

5260

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: Sw. ALASKA

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 21 5260
Hydrographic

LOCALITY

SOUTHWEST ALASKA

SHUYAK ISLAND

POINT BANKS TO PERENOSA BAY

1932

CHIEF OF PARTY

H. B. Campbell

5260

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. 5260

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. 21

REGISTER NO. 5260

State ~~SW~~ ALASKA

General locality Shuyak Island

Locality Point Banks to ~~Barrow Bay~~ Shuyak Str.

Scale 1:20,000 Date of survey May - Oct., 1932

Vessel U.S.C. & G.S.S. DISCOVERER

Chief of Party H. B. Campbell

Surveyed by Officers attached to DISCOVERER & WESTDAHL

Protracted by J. N. Jones, E. E. Smith & R. J. Sipe

Soundings penciled by J. N. Jones

Soundings in fathoms fath

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by _____

Inked by *E. C. McBlason*

Verified by *E. C. McBlason*

Instructions dated April 21, 1932

Remarks: _____

DESCRIPTIVE REPORT
to Accompany
Hydrographic Field Sheet #21

U.S.C.& G.S.S. DISCOVERER

H. B. Campbell, Commanding

Season 1932

AUTHORITY:

The work on this sheet is in accordance with instructions from the Director, dated April 21, 1932.

LIMITS:

This sheet consists of inshore hydrography along the east coast of Shuyak Island. A satisfactory junction is made with work done by the DISCOVERER in 1931 on the north. Junction is made on the east with Sheet #41 and on the south with Sheet #22. A junction is also made at the entrance of Shuyak Straits with hydrography executed in 1926.

SURVEY METHODS:

The hydrography was done using the U.S.C.& G.S.S. DISCOVERER, the M.V. WESTDAHL and two motor-sailers.

In general the launch soundings were taken with the hand lead up to 15 fathoms and with wire in depths above 15 fathoms. Hand lead soundings were taken from a sounding chair located forward and the wire soundings taken over a sheave located aft. Ranges were steered when practicable.

The soundings taken by the M. V. WESTDAHL were in general fathometer soundings from 20 to 60 fathoms. However, due to difficulty in obtaining soundings over an uneven bottom numerous vertical cast with wire were necessary to check and supplement the fathometer soundings. Shoals below 15 fathoms were developed with the hand lead. Compass courses were steered as a rule. Ranges were used in development of shoals.

*also see
Desc. Rep # 5265*

The soundings taken by the DISCOVERER are fathometer soundings of from 50 to 90 fathoms in an area free from dangers.

DANGERS:

The area covered by this sheet is generally foul. Rocks baring at low water not located by topography were located by the motorsailers with sextant cuts and are shown in the records. Several rocks are shown on the inshore launch boat sheet which are not covered by notes in the records. These rocks were shown with reference to the two nearest positions by the hydrographer and inked on the boat sheet in colored ink. They are transferred to the smooth sheet and shown in pencil. The limits of kelp are taken from the boat sheets. *inked by verifier*

Sailing Directions have been written for this area. Coast Pilot Notes, 1932.

ANCHORAGES:-

Temporary shelter for small boats in moderate weather may be had in the small bay in Latitude $58^{\circ} 35.6'$, Longitude $152^{\circ} 21.1'$ or in Andreon Bay, Latitude $58^{\circ} 30.4'$, Longitude $152^{\circ} 25.1'$. Depths of 10 fathoms can be carried into both these spots but entrance

should not be attempted except with local knowledge or extraordinary caution.

DISCREPANCIES:

The work of the various units of this sheet agree very well. Crossings are good except over the more uneven portions of the bottom. Numerous soundings taken by the WESTDAHL were rejected in the field ✓ and the area affected resounded.

DATUM:

Control for this sheet is based on the line Otter 1907-1931 - Tolstoi 1931. *Valdez datum.*

CORRECTIONS FOR SOUNDING APPERATUS:

Sheaves used for wire soundings were tested at the beginning and end of the field season and found to be correct.

Leadlines were tested each day and found to be correct.

A list of fathometer corrections for the DISCOVERER and WESTDAHL is appended.

Respectfully submitted:

James N. Jones

James N. Jones,
Jr. H. & G. Engr.

*Approved & Forwarded
H. B. Campbell
Comd'g.*

STATISTICS SHEET # 21

Vol.	Day Letter	Date	Boat	Miles Sdg. Lines	No. Sdgs.	No. Pos.
1	a	June 7	S.M.S.	16.0	178	53
1	b	" 8	"	18.7	242	68
1	c	" 9	"	19.9	296	94
2	d	" 10	"	7.5	207	49
2	e	" 13	"	13.7	250	77
2	f	" 14	"	16.3	307	89
3	g	" 15	"	3.2	119	23
3	h	" 16	"	14.2	377	88
3	j	" 20	"	-	1	9
2&3 3	k	" 21	"	10.3	327	65
3&4	m	" 22	"	18.3	319	106
4	n	" 23	"	7.4	220	43
4	p	" 24	"	10.0	203	66
4	q	" 25	"	13.9	245	83
5	r	" 26	"	12.6	351	82
5	s	July 7	"	12.0	257	65
5	t	" 8	"	18.4	311	109
5&6	u	" 13	"	8.1	138	54
6	v	" 14	"	14.4	313	98
6	w	" 15	"	18.7	446	108
6&7	x	" 21	"	19.0	321	91
7	y	" 22	"	21.6	397	109
7	z	" 23	"	6.3	125	41
8	aa	Aug. 2	"	27.0	265	173
8	bb	" 3	"	14.5	290	154
8&9	cc	" 4	"	16.3	283	160
9	dd	" 5	"	13.0	277	150
10	a	July 8	P.M.S.	22.8	388	212
10&11	b	Aug. 2	"	23.1	333	174
11	c	" 3	"	16.4	207	87
11	d	" 4	"	13.8	188	85
11&12	e	" 5	"	16.8	421	200
13	f	Sept. 30	"	9.4	251	61
14	A	July 29	WESTDHL.	29.0	485	139
14	B	" 30	"	13.5	216	71
14	C	Aug. 1	"	14.8	257	79
14&15	D	" 2	"	59.2	906	262
15	E	" 3	"	87.2	1152	308
16	F	" 4	"	36.5	571	193
16	G	" 5	"	56.2	813	220
17	H	" 8	"	54.5	743	230
17	J	" 9	"	7.0	91	87
17&18	K	" 10	"	21.5	312	200
18	L	" 11	"	13.5	138	152
18&19	M	" 16	"	63.3	752	264
19	N	" 17	"	27.4	401	173
19	P	" 24	"	26.3	409	141
20	Q	" 25	"	26.6	336	153
21	R	Oct. 1	"	15.2	208	88
21	S	" 3	"	12.8	167	116
22	A	Sept. 26	SHIP	101.3	1034	192
TOTALS:-				1139.4	17844	6194

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FATHOMETER CORRECTIONS - (M.V. WESTDAHL)

HYDROGRAPHIC SHEET No.21

In obtaining fathometer corrections for this sheet all comparisons were listed and by inspection corrections were selected which seemed to be the average during the time the soundings were taken, allowance being made for uneven bottom. Corrections for salinity and temperature were not made as the corrections would be negligible in these depths. A mean correction cannot be taken for a whole day as the zero of the fathometer shifts during the days work.

FATHOMETER CORRECTIONS - (M.V. WESTDAHL)

HYDROGRAPHIC SHEET No.21

July 29, 1932

July 30, 1932

<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>	:	<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>
1 A	26.6	28.0	- 1.4		9 B	44.5	44.0	+ 0.5
17 A	22.3	21.5	+ 0.8		15 B	32.3	32.0	+ 0.3
18 A	30.1	29.5	+ 0.6		16 B	46.4	46.0	+ 0.4
36 A	27.6	27.0	+ 0.6		17 B	33.7	33.0	+ 0.7
37 A	28.0	27.5	+ 0.5		21 B	19.5	18.0	+ 1.5
44-45A	39.7	38.0 *	+ 1.7		33 B	34.2	35.0	- 0.8
59 A	28.5	27.5	+ 1.0		63 B	25.5	25.0	+ 0.5
70 A	36.9	36.0	+ 0.9		71 B	45.0	*	+ 0.5
92 A	38.0	37.0	+ 1.0					
100 A	51.2	49.0	+ 2.2 R.					
100 ¹ / ₂ A	26.2	25.0	+ 0.2					
107 A	28.4	29.0	- 0.6 R.					
139 A	27.5	26.0	+ 1.5					

* Could not obtain comparison account irregular bottom

Add 0.5 Fathom for entire day.

* - Shifted initial ahead one fath. after comparison.

Corrections to Fath. Soundings:

August 1, 1932

<u>Positions</u>	<u>1 - 4</u>	<u>Subtract</u>	<u>-1.5</u>	<u>Fath.</u>		<u>1 C</u>	<u>67.2</u>	<u>66.0</u>	<u>+ 1.2</u>
"	4 - 8	"	1.0	"		4 C	59.4	59.0	+ 0.4
"	8 - 11	"	0.5	"		9 C	53.6	53.0	+ 0.6
"	11 - 15	"	0.0	"		24 C	22.6	23.0	- 0.4
"	15 - 17	Add	0.5	"		25 C	38.2	38.0	+ 0.2
"	17 - 37	"	0.5	"		30 C	37.6	37.0	+ 0.6
"	37 - 44	Rejected	--			31 C	33.0	33.0	- 0.0
"	45 - 108	Add	1.0	"		32 C	45.6	45.0	+ 0.6
"	108 - 139	"	1.5	"		40 C	19.3	19.0	+ 0.3
						41 C	40.0	40.0	0.0
						51 C	49.8	50.0	- 0.2
						67 C	49.8	49.5	+ 0.3
						68 C	52.5	53.0	- 0.5
						79 C	74.8	74.0	+ 0.8

<u>Positions</u>	<u>1 - 4</u>	<u>No Soundings</u>	
"	4 - 15	Add	0.5 Fath.
"	15 - 25	"	0.0
"	25 - 40	"	0.5 "
"	40 - 72	"	0.0
"	72 - 79	"	0.5 "

HYDROGRAPHIC SHEET No. 21 - cont.August 2, 1932

Pos.	V. C.	Fath.	Corr.	:
1 D	42.5	42.0	+ 0.5	
23 D	48.5	48.0	+ 0.5	
41 D	53.1	52.0	+ 1.1	
50 D	52.4	51.5	+ 0.9	
69 D	29.0	29.0	0.0	R.
82 D	38.8	38.0	+ 0.8	
86 D	35.0	34.0	+ 1.0	*
87 D	47.5	45.0	+ 2.5	
91 D	35.5	34.0	+ 1.5	
103 D	38.5	39.0	- 0.5	R.
118 D	29.3	29.0	+ 0.3	
151 D	47.9	47.0	+ 0.9	
162 D	28.3	28.0	+ 0.3	
195 D	25.5	24.5	+ 1.0	
225 D	30.5	30.0	+ 0.5	*
226 D	34.0	32.0	+ 2.0	
262+D	37.6	36.5	+ 1.1	

* Stopped fathometer
R. - Rejected

Corrections to Fath. Soundings

Positions	1-31	Add	0.5	Fath.
"	31-86	"	1.0	"
"	87-87	"	2.5	"
"	87-108	"	1.5	"
"	108-176	"	0.5	"
"	176-209	"	1.0	"
"	209-225	"	0.5	"
"	225-240	"	2.0	"
"	240-249	"	1.5	"
"	249-262	"	1.0	"

August 3, 1932

Pos.	V. C.	Fath.	Corr.
1 E	64.3	63.5	+ 0.8 R.
29 E	26.0	24.0	+ 2.0 R.
33+E	27.7	27.5	+ 0.2 R.
34 E	29.0	27.0	+ 2.0
108 E	40.0	39.0	+ 1.0
117 E	27.6	25.0	+ 1.6
142 E	22.7	21.5	+ 1.2
163 E	24.7	23.0	+ 1.7
196 E	23.5	22.0	+ 1.5
252 E	24.3	22.0	+ 2.3
290 E	43.0	40.5	+ 2.5
308+E	55.0	51.0	+ 4.0 R.

R. - Rejected - Irregular bot.

Corrections to Fath. Soundings

Positions	1-34	Add	0.5	Fath.
"	34-56	"	2.0	"
"	56-83	"	1.5	"
"	83-108	"	1.0	"
"	108-112	"	1.0	"
"	112-196	"	1.5	"
"	196-214	"	1.5	"
"	214-234	"	2.0	"
"	234-308	"	2.5	"

HYDROGRAPHIC SHEET No.21 - cont.August 4, 1932

Pos.	V. C.	Fath.	Corr.
7 F	56.6	54.0	+ 2.6
18 F	51.2	50.0	+ 1.2 *
19 F	50.0	49.7	+ 0.3
51 F	37.0	35.5	+ 1.5
113 F	14.2	13.0	+ 1.2
131 F	31.8	30.0	+ 1.8
148 F	18.7	16.5	+ 2.2
175 F	13.5	11.5	+ 2.0
193 F	36.4	34.0	+ 2.4

* - Stopped - Signals fogged in.

August 5, 1932

Pos.	V. C.	Fath.	Corr.
1 G	59.9	61.0	- 1.1 R.
5 G	47.5	46.0	+ 1.5
26 G	36.6	35.0	+ 1.6
34 G	32.0	32.0	0.0
45 G	34.9	35.0	- 0.1
102 G	20.4	19.0	+ 1.4
125 G	28.2	27.5	+ 0.7
145 G	36.6	35.0	+ 1.6
183 G	41.7	40.0	+ 1.7
191 G	34.0	33.5	+ 0.5
195 G	39.2	41.0	- 1.8 R.
220 G	32.7	31.0	+ 1.7

R. - Rejected - Uneven bottom

Corrections to Fath. Soundings

Positions	1-7	wire	soundings
"	7-11	Add	2.5 Fath.
"	11-15	"	2.0 "
"	15-18	"	1.5 "
"	19-36	"	0.5 "
"	36-49	"	1.0 "
"	49-122	"	1.5 "
"	122-179	"	2.0 "
"	179-193	"	2.5 "

Corrections to Fath. Soundings

Positions	1-28	Add	1.5	Fath.
"	28-30	"	1.0	"
"	30-32	"	0.5	"
"	32-50	"	0.0	"
"	50-77	"	0.5	"
"	77-135	"	1.0	"
"	135-187	"	1.5	"
"	187-220	"	1.0	"

HYDROGRAPHIC SHEET No.21 - cont.

(Note: - No Fath. Sdgs. on "J" day.)

August 8, 1932

Pos.	V. C.	Fath.	Corr.
1 H	24.4	23.0	+ 1.4
9 H	60.4	60.0	+ 0.4
18 H	18.3	17.0	+ 1.3
35+H	70.5	69.0	+ 1.5
47 H	42.3	42.0	+ 0.3
65 H	69.2	67.0	+ 2.2
66 H	75.4	73.0	+ 2.4
67 H	67.8	66.5	+ 1.3
68 H	34.4	33.0	+ 1.4
69 H	22.5	21.0	+ 1.5
78 H	76.4	75.0	+ 1.4
93 H	43.4	42.0	+ 1.4
100 H	63.1	60.5	+ 2.6
113 H	31.6	27.0	+ 4.6
120 H	34.3	33.0	+ 1.3
148 H	70.0	70.0	0.0 R.
149 H	28.9	28.0	+ 0.9
158 H	67.8	66.0	+ 1.8
171 H	51.8	50.0	+ 1.8
184 H	74.4	73.0	+ 1.4
205 H	68.5	66.0	+ 2.5
213 H	38.0	36.0	+ 2.0
219 H	64.2	63.0	+ 1.2
230 H	49.5	---	---

R. - Reject, too deep for good comparison.

* - Fath. out of order.

Corrections to Fath. Soundings:

Positions	Add	Fath.
Positions 1-65	Add	1.0 Fath.
" 65-132	"	1.5 "
" 132-154	"	1.0 "
" 154-194	"	1.5 "
" 194-216	"	2.0 "
" 216-232	"	1.5 "

August 10, 1932

: Pos. V. C. Fath. Corr.

1 K	46.5	46.0	+ 0.5
12 K	- Fath. ends - change to vertical casts.		

Corrections to Fath. Soundings:

Positions 1-12 Add 0.5 Fath.

August 11, 1932

: Pos. V. C. Fath. Corr.

2 L	44.5	44.5	0.0
8 L	39.8	39.8	0.0 *
132+L	28.8	29.5	- 0.7 **
133 L	25.0	24.5	+ 0.5
135 L	30.0	29.0	+ 1.0
139 L	55.6	54.0	+ 1.6
152 L	- No comparison		

* - Fath. stopped.

** - " starts.

Corrections to Fath. Soundings:

Positions 2-8	---	0.0 Fath.
" 135-137	- 1.0	"
" 137-152	- 1.5	"

HYDROGRAPHIC SHEET No.21 - cont.August 16, 1932August 17, 1932

<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>	:	<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>
1 M	24.5	23.0	+ 1.5		1 N	33.5	33.0	+ 0.5
36 M	20.0	20.0	- 0.0 R.		7 N	64.7	64.0	+ 0.7
63 M	22.1	21.0	+ 1.1		8 N	46.5	46.5	0.0
78 M	10.8	10.0	+ 0.8		16 N	25.2	24.0	+ 1.2
95 M	32.6	32.0	+ 0.6		19 N	32.0	31.0	+ 1.0
117 M	23.0	23.0	- 0.0		26 N	54.4	53.0	+ 1.4
124 M	24.6	24.5	+ 0.1		95 N	43.2	44.0	- 0.8 *
129 M	22.3	22.0	+ 0.3		96 N	46.7	47.0	- 0.3
153 M	14.7	14.0	+ 0.7		103 N	56.0	55.0	+ 1.0
154 M	24.5	25.0	- 0.5		104 N	49.6	49.0	+ 0.6
162 M	18.0	16.0	+ 2.0 R.		105 N	49.3	49.0	+ 0.3
170 M	14.7	15.0	- 0.3		113 N	20.4	20.0	+ 0.4
182 M	34.2	33.5	+ 0.7		114 N	18.8	18.0	+ 0.8
188 M	27.5	26.0	+ 1.5		117 N	45.4	45.0	+ 0.4
222 M	18.7	18.0	+ 0.7		121 N	23.8	24.0	- 0.2
258 M	24.4	24.0	+ 0.4		144+N	17.4	16.0	+ 1.4
264 M	17.7	17.0	+ 0.7		173+N	21.3	20.5	+ 0.8

R. - Rejected - Uneven bottom.

* - Fath. started after developing shoal.

Corrections to Fath. Soundings

<u>Positions</u>	<u>1-29</u>	<u>Add</u>	<u>0.5 Fath.</u>
"	29-87	"	1.0 "
"	87-101	"	0.5 "
"	101-139	---	0.0 "
"	139-153	Add	0.5 "
"	154-176	"	0.0 "
"	176-182	"	0.5 "
"	182-222	"	1.0 "
"	222-264	"	0.5 "

Corrections to Fath. Soundings

<u>Positions</u>	<u>1-14</u>	<u>Add</u>	<u>0.5 Fath.</u>
"	14-25	"	1.0 "
"	25-94	"	1.0 "
"	95-99	Sub.	0.5 "
"	99-102	"	0.0 "
"	102-117	Add	0.5 "
"	117-129	"	0.0 "
"	129-138	"	0.5 "
"	138-173	"	1.0 "

HYDROGRAPHIC SHEET No.21August 24, 1932

Pos.	V. C.	Fath.	Corr.
1 P	17.2	17.0	+ 0.2
2 P	47.7	46.5	+ 1.2
41 P	19.7	19.0	+ 0.7
43 P	28.6	27.5	+ 1.1
88 P	22.9	22.0	+ 0.9
124 P	53.2	53.0	+ 0.2
139 P	53.0	53.0	+ 0.0

Corrections to Fath. Soundings

Positions 2-100	Add	1.0 Fath.
" 100-113	"	0.5 "
" 113-139	---	0.0 "

August 25, 1932

Pos.	V. C.	Fath.	Corr.
1 Q	23.3	23.0	+ 0.3
10 Q	18.8	18.0	+ 0.8
23 Q	15.6	15.0	+ 0.6
34 Q	34.0	34.0	0.0
67 Q	19.9	20.0	- 0.1
68 Q	21.2	21.0	+ 0.2
89 Q	15.9	16.0	- 0.1
90 Q	20.8	20.0	+ 0.8
107 Q	23.2	23.0	+ 0.2
146+Q	28.2	28.0	+ 0.2
150+Q	27.6	27.0	+ 0.6

Corrections to Fath. Soundings

Positions 1-27	Add	0.5 Fath.
" 27-147	"	0.0 "
" 147-150	"	0.5 "

Oct. 1, 1932

Pos.	V. C.	Fath.	Corr.
20 R	48.0	47.5	+ 0.5
25 R	49.5	49.0	+ 0.5
49 R	30.0	30.0	0.0
66 R	40.4	39.0	+ 1.4

Corrections to Fath. Soundings

Positions 20-41	Add	0.5 Fath.
" 41-53	"	0.0 "
" 53-58	"	0.5 "
" 58-66	"	1.0 "

Oct. 3, 1932

Pos.	V. C.	Fath.	Corr.
37 S	40.0	40.0	0.0
55 S	52.0-	51.5	+ 0.5

Corrections to Fath. Soundings

Positions 27-28	Add	0.0 Fath.
" 37-47	"	0.0 "
" 47-61	"	0.5 "

JMS

Fathometer Corrections (Ship DISCOVERER)

Sheet No. 21

Date (1932)	Pos. No.	Temperature		Fath. Sdg.	Corr.	Ver. Cast	T.S. Corr.	Index Corr.
		Surf.	Bot.					
9/26	38A	8.0	8.5	59.0	- 1.6	57.4		
"	41A	8.5	7.7	85.0	+ 3.3	88.0		(slant on wire-3 deg.)
"	97A	9.0	7.9	85.0	- 1.1	83.9		

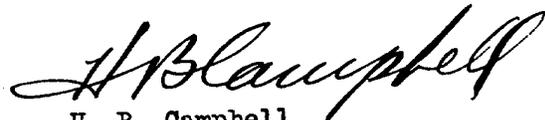
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Approval of Chief of Party

Sheet No. 21 and accompanying records have been inspected by me. Both the field and office work were done under my supervision. No further hydrography is considered necessary in the area covered by this sheet.

*Wire drag recommended by Chief of Party
in Coast Pilot notes 1932
JCB*

Respectfully,



H. B. Campbell,
Chief of Party,
C. & G. Survey.

Section of Field Records

Sheet No - H 5260.

Surveyed in - 1932.

Chief of Party - H. B. Campbell.

Surveyed by - Officers attached to
Discoverer and Westdahl.

Protected by - J. N. Jones, E. E. Smith,
and R. J. Sipe.

Soundings plotted by - J. N. Jones.

Verified and Inked by - B. C. McElroy.

1. The records conform to the ✓ requirements of the General Instructions.
2. The plan and character of ✓ development fulfill the requirements of the General Instructions.
3. The sounding line crossings are good except over the more uneven portions of the bottom. The bottom, in places, is very, very rugged and crossings in such areas show considerable difference.
4. The usual depth curve can be completely drawn ✓

within the limits of the sheet.

5. The field plotting was completed to the extent prescribed in General Instructions.

6. The office draftsman did not have to do over any part of drafting done by field party except as noted on statistic sheet. Also the field party failed to transfer a number of the rocks which they located on the boat sheet. However they were plotted on the boat sheet in different colors of ink and were easily transferred by the office draftsman.

7. The junction with adjacent sheets were found to be satisfactory. A junction is made on the North with # 5190 and on the East with # 5261. However on the South, the hydrographic sheet ^(# 5265) has not been verified and inked, consequently no comparison was made with this sheet.

8. Discrepancies:

239 soundings were revised due to the conversion of soundings units, when the depth was less than ten fathoms. Also we found that when the depth was more than ten fathoms - they would make the next whole fathom out of four feet in place of dropping it.

In taking cuts to establish new rocks, we found that in a number of cases, the cuts had been taken in the reverse directions from those recorded.

Respectfully submitted,
G. C. McGlasson

SECTION OF FIELD RECORDS
Review of Hydrographic Sheet No. 5260
Point Banks to Shuyak Strait, Shuyak Island, Alaska.
Surveyed May - October 1932
Instructions dated April 21, 1932

Chief of Party - H. B. Campbell.
Surveyed by - G. L. Bean, W. M. Scaife, R. J. Sipe,
H. J. Healy, G. A. Nelson, J. N. Jones.
Protracted by - J. N. Jones, E. E. Smith, R. J. Sipe.
Soundings plotted by - J. N. Jones.
Verified and inked by - G. C. McGlosson.

1. The records in general conform to the requirements of the Hydrographic Manual but there are a number of instances where the explanatory notes are inadequate. Example:- 2N, a sounding of 37, was marked on the boat sheet "looks bad"; later (93 to 112S) a further examination of the locality was made apparently discrediting this and several other soundings in the vicinity. No notes or recommendations as a result of the investigation are shown in the sounding records, on the boatsheet, or in the Descriptive Report. In consequence the questionable soundings have been retained on the smooth sheet, approximate lat. 58°28', long. 152° 18'.5.

Some cuts to rocks were recorded in the reversed direction.

2. The plan and extent of development conform to the general regulations and satisfy the specific instructions except that several shoal indications should have had further examination. The most important of these are listed under Recommendations, par. 8, in this report.

3. Soundings.- The work of the motor sailers is generally satisfactory. The fathometer work of the Westdahl shows a number of discrepancies on this sheet. The Descriptive Report states "Numerous soundings taken by the Westdahl were rejected in the field and the area affected resounded". Some of the discrepancies were not cleared up satisfactorily. See example noted in par. 1, also, there is a questionable line of soundings (45 to 49R) in lat. 58°35', long. 152°19'. In lat. 58°30', long. 152° 11'.5 depths of 8½ and 6½ (113-114M) taken on the turn in depths of 15 to 17 fathoms are not supported by other soundings and should have been developed further. There are also a number of shoal indications near the edge of possible routes into Perenosa Bay that should have had further examination.

4. Depth curves are very irregular and in some places appear inconsistent. This is due to the very irregular bottom.

5. Junction with H. 5261 is satisfactory. Junction with work done in 1931 (H. 5190, H. 5193, H. 5194) and in 1926 (H. 4585) is satisfactory. The sheet to the south (H. 5265) has not yet been verified.

6. Comparison. This the the basic survey of the area represented. Chart 8555 shows no information of value and the shoreline is represented on it by a broken line.

7. Field drafting. (protracting and penciling of soundings) was well done, but the instructions in the Manual relative to fractions were not followed closely. The Descriptive Report written by the officer who did the major portion of the plotting, is too general in the statements under the heading "Discrepancies". See par. 3 above.

8. Recommendations:- This is the basic survey of the area represented on H. 5260. The discrepancies in fathometer soundings noted in this report do not materially affect the value of the sheet for charting purposes as the depths in question are generally over 30 fathoms.

The two routes into Perenosa Bay recommended in the Coast Pilot notes should be wire dragged. From Coast Pilot Notes 1932, "It is the opinion of the Chief of Party that the channels to be recommended should be wire dragged before there is occasion for their use by large vessels. There is plenty of good water except in Seal Bay, and a good channel into Perenosa Bay could be easily marked even now. It may be said of the water areas north of Afognak Island that the bottom formation is of the pinnacle type and indications of shoals on the chart should be avoided until wire dragged." + + + +

"The bottom in this passage (Point Banks to Perenosa Bay) is extremely broken, and it is felt that only a wire drag survey would prove the absence of all dangers. Tidal currents in this vicinity are very strong." It is desirable to extend the wire drag work to cover the outer fringes of the definitely foul areas.

Attention is invited to the following inadequately examined indications of shoalings (circled in red on the boat sheets) upon which work should be done next season.

An area westward of Sea Otter Island showing 10, 10, and 14 fathoms in much deeper water approx. lat. 58° 31'.5 long. 152°15'.5

16 fathoms	"	"	58° 30'.4	"	152°14'.4
19	"	"	29.2	"	15.6
6 1/2	"	"	30.1	"	11.5
6 1/2	"	"	29.6	"	10.2
17	"	"	58° 28.9	"	18.7
14	"	"	31.0	"	20.7
23	"	"	58° 25'.8	"	152°25'.2

9. Reviewed by - R. J. Christman, September 19, 1933.

10. Sheet inspected by - A. L. Shalowitz.

L. O. Colbert
 L. O. Colbert,
 Chief, Section of Field Records.

F. S. Borden
 Chief, Section of Field Work.

Examined and approved:

L. O. Colbert
 Chief, Division of Charts.

G. H. ...
 Chief, Division of H. & T.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5260.

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

Number of positions on sheet	.6193.
Number of positions checked	.138..
Number of positions revised	..3....
Number of soundings recorded	17,928
Number of soundings revised	.239.
Number of signals erroneously plotted or transferred	.None

Date: ..7..Sept...1933.....

Jr Cartographer: ..*R. C. Mason*.....

June 6, 1933

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
22 volumes of sounding records for

HYDROGRAPHIC SHEET 5260

Locality **Shuyak Strait, Southwest Alaska**

Chief of Party: **H. B. Campbell in 1932**

Plane of reference is **mean lower low water, reading**

7.2 ft. on tide staff at Andreon Bay

9.4 ft. below B.M. 1

5.2 ft. on tide staff at N.E. Coast, Shuyak Id.

11.1 ft. below B.M. 1

5.3 ft. on tide staff at Perenosa Bay

13.2 ft. below B.M. 1

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Height of mean higher high water above plane of reference is 11.3 feet at Andreon Bay; 11.9 feet at N.E. Coast Shuyak Island and 11.3 ft. at Perenosa Bay.

Paul Whitney
Chief, Division of Tides and Currents.

Drawing of
Applied to Chart 8573, July 6, 1935. N.B.