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Diag. Cht. No. 1201.

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey Hydrographic Field No. WA-HII-2359 Office No. H-8556
LOCALITY
State Maine
General Locality Gulf of Maine
Locality Mistake Island to Libby Islands
19 59-60
CHIEF OF PARTY J. R. Plagmier & D. G. Rushford
LIBRARY & ARCHIVES
DATE Jan. 29, 1%2

☆U.S. GOVERNMENT PRINTING OFFICE: 1974-763-098

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. **B-6556**REGISTER No. **B-6556**Field No. **20. 1. 60**Field No. **20. 1. 60**

State				***************************************		
General locality		GULF -GOST OF	NATHE			
Locality		nistake I.	to Libb	y. Islands		
Scale 1:20,000					W/ JT W W/ A / W) H-822 }
Instructions dated		19 Decemb	mer 1958		OPR 40	8
Vessel •	~~~~~~~~~~~~~~~~~~	VALHWRIGHT	a Hildard			
Chief of party	John R.	Plaggnier (Dowey G.	Bashford	N Y 1242	•
Surveyed by John R	, Plagged	er, Velle i Robert A.	(thir East	R. Anderson	Pat T. Redder	۱,
Soundings taken by fat	thometer, 🛭					
Tathograms scaled by	Pers	onnel of W	invitory (n Hiloard		
Tathograms checked by	, Pere	canel of W	INVESTIGET (HILGARD		
Protracted by	ALPHA G	. ATWILL	(Norfolk	Processin	g Office)	
soundings penciled by	ALPHA G	. ATWILL	ji .	11	tt	
Soundings in fathon	and to	enths at MLW	WEIGH			
REMARKS:		·				
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# OPR-408 DESCRIPTIVE REPORT

# HIDROGRAPHIC SHEETS WA-HI 20-3-59 H-8556 (1959)

M-8557 (1960)

#### A. PROTECTA

Instructions dated 19 December 1958 and revised instructions dated 18 February 1959, 5 January 1959, and 24 Feb. 1960.

#### B. SURVEY LIMITS AND DATES

These sheets cover emission from lengitude 67° 10'W to longitude 67° 32'W. The outer limits were established by visibility, usually between eight (8) to nine (9) miles from the signals. The inshere Mmit was followed as described in the instructions. These sheets name a junction with WANI-2259, N-8510 on its vestern limit and overlaps survey sheet N-1693, 1866 scale 1:40,000 on its castern limit.

Field work on 2359 began on 4/19/59 and ended on 8/25/60. Sheet 2160, field work began on 7/11/60 and ended on 8/25/60.

#### G. YES HIS AND MOULINGET!

The Ship WAINWRIGHT was used for the major portion of H-8556 (Sheet 2359) and the mid portion of approximately one helf of sheet 2360. The Ship HIIGARD was used only occasionally on H-8556 (sheet 2359) and used on the eastern quarter and western quarter of sheet 2160.

#### (1) Note sounding equipment most:

Ship	208 Pathemater Re-	Letter Day	Short No.
MAINWRIGHT	58-8	A thru I	(2359) H-9556
<b>WAINWRIGHT</b>	58-8	A thre L	2060
HILGARD	1398P	•	2359\
HILGARD	57-33	Ě	2140
Hildard	136-SPX	Ĩ	2359 H-8556
HILDARD	56-8	Č	2359
HILGARD	138-57X	J (36J 40 P	2160
Hilgard	57-33	C thru H	21.60
HILGARD	57-33	J (Pos 1-25)	21.60
MILGARD	13967	Ab (188 10.494)	A160

#### B. TIDE AND GURBANT STATIONS:

Fortable automatic tide gages were installed on a platform at Steels Harber Inland (latitude 44° 29.45, longitude
67° 32.51) and Stees Island (latitude 44° 35, longitude
67° 22,14). At Outler, Maine (latitude 44° 39.36, longitude
67° 12.25) the gage was installed at a fishing wherf.

Tide reducers for the sheets were obtained as follows:

SREET (235	M-8226			
Shir Walnuriony	Steel Br. A thru L	Etone_Island V	Culler	From Habinston H thru V *
MILOARD	7 (1 to 70)	7 (73 to ead)	•	D *
BILGARD	NI.	H (1 - 197) B & B L, P, F (1-6P)	P (6 0 H (197 J, K, M, 1	and) A _p G _p B and Found)
Walking Court		L (1-4) & E G (1-90)	4 to 7 8,3, 4 1 (5-163	G(90-269) ***

Steele Herbor Island gage (latitude 44°29,45, longitude / 67° 32,5) was used for the western half of short (20-3-59) H-8556 Plotted

stone Island gage (latitude 44° 36.06, longitude 67° 22.14)
was used for the eastern half of (20-3-59) and vestern quarter

Sheet
of sheet 20-1-60.

Cutler, Little River gage (latitude 44 39.38, lengitude 67 12.25) was used for the eastern three-quarters of sheet 20-1-60.

A 100 hour current survey was conducted at Smith Reaf, latitude 44° 30.0'N, lengitude 67° 21.1'E) The survey was begun on 14 September 1959 and coded on 18 September 1959.

Plotted on Smooth Sheet

#### B. SMOOTH SHART:

The smooth shoot for (2359) was projected by personnel of the Ships William Hilliam at the Horfelk District Cffice. Smooth shoot for 25-1-60 was projected in the Washington Office. Both shoots were transferred to the Horfelk District Office.

"Steele Mbr. TG; Stone I. TG; sengation TG

#### P. CONTROL STATIONS

All control was located by conventional methods. The signals employed are listed in Attachment No. 1.

#### G. SHORELINE AND TOPGORAPHY:

Shoreline was transferred to sheets from blue line manuseripts. Due to the fact that this is an off-chore survey, only the mean high water line was inked and no topography was included.

#### I. SCHOOLS

All soundings, in fathoms, were obtained by conventional methods with 805 fathometers on A and B scale. Valority corrections were obtained, up to tem fathoms, from bor checks. These corrections were obtained by comparisons between scales and included in a single corrector in the column along with squat settlement and initial correction. Valority corrections below 10 fathoms were obtained from temperature and calinity data.

See Statements concerning phase carrs, and Speed corrs, in Review Part 4

#### I. CONTROL OF HIDROGRAPHY.

Control was visual using the three point fix with signals on shore. Hear the eff-shore limit visibility was pour, there-by producing frequentweak fixes?

#### J. ADEQUACT OF SURVEY:

This survey was considered adequate and no additional field #-9510 work is necessary. The junction with prior survey MANI-2259to the perturbed is adequate; everlap with prior survey H-1693, 1886, scale 1:40,000 to the east is good.

Gresslines are generally in good agreement with lengitudinal sounding lines.

#### L. COURANTECE VITE PRICE SURVEYS.

Previous surveys covering this area are 8-4032 1918, H-1576 1883, H-1693 1886, # H-1059 (1870)

Poor agreement with prior surveys was noted. - See Review Part 6.

The following is a list of the discrepancies found:

### 15.0 ### 15.0 ### 15.0 ### 15.0 ### 15.0 ### 15.0 ### 15.0 ### 15.0 ### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 #### 15.0 ##### 15.0 ##### 15.0 ##### 15.0 ##### 15.0 ##### 15.0 ####################################	Hone	Lakikuda	Longitude	Previous	Present Depth All in free
Hence 440 33: 670 21: 22.0 30.0 22: 44.0 27: 450 21: 22.5 30.0 22: 44.0 27: 450 21: 22.5 30.0 22: 44.0 27: 450 21: 22.5 30.0 22: 44.0 27: 450 21: 22.5 30.0 22: 44.0 27: 450 21: 22.5 30.0 22: 44.0 27: 450 21: 450 21: 22.5 30.0 22: 44.0 27: 450 21: 450 21: 25.0 44.0 27: 450 21: 450 21: 25.0 30.0 37: 0 20: 46.0 30.4 670 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 37: 0 30.0 37: 0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 30.0 46.0 46.0 46.0 46.0 46.0 46.0 46.0 4	SX Yeds				
Mone   440   321   670   27.12   9.3   8.12   440   321   670   221   22.0   30.0   232   440   321   670   221   22.5   30.0   232   440   321   670   221   22.5   30.0   232   440   30.1   670   221   23.0   30.0   40.0   30.0   40.0   30.0   40.0   30.0   40.0   30.0   40.0   30.0   40.0   30.0   40.0   30.0   40.0   30.0   40.0   30.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0   40.0	An year				15.0 1 SERVE (10-1-59)H-8556
	H M	110 28 001			7.1
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### 440 271		ALT TOT	670 211	22.5	<b>30</b> 0 22 ³
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44° 25.801 67° 26.71 25.5 16.04 Sce Review 44° 25.71 67° 27.01 30.0 18.0	7	44 29.2	67 26,6	27.25	10.0 25.2 ) CALCALL 39
44° 26.7° 67° 27.0° 30.0° 15.0° 8.7° 44° 26.4° 67° 29.0° 44.0° 53.0° 41.0° 26.8° 67° 29.0° 44.0° 53.0° 44° 30.85° 67° 29.0° 44.0° 53.0° 44° 30.85° 67° 29.0° 44.0° 53.0° 44° 30.85° 67° 29.0° 44.0° 53.0° 44° 30.85° 67° 29.1° 15.0° 67° 20.4° 10.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 70.0° 7	7	44 30 4		<b>36</b> ,0	53.5
44° 25.4° 67° 26.12 25.0 9.7° 44° 25.4° 67° 28.12 25.0 9.7° 44° 25.4° 67° 29.0 44.0 53.0° 44° 30.65° 67° 29.0 44.0 65.0° 44° 30.65° 67° 29.1° 15.0° 9.0° 44° 30.99° 67° 29.1° 15.0° 9.0° 44° 33.8° 67° 30.65° Not shown 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8		11, 30° 20.		25.5	16.04   See Review
44° 25.4' 67° 29.0 44.0 53.0' 44° 26.8' 67° 29.0 44.0 53.0' 44° 30.85' 67° 28.9' 15.0 67.9 12.2 44° 30.99' 67° 29.1' 15.0 970 opport 12.0'  44° 33.9' 67° 20.45 Hot shown 10.8 44° 27.0' 67° 20.0' 28.0 44.0 44° 28.0' 67° 20.0' 16.0' 38.0 44.0 44° 28.0' 67° 16.0' 38.0 48.0 38'fath. depth al- 44° 29.55' 67° 14.6' 16.0' 38.0 38'fath. depth al- 44° 29.55' 67° 14.6' 16.0' 19.0' 44° 29.55' 67° 14.6' 16.0' 19.0' 44° 20.8' 67° 15.5\$' Hot shown 17.0 44° 20.8' 67° 15.5\$' Hot shown 17.0 44° 30.86' 67° 15.5\$' Hot shown 17.0 44° 30.86' 67° 13.0' 16.5 shown 17.0 44° 30.86' 67° 13.0' 16.5 shown 17.0 44° 31.0' 40° 13.0' 16.5 shown 17.0 44° 31.0' 40° 13.0' 16.5 shown 17.0 44° 31.5' 67° 11.0' 16.5 shown 19.0 44° 31.5' 67° 11.0' 16.5 shown 19.0 44° 31.65' 67° 11.0' 16.5 shown 19.0 44° 31.65' 67° 11.0' 16.5 shown 19.2 44° 31.65' 67° 10.9' 10.9' 10.5 shown 10.4 44° 31.95' 67° 10.95' Not shown 10.4 44° 31.95' 67° 10.95' Not shown 10.4 44° 31.95' 67° 10.05' Not shown 10.4 44° 31.95' 67° 10.05' Not shown 9.2 44° 31.97' 67° 10.05' Not shown 9.2	•	44 20.71	677 27,01	30 <b>.</b> 0	
44° 26.85' 67° 29.0 44.0 65.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4		440 25.45		25.0	
44° 30.85° 67° 26.9° 15.0° 9.0° 00.00° 12.0°  44° 30.99° 67° 29.1° 15.0° 9.0° 00.00° 12.0°  44° 33.9° 67° 20.45° Hot shown 10.8 18.15° 20.1.40°  44° 27.0° 67° 20.0° Hot shown 32.00°  44° 28.0° 67° 18.0° 32.73 47.0°  44° 31.0° 67° 16.0° 38.0° 48.0° 38° fath. depth alightly 84° of 48°  44° 29.55° 67° 14.6° Hot shown 19.0°  44° 29.55° 67° 14.25° Hot shown 8.0°  44° 29.5° 67° 14.25° Hot shown 8.0°  44° 30.85° 67° 15.55° Hot shown 17.0°  44° 30.85° 67° 13.0° Hot shown 17.0°  44° 30.85° 67° 13.0° Hot shown 17.0°  44° 30.85° 67° 13.0° Hot shown 17.0°  44° 30.85° 67° 11.0° Hot shown 19.0°  44° 31.0° 67° 12.0° 44.75° 50.0°  44° 31.65° 67° 11.0° Hot shown 9.2°  44° 31.65° 67° 11.0° Hot shown 9.2°  44° 31.65° 67° 10.9° Not shown 6.0°  44° 31.95° 67° 10.95° Not shown 9.2°  44° 31.95° 67° 10.05° Not shown 9.2°  44° 31.7° 67° 10.1° Hot shown 9.2°  44° 31.7° 67° 10.2° Hot shown 9.2°  44° 31.7° 67° 10.2° Hot shown 9.2°  44° 31.7° 67° 10.0° Hot shown 9.2°  44° 31.7° 67° 10.0° Hot shown 9.2°  44° 31.0° 67° 10.0° Hot shown 9.2°  44° 31° 67° 10.0° Hot shown 9.2°  44° 31° 67° 10.0° Hot shown 9.2°  44° 31° 67° 10.0		44" 40,4"		44.0	53.0
44° 30.99° 67° 29.1° 15.0° 970 oppose 12.0°  44° 33.9° 67° 20.45 Not shown 10.8  44° 33.9° 67° 20.45 Not shown 10.8  44° 27.0° 67° 21.0° 28.0° 42.0°  44° 28.0° 67° 18.0° 32.73 47.0°  44° 31.0° 67° 16.0° 38.0° 48.0° 38° 88° 88° 88° 88° 88° 88° 88° 88° 88	•	44 46 67		44.0	63.0 <
44° 33.8° 67° 30.65° Not shown 10.8 SPEER 20-1-60  44° 33.9° 67° 20.45 Not shown 10.8  44° 27.0° 67° 21.0° 28.0 44.0  44° 28.0° 67° 18.0° 32.73 47.0  44° 31.0° 67° 16.0° 38.0 48.0 38° fath. depth el-  44° 29.55° 67° 14.6° Not shown 26.0  44° 29.55° 67° 14.6° Not shown 26.0  44° 29.55° 67° 14.6° Not shown 8.0  44° 29.7° 67° 14.25° Not shown 8.0  44° 31.0° 67° 15.55° Not shown 17.0  44° 31.0° 67° 13.0° Not shown 17.0  44° 31.0° 67° 13.0° Not shown 13.0  44° 30.88° 67° 13.0° Not shown 13.0  44° 31.6° 67° 12.0° 44.75° 50.0  44° 31.6° 67° 11.0° Not shown 9.2  44° 31.65° 67° 11.0° Not shown 9.2  44° 31.65° 67° 10.9° Not shown 9.2  44° 31.95° 67° 10.95° Not shown 9.2  44° 31.95° 67° 10.95° Not shown 9.2  44° 31.99° 67° 10.05° Not shown 9.2  44° 31.7° 67° 10.1° Not shown 9.2	<b>a</b>	44 30 001	400 00 11		
44° 33.9° 67° 20.45 Not shown 10.8 44° 27.0° 67° 20.0° Not shown 32.00 44° 28.0° 67° 18.0° 32.73 47.0 44° 31.0° 67° 16.0° 38.0 48.0 38'fath. depth al- 44° 29.35° 67° 15.0° Not shown 26.0 44° 29.55° 67° 14.6° Not shown 8.0 44° 29.7° 67° 14.25° Not shown 8.0 44° 31.0° 67° 15.55° Not shown 8.0 44° 31.0° 67° 13.0° 35.75 14.0 44° 31.0° 67° 13.0° Not shown 17.0 44° 31.0° 67° 13.0° Not shown 13.0 44° 31.5° 67° 11.0° Not shown 9.2 44° 31.55° 67° 10.9° Not shown 9.2 44° 31.65° 67° 10.9° Not shown 9.2 44° 31.95° 67° 10.95° Not shown 9.2 44° 31.99° 67° 10.05° Not shown 9.2		44 36433.	47- 4741	19.0	• •
44° 27.0° 67° 20.45 Not shown 10.8  44° 28.0° 67° 20.0° Not shown 32.00  44° 28.0° 67° 18.0° 32.73 47.0  44° 31.0° 67° 16.0° 38.0 48.0 38'fath. depth el-  44° 29.55' 67° 14.6° Not shown 26.0  44° 29.7° 67° 14.25' Not shown 8.0  44° 20.8° 67° 15.55' Not shown 17.0  44° 31.0° 67° 13.0° Not shown 17.0  44° 30.88' 67° 13.0° Not shown 17.0  44° 30.88' 67° 13.0° Not shown 19.0  44° 35.0° 67° 12.0° 46.5 50.0  44° 31.5 67° 11.0° Not shown 9.2  44° 31.68' 67° 11.0° Not shown 9.2  44° 31.65' 67° 10.95' Not shown 9.2  44° 31.95' 67° 10.95' Not shown 9.2  44° 31.95' 67° 10.95' Not shown 9.2  44° 31.95' 67° 10.95' Not shown 9.2  44° 31.97' 67° 10.05' Not shown 9.2	a	440 33.81	670 20,641	Not show	4-8557
44° 27.0° 67° 21.0° 28.0 42.0° 44° 28.0° 67° 18.0° 32.75 47.0° 44° 31.0° 67° 16.0° 38.0 48.0 38'fath. depth alightly 8N of 48 44° 29.55° 67° 14.6° Het shewn 19.0° 44° 29.57° 67° 14.25° Het shewn 19.0° 44° 29.7° 67° 14.25° Het shewn 17.0° 44° 31.0° 67° 13.0° 35.75 14.0° 44° 30.88° 67° 13.0° 35.75 14.0° 44° 35.0° 67° 12.0° 46.5° 50.0° 44° 31.5° 67° 12.0° 46.5° 50.0° 44° 31.5° 67° 11.0° Het shewn 9.2° 44° 31.65° 67° 11.0° Het shewn 9.2° 44° 31.65° 67° 10.9° Het shewn 10.4° 44° 31.95° 67° 10.95° Not shewn 9.2° 44° 31.95° 67° 10.05° Not shewn 9.2° 44° 31.7° 67° 10.1° Het shewn 9.2° 44° 31.7° 67° 10.0° Het shewn 9.2° 44° 31.0° 67° 10.0° Het shewn 9.2° 44° 31.0° 67° 10.0° Het shewn 9.2° 41° 41° 41° 41° 41° 41° 41° 41° 41° 41	# N	440 33.91	670 20.45		
44° 28.0° 67° 18.0° 32.75 47.0  44° 28.0° 67° 18.0° 32.75 47.0  44° 31.0° 67° 16.0° 38.0 48.0 38'fath. depth alightly 8v of 48  44° 29.35' 67° 14.6° Hot shown 8.0  44° 29.7° 67° 14.25' Hot shown 8.0  44° 26.8° 67° 15.55' Hot shown 17.0  44° 31.0° 43° 13.0° 35.75 14.0  44° 30.88' 67° 12.0° 46.5 50.0  44° 35.0° 67° 12.0° 46.5 50.0  44° 31.68° 67° 11.4° Hot shown 9.2  44° 31.68° 67° 11.0° Hot shown 9.2  44° 31.68° 67° 10.9° Not shown 9.2  44° 31.68° 67° 10.9° Not shown 9.2  44° 31.69° 67° 10.9° Not shown 9.2  44° 31.95° 67° 10.9° Not shown 9.2  44° 31.97° 67° 10.95° Not shown 9.2	*	44 27.01	670 21.01		
### A40 31.01 670 18.01 32.75 47.0  ### A40 31.01 670 16.01 38.0 48.0 38'fath. depth alightly 8W of 48  ### A20.35' 670 15.01 Not shown 26.0  ### A40 29.71 670 14.25' Not shown 8.0  ### A40 26.8' 670 15.55' Not shown 17.0  ### A40 30.88' 670 13.01 35.75 14.0  ### A40 30.88' 670 13.01 Not shown 13.0  ### A40 35.01 670 12.01 46.5 50.0  ### A40 31.5 670 11.4' Not shown 9.2  ### A40 31.56' 670 10.01 Not shown 9.2  ### A40 31.65' 670 10.01 Not shown 9.2  #### A40 31.65' 670 10.05' Not shown 9.2  #### A40 31.65' 670 10.05' Not shown 9.2  ###################################		440 28.01	670 20.01		
44° 31.0° 67° 16.0° 38.0 48.0 38'fath. depth el-  44° 39.35' 67° 15.0° Not shown 26.0  44° 39.7° 67° 14.6° Not shown 8.0  44° 39.7° 67° 14.25' Not shown 17.0  44° 31.0° 47° 13.0° 35.75 14.0  44° 30.88' 67° 13.0° Not shown 13.0  44° 35.0° 67° 13.0° Not shown 13.0  44° 35.0° 67° 12.0° 44.75 50.0  44° 31.56° 67° 11.0° Not shown 9.2  44° 31.66° 67° 11.0° Not shown 9.2  44° 31.65° 67° 10.9° Not shown 9.2  44° 31.95° 67° 10.9° Not shown 9.2  44° 31.95° 67° 10.9° Not shown 9.2  44° 31.95° 67° 10.9° Not shown 9.2  44° 31.7° 67° 10.05° Not shown 9.2  44° 31.7° 67° 10.05° Not shown 9.2  44° 31.7° 67° 10.05° Not shown 9.2		440 28.01	67" 18.0"		47.R
### 29.35; 67° 15.0; Not shown 26.0  ### 29.75; 67° 14.6; Het shown 19.0  ### 29.7; 67° 14.25; Not shown 8.0  #### 23.8; 67° 15.55; Not shown 17.0  #### 31.0; 67° 13.0; Not shown 13.0  ### 44° 30.88; 67° 13.0; Not shown 13.0  ###################################	я	44° 91.01	670 16.01		
44° 29.55' 67° 14.6' Hot shown 19.0  44° 29.7' 67° 14.25' Hot shown 8.0  44° 26.8' 67° 15.55' Hot shown 17.0  44° 31.0' 67° 13.0' Hot shown 13.0  44° 35.0' 67° 13.0' Hot shown 13.0  44° 35.0' 67° 13.0' Hot shown 13.0  44° 35.0' 67° 13.0' Hot shown 9.2  44° 31.66' 67° 11.0' Hot shown 9.2  44° 31.65' 67° 10.9' Not shown 9.0  44° 31.65' 67° 10.9' Not shown 6.0  44° 31.95' 67° 10.95' Not shown 6.0  44° 31.97' 67° 10.05' Hot shown 9.2  44° 31.7' 67° 10.1' Hot shown 9.2	_		,		
44° 29.7' 67° 14.25' Not shown 8.0  44° 26.8' 67° 15.55' Not shown 17.0  44° 31.0' 67° 13.0' Not shown 13.0  44° 35.0' 67° 13.0' Not shown 13.0  44° 35.0' 67° 12.0' 44.75 50.0  44° 31.5 67° 11.4' Not shown 9.2  44° 31.68' 67° 10.9' Not shown 9.0  44° 31.65' 67° 10.9' Not shown 10.4  44° 31.95' 67° 10.95' Not shown 6.0  44° 31.95' 67° 10.05' Not shown 9.2  44° 31.7' 67° 10.1' Not shown 9.2  44° 31.7' 67° 10.1' Not shown 9.2		44" 29.35"		Not shown	26.0
44° 28.8' 67° 15.55' Not shown 17.0  44° 31.0' 49° 13.0' 35.75 14.0  44° 30.88' 67° 13.0' Not shown 13.0  44° 35.0' 67° 12.0' 46.5 50.0  44° 31.5 67° 11.4' Not shown 9.2  44° 31.68' 67° 11.0' Not shown 9.2  44° 31.65' 67° 10.9' Not shown 10.4  44° 31.95' 67° 10.95' Not shown 6.0  44° 31.95' 67° 10.05' Not shown 9.2  44° 31.97' 67° 10.05' Not shown 9.2  44° 31.97' 67° 10.05' Not shown 9.2  44° 31.97' 67° 10.05' Not shown 9.2		44 29.55			
44° 31.0' 67° 13.0' 35.75 14.0  44° 30.88' 67° 13.0' Not shown 13.0  44° 35.0' 67° 12.0' 46.5 50.0  44° 31.5 67° 11.4' Not shown 9.2  44° 31.68' 67° 11.0' Not shown 9.0  44° 31.65' 47° 10.9' Not shown 10.4  44° 31.95' 67° 10.95' Not shown 6.0  44° 31.93 67° 10.05' Not shown 9.2  44° 31.7' 67° 10.1' Not shown 9.2  44° 31.7' 67° 10.1' Not shown 9.2					
44° 30.88' 67° 13.6' Net shewn 13.0  44° 35.0' 67° 12.0' 46.5 50.0  44° 31.5 67° 11.4' Net shewn 9.2  44° 31.68' 67° 11.0' Net shewn 9.0  44° 31.65' 67° 10.9' Not shewn 10.4  44° 31.95' 67° 10.95' Not shown 6.0  44° 31.95' 67° 10.05' Not shown 9.2  44° 31.97' 67° 10.1' Not shown 9.2  44° 31.7' 67° 10.1' Not shown 9.6  **ecabined hydrographic curvey and wire drag	<del></del>	44 20,6			17.0
44° 35.0° 67° 13.0° 46.5 50.0  44° 36.0° 67° 12.0° 44.75 50.0  44° 31.5 67° 11.4° Het shewn 9.2  44° 31.65° 67° 10.0° Het shewn 9.0  44° 31.65° 67° 10.9° Het shewn 10.4  44° 31.95° 67° 10.95° Not shown 6.0  44° 31.93 67° 10.05° Het shewn 9.2  44° 31.7° 67° 10.1° Het shewn 9.6		44 31.0'			14.0
44° 31.66° 67° 12.0° 44.75 50.0  44° 31.5 67° 11.4° Bet shown 9.2  44° 31.65° 67° 10.9° Not shown 10.4  44° 31.95° 67° 10.95° Not shown 6.0  44° 31.95 67° 10.05° Not shown 9.2  44° 31.7° 67° 10.1° Not shown 9.2  44° 31.7° 67° 10.1° Not shown 9.6  **ecabined hydrographic curvey and wire drag	_	44 30,881		Not show	13.0
44° 31.5 67° 11.4' Net shown 9.2  44° 31.68' 67° 11.0' Net shown 9.0  44° 31.65' 67° 10.9' Net shown 10.4  44° 31.95' 67° 10.95' Net shown 6.0  44° 31.95 67° 10.05' Net shown 9.2  44° 31.7' 67° 10.1' Net shown 9.6  **combined hydrographic curvey and wire drag		44 33.0	67" 13.0'		50.0
44° 31.68' 67° 11.0' Not shown 9.0  44° 31.65' 67° 10.9' Not shown 10.4  44° 31.95' 67° 10.95' Not shown 6.0  44° 31.93 67° 10.05' Not shown 9.2  44° 31.7' 67° 10.1' Not shown 9.6  **combined hydrographic curvey and wire drag		142 90 8	12.0	44.75	50.0
44° 31.65' 67° 10.9' Not shown 10.4 44° 31.95' 67° 10.95' Not shown 6.0 44° 31.95 67° 10.05' Not shown 9.2 44° 31.7' 67° 10.1' Not shown 9.6  **combined hydrographic curvey and wire drag		449 31 441	11.4		
44 31.95' 67' 10.95' Not shown 6.0 44' 31.95 67' 10.05' Not shown 9.2 44' 31.7' 67' 10.1' Not shown 9.6  **combined hydrographic curvey and wire drag	•	TT 42 TE	A (R. 1717)		
44 31.7' 67° 10.05' Not shown 9.2 44° 31.7' 67° 10.1' Not shown 9.6  **Combined hydrographic curvey and wire drag	₩	110 37 Det		mot above	
44 31.7' 67 10.1' Not shows 9.6  *combined hydrographic survey and wire drag	•	7. W. W.		Mot about	
Secubined hydrographic survey and wire drag	•	Z 11. 11			· · ·
(H-4032a) (H-4032)	"conbined	-		· · · · · <del>-</del>	<b>7.0</b>
		(H-40320	A)	1-4032)	

#### M. COMPARTICE WITH CHART:

In general good agreement with the charted depths and the present survey were noted. However, many shoal areas and discrepancies were found in the uncharted regions of the shart. These are listed below:

latitude	Longitude	Charton Bepths in vicinity ft.	Depth found in
44° 31.7' 44° 31.93' 44° 31.95'	67° 10.1' 67° 10.05' 67° 10.95'	127: 112 113	57.6') 55.2
44° 31.65° 44° 31.5 44° 30.88°	67° 10.90° 67° 11.4° 67° 13.0°	127 116	36.0 62.4 55.8 Not in
44° 31.0' 44° 29.7'	670 13.01	160 160 144	78.0 H-8551 84.0 48.0
44° 29.55° 44° 29.35° 44° 28.8°	6 7014.61 67° 15.01 67° 15.551	216 216 216 - 396	114.0 156.0 119.0
44° 33.8' 44° 32.8' 44° 28.0'	67° 20.65' 67° 21°.0'65 67° 18.0'	90 - 121 135 - 154(22 ² - 25 ² )	182.0 127.2 (21.2)
44° 31.0' 44° 26.45' 44° 28.456	67° 29.1' 67° 29.0'50 67° 28.1!	122 (20,3 Fm) 288 (482 ) 65 (10.8 Fm)	(8.5 Fms pas 43 F (blux) (approx 410 fms 246.041) (9.3 fms 151+152 G)
44° 30.4°	67° 25.5	159 - 225 (26° - 31°)	Not CHARTED OK BUT BETTE TO 73° (438)
N. DAMORE	seoals:	, V	alues not checked by eviewer. See Review Part. 7

## The following are nowly found shouls that should be noted:

14511464 44° 31.95° 44° 30.86° 44° 31.5° 44° 29.7° 44° 29.35° 44° 29.35° 44° 31.0° 44° 31.0° 44° 28.4°	67° 10.95' 67° 13.0' 67° 13.0' 67° 11.4' 67° 14.25' 67° 14.6' 67° 15.0' 67° 15.55' 67° 29.0'	122(20 ³ )	15 8 (51.6) pos 43 F · blue)
44° 31.65'	67° 28,31/2 67° 10,91 67° 11,41	65(10.8(ms) 112 to 127 112	53.2 Not on H-8556

^{*} Reported to bureau, chart letter dated 13 December 1960, Wire dragged to 34'.

#### Q. COAST PILOT INCOMATION:

With reference to V. S. Coast Pilot 1, Atlantic Coast, Eastport to Cape Cod, Sixth Miltion (1960) - On page 54, col.

2 between lines 19 and 20 add "An unnamed sheel with a least depth of 36.0" is lecated approximately 3.8 miles RV of Nachies Seel Island Lighthouse (44° 31.9"H, 67° 10.9"W). A clear depth of 34' by wire drag was obtained.

On page 25, col. 1, line 17, add - The 25 radio towers on the reservation are of various heights but all are quite conspissors. This report was submitted to the Director in a letter dated 13 Becamber 1960.

#### P. AIDS TO HAVIGATION:

We fixed aids to Navigation were located as all in the vicinity had been done so previously.

Floating Aids to Mavigation located:

Reskablte The Whistle	inditude	10301 tudo 67 29.41	Banth 45. A. fas	Position _Hombus Date 970 9/18/59 Sh 2359 WAINWRIDET	/
--------------------------	----------	------------------------	---------------------	------------------------------------------------------	---

#### Q. BILTED AREAS:

No extreme silted areas were in evidence.

Respectfully submitted:

John T. Maldari, Ensign, C408

Approved and Forwarded:

D. G. Bushford, LCDR, CARS Commanding MAINWRIGHT & MINGARD

## LIST OF SIGHALS

RIAN	TLATION:		See /	Norfolk
, ilma		Serven	Liet	of Signals on
335 TON 174 RIM 218 NOO 227 STONE 135 LID 195 RIV 185 RIV	Kenten, 1946 Grupple, 1862 Mosse Feak Light Stone Island led Libby Islands Li Little River Lig Russ, 1883, 1913	go Reason, 19 ght House, 18 ht House town	Preci	eding page,
185 X SAND	Sandy Point, 186	eputation - 3		ion included)
		unarked state	loss. GP/s Attack	#44this report
v H-8556 TREE	**************************************			
TOPOR	THE !			
Y H-8556 ARK X H-8556 ARK X H-8556 ARK Y H-8556 ARK Y H-8556 ARK	2-8646 8/2 See Yel, 2 (Ohe, Area of 2-8799 - Area of 2-8600 -	of hortsontal 78 5906 Shoot PK 5906 Shoot		2-6646 8/2 ×
ZIG			•	
cot + Ton		* * *	•	
* APE RAD	Area of 2-8706		•	
CRA	Area of 7-6797 -	rn sylv sheet M 5906 Sheet	II	
* Joe * Hil	* * *		•	
BAR GAR	* * *			
MOTO E	PRO:	<b>~ ~ 7</b>	•	
AUS.	Area of 2-640 - H	I cont them		
BAT	Area of 3-8797 - 1	M 5906 Bhoot	III	
Dri. Val	20-1-60 Vel. He. 4 HOFF Names ript To	la Page #25	" HILGARD F day !	lbeet

* See Vol. 1 pg Z for location in record backs

# STATISTICS

SELECT 2	1-1-19 L	35%	And the Company of th	
Velume Number	letter.	Pate	Number of Intiliant	Mentical Hiles
HILGARD	A.B.C	Rejusted 6/27/60	111	(Improper fathemoter speed)
3	D	6/27/60	141	43.0
	7	7/19/60		(bottom samples)
1	á	\$/16/60 \$/25/60	136	29.9
MAINWRIG		-421	•	1.5
1	A	8/19/59	69	24.6
1 4 2	3	8/20/59	207	77.3
3	C D	6/26/99	97	33.6
3	B	8/27/99 9/14/99	3)	6.4
3 4 4	ĩ	9/17/99	95	24.4
4	Ŏ.	9/18/59	174	15.5
5	H	9/23/59	57	44.0 17.3
6	ð	6/13/60	60	18.2
6	K	6/14/60	175	52.4
7	L	6/22/60	180 172	60.0
849	X	7/1/60 7/6/60 7/7/60	172	46,2
9	P	7/4/60 7/4/60	155	43.0
10	ė	7/34/60	125 26	25,8
10	Ř	7/15/60	185	6.6
11	8	7/21/60	153	55.5 42.0
11	T	7/22/60	101	29.0
12	ā	8 AL/60	183	34.0
12	¥	4/5/60	150	29.3
13 13	¥	8/18/60	30	5.3
		4/24/60	145	30.2
SIEST TO	7-60 1-		3032	
I MYTALL	<b>A</b>	7/21/60 7/25/60	<b>36</b> ,	7.4
3	3	7/25/60	206	57.5
243	G	7/26/60	163	43.0
3 3 4 4	D .	4/1/60	1113	27.5
4	;	4 W (W)	205 205	46.3 65.2
5		7/26/60 8/1/60 8/9/60 8/10/60 8/16/60 8/17/60 8/19/60 8/24/60	112 205 230 211 169 68 244 163	05,2
5 4 6	1 0	6/27/60	160	\$2,0
7	Ĵ	4/14/60	64	40.6 12,3
7	K	4/19/60	344	50.7
8	L	8/24/60	163	50.7 36.3

# Attendment #2 Continued STATISTICS

Volume Manhar	bey letter	Rake	Number of Entitions	Mantical Miles
HILGARD	Shoot		imad	
1	<u> </u>	7/24/60	94	27.5
1		7/15/60	167	47.9
2	0	7/19/60	22	4.4
3	<b>3</b>	7/22/40	200	47.5
3		7/26/60	144	47.5
7 - 4	. <b>F</b>	8/4/80	167	49.0
4 4 5	<b>Ģ</b> 12	9/7/00	274	56,8
á	ī	# /10 /60	239 227	57.2
š	ĸ.	8/22/60	21	64.0
7	ī	8/12/60	23	4.2
7	X	8/17/60	106	5.5
7	Ħ	8/24/60	W	21.9 30.3
8	. 7	8/25/60	151	26,5
		• .•	3767	

# VELCCITY CORRECTIONS

Zathonetez_SS_8			Fatheneter 57-11		
From (figs.)	In (fre.)	Serra (Cma)	From (fine)	To (Cos.)	Gorr. (fma)
0 1 <b>.8</b>	1.6 6.0	+0.2 +0.2	0 2.8	2.6 10.0	+0.2
6,2 21,2	21.0 35.4	-0.2 -0.4	10.2 21.2	21.0	0.0 -0.2
35.6 50.4	90,2 64,8	-0.6 -0.8	35.4 50.4	35.4 50,2 64,8	-0.4 -0.6 -0.8
Pathemeter 1	24.87		Fathous top 2	J9-87	
0 1.4	1.2 5.0	+0,2	0,8	0.6	+0.2
5,2	21.0	-0,2	6.2	6.0 21.0	0.0 0.2
21.2 35.4 50.4	35.4 50.2 64.8	-0.4 -0.6 -0.8	35.6	35.4 50.2	-0.4 -0.6
204-4			50.4	64.8	-0 <b>.8</b>

The following is a list of Geographic positions of hydrographic signals computed by this party.

Signal	Latitude	Longitude
JOE	440 371 09.57811	670 141 13.33711
HIL	44° 37° 20,377° '	670 121 48.41511
APE	44° 36' 17.435''	670 151 47.05311 -
POX	44° 34' 22.43'' -	670 241 26.611 - }
GAT	44° 291 42.37411-	67° 24' 26.6'' - } H-8556
* Tow	44 36 41.236"	67 16 33.634"

* from WASH, office

#### NORFOLK PROCESSING OFFICE LIST OF SIGNALS TO ACCOMPANY

#### H-8556

#### TRIANGULATION STATIONS

LIBBY ISLANDS L.H. (OLD), 1862 LIB

MOOSE PEAK L.H., 1862 MOO CRUMPFLE, 1862-1934 RUM

STONE ISLAND LEDGE BEACON, 1913 STONE

KEATON, 1946 TON

#### MARKED TOPOGRAPHIC STATIONS

FREE, 1946 T-8650

HIGH, 1946

## COMPUTED TOPOGRAPHIC STATIONS (See Field computations & D.R.)

(unmarked stations- used for hydro only)
SEC attachment #4 tot 6. P.'s CAT FOX

#### TOPOGRAPHIC STATIONS

RUE (See vol. 1, pg. 2)

ARK T-8646 T-8799 THE

LAN T-8800 T-8800 ONE

#### NORFOLK PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8556 (Wa-Hi 2359)

#### GENERAL

Except for the discrepancies listed below, this appears to be an excellent basic survey.

#### CONTROL

Fixes controlling positions distant from signals, particularly on the West and South limits of hydrography, were observed using slender angles and there is undoubtedly some minor position displacement in these areas.

#### SOUNDINGS

Soundings are in good agreement at crossings considering the extremely irregular character of the bottom and the control weaknesses in offshore areas.

Fathometer speed corrections averaging -22% were applied to soundings between 1 and 108D, Hilgard, to bring them into agreement with surrounding hydrography. For purposes of legibility and clarity, the soundings on this entire day were rescanned and re-recorded in volume 15. Fathometer speed and other applicable corrections were then applied to the soundings.

A,B & C days, Ship Hilgard, were rejected by the field party because of fathometer speed troubles. The fathograms and boat sheet were submitted to this office along with the other records - the sounding volumes were not forwarded.

Fathom depth units were used in compliance with the Deputy Director's letter dated July 7, 1961, 211/rtb.

Norfolk, Va. Jan. 23, 1962

Respectfully submitted,

Hugh L. Proffitt

Cartographer

Q. O. Guide of Man FORM 197 (3-16-55) GEOGRAPHIC NAMES Survey No. H-8556 Name on Survey Libby Islands Bresking Lage Falls off northern edge of survey (Falls off northern edge of surve South east Ledge Steele Harbor Island The Brothers 10 11 12 13 14 15 16 17 18 19 20 21 * Added by D.E.W 23 24 25

26

# Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. . 8556...

Records accompanying survey:	Smooth sheets;
boat sheets .l; sounding vols	; wire drag vols;
Descriptive Reports; graphic	recorder envelopes 5;
special reports, etc	•••••••
•••••••••••	••••••
The following statistics will be submitted rapher's report on the sheet:	d with the cartog-
Number of positions on sheet	3057
Number of positions checked	10%
Number of positions revised	3
Number of soundings revised (refers to depth only)	• • • • • • • • • • • • • • • • • • • •
Number of soundings erroneously space	ed
Number of signals erroneously plotted or transferred	
Topographic details	Time
Junctions	Time .30
Verification of soundings from graphic record	Time 24
Special adjustments Tenths of Fathoris were inked from the Sounding Uni	Jumes Time 80
Verification by Geo. A. Kozemezok Total to	ime 462. Date 191.21-65
Reviewed by All C. Withort T.  105p. Sarstens 4 hr 3/25/5	ime 74 hrs. Date 2/8/65
Insp. Sarstens 4 hr 3/25/5	74

H-8556

Items for Future Presurvey Reviews

This is a stable bottom area. Depths on features are adequately determined, considering the depth of water.

Position Lat.	Index Long.	Bottom Change Index	Use Index	Resurvey Cycle (Years)
442	674	1	1	50
442	673	1	1	50
443	673	1	1	50

# OFFICE OF MARINE SURVEYS AND MAPS MARINE SURVEYS DIVISION HYDROGRAPHIC SURVEY REVIEW

·	
REGISTRY NO. H-8556	FIELD NO. WA-HI-20-3-59
Maine, Gulf of Maine, Mistake Island	to Libby Islands
SURVEYED: August 1959 - August 1960	
SCALE: 1:20,000	PROJECT NO.; OPR-408
SOUNDINGS: 808 Depth Recorders	CONTROL: Sextant Fixes on Shore Signals
Chief of Party  Surveyed by  Protracted by Soundings Plotted by Verified and Inked by Reviewed by  Cursory inspection madesurvey processing considered complete	J. G. Rushford (1960) J. R. Plaggmier D. G. Rushford J. T. Maldari V. Kiisk G. N. Orr K. R. Anderson D. I. Wolsk P. T. Redden R. A. Trauschke A. G. Atwill A. G. Atwill G. A. Kozemczak D. E. Westbrook Date: July 8, 1965

#### 1. Description of the Area

This is an offshore survey in the Gulf of Maine covering an area between Mistake Island and Libby Islands. The survey was carried offshore about 8-9 miles which is the approximate limit of visual control.

The bottom is extremely rugged throughout much of the survey area and is characterized by numerous knolls, ridges, and depressions.

Sedimentary mud deposits cover most of the bottom interspersed with sand, gravel, and broken shells. The knolls and ridges are, for the most part, hard or rocky.

The most important feature in the area is Southeast Ledge, which rises to 42 feet from 200-foot depths.

## 2. Control and Shoreline

The origin of the control is adequately described in the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts T-8646 S/2 (1944-48), T-8649 S/2 (1948), T-8650 N/2 (1948), T-8799 (1948), and T-8800 (1946-49). The shoreline has been shown for orientation purposes, and its complete delineation should be obtained from the manuscripts listed above.

#### Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves were adequately delineated. Several shoal soundings were emphasized with dashed or solid brown depth curves in accordance with paragraph 6-64 of the Hydrographic Manual.
- C. The development of the bottom configuration and investigation of least depths are considered adequate.

# 4. Condition of the Survey

The field plotting, records, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual except that:

- A. An error in depth recorder speed was found during smooth plotting between positions 1-108D, Ship HILGARD. Corrections averaging -22 percent had to be applied to bring these lines into agreement with the surrounding hydrography.
- B. The tide reducers between positions 1-112L, Ship WAIN-WRIGHT, were found by the Tides Branch to have been computed or entered in error by the field party and were revised.
- C. During verification of A- and B-scale line crossings on the survey, it was found that the phasing head on 808 fathometer number 58-S, Ship WAINWRIGHT, was subject to considerable play (B-day in particular). As a result, the zero phase correction for B-scale as determined by the field party was found to be invalid. A reexamination of the fathograms indicated variable phase corrections of up to -4 fathoms on several lines, which necessitated considerable office work in making the corrections.

- D. The control used was somewhat weak on the offshore edges of the survey. Thin angles were used either because of visibility problems or protractor length limitations. Although it is not believed that the overall accuracy of the survey was substantially affected because of a few weak fixes, offshore visual control problems can often be alleviated by the use of "circle sheets" as authorized and discussed in the Hydrographic Manual. The use of "circle sheets," where justified, often results in stronger fixes and more convenient plotting.
- E. As soundings in the area of this survey are <del>plotted</del> in feet, fractions of fathoms were added to depths greater than 11 fathoms in order to provide more precise depths.

#### 5. <u>Junctions</u>

Adequate junctions were effected with H-8510 (1959) on the west, and H-8667 (1962) on the south.

The junction with H-8557 (1960) on the east will be discussed in the review of that survey.

No contemporary survey joins the present survey on the north, but present survey depths are in harmony with charted depths in this area.

#### 6. Comparison with Prior Surveys

A. H-1059 (1:10,000) 1870 H-1576 (1:40,000) 1883

Taken together these surveys comprise the prior coverage of the present survey area.

Only a small portion of the present survey is common with H-1059 (1870). A comparison between the two surveys reveals little change in the bottom. Although the prior survey is on a larger scale, the present survey's more complete development and closer spaced lines enable it to adequately supersede this prior survey within the common area.

A comparison between the present survey and H-1576 (1883) also indicates little change in the bottom configuration. The present survey, however, with its more complete development and larger scale, reveals numerous features and lesser depths not disclosed on the prior survey.

Numerous bottom characteristics were brought forward from this prior survey to supplement the present survey, and, with the addition of these, the present survey is adequate to supersede the prior survey within the common area.

#### B. H-4032 W.D. (1:40,000) 1918

Depths shown on the present survey do not conflict with the effective drag depths claimed on this wire-drag survey.

One sounding and two bottom characteristics were brought forward, however, to supplement the present survey.

#### C. <u>H-4032a (1:40,000) 1918</u>

This prior survey contains supplementary soundings obtained while the above wire-drag survey was in progress.

Because of the smaller scale and scarcity of soundings on this survey, no comprehensive comparison with the present survey can be made. However, most of the depths compare favorably.

One sounding and one bottom characteristic were brought forward from this prior survey to supplment the present survey.

With the addition of the above items, the present survey is adequate to supersede the prior survey within the common area.

# 7. Comparison with Chart 304, 5th Ed., Rev. August 17, 1964

#### A. <u>Hydrography</u>

Most of the charted hydrography in the area of the present survey originates with the previously discussed prior surveys which require no further consideration.

This hydrography has been supplemented by numerous soundings from the boat sheet of the present survey, a few of which were found to be erroneous.

The present survey is adequate to supersede the charted hydrography within the common area.

#### B. Aids to Navigation

The one floating aid to navigation in the area was located on the present survey, and its position is in substantial agreement with the charted location. This aid, however, is used for coastal navigation and marks no particular feature.

### 8. Compliance with Instructions

The present survey adequately complies with the Project Instructions.

#### Additional Field Work

This survey is considered to be a good basic survey and no additional field work is recommended.

Examined and Approved:

Marine Surveys Division

Associate Director Office of Marine Surveys and Maps

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

#### X SEY SUCKER X STEEN AND AUXX MOLIFEST X X X

March 27, 1962

Division of Charts: R. H. Carstens

Plane of reference approved in 15 volumes of sounding records for

> HYDROGRAPHIC SHEET 8556

Locality Steel Harbor Island, Maine

Chief of Party: J.R. Plaggmier (1959), D.G. Rushford (1960) Plane of reference is mean low water, reading 2.5 ft. on tide staff at Steel Harbor Island

21.7 ft. below B. M. 1 (1959)

4.3 feet on tide staff at Green I., Petit Manan I. 19.2 feet below B.M. 1 (1959)
4.4 feet on tide staff at Stone Island

25.0 feet below B.M. 1 (1960)

Height of mean high water above plane of reference is:

Steel Harbor Island 11.6 feet

Green Island, Petit Manan Island 10.6 feet

Stone Island 12.4 feet

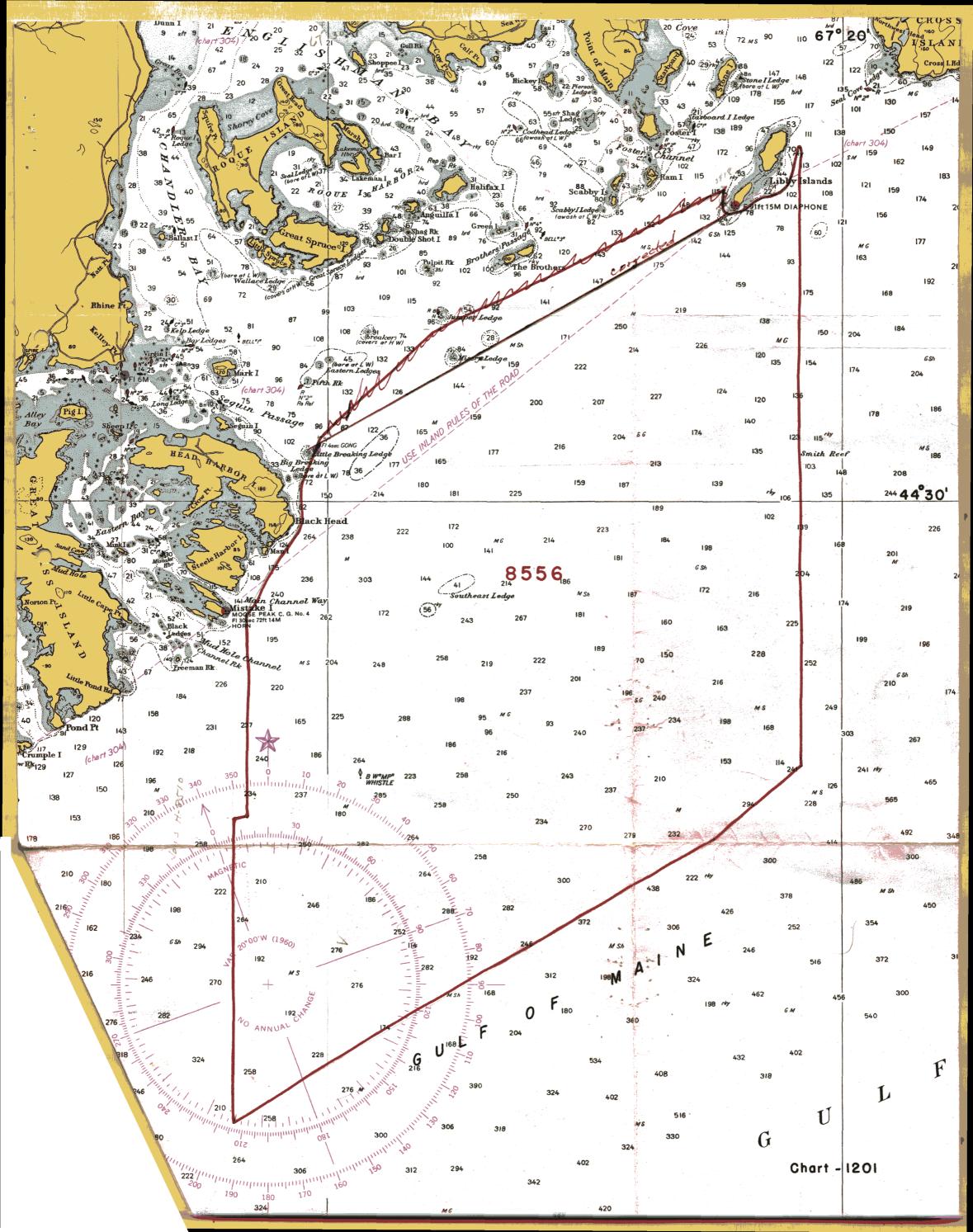
Condition of records satisfactory except as noted below:

NOTE: Tide reducers for the positions listed below have been revised in red and verified.

Pos. 1L to 112L

Cinical xidivision x beligible x contributed by

S. GOVERNMENT PRINTING OFFICE



# NAUTICAL CHARTS BRANCH

# SURVEY NO. H-8556

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/26/62	304	Judoile	Before Verification and Review Exam No Corr.
3-2/-62	1000	En M Brogory	Before Werification and Review Eggs No Culfor
10-11-62	1201	G.R. Johnson	Before After Verification and Review Partly Applied Previsions applied and from the boat streety through cht. 304 drg # 12 \$ #11
10-15-62	1106	G.R. Johnson	Before After Verification and Review Partly Applied
10-15-62	70	G.R. Johnson	through cht 1201 drg #17  Before After Verification and Review Partly Applied
2-18-65	304	6.R. Johnson	Solore After Verification and Review Partly Applied
11-22-65	304	G.R. Johnson	(complete application, except for Review corrections)  Before After Verification and Review 3 before Insp.
12-8-65	1201 Recors	tr. G.R. Johnson	Partly Applied  Peter After Verification and Review 3 before Insp.
7-28-70	70	J. Stuart	Before After Verification and Review & before 103p.
8-31-70	304	Jeffrey Stuary	Before After Verification and Review before Insp
,			Part - No further Corr.
3-6-73	5	g. Bailey	Exam No Core thru Drug 70 # 36
2-4-72	1106	J. Bailey	AFTER REVIEW BEFORE INSPECTION  Exam. for critical corrs. Revised several
7-13-73	70	١,	canaling that of
			After Reviews before Insp. Critical for the u late 1/06 28

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.

FORM C&G\$-8352

#### NAUTICAL CHART DIVISION

#### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

H-8556

#### **INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revi

CHART	DATE	CARTOGRAPHER	recommendations made under "Comparison with Charts" in the Revie
13003	2-7-90	· · · · · · · · · · · · · · · · · · ·	REMARKS
1300	2 ( 10	Ed Martin	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 61 Adequately applyed, no farther process
12001	2 (2.0		us required
13006	2-12-90	Kussell Kennoch	Full Part Refore After Verification Review Inspection Signed Via
			Drawing No. 47 Adequate a proliced, No faither
74 5 . 1			Rotersus Meccusian.
13260	2-22-90	Russell P Kanal	Full Pan Before After Verification Review Inspection Signed Via
			6 27 francis
3325	11-19-90	Betty SzatKowski	Full Part Before After Verification Review Inspection Signed Via
		Deng Starkowyci	
			Drawing No. 27 Fully applied
1321.n	4-2-91	Dan Clark	Fall Day D.C. 16
2000	9-691	for Clark	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 40
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verificacion D.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Diaming No.
			Eall Daw D.C. AC VI. III
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
	<del>   -</del>		Drawing No.