

5256

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

State: Alaska

DESCRIPTIVE REPORT

~~Topographic~~  
Hydrographic } Sheet No. 24 5256

LOCALITY

Marmot Strait, Marmot Island

1932

CHIEF OF PARTY

H. B. Campbell

5256

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5256

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. 24

REGISTER NO. 5256

State ~~S.W.~~ Alaska

General locality Afognak I.

Locality ~~Marmot I., Alaska~~ Around Marmot I.

Scale 1/20,000 Date of survey Aug.-Sept., 1932

Vessel Str. DISCOVERER

Chief of Party H. B. Campbell

Surveyed by H.B. Campbell, W.M. Scaife, R.J. Sipe, G.A. Nelson

Protracted by H. F. Garber

Soundings penciled by H. F. Garber

Soundings in fathoms fath

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by J.T. Walker

Verified by J.T.W.

Instructions dated April 21, 1932

Remarks:

DESCRIPTIVE REPORT

to accompany

FIELD SHEET #24

U.S.C. & G.S.S. DISCOVERER H. B. Campbell, Commanding

Scale, 1/20,000

Season 1932.

DATE OF INSTRUCTION

The work executed on this sheet was done in accordance with Instructions, dated April 21, 1932.

SURVEY METHODS

The area was surveyed by the Str. DISCOVERER, M.V. WESTDAHL and two motor sailers. The area off the southeast coast of Marmot Id. was surveyed by the DISCOVERER, using the fathometer. The inshore area was surveyed by two motor sailers, using, in general, the hand lead for depths up to ten fathoms and power driven sounding machines for greater depths. The remainder of the area was surveyed by the M.V. WESTDAHL using, in general, the fathometer with frequent vertical casts as checks for depths over twenty fathoms and the hand lead and electric driven sounding machine for lesser depths. The usual survey methods were employed, with close control over the positions of soundings.

At several places along the coast, especially around the north and east sides of Marmot Id., the kelp was so heavy that it was impossible to penetrate with a launch, without constantly

fouling the reversible wheel and clogging the intake to the circulating pump. Sounding lines were therefore carried to the edge of the heavy kelp.

### DISCREPANCIES

Between positions 85 and 86 "d" day, starboard motor sailer,  $\phi 58^{\circ} - 12.0'$ ,  $\lambda 151^{\circ} - 53.7'$ , there is a reduced sdg. of 5-4/6 close inshore between 1-2/6 fms. and 1-4/6 fms. that appears to be recorded wrong. The sounding was probably 2 fms. 3 feet unreduced instead of 6 fms. 3 feet as recorded. *Edg. rejected*

Between positions 41-45 "G" day, WESTDAHL fathometer line south of Sta. CLIFF the soundings are 1, 2 and 3 fathoms shoaler than those just inshore from the line. These soundings appear to be shoal, perhaps due to the fathometer being slightly out of adjustment. *Depth sdgs. marked rejected*

On position 61 "G" day, WESTDAHL, there is a wire sounding of 14<sup>OK</sup> fms. where there is a wire sounding of 18 fms. between positions 66-67 "f" day, port motor sailer. *rejected*

Between 37 and 44 "L" day, WESTDAHL, the fathometer soundings appeared to be shoaler than the surrounding ones. The next day, "M" day WESTDAHL, positions 121 to 124, the line was rerun as closely as possible, obtaining depths two and three fathoms greater than on "L" day. The fathometer may have been slightly out of adjustment on the first line. Both lines, however are plotted on the smooth sheet. The remaining crossings were very good, checking within a fathom. ✓

DANGERS

The most important danger on the sheet are the two breakers located, two and one half miles off the east coast of Marmot Island. These were located by theodolite cuts from stations MARMOT and HERMO together with sextant cuts taken by the WESTDAHL when offshore. The breakers are in evidence in moderate seas. A sounding of 1-1/6 fathom, reduced, was obtained on the southern of the two breakers located at  $\phi 58^{\circ} - 13.8'$ ,  $\lambda 151^{\circ} - 43.2'$ . The northern breaker located at  $\phi 58^{\circ} - 14.7'$ ,  $\lambda 151^{\circ} - 43.3'$  plots from the cuts between two thirteen fathom soundings. No sounding was obtained directly on the breaker. It was not breaking at the time of launch development. A chain of rocks the outer of which bares 3 ft. at low water extends off triangulation station KAY for one sixth of a mile.

The rock shown on chart # 8555 at  $\phi 58^{\circ} - 16.5'$ ,  $\lambda 151^{\circ} - 51.6'$  was searched for, but could not be found. Numerous soundings were taken in the immediate vicinity of the danger as shown on the chart and the shoalest depth obtained was 6-4/6 fathoms reduced. On several occasions during heavy weather, the WESTDAHL cruised near the vicinity, but no evidence of a breaker was seen.

CHANNELS

Marmot Strait is a good wide channel free from <sup>offshore</sup> dangers, with an even bottom and a depth ranging from thirty to forty eight fathoms in its center.

ANCHORAGES

The cove on the west coast of Marmot Island between triangulation stations COVE and KAY affords fairly good protection from E'ly winds for small craft. The WESTDAHL anchored one quarter of a mile north of signal MAT in this cove, five and one fathoms, soft bottom, a great part of the season with security. On a few occasions the WESTDAHL anchored a quarter of a mile NE x N of triangulation station CLIFF, in King Cove, six and one half fathoms, sandy bottom, during W'ly weather. But strong willy-waws and winds drawing up the strait rendered this anchorage undesirable.

STATISTICS

Statute miles of sounding lines -----	802.0
Number of soundings -----	11,772
" " positions -----	3,960
Square statute miles of area -----	70.0

Respectfully submitted,

*Harry F. Garber*

Harry F. Garber,  
Jr. H. & G. E., C. & G. S.

Respectfully forwarded:

*H. B. Campbell*

H. B. Campbell,  
H. & G. Engr., C. & G. S.,  
Chief of Party.

*(Page 3, T1): This area near the  
r breakers referred to was found  
generally lumpy but was  
not considered worth closer  
development than the 200  
m. system on account  
of the proximity of the two  
breakers. ABC.*

FATHOMETER CORRECTIONS - (M.V. WESTDAHL)

HYDROGRAPHIC SHEET No.24

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.24

August 12, 1932

Pos.	V. C.	Fath.	Corr.
1 A	34.8	34.5	+ 0.3
14 A	48.0	47.5	+ 0.5
26 A	22.5	22.5	0.0

Corrections to Fath. Soundings

Positions 1-20 Add 0.5 Fath.  
 " 20-26 ---- 0.0 "

Sept. 2, 1932

Pos.	V. C.	Fath.	Corr.
1 D	28.5	27.5	+ 1.0
18 D	30.3	29.0	+ 1.3
40 D	30.9	30.0	+ 0.9

Corrections to Fath. Soundings

Positions 1-40 Add 1.0 Fath.

August 27, 1932

Pos.	V. C.	Fath.	Corr.
1 B	29.0	29.0	0.0
21 B	29.0	29.0	0.0

Corrections to Fath. Soundings

Positions 1-21 --- 0.0 Fath.

Sept. 6, 1932

Pos.	V. C.	Fath.	Corr.
17 E	34.3	34.0	+ 0.3
27 E	29.1	32.0	- 2.9 R.
28 E	29.4	29.0	+ 0.4
37+E	23.4	23.0	+ 0.4
109 E	32.0	32.0	0.0
127+E	41.0	40.0	+ 1.0

R. - Rejected, adjusting hammer.

Corrections to Fath. Soundings

Positions 17-74 Add 0.5 Fath.  
 " 74-116 " 0.0 "  
 " 116-121 " 0.5 "  
 " 121-127 " 1.0 "

August 29, 1932

Pos.	V. C.	Fath.	Corr.
1 C	31.5	31.0	+ 0.5
9 C	Line ends.		

Corrections to Fath. Soundings

Positions 1-9 Add 0.5 Fath.



Sept. 7, 1932

<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>
1 F	21.8	21.0	+ 0.8
20 F	34.5	33.0	+ 1.5
35 F	19.6	18.5	+ 1.1
60 F	27.0	26.0	+ 1.0
95 F	28.4	28.0	+ 0.4

Corrections to Fath. Soundings

Positions 1-77 Add 1.0 Fath.  
 " 77-95 " 0.5 "

Sept. 10, 1932

<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>
1 H	28.0	28.0	0.0
12 H	19.8	20.0	- 0.2
37 H	18.0	18.0	0.0
63 H	18.3	18.0	+ 0.3
69 H	18.3	18.0	+ 0.3

Corrections to Fath. Soundings

Positions 1-69 -- 0.0 Fath.

Sept. 9, 1932

<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>
1 G	36.5	36.0	+ 0.5
31 G	36.8	36.0	+ 0.8
45+G	17.5	17.0	+ 0.5
61 G	15.4	15.0	+ 0.4
105 G	23.2	23.0	+ 0.2
112 G	Line ends.		

Correction to Fath. Soundings

Positions 1-61 Add 0.5 Fath.  
 " 105-112 -- 0.0 "

Sept. 13, 1932

<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>
13 J	15.2	15.0	+ 0.2
41 J	15.0	15.0	0.0
44 J	18.2	17.5	+ 0.7

Corrections to Fath. Soundings

Positions 12-44 --- 0.0 Fath.

HYDROGRAPHIC SHEET No. 24 - cont.

Sept. 14, 1932

<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>
1 K	28.5	28.0	+ 0.5
2 K	27.0	27.0	0.0
18 K	27.0	27.0	0.0
19 K	23.5	22.0	+ 1.5 R.
20 K	21.5	21.0	+ 0.5
30 K	17.5	16.0	+ 1.5 *
31 K	17.0	17.0	0.0
39 K	14.5	14.3	+ 0.2
96 K	13.7	14.0	- 0.3
97 K	15.5	16.0	- 0.5
110 K	22.5	23.0	- 0.5
151 K	13.6	13.0	+ 0.6
213 K	13.0	13.0	0.0
218 K	14.1	14.0	+ 0.1
236 K	15.9	15.0	+ 0.9
252 K	15.3	15.0	+ 0.3

R. - Rejected.

\* - Adjusted Fathometer.

Corrections to Fath. Soundings

<u>Positions</u>	<u>2-18</u>	<u>---</u>	<u>0.0</u>	<u>Fath.</u>
"	20-29	Add	0.5	"
"	31-39	---	0.0	"
"	97-122	Sub.	0.5	"
"	122-137	--	0.0	"
"	137-151	Add	0.5	"
"	213-228	"	0.0	"
"	228-252	"	0.5	"

Sept. 15, 1932

<u>Pos.</u>	<u>V. C.</u>	<u>Fath.</u>	<u>Corr.</u>
1 L	28.0	27.5	+ 0.5
14 L	33.0	31.0	+ 2.0 *
14+L	32.3	32.0	+ 0.3
26 L	11.5	11.0	+ 0.5
35 L	17.0	17.0	0.0
40 L	17.4	17.0	+ 0.4
57 L	16.7	15.0	+ 1.7
57+L	18.0	16.5	+ 1.5 *
66 L	14.3	14.0	+ 0.3
122 L	18.0	16.0	+ 2.0
123 L	17.7	18.0	- 0.3
123+L	19.0	18.0	+ 1.0
147 L	16.0	15.0	+ 1.0
157 L	12.5	11.5	+ 1.0
170 L	11.5	11.0	+ 0.5
240 L	17.3	17.5	- 0.2
249+L	18.0	17.5	+ 0.5
285 L	17.0	16.5	+ 0.5

\* - Adjusted Fathometer.

Corrections to Fath. Soundings

<u>Positions</u>	<u>1-4</u>	<u>Add</u>	<u>0.5</u>	<u>Fath.</u>
"	4-8	"	1.0	"
"	8-12	"	1.5	"
"	12-14	"	2.0	"
"	14-44	"	0.5	"
"	44-49	"	1.0	"
"	49-57	"	1.5	"
"	66-97	"	0.5	"
"	123-157	"	1.0	"
"	165-285	"	0.5	"

Sept. 16, 1932

Pos.	V. C.	Fath.	Corr.
1 M	19.0	19.0	0.0
5 M	17.8	17.5	+ 0.3
93 M	18.5	18.4	+ 0.1
99 M	18.5	19.0	- 0.5
109 M	17.0	17.0	0.0
116 M	17.0	17.0	0.0
119 M	18.0	17.0	+ 1.0
127 M	18.6	17.0	+ 1.6 *
127+M	19.0	19.0	0.0
151 M	18.7	18.5	+ 0.2

\* - Adjusted Fathometer.

Corrections to Fath. Soundings

Positions 1-116 --- 0.0 Fath.  
 " 116-119 Add 0.5 "  
 " 119-127 " 1.0 "  
 " 127-151 -- 0.0 "

Sept. 19, 1932

Pos.	V. C.	Fath.	Corr.
1 P	31.5	30.5	+ 1.0
24 P	32.2	31.0	+ 1.2

Corrections to Fath. Soundings

Positions 1-24 Add 1.0 Fath.

Sept. 17, 1932

Pos.	V. C.	Fath.	Corr.
1 N	21.8	22.0	- 0.2
13 N	22.0	22.0	0.0
16 N	18.0	18.0	0.0
16+N	28.0	28.0	0.0
49 N	31.3	31.0	+ 0.3

Corrections to Fath. Soundings

Positions 1-49 --- 0.0 Fath.

Sept. 20, 1932

Pos.	V. C.	Fath.	Corr.
1 Q	36.5	36.0	+ 0.5
11 Q	31.0	30.0	+ 1.0
26 Q	39.4	39.0	+ 0.4
36 Q	27.0	26.0	+ 1.0
58 Q	18.3	18.0	+ 0.3
72 Q	23.5	23.0	+ 0.5
91 Q	15.2	14.5	+ 0.7

Corrections to Fath. Soundings

Positions 1-91 Add 0.5 Fath.

HYDROGRAPHIC SHEET No. 24Sept. 21, 1932

Pos.	V. C.	Fath.	Corr.
1 R	23.5	23.0	+ 0.5
5 R	25.5	25.0	+ 0.5
14 R	20.0	19.0	+ 1.0
14+R	20.8	20.5	+ 0.3
34 R	19.0	18.5	+ 0.5
46 R	18.0	17.5	+ 0.5
95 R	31.7	31.0	+ 0.7
121 R	33.8	32.0	+ 1.8 *
122 R	35.0	35.0	0.0
129 R	34.5	34.5	0.0
146 R	33.0	33.0	0.0
153 R	16.2	16.0	+ 0.2
161 R	18.0	18.0	0.0
170 R	20.7	20.0	+ 0.7
220 R	36.6	36.0	+ 0.6
241 R	36.6	36.0	+ 0.6

\* - Adjusted Fathometer.

Corrections to Fath. Soundings

Positions	1-95	Add	0.5 Fath.
"	95-108	"	1.0 "
"	108-121	"	1.5 "
"	122-164	"	0.0 "
"	164-241	"	0.5 "

Sept. 27, 1932

Pos.	V. C.	Fath.	Corr.
1 S	25.0	25.5	- 0.5
6+S	27.6	28.0	- 0.4

Corrections to Fath. Soundings

Positions 1-6 Sub. - 0.5 Fath.

Sept. 30, 1932

Pos.	V. C.	Fath.	Corr.
2 T	26.0	26.0	0.0
6 T	24.9	24.0	+ 0.9
22 T	25.0	23.0	+ 2.0
22+T	25.1	25.0	+ 0.1
23 T	24.7	24.5	+ 0.2
72 T	24.0	24.0	0.0
86 T	31.2	31.0	+ 0.2
120 T	24.7	24.5	+ 0.2

Corrections to Fath. Soundings

Positions	2-6	Add	0.5 Fath.
"	6-11	"	1.0 "
"	11-16	"	1.5 "
"	16-22	"	2.0 "
"	22-120	"	0.0 "

Oct. 4, 1932

Pos.	V. C.	Fath.	Corr.
82 U	27.3	27.0	+ 0.3
135 U	31.0	31.0	0.0
176 U	30.9	30.0	+ 0.9
177 U	30.7	30.0	+ 0.7
206 U	39.4	39.0	+ 0.4
256 U	36.8	36.0	+ 0.8

Corrections to Fath. Soundings

Positions	82-148	---	0.0 Fath.
"	148-163	Add	0.5 "
"	163-176	"	1.0 "
"	177-256	"	0.5 "

LIST OF SIGNALS

Hydrographic Sheet #24

<u>Hydrographic Name</u>	<u>Location</u>	<u>Hydrographic Name</u>	<u>Location</u>
Windy	Windy, 1932	Cove	Cove, 1932
King	King, 1932	Point	Point, 1932
Cliff	Cliff, 1932	End	End, 1932
Coast	Coast, 1932	Outer	Outer, 1932
Marmot	Marmot, 1907-32	East	East, 1932
Why	Why, 1909-32	Bluff	Bluff, 1932
You	You, 1909-32	Hermo	Hermo, 1932
Kay	Kay, 1909-32	Kneb	Knob, 1932

The following signals are located by topography,  
Topographic Sheet "C" 1932.

Put	Lip	Top	Nil	Rek	Tab
Tex	Min	Wit	Bow	Yes	Kid
Cal	Nor	Arm	Pen	Tey	Jag
Six	Pip	Bub	Ray	Tam	Ion
Ten	Rob	Lot	Sex	Sea	Ham
Who	Sub	Pub	Tann	Ran	Gad
Bax	Thy	Rum	Yew	Pea	Fay
Air	Lok	Tow	Ail	Gwl	Elk
Beg	Apo	And	Wax	Lag	Day
Fix	Bot	But	Bad	Tall	Cog
God	Fry	Cat	Fit	Wag	Bag
See	Gym	Ende	Gin	Kin	Ace
Hip	Hog	For	Hie	Jet	Cab
Lie	Lit	Get	Jut	Try	Yam
Mid	Mot	Hat	Let	Dab	Wad
Nog	Nun	In	Mew	Haw	Sac
Pig	Rod	Jay	Nod	Arp	Pap
Rig	Sin	Kon	Pie	Gan	Jab
Sty	Tin	Lam	Rig	Fee	Hag
The	Wry	Mat	Jew	Gab	Oak
Win	Pen	Not	Hot	Elm	Nab
Ant	Mic	Our	Gay	God	Mam
Bob	Ma	Pet	Fen	Dil	Lay
Fox	Kip	Que	Crow	Bam	Key
Guy	Nit	Rat	Dog	Act	Ice
Hob	Pet	Dam	Cop	It	Fag
Dot	Rub	Sat	May	Yaw	Ebb
		Tut	Maw	Tag	Bad
		Lee	Bat	Saw	Abe
		Men	Age	Rag	Hum
				Paw	Lob
				Ole	
				Nat	
				Law	

## Section of Field Records

Report on H 5256

Chief of Party H. B. Campbell

Protracted by H. F. Garber

Verified and inked by J. Walker

Surveyed in Aug-Sept. 1932

Surveyed by H. B. C., W. M. Scaife, R. J. Sipe, G. A. Nelson  
Soundings plotted by H. F. Garber.

The sounding records were neat and legible. No bottom characteristics and no fathometer comparisons were shown in the records for red A, B, and C days. At many other places where fathometer-vertical cast comparisons were made, no bottoms were recorded.

The protracting was excellent. A close comparison was made with the boat sheet and few differences were noted.

The soundings were in most cases plotted correctly. A few poor crossings were noted but the majority were excellent. ✓

The sheet, when received, was clean and neat. The low water line or edge of inshore rocks was shown on the smooth sheet by the field party as a broken line. At the ~~office~~ advice of Capt. Colbert this was unchanged and no attempt was made to show any of the features inside the broken line as shown on the top sheet. - no soundings fall inside the low water line.

The overlap with H 4518e (1925) was not plotted as the depths all appear deeper.

The overlap with H 5257 and H 5258 is sufficient and the agreement is good.

The overlap with H 5255 was not plotted as it is not yet verified. ✓

The 12 fathom sounding (Lat.  $58^{\circ}08'12.50''$  Long.  $151^{\circ}50'48.20''$ ) on H 5258 falls within the area of H 5256 and needs further development.

The fathometer soundings on 41-9 blue G appear too shoal and were not inked in. See also the descriptive report and boat sheet.

a bad crossing in irregular bottom appears at 154-6 blue C and 114-15 blue K (Lat  $58^{\circ}13'2''$  Long.  $151^{\circ}41''$ )

inked on approval  
of chief Field Records  
Lumpy bottom; also a  
slight adjustment of ady pos.  
by J. Walker

Respectfully submitted.

J. Walker  
8-1-33

## SECTION OF FIELD RECORDS

Review of Hydrographic Sheet No. 5256  
Around Marmot Island, Afognak Island, Alaska  
Surveyed August - September 1932  
Instructions dated April 21, 1932 (Discoverer)

Chief of Party - H. B. Campbell  
Surveyed by - H. B. Campbell, W. M. Scaife, R. J. Sipe, G. A. Nelson  
Protracted and soundings plotted by - H. F. Garber  
Verified and inked by - J. T. Walker.

1. The records are neat and legible and generally conform to the requirements of the Hydrographic Manual. No fathometer comparisons were made by the Discoverer in the area on this sheet consequently no bottom characteristics are recorded in the surveys by that vessel. Frequent comparisons were made on the Tender Westdahl but in many cases the bottom characteristic was not recorded.

2. The plan and extent of development conform to the regulations and satisfy the specific instructions, except south of Marmot Cape where the development in the overlapping area with H. 5258 is insufficient. No detailed development of the sunken reef in lat.  $58^{\circ} 14'.7$  long.  $151^{\circ} 43'.3$  was made, nor does the record indicate the existence or nonexistence of kelp on this reef or on the reef one mile to the southward.

3. Sounding at crossings of lines are generally in good agreement. The discrepancies noted in the Descriptive Report were carefully considered and in view of the good agreement between the fathometer soundings and the vertical wire soundings of the Tender Westdahl it is believed that the P. M. Sailer soundings are too deep, due possibly to inclined sounding wire. With the approval of the Chief, Section of Field Records, the deep soundings (motor sailer pos. 47 to 55f and 50e red) were rejected and the shoaler fathometer soundings plotted.

The bottom eastward of Marmot Island is very lumpy but the Chief of Party did not deem it desirable to devote the time necessary to develop the area completely. The two known reefs were located by breaks in a moderate sea. No sounding was obtained on the northern reef and the records do not mention the presence or absence of kelp on the reefs. This is a serious omission in view of the heavy kelp on the rocks near the shore of Marmot Island.

4. Depth curves can be drawn satisfactorily. In a number of places the development close inshore was prevented by heavy kelp.

5. Junction with H. 5257 is satisfactory. Junction with H. 5258 is satisfactory except in the overlapping area southward of Marmot Cave where further development is necessary. Survey sheet H. 5255 is not yet verified.

6. Comparisons. A few soundings from H. 3016 (1909) and a reconnaissance line from H. 4518e (1929) fall within the area of this sheet. The agreement in depth is good except two soundings in King Cove. An examination of the original sounding records shows that they were plotted in the wrong position on H. 3016. Charts 8502 and 8555 show very little information in the area covered by this sheet.

H. 5256.

7. The field drafting was excellent. The low water line is shown by a broken line. Its character or nature should be taken from the topographic sheet (T. 4737) as well as the other inshore details.

8. Recommendations. This is the basic survey of the area represented and is considered suitable for charting purposes.

Additional development of the area southward and southeastward of Marmot Cap is necessary, especially where the overlap with H. 5258 shows 12 and 14 fathoms near 18 and 19 on this sheet.

A wire drag survey of the area eastward of Marmot Island is necessary if or when the area becomes of navigational importance. In the meantime a cautionary note should be placed in the Coast Pilot<sup>of</sup> on the chart.

The presence or absence of kelp on the two offshore reefs should be ascertained and if practicable the least water over the northern reef determined.

9. Reviewed by R. J. Christman, August 14, 1933

An indication,  $7\frac{3}{4}$  fms. Lat.  $58^{\circ} 14'.4$  Long.  $151^{\circ} 43'.5$  should be developed. This falls between the two breakers.

Additional soundings should be taken on the 9 fm. shoal, Lat.  $58^{\circ} 13'.5$  Long.  $151^{\circ} 40'.5$  to  $41'$ .

Sheet Inspected by A. L. Shalowitz.

Examined and approved:

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

*J. S. Bond*  
Chief, Field Work Section.

*W. P. ...*  
Chief, Chart Division.

*J. H. ...*  
Chief, H. & T. Division.



81-DRM

August 19, 1933.

To: Chief, Section of Field Work.

From: Chief, Section of Field Records.

Subject: Additional work, hydrographic surveys No. 5256 and 5258.

It is recommended that additional work be done by the party on the Ship DISCOVERER south and east of Marmot Island. The following areas are encircled on the boat sheets of H. 5256 herewith:

- (1) 12 fathom spot found on H. 5258 and transferred to this sheet because of the larger scale for development.
- (2) 7 3/4 fathom spot between the breakers.
- (3) 9 and 10 fathom shoal on limits of H. 5258 transferred to this sheet.

None of the above indications was developed.

The soundings plotted were taken while running sounding lines and are all in important locations. No soundings were obtained on the northern breaker. If the weather is favorable, the least depth should be obtained.

A copy of the review of hydrographic survey No. 5256 is attached.

Chief, Section of Field Records.

81-DRM

C O P Y

August 19, 1933.

*Please attach to  
Description Report  
H 5256*

To: Chief, Section of Field Work.  
From: Chief, Section of Field Records.  
Subject: Additional work, hydrographic surveys No. 5256 and 5258.

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None of the above indications was developed.

The soundings plotted were taken while running sounding lines and are all in important locations. No soundings were obtained on the northern breaker. If the weather is favorable, the least depth should be obtained.

A copy of the review of hydrographic survey No. 5256 is attached.

(Sgd.) L. O. Colbert.

Chief, Section of Field Records.

*Memorandum forwarded to Discoverer, 1933  
but additional work was not  
accomplished due to changing of season  
H. O. Cosby*

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5256.....

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

Number of positions on sheet	..... <u>3960</u>
Number of positions checked	..... <u>386</u>
Number of positions revised	..... <u>14</u>
Number of soundings recorded	..... <u>1177.2</u>
Number of soundings revised	..... <u>6.4</u>
Number of signals erroneously plotted or transferred	..... <u>0</u>

Date: .....Aug 1, 1933.....

Cartographer: .....J. Walker.....

May 12, 1933

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in  
12 volumes of sounding records for

HYDROGRAPHIC SHEET 5256

Locality Vicinity of Marmot I. Southwest Alaska

Chief of Party: H. B. Campbell in 1932

Plane of reference is mean lower low water, reading

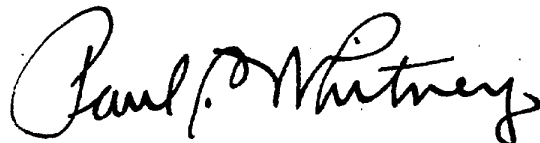
8.7 ft. on tide staff at Marmot I.

5.9 ft. below B. M. 1

Height of mean higher high water above plane of reference is 9.8 feet.

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.



Chief, Division of Tides and Currents.

