6922Additional work WIRE DRAG

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Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey Wire Drag
Field NoOffice No. H-6922 Add 1 W
LOCALITY
State Maine
General locality Casco Bay
Locality East of Bailey Island
194 5
CHIEF OF PARTY
G. L. Anderson, I. E. Rittenburg
LIBRARY & ARCHIVES
DATE

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-6922 Add'1.Wk. W. D.

Field No.

State Maine				
Locality	East of Bail	ey Island		
Scale1:10,000	*****	Date	of survey Aug. 9,	. 1945
Instructions dated	July 20, 194	,5		
VesselHilgard	k.Wainwright			
Chief of party G	. L. Anderson,	I.E. Rit	tenburg	
Surveyed by		·		
Soundings taken b	y fathometer, g	raphic recorde	r, hand lead, wire	
Protracted by G:	F. Jordan			
Soundings in	KNXXXX <u>feet</u>	at MLW	WXXXXV	
REMARKS: Plo Ho	ed on H-6922	(1943) W.D.		
hoat	Sheet H-6671	used in fie	ld	

		~		
,		~		

U. S. GOVERNMENT PRINTING OFFICE 428975

This DD affilis to H-6922WD > 4d W/c H-6922WD > 19U) + FE.No.647 (1945)

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY NORTHEASTERN DISTRICT HEADQUARTERS TENTH FLOOR, CUSTOM HOUSE

RVEY AND DATE OF THIS LETTER
RTERS

IN YOUR REPLY REFER TO

FILE

BOSTON, 9, MASS.

August 17, 1945

To:

The Director

U.S. Coast and Geodetic Survey

Washington 25. D.C.

From:

C.O. HILGARD & WAINWRIGHT

Subject:

Report on Wire Drag Investigations, Maine.

Reference:

Your letter dated 20 July, 1945 same subject, number 22/MEK - 1975 Bo 4 and addressed to the Supervisor, N.E. District, Boston 9, Mass.

In accordance with instructions contained in the second paragraph of above reference, work was discontinued in the Boston area and these vessels proceeded to Maine on 30 July, 1945 and arrived in Portland Maine that evening. The lean of a tender was secured from the Army and the Commanding Officer of the LYDONIA was contacted for information and control data.

On l August these vessels sailed from Portland and wire dragged in the vicinity of Toms Rock in accordance with paragraphs 4 and 5 of above reference and then proceeded Eastward. On 6 August the investigation of Three Fathom Ledge was made in accordance with paragraph 2. Compliance with paragraph 3, Rockland Trial Course, was made on 7 and 8 August while the drag work in Casco Bay, East of Bailey Id in compliance with paragraph 6 was done on 9 August.

The records for the entire project are contained in one wire drag volume and are lettered as follows,

"A" day, 1 Aug., vicinity of Toma Rock, Me sheet number W. D.

6671, furnished by office. (H-6830 Add-WK)

"B" day, 6 Aug., Three Fathom Ledge, work done on chart 225.
"C" day, 7 Aug., "D" day 8 Aug., Rockland Trial Course, work done on chart 310. (FENO.6&7)

"E" day, 9 Aug., Casco Bay E of Bailey Id, sheet number W.D.

6922, furnished by office.

For that work done on the charts, the signals and signal names are shown thereon. For that work done on the sheets furnished by the office signals and names were used as shown thereon. A list of signals used is attached to the wire drag volumes.

The final results for "A" day and "E" day cannot be given at this time since the actual tides from the Portland gage are not available. Preliminary results using preducted tides are as follows:

Sce Hote Next pag . "A" day vicinity of Toms Rock, sheet 6671, paragraphs 4 & 5 of original letter- the 38 ft sounding par. 4, was covered by 34\frac{1}{2} feet and an actual fathometer sdg. of, 38\frac{1}{2} ft. was obtained (fathogram attached). This dispreves the 26 ft sdg. in question and proves the 38 ft. sounding. Paragraph 5 - the 55 ft. sdg. was cleared by 51 ft and the 43 foot sdg. was cleared by 39 feet.

"E" day, Casco Bay, par. 6 of reference, sheet number 6922, the 16 ft sdg., the 14 ft. sdg., and the 34 foot sdg were all dispreved having been covered with drags of 21 feet, 18 ft and 37 feet respectively.

Reviewers Memily for location

"B" day, paragraph 2, Three Fathom Ledge. Final results. An actual fathometer sdg. reduced to 172 ft and M L W was obtained (fathogram attached). The drag hung at 17 and 17 feet but cleared at 16 feet. This work is shown on chart # 225. On the guide launch line - the northwesterly line - whenever Matinicus Rock L. H. was behind Seal Island, a very poor fix was all that could be obtained. In most cases another angle was observed simultaneously hoping that by means of this angle the locii of points would assist in the final position of the fix. Sufficient fixes using Matinicus Ed. L. H. were had to prove conclusively that Three Fathom Ledge was covered. Final results for "C" day, and "D" day, paragraph 3, Rockland Trial Course. This work is done on chart number 310. Natural charted objects such as Tanks, lights, targets and beacons were used throughout. All but Monroe Id. Light have been located by triangulation. The buoys on the trial course were removed by the U.S. Coast Guard so that no splits remain from this cause. A least depth of 49 feet was carried over the entire area dragged.

The portable automatic tide gage operated by the Ship LYDONIA at Matinicus Harbor, was used to obtain tide reducers for the work on Three Fathom Ledge and the Rockland Trial Course. The LYDONIA also operates a standard automatic gage at Rockland so that if desired, these tides can be used when received. The tide gage in operation nearest the work in Casco Bay and in the vicinity of Toms Rock is at Portland Maine. The records are not availabe at present. Rather than wait for these data, the record is being forwarded to your office where the tide reducers for A and E days can be entered and the effective depths diagrams can be drawn. The records are complete except for these entries on A and E days.

The results of the wire drag on Three Fathom Ledge using preducted tides was discussed with the Operations Officer, U.S. Navy, Portland.

George L Anderson

I. E. Rittenburg

itenling

NAUTICAL CHART BRANCH

REVIEW SECTION

Reviewer's Memoranda on H-6922 (1945) W.D., Add'l Wk.

This additional work complies satisfactorily with the instructions of July 20, 1945 and completes the additional work recommended in the reviews of H-6809 (1942-1943) and H-6922 (1943) W.D.

The following soundings are considered disproved and have been removed from H-6809 (1942-1943):

- 16 ft sounding at lat. 43° 44.07', long. 69° 59.0', cleared with 21-foot drag.
- 14 ft sounding at lat. 430 43.05, long. 690 57.66, cleared with
- 17-foot drag.
 34 ft sounding at lat. 43° 42.97', long. 69° 57.17', cleared with 36-foot drag.

Reviewed, Oct. 12, 1945

George F. Jordan

Inspected by: H. W. Murray

Surveys Section (Chart Division) WIRE DRAG HYDROGRAPHIC SURVEY NO. H6923 dditional WORK

Records accompanying survey: (See Boat Sheet H-6671 W. D	-1
Boat sheets .1; sounding vols;	wire drag vols. 7;
bomb vols; graphic recorder roll	
special reports, etc Tidel Dete with F.F.	No.6 87 (W.D.) 1945
••••••••••••	•••••
The following statistics will be submitted rapher's report on the sheet:	with the cartog-
Number of positions on sheet	.26
Number of positions checked	• • • •
Number of positions revised	••••
Number of soundings recorded	• • • •
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	••••
Verification of soundings from graphic record Time	••••
Verification by G.F.Jordan	.19 Date 9ct 5,1945.
Review by G.F. dordar Time	.2. Date Oct 5,1945

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

432

TIDE NOTE FOR HYDROGRAPHIC SHEET

October 1, 1945.

Division of Hydrography and Topography:

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in 3 volumes of sounding records for wire drag

HYDROGRAPHIC SHEET 6922

Locality Rockland Trial Course, Coast of Maine

Chief of Party: G. L. Anderson & I. E. Rittenburg in 1945 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:

Of Chief, Division of Tides and Currents.

в. в. воученияму разктине оругов 154327

NAUTICAL CHARTS BRANCH.

SURVEY NO. __H6922 WIRE DRAG Additional Work Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10/4/45	Reconstruction 315	JoWalker	-Before After Verification and Review Completely
11/9/45	0/d 3/5	gru	Before After Verification and Review Completely applied thru Revonst. 315 for Tide Over
3/4/46	1204	g. K. Gmining	Defore After Verification and Review Completely applied.
			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.





U. S. COAST & GEODETIC SURVEY

NOV 13 1944

Ac.	N.	

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic
•
Field No. W.D. 1 Office No. H-6922
LOCALITY
StateNAINE
General localityCASCO_BAY
HARPSWELL SOUND AND VICINITY
Locality EASTERN PART
1943
CHIEF OF PARTY
John H. Brittain
LIBRARY & ARCHIVES
DATE
· · · · · · · · · · · · · · · · · · ·

B-1870-1 (1



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. W.D. 1

REGISTER NO. H-6922

State Maine
General locality Casco Bay
Locality Eastern Part HARPSWELL Sound AND VICINITY
Scale 1:10000 Date of survey June 30 to Sept.3, 1943
VesselHILGARD_and_MARINDIN
Chief of Party John H.Brittain
Surveyed byJohn H.Brittain
Protracted by A. Kaupa
Soundings penciled by A. Kanpa
Soundings in fathers feet
Plane of reference M.L.W.
Subdivision of wire dragged areas by
Inked by
Verified by <u>G.F.dordan</u>
May 7, 1941; March 11,1942 Instructions dated
Remarks: This sheet was processed at the Norfolk Processing Office.
· · · · · · · · · · · · · · · · · · ·

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT to accompany WIRE DRAG SURVEY NO. 1 (Field)

INSTRUCTIONS

Work was accomplished under original instructions dated May 7, 1941, and supplemental instructions dated March 11, 1942, and March 16, 1943.

SURVEY METHODS AND EQUIPMENT

Standard dual control wire drag methods were used with the Launches HILGARD and MARINDIN as towing vessels. Lift tests were made using a coating of white lead and tallow on a 3/4" iron pipe suspended by graduated wire from a float. Launch No. 101 was used as a tender except for the period from August 17 to August 27 when a fishing boat was hired while launch No. 101 was laid up for repairs.

Considerable difficulty was experienced in obtaining a satisfactory towing speed for the launches for the first several days work. A short drag was necessary and it was not possible to slow down the engines of the HILGARD even with the use of two sea anchors to avoid excessive lift. Due to the poor condition of the carbubetors on the Marindin the speed of that launch could not be adjusted to stay abreast of the HILGARD at all times. After considerable experimenting the engineer of the HILGARD succeeded in reducing speed to a more or less satisfactory speed although this caused considerable vibration to the launch.

RESULTS OF SURVEY

Hydrographic surveys were made in the area covered by this survey in 1942. Boat sheet soundings were available except for part of Harpswell Sound. 144 hand lead soundings were obtained at drag groundings on this survey. (Six bottom Samples obtained)

The principal discrepancies between the wire drag and the hydrography are listed as follows:

Lat. & Long. Boat Sheet Sdg. Hand Lead Sdg. Cleared with effect ive depth

43°42.51' 30.6"/ 18 ft. Rejected stray on fathogram

69°59.53' (3/.8"/

43°42.60' (36.0"/) 8 ft. "

13½(w.d.)

10 ft.

69°59.67' (40.2"/)

_	Sheet Sdg.	Hand Lead Sdg.	Cleared with effect- ive depthh
43°42.801 (48.0°) 69°59.471 (28.2°)	19 ft.Rejected	stray on fathogram H-6810	25 St. adjusted
43°42.87' (52.2") 69°57.06' (03.6*)	27 ft.	20 ft.	19 ft. Not a cliscrepancy
43°45.83' (49.8") 69°57.30' (18.0")	34 ft.	19 ft.	18 ft. • " "

The area south of Jaquish Island was not dragged at this time as this area was being used by the Navy for experimental work with under water listening devices. (Scheduled for 1944 Seesson)

TIDES

Hourly heights taken from the record of the Standard Gage at Portland, Me., were used, without correction, for the reduction of drag depths and soundings for this area.

Respectfully submitted,

John H. Brittain, H & G E Chief of Party.

	STATISTICS -	WIRE	DRAG SHEE	T NO 1		
D. 4 -	• . •		Drag	_	Statute	Hand Lead
Date	Letter	Vol.	Length	Pos.	Miles	Soundings
6-30-43	A	1	2100	31	3.1	-
7-1-43	В	1	1500	88	7.5	2
7-2-43	C	ī	1500	16	1.6	-
7-6-43	D	1	2100	10),_	2.5	2
7-6-43	D	_ 1	1500	エネ)		
7-7-43	E	1 & 2	2800	45)	4.9	_
7-7-43	\mathbf{E} .	2	1200	40):-		_
7-8-43	F	2	2400	22	2.1	-
7-9-43	G	2	500	17	1.4	•
7-12-43	H	2 2	2400	22	1.9	4
7-13-43	J	2	2000	49	3.9	1
7-1 5-43	K	2	2400	28	2.6	7
7-16-43	L	2	1200	5.	<i>∘.</i> 93	4
7-20-43	М	3	2800	23)	. 3	
7-20-43	M	3	1200	12):-	4.0	9
7-20-43	M	3	2800	12)		
7-21-43	N	3	2400	33	3.9	-
7-23-43	P	233333333333	2000	11)		1
7-23-43	P	3	1600	26) ·	2.7	4
7-27-43	Q	3	900	2	0.02	3
7-28-43	R	3	2000	24)		
7-28-43	R	3	1200	19);	2.9	6
7-28-43	${f R}$	3	1600	11)		
7-29-43	S	3	1200	30)	2 2	~
7-29-43	S	3 & 4	1600	11);-	3.2	7
7-30-43	S	4	900	13)		
7-30-43	S	4	2000	35):-	4.8	8
8-3-43	T	4	900	4)	-	
8-3-43	T	4	1500	38) • • • • • • • • • • • • • • • • • • •	2.5	7
8-4-43	V	4	1800	24	1.4	<u>-</u>
8-5-43	M	4	900	3)		
8-5-43	W	4	1500	æ):-	3.1	16
8-5-43	W	4	1800	34)		
8-6-43	X	4	1800	25	1.4	15
8-9-43	Y	5	2100	47	2.3	3
8-10-43	Z	5	1500	28	1.5	3
8-11-43	ĀA	5	1500	90	6.1	3
8-12-43	BB	5	1800	59	4.0	7
8-17-43	CC	5 6	1500	39	2.6	3
8-18-43	DD	6	1500	45)		
8-18-43	DD	6	1200	5):-	4.2	2
8-20-43	EE	6	1800	50	2.6	2
8-25-43	FF	6	1800	60		2 8
8-26-43	GG	6 & 7		21	3.2 1.1	3
8-31-43	НН	7	2100	8)		
8-31-43	НН	7	1800	48):-	4.2	2
9-1-43	JJ		1200		4•~	<u>د</u>
		7	2100	19):-	2.8	5
9-1-43	IJ	7		26).		
9-2-43	KK	7	900	10);-	3.6	4
9-2-43	KK	7	1800	49).		
9-3-43	LL	7	1500	19),_	1.6	l
9-30-43	LL	7	2100	9).		
Square Statute	Miles 14.	0	•	43 4	101.7	144

ADDENDUM for H-6922 (Wire Drag)

Signal ITEM (Topo):

This signal is erroneously plotted on the boat sheet; therefore, the wire drag strips which were determined by this signal differ on the boat sheet from that shown on the smooth sheet.

Split

There is a small split area at latitude 43° 44.58' and longitude 69° 58.39'. Were firstien now shows this part of undragged area.

Effective Drag Depths

The effective drag depth on this survey ranges from 8 to 53 ft.

Respectfully submitted,

Isadore M Zeskind Cartographie Engineer

Norfolk, Va. November 8, 1944

Approved & Forwarded

Paul C. Whitney

Supervisor S.E. District

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. #6922

Records accompanying survey:	
Boat sheets .1; sounding vols; v	wire drag vols. 17;
bomb vols; graphic recorder rolls	s;
special reports, etc ! A. and D. sheet	• • • • • • • • • • • • • • • • • • • •
••••••••••	• • • • • • • • • • • • • • • • • • • •
The following statistics will be submitted rapher's report on the sheet:	with the cartog-
Number of positions on sheet	1000 (Sprak)
Number of positions checked	. 331.
Number of positions revised	
Number of soundings recorded	. 144.
Number of soundings revised (refers to depth only)	9.
Number of soundings erroneously spaced	9.
Number of signals erroneously plotted or transferred	0
Topographic details Time	
Junctions Time	32.
Verification of soundings from graphic record Time	
Verification by. G.F. Jordon Total time	.121. Date Dec. 23. 1944
Review by G.F. Jordan Time	!! Date Dec. 22, 1944

Decisions

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GEOGRAPHIC NAMES Survey No. H692	2	/.	No. C	S. Mas		2 / 200	2 Course	Moo More Mario	J.S.
	2 on	yor \	oferio /	J. Mad	or local sic	Or local way	O Guide	rd Mer	ر چ.ن ^خ
Name on Survey	A	B B	<u></u> C	D	E	or F	Q. G	γ [®] H	2. K
Maine								* *;;	
Casco Bay		_							
Itarpswell Sound									
Orrs I.				ļ	<u> </u>				
Bailey I.									
Ragged I.					-				
Pond I.									-
Ram I.									ļ
Round Rock									
Littlejohn Rock	-								
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DIVISION OF CHARTS

Review Section -- Surveys Branch

REVIEW OF HYDROGRAPHIC SURVEY, REGISTRY NO. 6922 W.D. Field No. W.D. 1

Maine, Casco Bay, Harpswell Sound and Vicinity Surveyed in June to Sept., 1943; Scale 1:10,000 Instructions dated May 7, 1941; March 11, 1942

Soundings:

Control:

Hand lead

Three-point fix on shore signals

Chief of Party - J. H. Brittain
Surveyed by - J. H. Brittain
Protracted by - A. Kaupa
Subdivision of wire drag areas by - A. Kaupa
Verified by - G. F. Jordan
Reviewed by - G. F. Jordan
Inspected by - H. R. Edmonston, January 12, 1945

1. Shoreline and Signals

The control for this survey is from previous triangulation and graphic control surveys T-6851 (1941), T-6912b (1942) and T-6929a and b (1942).

The shoreline is from planimetric drawings T-5960, T-5963. T-5969. and T-5970.

2. Junctions with Contemporary Wire Drag Surveys

Satisfactory junctions are made in the approach to Harpswell Sound with H-6670 (1941) W.D., and on the south with H-6662 (1941), W.D., H-6674 (1941) W.D., and H-6783 (1942) W.D. The present A and D sheet includes the latter survey, in the common area.

3. Comparison with Hydrographic Surveys

a. H-6809 (1942-43)

The deeper areas are satisfactorily covered by the present survey. Considerably shoaler depths were obtained on several critical shoal areas. The 19 and 21 ft. soundings in 27 to 40 ft. depths, at Lat. 43°45.85', Long. 69°57.3', obtained between two sounding lines 50 meters apart, demonstrate the value of wire drag surveys in this area.

(1) A 35 ft. drag strip appeared to clear 30 and 33 ft. soundings at Lat. 43°43.9', Long.

69°56.1'. The 30 appears as a clear and definite rocky pinnacle on the fathogram of the hydrographic survey. The discrepancy has been eliminated by rejecting the end section of the drag. The end of the drag had overlapped the 30 ft. sounding by 40 meters.

b. H-6810 (1942)

- (1) The 8, 18, and 19 ft. questionable shoal soundings charted on chart 315 in the vicinity of Lat. 43°42.5', Long. 69°59.6' were disproved by the present survey. Investigation was recommended in the review of H-6810, paragraphs 6a and 9. These soundings are strays from 17, 43, and 28 feet, respectively. The charted 8 should be replaced by a 12 ft. sounding on H-6810.
- (2) The 11 ft. contemporary and prior depth on Charity Ledge at Lat. 43°42.9', Long. 69°59.35' appears to be cleared by 12 and 13 ft. wire drag on the present survey. The contemporary soundings were 11-1/2 ft. by fathometer and 12-1/2 ft. by hand lead. A Coast Pilot report in 1928 is the authority for the previously charted 11 ft. depth. The present A and D sheet clearance depth has been changed to 11 ft. clearance, in order to provide agreement.

c. H-6732 (1941-42)

The present survey makes two small overlaps on the southwest with H-6732, and extends the wire drag coverage to include Mackerel Cove on Bailey Island. A wire drag sounding of 18 ft. extends the 18 ft. curve at Lat. 43°44.35', Long. 70°00'.

d. H-6661 (1941); H-6806 (1943)

The small overlaps with these surveys on the south and east, respectively, are satisfactory.

4. Comperison with Prior Surveys

This is the first wire drag survey in this area. No disagreements exist with prior hydrographic surveys which have not been disposed of in the reviews of the contemporary surveys.

5. Comparison with Chart 315 (latest print of Jan. 31, 1944)

Attention is called to paragraph 3 b (1), which notes the rejection of three charted soundings.

6. Condition of the Survey

- a. The split where the 25 ft. and 19 ft. wire drag strips do not overlap at Lat. 43°45.85', Long. 69°59.3' is over a smooth bottom of 33 ft. depths, and is not considered to be an important deficiency.
- b. The sounding records and descriptive report are satisfactory.
- c. The smooth plotting was generally satisfactory. Some corrections were made in subdivided areas to conform to the Wire Drag Manual, pages 36, 37, and 40, especially in plotting increased or decreased depth changes.

7. Compliance with Instructions for the Project

The present survey adequately covers the area shown on the layout for the project, with the exception of a narrow strip southwest of Ram Island at Lat. 43°44.5', Long. 69°58.2'.

8. Additional Work

No immediate additional work is considered necessary to complete the coverage of the present area. However, certain recommendations are offered for consideration.

- a. The advisability of dragging the buoyed passage around the west side of Littlejohn Rock at Lat. 43°45.0', Long. 69°58.5'.
- b. Investigation of the 16 ft. prior sounding at Lat. 43°44.07', Long. 69°59.0', and the 14 ft. contem- 16,14,34 porary sounding at Lat. 43°43.05', Long. 69°57.66' disproved on These questionable soundings were discussed in the H-6922(1945) review of H-6809 (1942), paragraphs 5 a (9) and 10/1/149.65.1 8 d (5), and were not disproved by the present survey. The area immediately south of Round Rock and the 34 ft. sounding at Lat. 43° 42.97', Long. 69° 57.17', discussed in the review of H-6809, paragraph 6 b, might be included, in the event wire drag investigation of the above 14 ft. sounding is authorized.

Examined and approved:

Chief, Surveys Branch

Chief, Division of Charts

Chief, Division of Coastal Surveys

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

November 16, 1944

Division-of-Hydrography-and-Topography:

Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in volumes of sounding/records for

HYDROGRAPHIC SHEET 6922

Locality Eastern Part, Casco Bay, Maine.

Chief of Party: J. H. Brittain in 1943
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:

Office Chief, Division of Tides and Currents.

U. S. SOVERNMENT PRINTING OFFICE 154327

applied to reconstruction of Ch. 315 - 12/29/44 (afterneview) John.
No Cor to 201 after review - John 2/23/45
Bartially applied to Ch 1204 - Mar. 1945 - John 3ma Generalized dragged area applied to chart 315 July 1958