

7152

7152

Diag'd. on Diag. Ch. No. 1202

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. GI-1146 Office No. H-7152

LOCALITY

State Maine

General locality Gulf of Maine

Locality South Approach to Jerico Bay

1946

CHIEF OF PARTY

W. F. Malnate,

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. H 7152

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-7152

Field No. GI-1146

State Maine

General locality Gulf of Maine

Locality South Approach to Jerico^h Bay

Scale 1:10,000 Date of survey 10 July to 17 Oct., 1946

Instructions dated 23 April 1946 and 11 March 1944

Vessel Ship GILBERT and Launch No. 101

Chief of party W. F. Malnate

Surveyed by W. F. Malnate and J. D. Thurmond

Soundings taken by fathometer, graphic recorder, hand lead, wire

Protracted by R. R. Wagner

Soundings penciled by A. G. Atwill

Soundings in ~~XXXXX~~ feet at MLW ~~XXXXX~~

REMARKS: This sheet was processed in the Hydrographic Section of the
S. E. District at Norfolk, Va.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7152 (FIELD NO. GI-1146)

MAINE COAST

U.S.C.&G.S. GILBERT ----- W. F. MALNATE, COMMANDING

PROJECT CS-265

SCALE: 1:10,000

A. PROJECT: This sheet is a part of Project CS-265. The Survey was accomplished under instructions in AMENDED SAILING ORDERS to the Ship GILBERT, S-2-GI, 21-SRO, 23 April 1946, and in accordance with SUPPLEMENTAL INSTRUCTIONS, 22 MEK, 1955 GI 4, 11 March 1944.

B. SURVEY LIMITS AND DATES: This survey lies at the south approach to Jericho Bay. Its limits are the entire east coast of Isle au Haut, then north 0.6 miles from Richs Pt., then northeast to a point 0.9 mile north of North Popplestone Ledge, then southeast to Spirit Ledge, then south to a point $1\frac{1}{4}$ miles east of Great Spoon Island, then southwest to a point $\frac{1}{4}$ mile south of Eastern Ear Ledge, then west along latitude $44^{\circ}00'$ for 0.8 mile, then north to Isle au Haut at Eastern Head.

The survey was accomplished between 10 July and 17 October 1946.

Satisfactory junctions were made with Sheet 1:10,000 scale SOS-1146 (H-7150, 1946) done by the Ship SOSBEE in 1946, and with 1:20,000 scale Sheet H-7058 (1945) done by the Ship LYDONIA in 1945. Good overlap was made at the junction with wire-drag sheet 2831 WD near the northeast limit of this sheet.

(1877-1925) Previous surveys within the limits of this survey are H-1074, H-1407 (1870) (1878-1905) and H-1400 A. The comment under paragraph "M" of this report covers the comparison with these sheets.

There were no surveys by the U.S. Engineers or other organizations within the limits of this survey.

C. VESSELS AND EQUIPMENT: The Ship GILBERT accomplished the deeper soundings in the clear channels and in the open waters at the south and east parts of the sheet. Launch No. 101 accomplished the sounding along the east coast of Isle au Haut, over all shoal areas and all spots requiring handlead work, and in the inshore areas around all islands.

808-type fathometer No. 53 was used on both vessels, with inboard transceivers.

The turning radius of the Ship GILBERT at full rudder is approximately 180 meters, and of Launch 101 approximately 25 meters.

(2)

D. TIDES AND CURRENTS: See the Tide Note attached to this report. No current observations were made.

E. SMOOTH SHEET: The projection for the smooth sheet was prepared by hand in the Norfolk Processing Office. Shoreline on the boat and smooth sheets was obtained from tracings compiled from air photos and furnished by the Washington Office. (T-8553 & T-8554)

F. CONTROL STATIONS: The triangulation control was derived from various sources. Stations with 1934 dates were from triangulation by Crosby; WHITE LEDGE 1907 came from Special Publication 46, Triangulation in Maine; POPPLE, DOUGLAS, TURNIP and SHORE (all 1945), were from Director's letter 63-VW, dated 9 January 1947; and stations HORSE and Eastern (both 1945) were supplied by the Washington Office in answer to a request on 19 November 1946 from the Supervisor, Southeastern District.

T-8553(1946) + T-8554(1946)

Topographic signals were obtained from AirPhoto Map Manuscripts of Project CS-272, furnished by the Washington Office. Hydrographic Signal WIT, located by the SOSBEE in 1946, was obtained from Sheet H-7150, and all other hydrographic signals were located by the GILBERT from sextant angles taken at the stations.

All control was accurate and adequate.

G. SHORELINE AND TOPOGRAPHY: The source of shoreline and topographic detail is given in paragraph "E" of this report. No revision was found necessary during the field work.

The rugged shoreline and offlying rocks prevented complete delineation of the low-water line.

H. SOUNDINGS: Standard methods of sounding were used throughout. Lead-lines were checked frequently, sheave tests were made, bar checks were taken in accordance with instructions, and scale comparisons were taken.

Foot-scale and fathom-scale soundings were recorded on both vessels and handlead developments were made on shoal areas. Drift sounding over shoals was done when necessary to obtain least depths.

Fathometer Corrections, Index Corrections and Tide Reducers were entered in the sounding volumes. The Fathometer Corrections combined as one correction the Bar Check Corrections, Temperature and Salinity Corrections, Settlement and Squat Corrections, and Scale Corrections. Their determination is given in a separate report on Fathometer Corrections covering all work on Sheets (H-7055, H-7152 and H-7153.) This method varies from the suggested procedure in that mean values of Bar Checks were used, based on the facts that the mean value of many observations is nearer the correct value than any individual observation, and that Bar Checks taken on some occasions are obviously in error due to indeterminate causes. (1946)

I. CONTROL OF HYDROGRAPHY: Standard sextant fixes were used throughout, and no adjustment of any lines is necessary.

J. ADEQUACY OF SURVEY: This survey is complete and adequate to supersede prior surveys for charting. The bottom in the area is extremely irregular, and from evidence visible in areas bare at low water apparently boulder strewn. There are many shoals and islands. It is believed that no further sounding is required, and that even a wire drag survey would disclose only inconsequential differences in depth. Satisfactory junctions were made with all adjoining surveys, as noted in paragraph "B". No holidays or excessive differences exist although in most cases lesser depths were obtained on shoals than were found in earlier surveys. The depth curves can be adequately drawn.

K. CROSSLINES: Approximately 10% of crosslines were run.

L. COMPARISON WITH PRIOR SURVEYS: Since all prior surveys of this area as listed in "B" are sufficiently old to have been included in the chart reviews, comparison will be made only with Chart 309 in paragraph "M".

M. COMPARISON WITH CHART: Chart 309, the largest scale chart in this area, is used in this comparison. In general the depths on the chart agree with the soundings on this survey.

The following tabulation gives soundings at all shoal indications marked for investigation on the Review of Chart 309. The positions refer to the "Survey Depths", and in most cases the "Charted Depth" is in slightly different position on the same shoal. Extensive investigation was generally found unnecessary. *(Chart 309 data 10-6-47)*

<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>SURVEY DEPTH</u>	<u>CHARTED DEPTH</u>	<u>REMARKS</u>
		feet	feet	
44-06.21 ✓	68-33.78 ✓	7 1/2 ✓	19 7	Temporary marker buoy placed for survey only. Investigated 1 1/2 hrs. Position 13-x.
44-05.90 ✓	68-33.42 ✓	30 ✓	29 ✓	Between positions 79 and 80-E ✓
44-04.94 ✓	68-34.73 ✓	9 ✓	7 ✓	Position 207-w. Extensive search failed to disclose the 7-foot depth.
44-06.30 ✓	68-34.34 ✓	---	---	Rock uncovers 4 1/2 feet at MLW. Position 151-g.
44-05.07 ✓	68-35.43 ✓	0 ✓	1 ✓	Between positions 20 and 21-x. ✓
44-05 ✓	68-36.1 ✓	---	---	Reefs that uncover at MLW at north and south entrances of Richs Cove appear as sunken rocks on Chart. Between position 81 and 83-y. ✓
44-04.98 ✓	68-36.06 ✓	7 ✓	6 ✓	
44-04.83 ✓	68-35.89 ✓	4 ✓	3 ✓	Between positions 1-and 2-p

(4) Chart 309
Print date 10-6-47

<u>Latitude</u>	<u>Longitude</u>	<u>Survey Depth</u> feet	<u>Charted Depth</u> feet	<u>Remarks</u>
44-04.75	68-35.80	3		
44-04.70	68-35.80	3	2	Two 3-foot spots near the one 2-foot on the chart
44-04.63	68-34.90	20	20	Between positions 93 and 94-w
44-04.82	68-34.98	28	32	
44-04.84	68-33.49	26	27	Between positions 222-and 223-g.
44-04.08	68-32.92	18	18	Position 2-y (17ft. adjacent to 18ft. on Smooth sheet.)
44-03.72	68-34.32	16	27	
44-03.18	68-33.09	33	33	
44-02.79	68-32.85	30	58	General shoal extending toward islet.
44-02.65	68-32.95	60	58	
44-02.93	68-33.55	26	30	Between positions 18-and 19-l.
44-02.90	68-33.87	27	48	
44-02.57	68-34.02	26	31	Between 58- and 59-J
44-02.66	68-34.18	4	7	
44-02.80	68-34.60	17	38	Position 51-y
44-02.80	68-34.09	8	10	
44-02.60	68-35.63	7	10	Another 10 ft spot nearby (on smooth sheet.)
44-01.88	68-35.73	26	42	
44-01.78	68-36.45	19	19	
44-01.85	68-34.89	19	55	Position 68-y
44-01.98	68-34.58	12	25	
44-01.75	68-33.42	57	60	(48 & 55 ft. nearby on smooth sheet.)
44-01.56	68-33.81	61	63	
44-01.22	68-34.06	8	7	
44-01.19	68-34.45	29	55	
44-01.30	68-35.84	74	76	(60 ft. sp. nearby on smooth sheet.)
44-00.95	68-35.86	30	30	a 33 & 34
		32	46	Several 32 foot spots nearby on smooth sheet.

Latitude	Longitude	Survey Depth	Charted Depth	Remarks
44-00.98 ^v	68-35.43 [']	42 42	39 [']	
44-01.12 [']	68-36.62 [']	42	10 ²	Shoal making out from shore.
44-00.95 [']	68-36.14 ²	82	4 [']	
44-00.75 ¹	68-35.86 [']	24 [✓]	45 24 ^v	
44-00.50 ²	68-36.17 [']	17 [✓]	17 45 ^x	
44-00.30 ¹	68-35.84 [']	(1) * 21 [✓]	1 [✓]	Spot on Eastern Ear Ledge uncovers 1 foot MLW

N. DANGERS AND SHOALS: Attention is called to the following shoal spots not tabulated under "M" of this report. The previously charted shoals on which lesser depths were found have been reported under "M" and are not repeated here.

Position	Latitude	Longitude	Depth	Remarks
5-6 F	44-06.40 [']	68-34.64 [✓]	23 ⁵	
1 x	44-06.17 [']	68-33.95 [']	9 1/2	(see note Vol II, pg 62)
8 w	44-06.25 ¹	68-33.43 [']	14 ²	
4-5 d	44-05.80 [']	68-35.59 [']	22 22	
122-123 w	44-05.66 [']	68-35.14 [']	28 28	
17-18 w	44-05.67 06.48 [']	68-33.87 55 [']	10 ^v	
111 w	44-05.53 [']	68-34.58 ²	-1 (reef)	
116-117 g	44-05.47 [']	68-33.96 [']	13 [']	
62-63 g	44-05.43 34 [']	68-34.38 [']	15 14	
40-41 g	44-05.15 [']	68-34.49 [']	12 [']	
60-61 w	44-05.07 [']	68-34.7A ⁰	15 4 [']	
128-12A u	44-05.28 [']	68-35.57 [']	13 2 [']	
---	44-04.55 [']	68-35.61 [']	7 6 [']	
---	44-04.73 [']	68-35.38 ⁵	27 [']	
---	44-04.09 [']	68-35.58 [']	* 4 (2)	
---	44-04.12 [']	68-35.58 [']	* 4 (4)	
---	44-04.12 [']	68-35.66 [']	4 [']	
175-176 m	44-02.58 [']	68-35.96 [']	28 5 [']	
95 x	44-02.68 [']	68-35.62 [']	10 9 [']	
---	44-02.52 [']	68-35.30 [']	26 [']	
---	44-02.7A ²	68-35.12 [']	10 9 [']	
43-44 k	44-02.24 [']	68-36.24 [']	4 5 [']	
45 S	44-00.62 [']	68-36.47 [']	8 [']	
5-6 S	44-00.38 ⁹	68-36.6A 7 [']	18 17 [']	

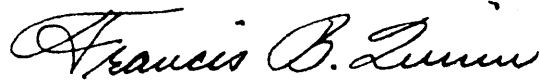
O. COAST PILOT INFORMATION: There are no good anchorages within the limits of this sheet. The Ship GILBERT anchored in the lee of various small islands, but none are recommended. Good anchorages at nearby islands covered by the Coast Pilot.

The buoyed channel to the east and north of Great Spoon Island and to the west of Fog Island can be used for navigation, however, it is inadvisable to attempt passage through this channel between islands during foggy weather because of the locations and large number of shoals and rocks in the area. No courses are recommended for the buoyed channel because of the variable currents with variable winds and tides.


P. AIDS TO NAVIGATION: Aids to navigation are reported separately on Form 567, Chart sections for supplying information on floating aids to the U.S. Coast Guard ^{are} prepared separately. ✓

Q-Y: There is nothing to report under these headings.

This report prepared by direction of and in consultation with the Commanding Officer, Ship GILBERT.


Francis B. Quinn
Lt. Comdr., USC&GS

Approved & Forwarded


W.F. Malnate, Lt. Comdr., USC&GS
Commanding Ship GILBERT

TIDE NOTE

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7152 (FIELD NO. GI-1146)

Tide reducers were obtained from portable-automatic tide gage No. 159 located at Burnt Coat Harbor, Swans Island, in latitude $44^{\circ} - 08.7'$, longitude $68^{\circ} - 26.97'$. This gage was established by W. F. Malnate on 23 May 1946, operated by personnel of the Ship GILBERT, and discontinued on 16 October 1946. Scale 1:30 (0-17 feet) was used.

The Washington Office determined the tidal planes, and furnished the hourly heights necessary for reduction of soundings.

STATISTICS SHEET H-7152 (FIELD NO. GI-1146)

DATE 1946	VESSEL	DAY	VOL.	H.L. SDGS.	WIRE SDGS.	POSITIONS	STAT MI. SDGS.	TOTAL STAT. MI. RUN
7/13	101	a	1			238	38.4	43.9
7/15	101	b	2			118	19.9	24.3
7/16	101	c	2,3			231	32.4	38.1
7/17	101	d	3			241	42.6	47.2
7/18	101	e	4	22		40	1.2	4.6
7/24	101	f	4			34	5.4	7.6
7/26	101	g	4,5			240	35.9	39.3
7/27	101	h	5			200	32.7	39.4
7/28	101	j	5,6			200	36.0	41.7
7/29	101	k	6			175	26.7	34.6
7/30	101	l	7	2		173	28.6	35.8
8/9	101	m	7,8			199	36.5	41.1
8/10	101	n	8			70	9.7	17.7
8/29	101	p	8	2		10	0.9	6.1
9/13	101	q	8			43	6.1	13.0
9/18	101	r	9			96	14.4	19.0
9/19	101	s	9	3		175	28.5	32.0
9/26	101	t	10			32	4.8	8.2
9/27	101	u	10	2		127	15.7	21.5
10/9	101	v	10,11			212	27.9	33.0
10/10	101	w	11	1		207	34.3	38.9
10/11	101	x	11 & 19	11		101	8.5	21.0
10/17	101	y	19	4		85	8.8	16.8
7/10	GILBERT	A	12			67	16.5	25.5
7/11	"	B	12			140	32.2	30.5
7/14	"	C	12,13			267	61.7	64.0
7/31	"	D	13,14			267	55.9	62.9
8/1	"	E	14			96	24.5	53.6
8/7	"	F	14,15		1	186	39.4	44.2
8/8	"	G	15			276	58.9	42.6
8/27	"	H	15,16		2	267	49.5	58.8
8/28	"	J	16,17			290	56.3	59.9

Totals 47 3 5103 890.0 1066.8

Area 24.4 Square Statute Miles

FATHOMETER CORRECTIONS

USC&GS GILBERT
1946
(Fathometer #53)

1. The tabulations below include all fathometer corrections (Bar, T.&S., Scale, and Settlement & Squat). Tide Reducers and Index Corrections must also be entered. Index Corrections only apply when the Initial on the fathogram varies from the Initial given at the top of tabulation below.

29 May to 27 June 1946

Corrections for Ship GILBERT (Initial 4.0 ft.) S C A L E S					Corrections for Launch 101 (Initial 0.0 ft.) S C A L E S				
From (ft)	To (ft)	A.C.E. (ft)	B (ft)	D (ft)	From (ft)	To (ft)	A.C.E. (ft)	B (ft)	D (ft)
0	28	+1.0	-	-	0	22.0	0.0	-	-
28.1	66	+1.5	+1.0	-	22.1	46.3	+0.5	0.0	-
67	99	+1.0	+0.5	-	46.4	81	0.0	-0.5	-
100	145	0.0	-0.5	+1.0	82	127	-1.0	-1.5	0.0
146	191	-1.0	-1.5	0.0	128	174	-2.0	-2.5	-1.0
192	237	-2.0	-2.5	-1.0	175	220	-3.0	-3.5	-2.0
238	283	-3.0	-3.5	-2.0	221	266	-4.0	-4.5	-3.0
284	310	-4.0	-4.5	-3.0	267	310	-5.0	-5.5	-4.0

Foot
Scale

(Initial 4.0 fms)

(Initial 0.0 fms)

From (fms)	To (fms)	A.C.E. (ft)	B (ft)	D (ft)	From (fms)	To (fms)	A.C.E. (ft)	B (ft)	D (ft)
0	5.2	-18.5	-	-	0	6.9	+0.5	-	-
5.3	12.2	-19	-	-	7.0	14.0	0.0	-	-
12.3	23.6	-20	-	-	14.1	24.6	-1.0	-	-
23.7	31.1	-21	-	-	24.7	32.2	-2.0	-	-
31.2	38.7	-22	-25.5	-	32.3	39.6	-3.0	-6.5	-
38.8	46.2	-23	-26.5	-	39.7	47.2	-4.0	-7.5	-
46.3	50	-24	-27.5	-	47.3	50	-5.0	-8.5	-

Fathom
Scale

28 June to 17 October 1946

Corrections for Ship GILBERT (Initial 4.0 ft.) S C A L E S					Corrections for Launch 101 (Initial 0.0 ft.) S C A L E S				
From	To	A.C.E.	B	D	From	To	A.C.E.	B	D
0	28	+1.0	-	-	0	22	0.0	-	-
28.1	66	+1.5	+1.0	-	22.1	46.3	+0.5	0.0	-
67	138	+1.0	+0.5	+2.0	46.4	96	0.0	-0.5	+1.0
139	231	0.0	-0.5	+1.0	97	196	-1.0	-1.5	0.0
232	310	-1.0	-1.5	0.0	197	278	-2.0	-2.5	-1.0
					279	310	-3.0	-3.5	-2.0

Foot
Scale

(Initial 4.0 fms) S C A L E S

(Initial 0.0 fms) S C A L E S

From (fms)	To (fms)	A.C.E. (ft)	B (ft)	D (ft)	From (fms)	To (fms)	A.C.E. (ft)	B (ft)	D (ft)
0	5.2	-18.5	-	-	0	6.9	+0.5	-	-
5.3	12.2	-19	-	-	7.0	14.0	0.0	-	-
12.3	27.4	-20	-	-	14.1	29.6	-1.0	-	-
27.5	43.1	-21	-24.5	-	29.7	45.0	-2.0	-5.5	-
43.2	50	-22	-25.5	-	45.1	50	-3.0	-6.5	-

Fathom
Scale

LIST OF SIGNALS
H-7152

Triangulation:

COLBY LEDGE BEACON, 1933
DOUGLAS, 1945
EASTERN, 1945
GREAT SPOON I., 1868-1933
HORSE, 1945
ISLE AU HAUT, 1854-1933
POPLAR, 1945
SHORE, 1945
TURNIP, 1945
WHITE LEDGE, 1907
YORKI., 1868-1933

Topographic:

Abe	T-8553	Gable, 1945	T-8553
Back, 1945	T-8554	His	T-8554
Chimney, 1945	"	Hod	"
Cur	"	Hut	"
Cut	T-8553	Ida	T-8553
Deb	"	It, 1944	T-8553
Den	"	Job	T-8553
Dud	T-8554	Kid	"
Fly	"	Lis	"
Fox	"	Lug	T-8554

Max	T-8553
Plan, 1945	T-8554
Pro	T-8553
Rie	"
Saddle, 1944	T-8554
Tax	"
Tom	T-8553
Windmill, 1945	T-8554
Wink, 1945	"
Yel	"
Zoo	T-8553

Hydrographic:

Bill	Lot	Sar
Cow	Mat	She
Dud	Mon	Sed
Gun	Nes	Ton
Jet	Pep	Top
Lap	Rat	Wet
Lib	Rim	Wit

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

ALREADY CHARTED
~~TO BE CHARTED~~
~~TO BE EXCLUDED~~

LANDMARKS FOR CHARTS
(FLOATING AIDS TO NAVIGATION)

USCGS GILBERT, Norfolk, Va., 31 May 1947, 1948

These marks and their positions have been checked after listing. The positions given have been checked after listing. The positions of these buoys, already charted, were checked in the field as indicated.

W. F. Malina
Chief of Party

GENERAL LOCALITY	GULF OF MAINE	POSITION			METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE	LONGITUDE	DATUM						
NAME AND DESCRIPTION		° ' "	° ' "	D. M. METERS	D. P. METERS					
THIS LIST TO ACCOMPANY HYDROGRAPHIC SHEET H-7152 (FIELD NO. GI-1146)										
	Buoy S ¹ A ¹ (Blue Hill Rock)	44 05	68 32	239	N.A. 1927	*Hydro, 10/9/46	X	X		309 1202
	Buoy C1 (Drunkard Ledge)	44 04	68 32	756	"	"	X	X		309 1202
	Buoy S1 (York I.)	44 04	68 34	296	"	10/10/46	X	X		309 1202
	Buoy S2 (Richs Ledge)	44 04	68 34	1651	"	"	X	X		309 1202
	Buoy S3 (Airy Ledge)	44 05	68 35	260	"	"	X	X		309 1202
	Buoy N2 (Eastern Ear Ledge)	44 00	68 35	307	"	9/19/46	X	X		309 1202
*Sextant angles taken at each buoy.		Sheet H-7152 (Field No. GI-1146).		Positions						
185-V, 199-V, 204-W, 205-W,		206-W, and 112-S, respectively.								
							Sealed by FBQ Checked by AK			
							Check-plotted FBQ			

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS
(PLACING AIDS TO NAVIGATION)

USCGC S GILBERT, Norfolk, Va., 31 May 1947, 2028

ALREADY CHARTED
TO BE REMOVED OR RECORRECTED
TO BE RECORRECTED

In accordance with the following regulations, which have been inspected from survey records to determine their accuracy and landmarks, have been checked and found to be correct.

The positions given have been checked after listing.

The positions of these buoys, already charted, were checked in the field as indicated.

W. F. S. S. S. S.
Chief of Party.

GENERAL LOCALITY	GRIP OF WATER	POSITION			DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE	LONGITUDE	D. M. METERS							
THIS LIST TO ACCOMPANY HYDROGRAPHIC SHEET H-7152 (FIELD NO. 01-1146)											
Buoy 81A* (Blue Hill Rock)		44 05	68 32	239	N.A. 1927	*Hydro.	10/9/46		X		309 1202
Buoy 01 (Drumhead Ledge)		44 04	68 32	756	"	"	"		X		309 1202
Buoy 81 (York I.)		44 04	68 34	1113	"	"	10/10/46		X		309 1202
Buoy 82 (Blons Ledge)		44 04	68 34	942	"	"	"		X		309 1202
Buoy 83 (Alty Ledge)		44 05	68 35	536	"	"	"		X		309 1202
Buoy 82 (Eastern Bar Ledge)		44 00	68 35	1052	"	"	9/19/46		X		309 1202
*Sight angles taken at each buoy. 185-W, 199-W, 204-W, 205-W, 206-W, and 112-S, respectively.											
Sheet H-7152 (Field No. 01-1146). Positions											
								Spaled by FBQ Checked by AX			
								Check-plotted FBQ			

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

APPROVAL SHEET H-7152 (Field No. GI-1146)

The boat sheet and sounding records were inspected frequently during and at the conclusion of the field work. Both are approved. The Descriptive Report is approved.

The determination of fathometer corrections from mean bar check curves and temperature and salinity curves as described in the Fathometer Corrections report for the season was examined and approved.



W. F. Malnate
Lieut. Comdr. USC&GS
Commanding Ship GILBERT

A D D E N D U M

to accompany

HYDROGRAPHIC SURVEY H-7152 (Field No. GI-1146)

*Concurred in &
Supplemented by the
Washington Office,*

NOTE: The corrections to depths shown in red in the main body of this report were made in the Norfolk Processing Office and are in accordance with the depths shown on the smooth sheet.

115-117 D, 131-133 D and 138-140 D, latitude $44^{\circ}02.80'$ and longitude $68^{\circ}31.90'$. The soundings on these lines are in disagreement by 2 to 3 fathoms. Lines 115-117 D and 138-140 D are recorded on the fathogram in fathoms on the A scale, whereas, the soundings on line 131-133 D are recorded in feet on the E scale. Since the E scale profile is faint and not too clear, it is recommended that where a discrepancy in depth occurs between the above-mentioned lines, the soundings as recorded on the fathom scale be plotted.

*Speed correct-
ions applied;
sdgs. in
agreement.*

115-118 G, latitude $44^{\circ}00.75'$ and longitude $68^{\circ}34.95'$ The soundings shown on this line appear to be 2 to 3 fathoms too deep.

*Speed cor-
rections ap-
plied, sdgs
in agreement.*

Respectfully submitted,

Isadore M. Zeskind

Isadore M. Zeskind
Cartographic Engineer

Norfolk, Va.
September 4, 1947

Approved and Forwarded

George L. Anderson
George L. Anderson
Supervisor Southeastern District

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~XXXXX

15 October 1947

Division of Charts: H. W. MURRAY

Plane of reference approved in
19 volumes of sounding records for

HYDROGRAPHIC SHEET

7152

Locality - East of Isle Au Haut, Maine

Chief of Party: W. F. Malnate in 1946
Plane of reference is mean low water, reading
2.1 ft. on tide staff at Burnt Coat Harbor
38.4 ft. below B. M. 4 (1911)

Height of mean high water above plane of reference is 9.5 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section
Chief, ~~Division of Tides and Currents.~~

GEOGRAPHIC NAMES

Survey No.

17352

1 Name on Survey

A On Chart No.
 B On previous survey No.
 C On U. S. quadrangle Maps
 D From local information
 E On local Maps
 F P. O. Guide or Map
 G Rand McNally Atlas
 H U. S. Light List

1	A	B	C	D	E	F	G	H	K
<u>Maine</u>			(for title)						USGB 1
<u>Penobscot Bay</u>			" "						2
<u>Jericho Bay</u>			" "						3
<u>Isle en Haut</u>									4
<u>Eastern Head</u>									5
<u>Eastern Ear</u>									6
<u>Cape Ann Ledge</u>									7
<u>Eastern Ear Ledge</u>									7
<u>Black Horse</u>									8
<u>White Horse</u>									9
<u>Colt Ledge</u>								USGB	10
<u>Little Spoon Island</u>									11
<u>Great Spoon Island</u>									12
<u>Great Spoon Ledge</u>									13
<u>Horseman Ledge</u>									14
<u>Seal Ledges</u>									15
<u>Halfway Rock</u>									16
<u>Turnip Yard</u>									17
<u>The Cow Pen</u>									18
<u>York Island</u>									19
<u>York Ledges</u>			(vertical type, as bare rocks exist)						20
<u>Popplestone Point</u>									21
<u>Rabbits Ear</u>									22
<u>Doliver Island</u>									23
<u>Douglas Cove</u>									24
<u>Richs Ledge</u>									25
<u>Richs Cove</u>									26
<u>Richs Point</u>									27

GEOGRAPHIC NAMES

Survey No.

H-1752

2 Name on Survey

On Chart No.
On previous survey No.
On U. S. quadrangle Maps
From local information
On local Maps
P. O. Guide or Map
Rand McNally Atlas
U. S. Light List

	A	B	C	D	E	F	G	H	K	
<u>Torrey Ledge</u>										1
<u>Drunkard Ledge</u>										2
<u>White Ledge</u>										3
<u>Green Ledge</u>										4
<u>S. Popplestone Ledge</u>										5
<u>Blue Hill Rock</u>										6
<u>Spirit Ledge</u>										7
<u>Saddleback</u>										8
<u>N. Popplestone Ledge</u>										9
<u>Fog Island</u>										10
<u>Eastern Fog Island Ledges</u>										11
<u>Western Fog Island Ledges</u>										12
<u>Southern Mark Island</u>										13
<u>Colby Ledge</u>										14
<u>Channel Rock</u>									USGB	15
<u>Gooseberry Island</u>										16
<u>McGlathery Island</u>										17
<u>Wheat Island</u>										18
<u>Burnt Island</u>										19
<u>Burnt Ledge</u>									USGB	20
<u>Airy Ledge</u>										21
										22
										23
<u>Burnt Coat Harbor, Swans Island</u>										24
										25
										26
										27
										M 234

Names underlined in red are approved.
8/20/48 L. Heck

(tide staff location): Swans I is
USGB decision

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 17152..

Records accompanying survey:

Ad. Wk. (1949) $\frac{1}{2}$ $\frac{2}{19}$
 Boat sheets; sounding vols.; wire drag vols.;
 bomb vols.; graphic recorder rolls
 special reports, etc.

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	5103
Number of positions checked	.....	233 ⁺
Number of positions revised	.....	20 ⁺
Number of soundings revised (refers to depth only)	.....	970
Number of soundings erroneously spaced	.....	5 ⁺
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	6 hr
Junctions	Time	2 hr
Verification of soundings from graphic record	Time	20 hrs. ⁺
Verification by <i>I.M. Zaskind</i>		24 hr
<i>A.R. Stirni</i> 255		255 hr
<i>C.P. Reed</i> - 156 hrs. Total time		156 hr
		435
		189
Reviewed by <i>I.M. Zaskind</i>	Time	189
	Date	Aug. 20, 1948

Ad. Wk. (1949) { Processed by: W.F. Hubbard Jr. ... 32 hrs. 8-18-49
 Verified by: T.A. Dinsmore ... 16 " 10-20-49
 Reviewed by: T.A. Dinsmore ... 4 " 10-21-49

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7152

FIELD NO. GI-1146

Maine, Gulf of Maine, South Approach to Jericho Bay
Surveyed in July - October, 1946 Scale 1:10,000
Project No. CS-265

Soundings:

Control:

808 Fathometer
Handlead

Sextant fixes on shore signals

Chief of Party - W. F. Malnate
Surveyed by - W. F. Malnate and J. D. Thurmond
Protracted by - R. R. Wagner
Soundings plotted by - A. G. Atwill
Verified and inked by - A. R. Stirni and C. P. Reed
Reviewed by - I. M. Zeskind, August 20, 1948
Inspected by - R. H. Carstens

1. Shoreline and Signals

The source of the shoreline and signals is given in the Descriptive Report.

2. Sounding Line Crossings

Considering the irregular bottom of the area covered by the present survey, depths at crossings are in good agreement.

3. Bottom Configuration and Depth Curves

Depth curves could be adequately drawn except in foul inshore areas. The 90-ft. and 150-ft. curves have been added to emphasize bottom relief.

The bottom is very irregular. Reefs, ledges and a number of shoals which rise from much greater depths, are found throughout the area covered by the present survey.

4. Adjoining Surveys

Adequate junctions were effected with contemporary surveys H-7058 (1945) on the south and H-7150 (1946) on the southwest. Project surveys on the north and east have not yet been accomplished.

5. Comparison with Prior Surveys

- A. H-1074 (1870) Scale 1:20,000
H-1372 (1877) " 1:40,000
H-1407 (1878-1905)" 1:10,000

A comparison of the prior surveys with the present survey indicates no general changes in depth. Discrepancies which occur are due to erroneous spacing of soundings on the prior surveys. These soundings have been properly plotted and are now in agreement with the present survey. Numerous bottom characteristics and several prior soundings have been carried forward to supplement the present survey.

The present survey including the previously mentioned additions and supplementary bottom characteristics is adequate to supersede the prior surveys in the common area.

- B. H-2831 W.D. (1907) Scale 1:20,000

Present depths are in harmony with the effective wire drag depths from this survey. However, the 25-ft. sounding (Chart 309) in lat. 44° 05.31', long. 68° 33.39' falls in present depths of 90 ft. and was found to be in error. The right angle of the fix controlling this sounding was questioned in the sounding records of H-2831 W.D. By changing the right angle one degree, the 25 ft. falls near a 31-ft. shoal on the present survey. In view of the uncertainty of the recorded position, the 25 ft. has been replotted (as described above) and carried forward to the present survey.

6. Comparison with Chart 309 (Print date 10/6/47)

A. Hydrography

Charted hydrography originates principally with the previously discussed surveys supplemented by critical depths obtained from the present survey before verification and review, and from Chart Letters 125 (1923), 80 (1932) and 691 (1932). These sources need no further consideration except for the following charted features:

1. The 7-ft. sounding charted in lat. $44^{\circ} 05.00'$, long. $68^{\circ} 34.70'$ originates with Chart Letter No. 125 (1923). This depth was reported by fishermen who stated they could touch bottom with a 7-ft. oar. Nine feet is the least depth obtained on this shoal on the present survey and should supersede the charted 7-ft. sounding.
2. The 7-ft. sounding charted in lat. $44^{\circ} 01.26'$, long. $68^{\circ} 34.11'$ should be disregarded. Originating with H-1074 (1870), the 7 falls in present depths of 36 to 50 ft. One hour drift sounding on the present survey disproves the prior sounding in its charted position. The 7 is considered displaced in position and should actually fall about 100 meters southward where an 8 ft. sounding appears on the present survey. The 8-ft. sounding is considered adequate for charting.
3. No source could be found for the 55-ft. sounding in lat. $44^{\circ} 05.38'$, long. $68^{\circ} 33.14'$. This sounding was charted as $10\frac{1}{2}$ fathoms prior to 1912 and subsequently as 55 ft. The 55 ft. is considered disproved by the present depths and, therefore, should be disregarded.
4. The following soundings are charted out of position:
 - a. The positions of the 138-ft. and 48-ft. soundings charted from H-1074 (1870) in lat. $44^{\circ} 00.96'$, long. $68^{\circ} 35.00'$ and in lat. $44^{\circ} 00.49'$, long. $68^{\circ} 36.64'$ respectively, have been revised on the original surveys. In their corrected positions these soundings can be adequately superseded by present depths.
 - b. The 132-ft. sounding charted in lat. $44^{\circ} 03.38'$, long. $68^{\circ} 31.60'$, originates with H-1372 (1877) where it is plotted in lat. $44^{\circ} 03.49'$, long. $68^{\circ} 31.60'$. In its correct position the prior sounding can be adequately superseded by present depths.
 - c. The 36-ft. sounding charted in lat. $44^{\circ} 06.57'$, long. $68^{\circ} 33.95'$ originates with H-1407 (1878) where it is plotted in lat. $44^{\circ} 06.49'$, long. $68^{\circ} 33.97'$. In its correct position the prior sounding can be adequately superseded by present depths.

5. The 132-ft. sounding charted in lat. $44^{\circ} 02.18'$, long. $68^{\circ} 32.70'$ is assumed to be plotted in error; its correct position is approximately $\frac{1}{2}$ mile west. A 198-ft. sounding, which is comparable to present depths falls at this location on H-1074 (1870).

B. Aids to Navigation

All aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended, except that the spar buoy marking Airy Ledge has been changed to a can buoy as reported in H.O. Notice to Mariners No. 20, 1948. This change was made subsequent to the present survey. The charted position of the buoy is 150 meters east of the position on the present survey.

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was adequate.
- c. On several days' work it was necessary for the verifier to make depth corrections ranging from 2 to 11 percent because of variations in the fathometer speed.

8. Compliance with the Project Instructions

The survey complies with the project instructions except as noted below in paragraph 9.

9. Additional Field Work Recommended

It is recommended that split lines be run in the following areas:

<u>Latitude</u>	<u>Longitude</u>	
a. $44^{\circ} 02.80'$	$68^{\circ} 33.15'$	} accomplished June 1949
b. $44^{\circ} 03.10'$	$68^{\circ} 33.25'$	
c. $44^{\circ} 00.50'$	$68^{\circ} 36.20'$	

The area covered by this survey is very broken and to insure that least depths have been obtained on all shoals, it is recommended that the hydrography be supplemented by wire drag. The most important shoals are listed below:

<u>Sounding</u>	<u>Latitude</u>	<u>Longitude</u>
22 ft.	$44^{\circ} 05.80'$	$68^{\circ} 35.58'$
12 ft.	$44^{\circ} 05.27'$	$68^{\circ} 35.56'$
28 ft.	$44^{\circ} 05.67'$	$68^{\circ} 35.13'$

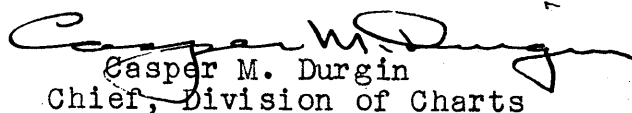
Con't from Page 4

11 ft.	44° 05.13'	68° 34.49'
25 ft.	44° 06.40'	68° 34.62'
29 ft.	44° 05.90'	68° 33.33'
30 ft.	44° 04.60'	68° 31.67'
16 ft.	44° 03.73'	68° 34.32'
35 ft.	44° 03.37'	68° 34.18'
32 ft.	44° 03.59'	68° 33.60'
35 ft.	44° 01.35'	68° 34.64'
17 ft.	44° 00.51'	68° 36.16'
24 ft.	44° 00.76'	68° 35.86'
31 ft.	44° 05.99'	68° 32.52'
21 ft.	44° 03.85'	68° 34.62'
25 ft.	44° 01.88'	68° 35.73'
17 ft.	44° 00.40'	68° 36.67'

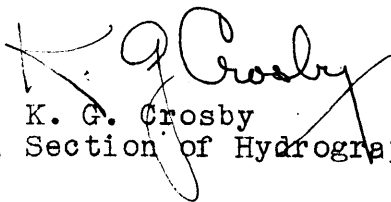
Examined and approved:



H. R. Edmonston
Chief, Nautical Chart Branch



Casper M. Durgin
Chief, Division of Charts



K. G. Crosby
Chief, Section of Hydrography



C. K. Green
Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 11052

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9/18/47	309	J.A. McGann	Before After Verification and Review <i>Critical soundings only.</i>
7/31/50	1106	R. Segari	Before After Verification and Review <i>Crit. edgs. only.</i>
8/4/50	309	J.A. McGann	Before <u>After</u> Verification and Review <i>Partially applied.</i>
8/21/50	308	Chas R. Wittmann	Before After Verification and Review <i>Partially applied thru chart 309 c.p. No 5</i>
12/4/54	308 Recon	JHE	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
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			Before After Verification and Review
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			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.

7152

Additional work

Diag'd. on Diag. Ch. No. 1202

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. Office No. H-7152(Ad.Wk.)

LOCALITY

State Maine

General locality Gulf of Maine

Locality South Approach to Jericho Bay

194 9

CHIEF OF PARTY

W.F.Malnate

LIBRARY & ARCHIVES

DATE

B-1870-1 (1)

7152

Additional work

Additional work

Form 537
(Ed. June 1946)

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-7152 (Add. Wk. 1949)

Field No. -

State Maine

General locality Gulf of Maine

Locality South Approach to Jericho Bay

Scale 1:10,000 Date of survey 27 & 29, June, 1949

Instructions dated 13 April, 1949

Vessel Ship GILBERT & LAUNCH # 101

Chief of party W.F. Malnate

Surveyed by H.D. Reed, Jr.

Soundings taken by fathometer, ~~and by hand sounding~~ 808 type

Fathograms scaled by Ship's Personnel

Fathograms checked by Ship's Personnel

Protracted by W.F. Hubbard, Jr.

Soundings penciled by W.F. Hubbard, Jr.

Soundings in ~~fathoms~~ feet at MLW MLLW

REMARKS: This work was processed in the Hydrographic Surveys Section of
the Washington Office

REG. NO. H-7152 (ADD. WK. 1949)

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7152 AD. WK. (1949)

Maine Coast

U.S.C. & G.S. Ship Gilbert

W. F. Malnate, Comdg.

1. The additional work specified in paragraph 4, of Supplemental Instructions - Project CS-265 dated 13 April 1949 was accomplished on 27 and 29 June 1949. The following signals which were located in 1946 were received and used for this additional work:

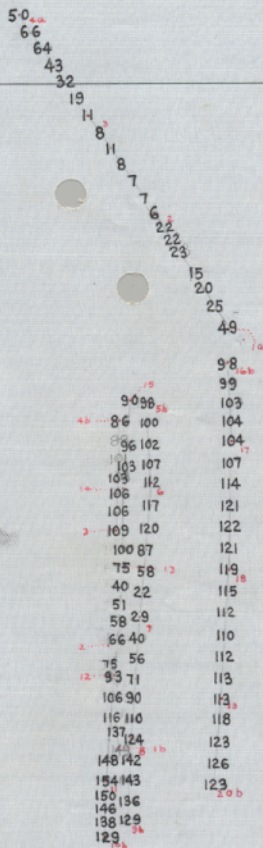
BILL, COW, DEB, GREAT, LOT, NOS, SHE, STERN, TOM,
TURNIP, WET, WIT, PRO and HORSE

2. A projection was drawn on standard boat sheet paper and the signals for control were transferred (by tracing) from the photostat of H-7152 smooth sheet furnished by the Washington Office.
3. The split lines specified were run and plotted in the field. The boat sheet soundings are reduced to M.L.W. using predicted tides for Head Harbor, Isle au Haut. Tide reducers from actual tides observed at Burnt Coat Harbor have been entered and checked in the sounding records.
4. On examining the boat sheet, prior to forwarding, it was noted that the line (pos. 1a - 4a) was inadvertently run in lat. 44° 00' 50" (approx.) instead of lat. 44° 00' 50" as specified. Additional lines were run in the latter location on 29 June ("b" day) on the way back to the base.
5. The survey is in an exposed area and over irregular bottom.
6. Soundings were obtained by 808 Fathometer. No corrections need be applied to the fathometer soundings. Depth comparisons by BAR CHECK are also less than 0.2 ft. in error through 50 feet on the "A" scale and less than 0.5 ft. in error in depths over 50 feet.

Submitted for: W. F. Malnate
Chief of Party
(by T.A.D.)

37'

68° 36'



44°-01'

H-7152
Ad. wk. of 1949

44°-00'

34'

68° 33'

83
 82
 81
 82
 80
 84
 67 43
 64 70 24
 66 75 24
 76 76 73
 86 84 C
 85 89
 87 82 21
 82 21
 78
 76 25
 74 7
 73 72 51
 66 52
 48 42 26
 40 38 21
 35 36
 18 34
 12 25 34
 12 21 2
 11 21 45
 10 29 37
 15
 15 8
 11 11 15
 21 25 15
 28 30 50
 28 42 28
 38 43
 38 45
 41 47 40
 42 56 40
 42 54 64
 41 54 57
 39 45 43
 39 48 57
 43 50 33
 31 61 41
 61 74 54
 65 52
 65 32
 87 55
 92 58
 94 65
 95 77 4
 95 95 28
 95 94 95 28
 83 97 101 12
 108 112
 113 116 23
 116 21
 115
 114 13
 111
 110
 107
 86
 61 12

44° 03'

H-7152
Ad. wk. of 1949

Nos
○

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

July 21, 1949

~~Division of Hydrography and Topography:~~

Division of Charts: R. H. Carstens

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 7152 (Additional Work)

Locality Approaches to Penobscot Bay
South Approach to Jericho Bay

Chief of Party: W. F. Malnate in 1949
Plane of reference is mean low water, reading
3.4 ft. on tide staff at Burnt Coat Harbor
38.3 ft. below B. M. 4 (1911)

Height of mean high water above plane of reference is 9.5 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section
Chief, ~~Division of Tides and Currents.~~

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7152
Ad. Wk. 1949

FIELD NO.-----

Maine, Gulf of Maine, South Approach to Jericho Bay
Surveyed in June, 1949
Project No. CS-265
Scale 1:10,000

Soundings:

808 Fathometer

Control:

Sextant fixes on shore signals

Chief of Party - W. F. Malnate
Surveyed by - H. D. Reed, Jr.
Protracted by - W. F. Hubbard, Jr.
Soundings plotted by - W. F. Hubbard, Jr.
Verified and inked by - T. A. Dinsmore
Reviewed by - T. A. Dinsmore, ~~June~~ 21, 1949
Inspected by - R. H. Carstens Oct.

The additional work consists of split lines in the vicinity of Eastern Ear and Great Spoon Islands. The additional work which is shown in red ink on the smooth sheet adequately completes the development of the two areas. The work also appears on two tracings attached to this report.

This additional work was smooth plotted in the Washington Office. The Descriptive Report was also prepared in this office from notes made in Vol. 1, of the sounding records by the Chief of Party.

The hydrography is now considered to be complete for the area covered. It should be noted, however, that supplementary wire-drag work has been recommended in the original review for the entire surveyed area.