6679

Form 504 Rev. April 1938

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Тор**одиори**сь

Hydrographic

Sheet No. H-6679 Feeld No. 1041

CLU CHANT & TENTO SUNTA

JUL 20 1942

ACC. No.

State 6. W. Alaska

LOCALITY

Kodiak - Afognak Imlands

Raspberry Strait

Eastern Part Entrance

19341

CHIEF OF PARTY

L. C. Wilder

U. S. GOVERNMENT PRINTING OFFICE 10222

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. 1041

REGISTER NO. H-6679

State	Alaska	
General local	lity Kodiak group Afognal	s Islands
Locality	Raspberry Strait, Eas	tern Entrance
Scale 1:10.0	Date of survey July	- Sept, 1941
	LESTER JONES	
	tyL.C. Wilder	
	L. C. Wilder, R. C. Bolstad	
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	E. Dennis 9/14/42	
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	datedApril]	
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	cessing Office.	

U. S. GOVERNMENT PRINTING OFFICE

COMBINED DESCRIPTIVE REPORT

to accompany

Hydrographic Sheet H-6679 (Field He. 1041) Hydrographic Sheet H-6680 (Field He. 1141) Hydrographic Sheet H-6681 (Field He. 2241)

USCAOS M.V.E. LESTER JOHES

L. C. Wilder, Comdg.

Season of 1941

Project 08-263

Raspberry Strait, S. W. Alaska

A copy of this combined report will accompany each of the three sheets. The Processing Office has added further notes after smooth plotting.

Instructions

Instructions for this survey dated April 1, 1941, Project 05-263.

SUBVEY METHODS

The hydrography was accomplished in an improvised catamaran of two dinghies secured together, while sounding by hand lead; in diesel launch No. 91, while sounding with an SOSA Fathemeter; and off the northwest approaches to the strait with the ship B. LESTER JOHES, while sounding with the Dorsey III Fathometer. The catamaran was used for the first line or two along the shores and in the passes about Little Raspberry Island. Throughout all sheets, lines were as a rule run parallel to the shoreline. In most cases it was possible to get the low water line or soundings close enough to the high water line so that the low water line could be drawn, after the shoreline is available. On sheet N-6681 (2241) because of the swell in Shelikof Strait, it was not possible to get inshore to locate the low water line.

On all sheets in order to avoid missing offlying rocks or other hydrographic features, the areas adjacent to the shoreline and other areas where there was possibility dangers might exist, were examined by dory at or near minus tides. It is believed that by so doing many features which would otherwise be missed, were located and placed on the hydrographic sheets.

Work was accomplished in a standard manner except that soundings were read and recorded in using the SOSA Fathometer and the graphs were not scanned at night. All jumps of importance in the soundings were recorded so that it was not necessary to scan the graph after the day's work.

At the shoalest part of the Marrows, the small boulders over a considerable area were located as to horizontal and vertical position by topography, in order to be able to define the controlling depth accurately.

DANGERS

See Coast Filot Notes.

DISCREPANCIES

See Processing Office Notes.

CHANNELS

See Coast Pilot Motes.

SHORKLINE

See Processing Office letter to Director dated May 5, 1942, a copy of which is enclosed in report for H-6681.

Anchoragus

See Coast Pilot Notes.

COMPARISON WITH PREVIOUS SURVEYS

The junction in Shelikof Strait with previous surveys agreed as well as could be expected, considering the small scale of the old surveys.

The junction and overlap with old surveys in Afognak Strait (scale 1:20,000; 1941 survey 1:10,000) agreed very poorly and for that reason present surveys were extended a considerable distance into the areas of the old surveys. The bottom in Afognak Strait is very ragged, the lines on the old surveys were much too far apart for a good survey and I would judge that the entire area of Afognak Strait should be resurveyed. However, I believe there is little possibility of full-powered steamers using this strait in the near future. I believe the Coast Pilot should warm larger vessels to navigate this area with caution.

GEOGRAPHIC HARRS

There is little information available on names in this area except from executives and workers at the three canneries in the Strait. Where a name is given below, that name was checked by more than one person unless otherwise stated.

Item 4 op

The following charted names were checked:

L. HELV

Raspberry Strait
/Steep Cape

Cape Muniliak Deranef Rock Afognak Strait Afognak Island

The following charted names were not used locally:

Shoal Point

Muskomee Bay Dolphin Point Mochlega Point

Tukuk Bay

The following names were checked with more than one person:

Mack May - the bight around the west side of Afognak Point
NeGreens Point and Reef - local name for Shoal Pt. and Reef
Little Raspberry Island
The Marrows - the pass east of Little Raspberry Island
The Slough - the pass west of Little Raspberry Island
Naskanareska May
Cottonwood May
Figer Cape
The Graben - the point at the east side of the entrance
to Selief May
Port Vakefield
Port Vita
Iron Greek Gannery

TIDES

A temporary tide staff was placed at hydrographic signal STAFF, Nochlega Point, for comparison with the gage at Machalni Island.

Fold Reach - the beach at Driver Bay

There is probably at least a foot difference in water level between the northwest and southeast ends of the Marrows at times when strong currents are running; however, the division line between reductionn from the Tiger Cape gage and the Machalni Island gage was selected in the middle of this pass as it is here that it first goes dry (at 22 ft. above MLLM). (24 ft is value from field fidal data) Pass bares only on Spring Tides

The gage at Tiger Cape did not operate well partly because of the wood float box and since the cleak which had recently been received aboard could not be adjusted to keep correct time.

CURRENTS

In the course of field work in Respherry Strait it has been observed on many occasions that after mid-flood tide the current through the east pass or Marrows flows to the southeast and that during the period of spring tides these currents attain considerable

velocity, which was estimated at 2 to 4 knots. This direction of flow was also observed to continue after high tide. Also the strength of this currect seemed to be augmented by vesterly winds in Shelikof and Raspberry Straits, which evidently "pile up" the flood at the south end of Raspberry Strait or north end of the narrows. It was assumed that the reason for these currents was the greater range in tide in Maspherry Strait as against the tide in Afognak Strait. Therefore it was assumed and observed that since the Raspberry Strait high waters are higher and the low waters are lower than those in Afognak Strait, that cometimes around mid tide this hydraulic head is cancelled, the current slacks, and at the latter half of the ebb tide the current reverses and flows northwest. However, at approximately 22 feet above Mill the pass vares and stops the movement of surrent. To substantiate this assumption the following observations were made on Sept. 25, 1941, while current observations were in progress in Raspbarry Strait farther north.

Date Sept. 25, 1941 All stations are mid-channel Time - 150 merådian

Veather SR Sterm Rain and fresh B'ly winds - Sea choppy

Station *	A B		10:50 AM 11:00 AM 11:20 AM	Ro current
•	C A		1:00 PH 1:25 PM	0.6 knots to northwestward 1.0 " " "
Station A		Let. 58° 57° 57°	00.15' 59.85' 59.4'	Long. 152° 54.5' 152° 53.3' 152° 52.15'

The west pass, west of Little Raspberry Island, is narrow with many dangerous reefs and rocks, strong currents at the narrows, and the channel is very difficult to follow. This pass is not recommended.

Current observations with current pole and Frice current meter were taken in mid-channel near the middle of Raspberry Strait as specified in the Instructions. (See report, "Current Observations, Raspberry Strait").

Descriptive report written by:

L. C. Wilder H. & G. Engr. Chief of Party

Forwarded, approved:

7. 3. 2. Sieme Officer in Charge

Seattle Processing Office

in Aformal Strait. Therefore it was assumed and observed only a bord and also low a bord along that he happearry Strait bigh waters are higher and the low a bord and to a find a special and a formal bireit, that a constitute and the strain and along the strain and a strain and

Referring to the doubtful positions and discrepancies in soundings found near the shore, hydrographic surveys of narrow passages with no shore line available would appear to cause confusion in not only identifying signals but also in using them in plotting positions.

Frequent changes in objects are made / necessary in observing fixes, and assurance as to correctness, particularly in case of short sounding lines, would be had by noting the relationship between plotted position and shoreline, if shown on the boat sheet. If, as in this case, the shore line from aerial photography is not available, it is considered essential to run the shore line with a planetable for use in the hydrographic survey.

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STATISTICS - Sheet H-6679

Statute miles of sounding :	lines	•	• •	•	•	•	• • 339 • 7
Number of soundings	• • •	•		•	•		 11,166
Number of positions	• • •	• •			•	•	 . 2,466
Area in square statute mile	es	•				•	 . 19.7

PROCESSING OFFICE NOTES - Sheet H-6679

The enlarged sketches on Part "C" showing wharves are made from dimensions given in the sounding record, in which there are important lacks, supplemented by enlargement of the topo sheets to a scale of 1:1,000.

The shoals and rocks are well indicated on the face of the sheet by curves and special notes and require no further mention here in detail. In general, sheet "C" is free and clear of dangers. There are numerous shoals on sheet "B", with a good channel winding through them west of Long. 152° 28; east of that longitude the channel shoals.

On sheet "A" the channels northeast and west of Little Raspberry Island are bare at low tide; the south shore of the island may be skirted with care by small boats.

BAD CROSSINGS

Sheet MAH:

Lat.	& Long.	Positions	Soundings	Remarks
57° 152°	58.861 51.42	41c + 6 (blue) 112b + 1 (blue)	2-5/6 fms. 2 fms.	Both fall on same spot Rough bottom - shoaler sag plotted
57° 152°	58.93' 51.25'	87a + 1 & 2 (gre 160b + 5 & 6 (bl	en) 1-2/6 to 1 ue) 4/6 to 4/6	14/6 fms. Lines cross- All sdgs plate fms. shool missed by handlead sdgs
57° 152°	58.581	50c + 1 (blue) 48c + 3 (blue)	6-1/6 fms. 5-1/6 fms.	Both fall on same spot - Rough bottom - shoaler sdg plotted
57° 152°	58.50' / 51.55'	48c+9 (blue)	2-1/6 fms.	Seems out of place according to surrounding soundings.

Sheet "A" continued:

Lat.	& Long.	Positions	Soundings	Remarks
57° 152°	58.791 52.401	72b (blue) 29-30b (blue)	5 fms. 5-4/6 to 6/6	The 5 fm. sounding skooler sag seems out of place plotted
57° 152°	58.891 54.351	llla (green) 168a+2 (green)	3-2/6 fms. 4 fms.	Both fall on same spot the day of the
57° 152°	58.87' 54.45'	110c+2 (blue) 153a+5 (green)	5-1/6 fms. 4-2/6 fms.	Both fall on same spot
57° 152°	58.20° 54.35°	160-161c (blue) 186c (blue)	0 to \(\frac{1}{2}\) fms. 1-2/6 fms.	Pos. 186c seems doubtful Rough Bottom CE N. Shoaler of
57° 152°	59.90° 53.70°	15-47h (green) cross chaisel lues		on these cross lines all ft. too shallow. *
57° 152°	59.601 52.601	48 to 68 h (green)	The soundings appear 1 to 2	on these cross lines all / ft. too deep. *
57° 152°	59.60° 52.60°	188-190b (blue) along channel line		ar to 1 ft. too shallow surrounding soundings. *
	Jump of	robably due to char	nging of tide g	age in this area. when tide stations were change more regular
Sheet	BII:	ings were changed) f	to improve cre	ssings I make depth curves more regular
58° 152°	00.61°, 57.35°	158g (green) 167-168g (green)	3-4/6 fms. bet 1\frac{1}{2} and 2-1/6 fi	
58° 152°	01.331	4-6g (green) 67-68j (blue)	O fms. falling to 2/6 fms.	between skeder sdg plotted
58° 153°	01.674	l6g (green)	3 fms.	Seems too deep for sdg probably this vicinity. within LW. line omitted
Sheet	"C":	•		dot ?
58° 153°	03.67'	97m + 5 (blue) 79 1 (blue)	3½ fms. 2-5/6 fms.	ugh bottom' - shoaler odg plotted
58° 153°	04.301-	101p+2 (blue) 27n+5 (blue)	10-5/6 fms. 9-5/6 fms. re	Both fall on same spot read fulliometer Collinsteep slope - shouler and plotted

Edpar & Sunte

LIST OF SIGNALS USED ON SHEET M-6679

Triangulation Stations (Valdes Datum):

	f									
BAN 1941				EAB 191	13					
DIG 1941 DERANGE ROCK 1907 FOOF 1941					RASP 1933-41					
				SHOAL	941					
				SKIN IS						
GRASS 19	41	%.		8PIT 1	41	1				
GREEN 19				STACK.	WATEFIELD	(FIRE) 1941				
IRON 194				START	QL1	(
		Y STACK (H	EAT 1 1041	TANK.	MANUFIELD (OTE) John				
181# 194				VISA 19		****				
MID 1941					FACK (SHOKE) tolet				
MUBE 194				WAKE 19		/ +374				
HEAR 194				WEST 1		•				
NUB 1941				YUE 19						
OVER 194				•••						
	Tale ,	アー	6836 a	6194116	\					
Topograp	bic signa	ls from 2=	66767	SY 316 (4						
A11	Ous	Front/	Lee	Out	Par	Sun				
ATE	Day	Gen	Lip	Pass	Rat -	Tip				
Art /	Die	a Hip	Lop	Pos	Red	Top /				
Bat	Dol	Hog	Han	P110/	Rib	Tub				
Ben/	Rat	14	Nob	Pig	811	Ump				
Box	EA •	lap -	011	Pin	80	Up				
Cov	Bao	Law	Ouz	Pot	Staff	Vat -				
		F	6837a	(1941)	**************************************	Vin/				
Topograp	hio signa	ls from to		837a		W-4.				
4	m //									
Aye	Do /	G000	Log	lin	500	Win				
AZ	74 - L	Nin'	Ob. •	Sam -	Sip	Way				
MII	Plah	H ·	Ore	Back	30					
No V	Gage /	How	0836 b	Sam	Tin					
Topograp	hio signa	le from to		(1441)(P)						
Dot	H1	312	00.	Bie	Vin /	Zip -				
Tox	Hat		-		· • • •					

^{*} same signal appearing on both shoots.

TIDAL HOTE

Sheet M-6679

Raspberry Strait, Alaska

E. LESTER JONES, 1941

	Tiger Cape	Nachalni Island	Polphin Point					
Latitude	5 8° 01.1'	57° 58'+	580 06.31					
Longitude	1520 59.01	1520 551+	1530 09.71					
Staff reading of M.L.L.W	. 4.9 ft.	2.5 ft.	4.5 ft.					
Highest tide observed								
Lowest tide observed								

Corrections for eaho soundings.

Raspberry Strait, Alaska. 1941.

E.LESTER JONES.

Ship's fa	thometer	Po news	and committee	Loupoh Fet	hometer. htting 2 ft.
Dopth	4	Correcti	on Depth		orrection
France Pt.		Ft.	Ans.& M		Ft.
0 to	71ms.	-1.0	0 to	14/6	0.5
7 1/6	15	-1.5	1 5/6	6	0.0
15 1/6	22	-2.0	6 1/6	10 1/2	-0.5
22 1/6	28 1	-2.5	10 4/6	14 4/6	-1.0
28 4/0	54	-5.0	14 5/6	18 4/6	-1.5
34 4/6	28 1 54 2 40 1	-3.5	18 5/6	83 4/6	0.S-
40 4/6	48	-4.0	88 5/6	27	-2.5
46 1/6	51 }	-4.5	87 1/6	31, 2/6	-5.0
51 4/6	37	-5.0	31 3/6	35 2/6	-5.5
57 1/6	88	-5.5	35 3/6	59 4/6	-4.0
62 1/6		-6.0	39 5/8	44	-4.5
67 4/6	67 72 77 61	-6.5	44 1/6	48 2/6	-5.0
72 4/6	77	-7.0	48 3/6	58 4/6	
77 4/6	61 	-7.5		57	-5.5
81 4/8	86	-8.0	52 5/6		-6.0
86 1/6			57 1/6	61 2/6	-6.5
		-0.5	61 3/6	65 4/6	-7.0
90 4/6		-9.0	65 5/6	70	-7.5
94 4/6	99	-9.5			
	102	-10.0			
105 1/6	T01	-10.5			
107 1/6	111	-11.0			

Decisions

1		580 525
2		575525
3		580 525
4		575525 U-S.6.8
5		580 530
6		575525
7	Pending with U.S.G.B: ok to ink pending its decision - see lines 13 and 19	N. W. Salara
8		575525
9		580 530
10		7 3
11		580530
12	Pending with U.S. b. B: OY to ink Pending decision	580530
13	1	(575525)
14		580530
15		580525
16		
17	oft limits this sheet	575525 V364
18	Location of tide staff -off this sheet	4
19	Reet off McCreann Pt see line 7.	
20		
21		
22	For title	580530
23	Location of tide staft - off this sheet	4
24	For title	U.S.L. B.
25	oft limits this sheek.	\$80530
26		
27		
M 234		

	GEOGRAPHIC NAMES Survey No. H667	9		de los de la	S. Walan	oca itor	Tripes Hade	O. Guide of A	ASO MCHOIN	J.S. Light L	5
	Name on Survey	A,	NO OF	C' C'	D D	E E	ST JOS P	G	and h	S.S.Y	
	Afognak Island										1
'	Afognak Strait		•						- 3		2
<u> </u>	Cottonwood Bay	6 7		:							
,	Deranof Island	Village Control			·				:	١.	4
	Iron Creek Cannery										!
	Little Raspberry Island										<u></u>
	Mc Creana Point	,							•		
	Nochlega Point		;		1						
ļ	Port Vita		,		<u> </u>						
	Port Wakefield			,							1
` ´	Raspberry Island								17 W 17 19		1
	Selief Bay										1
` :29 `	SmallPoint		ς.				-		,		1
	The Greben										1
,	Tiger Cape	٠.									1
,	Waskanareska Bay		,		,		-				1
•	Deranof Rock				-						1
	Nachalni I										-1
	Mc Creana Reef			,							1
•	The Narrows	. •								ļ	2
•	. The Slough										2
a ,	Raspberry Strail										2
·	Dolphin Pt										2
	Kodiak I.	:									2
	Muskomer Bay				- Fi	ames u	derlined	n red ar	proved		2
	<u> </u>	<u>.</u>	*	,	`	by L-	HECK	on 9	30142		2
-1 -1d					<u> </u>					ļ	2

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Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6679

Records accompanying survey:						
Boat sheets three; sounding vols. (7); wire drag vols;						
bomb vols; graphic recorder rolls(9).;						
special reports, etc						
•••••••••••••••••••••						
The following statistics will be submitted with the cartog- rapher's report on the sheet:						
Number of positions on sheet 2466.						
Number of positions checked %2						
Number of positions revised						
Number of soundings recorded [1.166						
Number of soundings revised (refers to depth only)						
Number of soundings erroneously spaced /2						
Number of signals erroneously plotted or transferred						
Topographic details Time \mathcal{O}						
Junctions Time						
Verification of soundings from graphic record Time						
Verification by. C.F. Dennis Total time 1046. Date 9/14/42						
Review by R.H. Caroteno Time 3!2.5- Date .9/28/42						

MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT		received July 29, 1942 registered August 1, 1942 verified
PERDUCISTANDUCIEX	Mocotic	reviewed
ŕ		approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE	Initial	Attention called to
20		
22	,	
24		
25		
26		
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40		
62		,
63		
82		·
83		
88		
90		

ETURN	1 TO			
82	R.	W.	Knox	



TIDE NOTE FOR HYDROGRAPHIC SHEET

August 5, 1942.

Driveristicate total divideogeneral plays tends (Popogeneral plays:

✓ Division of Charts: Attention: Mr. H. R. Edmonston

Plane of reference approved in 7 volumes of sounding records for

HYDROGRAPHIC SHEET 6679

Locality Kodiak-Afognak Islands, Raspberry Strait, Eastern Entrance, Alaska

Chief of Party: L. C. Wilder in 1941
Plane of reference is mean lower low water reading
4.9 ft. on tide staff at Tiger Cape
16.8 ft. below B. M. 1
2.5 ft. on tide staff at Nachalni Island
13.3 ft. below B. M. 1
4.5 ft. on tide staff at Dolphin Point
22.1 ft. below B. M. 1

Height of mean high water above plane of reference is 13.2 feet at Tiger Cape; 12.8 feet at Nachalni Island and Dolphin Point.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

и. в. соувениями репитеме оргаса 15432

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTER NO. 6679 Field No. 1041

Alaska, Kodiak - Afognak Islands, Raspberry Strait - Eastern Entrance Surveyed July - September 1941; Scale 1:10,000 Instructions dated April 1, 1941

Soundings: Depth Recorder Control: Visual fixes on shore 808A; Handlead signals

Chief of Party - L. C. Wilder
Surveyed by - L. C. Wilder, R. C. Bolstad and J. C. Bull
Protracted by - R. H. Woodcock
Soundings plotted by - R. H. Woodcock
Verified and inked by - C. E. Dennis
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston

1. Shoreline and Signals

The signals originate with graphic control sheets T-6836a&b (1941) and T-6837a (1941). The shoreline will be transferred to the present survey when the topographic maps of the area have been completed.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Contemporary Surveys

Consideration of the junction with 6680 (1941) will be made in the review of that survey.

The junctions with H-2925 (1907-08) and H-2926 (1907) are not considered sufficiently good to be carried forward to the present survey. Depth differences amount to as much as 8-10 feet; the present depths are, in general, the shoaler. A part of this discrepancy is caused by the difference in the tidal

planes used on the present and the earlier surveys. An investigation by the Division of Tides and Currents disclosed that had the position of the tide stations on the earlier sheets been the same as on the present, the tide reducers applied to the soundings of those surveys would be increased as much as 3-1/2 feet for some of the lines. Some difference in depth may be attributed to the different methods of sounding. The current in Afognak Strait would cause handlead and machine soundings to be greater than depth recorder soundings.

Within the area of overlap numerous shoals were found between the widely spaced soundings of the earlier surveys. Because of this fact and the discrepancy in depth with the present survey the earlier surveys are considered inadequate for charting the immediate area. A resurvey of Afognak Strait should be made and a junction formed with that survey.

5. Comparison with Prior Surveys

H-2925 (1907-08) 1:10,000 H-2926 (1907) 1:10.000

See comments of preceding items.

A sounding of 4-1/2 fm. in Lat. 57°58.8', Long. 152°51.78' from H-2926 (1907) and 3-5/6 fm. in Lat. 57°58.29', Long. 152°54.64' from H-2925 (1907-08) were not investigated on the present survey and were carried forward. The two rocks awash on H-2926 charted (8534) in Lat. 57°59', Long. 152°52' are located by an estimated distance from a sounding line. These rocks were not observed by the present survey party at a minus tide and can be considered displaced in position. The present survey with the transferred soundings is considered adequate to supersede these earlier surveys within the overlapping area.

No other surveys by this Bureau have been made of the area.

6. Comparison with Chart 8534 (Latest print date 9-10-41)

a. Hydrography

Within the limits of the present survey the charted hydrography originates with the previously discussed surveys and needs no further consideration.

b. Aids to Navigation

No charted aids to navigation fall within the area of this survey.

7. Condition of Survey

Satisfactory.

8. Compliance with Instructions for the Project

Satisfactory except that few bottom characteristics were taken in areas surveyed with the 808 depth recorder.

9. Additional Field Work Recommended

An investigation should be made of the 4-1/2-fm. sounding in Lat. 57°58.8', Long. 152°51.8' transferred from H-2926 and the 3-5/6-fm. sounding in Lat. 57°58.29', Long. 152°54.64' transferred from H-2925. Their existence should be verified or disproved.

In as much as a satisfactory junction was not made with H-2925 and H-2926 and since the bottom in this area is very irregular and not closely developed on the earlier surveys, it would be desirable to extend modern surveys over the entire area of Afognak Strait. The numerous shoals found on the present survey between the widely spaced soundings of the earlier surveys make it desirable to use a 1:10,000 rather than a 1:20,000 scale when a resurvey is made.

10. Superseded Surveys

H-2925 (1907-08) in part H-2926 (1907) " "

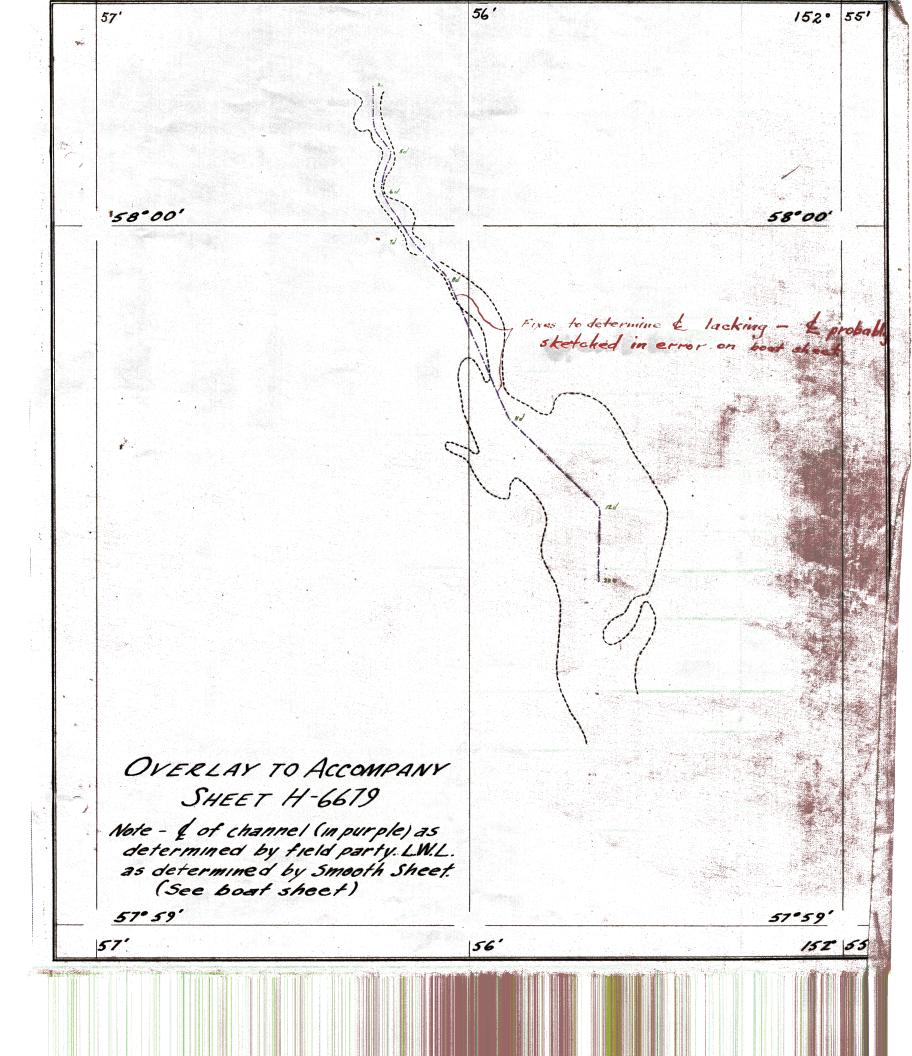
Examined and approved:

Chief, Surveys Section

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys



applier to Chart 8502 1/29/43 G.K.
8534 2/18/43 Bop.
1 1 8556 1/1/43 g.H.S.

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