Recommended

No additional field work is recommended.

Examined and approved:

Chief, Nautical Chart Branch

Chief, Section of Hydrography

Chief, Division of Coastal Surveys

## NAUTICAL CHARTS BRANCH

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## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11/9/45	01d 315	gwalfer	Before After Verification and Review Critical sounding
		0	listed in this report applied to old 315 for tide over
3/5/46	1204	g. K. Emminia	Before After Verification and Review Citical sounding
		0 (	listed in this regard applied to 1204 (partially applied
3-26-46	314	3. m. albert	Before After Verification and Review Examined but my
6/24/46	Reconst	27.1.0	
6/24/46	315	of Walker	Before After Verification and Review Partially (Critical soundings listed in this report only)
9/16/46	Reconst	Walker	Before After Verification and Review Partially
7//6/ 70	314	y water	then chest 315
2/3/48	314	HELLIACEUM	Before After Verification and Review One verified sounding added vicinity of E. Brown Cow.
7-7-1			sounding added vicinity of E. Brown Cow,
7-9-51	1204	Malros	Before After Verification and Review
4-21-52	3/5	OR. Wittman	-Before After Verification and Review Completely
		1011-	
10/8/53	314	SAE	Basone After Verification and Review
0.4.02	<b>.</b>		Besore After Verification and Review
July 1958	3/5	L.A.M.	Beste After Verification and Review
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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.