

4969

Diag. Chart No 8502-2 & 8556-1

Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton, Director	
C. & G. SURVEY L. & A. MAR 31 1930 Acc. No.	
State: ALASKA	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. 7 4969
LOCALITY	
S. W. ALASKA	
Shelikof Strait	
Cape Ikolik to Cape Ugyak	
1929	
CHIEF OF PARTY	
R. R. Lukens	

U. S. GOVERNMENT PRINTING OFFICE: 1928

4969

DESCRIPTIVE REPORT

to accompany

Hydrographic Sheet #7

S.S.SURVEYOR.

Scale 1 : 100,000
1929

R.R.LUKENS, Commanding

Authority

The work executed on this sheet was done in accordance with instructions dated March 14-th. 1929.

Limits

The area covered on this sheet is a part of Shelikof Strait extending from Raspberry Island on the North, to Cape Ikolik on the South. The northern limit joins sheet No. 2980, the eastern limit joins the inshore hydrography of Kodiak Island. The sounding lines were carried westward to within two or three miles of the Alaska Peninsula. The hydrography was carried southward as far as the season permitted. Split lines were run between the sounding lines of sheet No. 4157 on the southwestern portion of the sheet.

Control

Both visual and R.A.R. control were used on this sheet. The visual control consisted mostly of mountain peaks and headlands, located by triangulation, with topographic signals used inshore. R.A.R. stations were maintained at Malina Point and Karluk, throughout the first half of the season with good results. The offshore area between these points gave good intersections of the arcs. Owing to good visibility throughout the major portion of the season, the R.A.R. control was used only a small part of the time.

Surveying Methods

The sounding lines were run normal to the axis of the strait, spaced a mile apart. Split lines were run one quarter of a mile apart off the Kodiak Island coast to develop the hundred fathom curve. The Fathometer was used throughout the sheet with vertical cast wire soundings every second or third position in all depths of water. The red light was used entirely, obtaining successfully soundings up to 170 fathoms. The ship ran at full speed, recording fathometer soundings every two minutes over 100 fathoms, and every minute

Surveying Methods, (cont.)

under 100 fathoms. At sharp changes of depths, the time and soundings were recorded as they occurred. The wire soundings were obtained by an electric sounding machine located on the port side, in the vicinity of the wheel-house. A thirty two pound lead and stranded wire were used.

Determination of R.A.R. positions

In plotting R.A.R. on the boat sheet, the final velocity obtained by the SURVEYOR in 1928 was used. Early checks showed this to be nearly correct and it was used throughout the season. Several velocity tests were made during the season under varying conditions. Those velocities in meters per second that fell within four meters of the mean, were used in computing the final velocity. All that were used were given the same weight. Lags were taken each day that the R.A.R. control was used. In those cases where the initial beat failed to record on the chronograph tape, the time was computed from the metronome beats, using the scaled times on the lags in determination.

Reduction of Soundings

Serial temperatures were taken three times during the season and the temperature - depth curves drawn. The temperature corrections were taken from the curves and applied to the soundings in tenths of a fathom. A further reduction was made to make the fathometer soundings conform with the wire soundings. When a wire and a fathometer sounding were taken together, their differences plus or minus were plotted as ordinates, using the "X" axis as zero. The depth in fathoms was plotted as abscissa and a smooth curve drawn between the points. Due to varying conditions, a curve was drawn each day. The corrections were taken directly from the curve and applied to the sounding plus or minus to tenths of a fathom. In general, over thirty fathoms, the wire sounding was slightly shoaler than the fathometer sounding. Under thirty fathoms, the fathometer sounding showed shoaler depths, as much as two and three fathoms on a fifteen fathom sounding. Tide reducers were applied to the soundings in one half fathoms.

Dangers

The area covered by this survey is free from reefs and dangerous shoals. The shoal lying off Noisy Island was developed and found to have a least depth of twelve fathoms.

Dangers, (cont.)

The group of three pinnacle rocks, known as Seal Rocks on chart #8502, off Cape Ikolik, have clear water to within a few meters of them. This area was surveyed by launches on field sheet #21, and found clear. These offlying rocks may constitute a danger for vessels entering the strait from the southward in thick weather. The only outside light in the entire strait is at Cape Uganik with a visibility of only eleven miles. A light on one of the Seal Rocks would be an aid to navigation for vessels making landfall from the southward.

Discrepancies

The position of the topographic signal 'Pint' is somewhat in doubt. When plotted on the smooth sheet it was found to disagree with the boat sheet position by about 400 meters. The topographic sheet was forwarded to the office before the smooth sheet was made, but the scaled position was checked by the office. The names of the signals were transferred from the hydrographic field sheet #8 to topographic sheet "E". There may have been an error in transferring the names of the signals. It is recommended that the transfer of the names of the signals be checked at the office. Except in one instance, the fathometer sounding agreed within reasonable limits with the wire soundings. This was on position 37 N., showing a difference of five fathoms. Both were marked O.K. in the record. In cases where the fathometer differed from the wire sounding by one or two fathoms, the wire sounding was plotted. The soundings on cross lines agreed very well throughout the sheet.

Signal 0 Pint
checked and
found to be OK
in 4969
H.F.C.

Tidal Data

The tides were referred to the Standard Tide Gauge at Uyak, without adjustment over the entire area.

Geographic Names

The geographic names are discussed in the Descriptive Reports of the Topographic sheets of this area.

Respectfully submitted,

H. F. Carber
H. F. Carber, Aid. C. & G. S.

LIST OF SIGNALS
OF HYDROGRAPHIC SHEET # 7

STR. SURVEYOR
1929

Hydro.Name	Location	Hydro.Name	Location
Bear	Bear Island, 1908	Spot	Spot, 1929
Bird	Bird Rock, 1908	Top	Top, 1929
Broken	Broken Point, 1908	Uganik Lt.	Cape Uganik Lt. 1929
Cleft	Cleft, 1908		
Dog	Dog Ear Mt., 1908	Tit	Tit, 1929
Bug	Mt. Kubuyakli, N. Peak, 1908	Rio	Rio, 1929
Harvester	"Harvester" Island, 1908	Star	Star, 1929
Gakli	Mt. Kubuyakli, S. Peak, 1908	Sail	Sail, 1929
Kup	Kupreanof, 1908	Pint	Topo Signal Sh. "E"
Miner	Miners Point, 1908	Rap	" " " "
Noisy	Noisy Island, 1908	At	" " " G
Peak	Peak, 1908	Oh	" " " "
Rag	Ragged, 1908	Bit	" " " "
North	Saddle Peak N., 1908	Fos	" " " "
South	" " S., 1908	Le	" " " J
Mound	Mound, 1908	Sir	" " " K
Rocky	Rocky Point, 1908	Church	" " " "
Uyak	Cape Uyak, 1908	Roc	" " " K
Ugat	Cape Ugat, 1908	Pine	" " " "
Split	Split, 1908	If	" " " L
Thumb	Thumb, 1908	Our	" " " "
Yellow	Yellow, 1908	End	" " " L
Ikolik	Ikolik, 1919	Sew	" " " "
Karluk 2	Karluk, 1919	Let	" " " P
Peak #2	Peak #2, 1919	You	" " " "
Peak C.	Peak C., 1919	Wait	Topo Signal Sheet No. 2888
Peak #9	Peak #9, 1919	Fin	Topo Signal Sheet No. 2893
Pin	Pin, 1919	Dune	Topo Signal Sheet No. 2893
House	Lighthouse Rock, 1919	Cone	Hydro. Sig. Sdg. V.1 pages 9, 10, 11.
Middle	Middle, 1919	Roof	Hydro. Sig. Sdg. V.5 pages 19 & 20
Sturgeon	Sturgeon, 1919	K V S	Sextant Positions Sdg. V. #1, page 6.
Stone	Tombstone Rock, 1919	K V K	Sextant Positions Sdg. V. #1, Page 6.
4	Yak, 1919		
Bank	Bank, 1929		
Black	Black, 1929		
Box	Box, 1929		
Drift	Drift, 1929		
High	High, 1929		
Green	Green, 1929		
Red	Red, 1929		
Luk	Luk, 1929		
Lina	Lina, 1929		
Malina 2	Malina 2, 1929		
Roz	Roz, 1929		
Square	Square, 1929		
Litz	Litz, 1929		

STATISTICS FOR HYDROGRAPHIC SHEET # 7

STR. SURVEYOR
1929.

Day	Vol.	No. of Sdgs.			NO. of Positions			Sta. Miles Sdg.			Line Date
		<u>Fath.</u>	<u>Wire</u>	<u>Total</u>	<u>Vis.</u>	<u>R.A.R.</u>	<u>Total</u>	<u>Vis.</u>	<u>R.A.R.</u>	<u>Total</u>	
A	1	89	15	104	19	-	19	19.0	-	19.0	6/14/29
B	1	174	31	205	43	-	43	57.0	-	57.0	6/15/29
C	1	224	22	246	13	16	29	17.0	38.0	55.0	6/18/29
D	1	202	30	232	30	11	41	19.0	35.0	54.0	6/19/29
E	1	302	28	330	45	8	53	46.0	19.0	65.0	6/20/29
F	2	352	29	381	46	11	57	41.0	25.5	66.5	6/21/29
G	2	239	26	265	41	2	43	55.5	3.5	59.0	6/22/29
H	2	116	9	125	28	-	28	19.0	-	19.0	6/26/29
J	2	229	26	255	61	-	61	77.5	-	77.5	6/27/29
K	3	172	17	189	43	-	43	61.0	-	61.0	6/28/29
L	3	88	13	101	26	-	26	24.0	-	24.0	7/5/29
M	3	275	33	308	70	-	70	64.0	-	64.0	7/6/29
N	3	200	22	222	50	-	50	31.0	-	31.0	7/13/29
P	3&4	278	34	312	74	-	74	64.0	-	64.0	7/15/29
Q	4	452	30	482	96	-	96	107.0	-	107.0	7/17/29
R	4	94	4	98	17	2	19	22.0	3.0	25.0	7/18/29
S	4	197	17	214	42	8	50	54.0	16.0	70.0	7/19/29
T	4	194	34	228	53	-	53	33.0	-	33.0	7/25/29
U	5	210	24	234	39	12	51	46.0	22.0	64.0	7/26/29
V	5	169	20	189	46	-	46	56.0	-	56.0	7/27/29
W	5	160	14	174	42	-	42	49.0	-	49.0	7/29/29
X	5	200	19	219	52	-	52	70.0	-	70.0	7/30/29
Y	5	250	24	274	68	-	68	46.0	-	46.0	8/1/29
Z	5	162	14	176	43	-	43	53.0	-	53.0	8/3/29
A'	6	177	18	195	49	-	49	28.2	-	28.2	8/5/29
B'	6	224	24	248	58	-	58	51.0	-	51.0	8/8/29
C'	6	248	23	271	68	-	68	72.0	-	72.0	8/23/29
D'	6	189	18	207	55	-	55	55.0	-	55.0	8/24/29
E'	6	270	28	298	71	-	71	76.0	-	76.0	8/26/29
F'	7	326	27	353	60	-	60	52.0	-	52.0	8/27/29
G'	7	159	13	172	38	-	38	43.0	-	43.0	8/29/29
H'	7	48	8	56	14	-	14	7.0	-	7.0	9/4/29
J'	7	61	5	66	18	-	18	18.4	-	18.4	9/8/29
K'	7	180	21	201	55	-	55	34.0	-	34.0	9/16/29
L'	7	231	35	266	81	-	81	73.0	-	73.0	9/17/29
M'	8	304	24	328	87	-	87	91.0	-	91.0	9/18/29
N'	8	332	26	358	90	-	90	80.0	-	80.0	9/19/29
P'	8	50	6	56	15	-	15	8.5	-	8.5	9/20/29
Q'	8	46	4	50	13	-	13	8.0	-	8.0	9/25/29
R'	8	17	58	75	24	-	24	9.0	-	9.0	10/7/29
TOTALS		7890	873	8863	3505	70	3575	1837.1	162.0	1999.1	

Velocity Tests.

Hydrographic Sheet # 7

Str. SURVEYOR

1 9 2 9

Date	Position	Scaled Dist.		Time in Sec.		Velocity in M/Sec.		
		KVK	KVJ	KVK	KVJ	KVK	KVJ	
June 22.	23 G	39406	65714	26.84	44.61	1468.18	1473.07	118 ^h
June 27	15 J	86898	24515	59.22	18.46	1467.37(1328.0)		125
"	22 J	96346	39845	65.17	26.73	1478.3	1490.6	120
"	26 J	91430	34331	62.18	23.33	1470.41	1471.54	} 150 fms.
"	35 J	*	33954	-	23.11	-	1469.23	
"	37 J	-	37878	-	25.77	-	1469.85	
"	39 J	92566	40664	62.96	27.66	1470.24	1470.14	
"	43 J	-	36279	-	24.72	-	1467.60	
July 19.	15 S	41982	59128	29.33	40.23	1431.3	1469.75	115
" 27	39 V	51171	-	34.86	-	1467.87	-	110
"	41 V	50574	-	34.51	-	1465.48	-	120
" 30	14 X	-	34026	-	23.21	-	1466.00	} 140
"	15 X	-	36461	-	24.87	-	1466.06	
Aug. 3	12 Z	56095	37528	38.80	25.46	1445.7	1473.99	114
						(6)	(10)	
Sum.						8809.55	14697.15	

(16)
 18609.55
 14697.15

 23506.70

Mean Velocity - 1469.17 Meters per Second.

Distances scaled by H.F.G.
 " checked " C.A.G.
 Computations by C.A.G.
 " checked by R.J.S.

SERIAL TEMPERATURES

Shelikof Strait

S.W. Alaska.

1929

Str. SURVEYOR.

R.R. Lukens, Commanding.

June 7.

Depth in Fms.	Temp. °F	Temp. °C
2	47.0	8.3
7	44.0	6.7
12	43.0	6.1
17	42.5	5.8
22	43.0	6.1
27	42.0	5.6
32	42.0	5.6
37	42.0	5.6
42	42.0	5.6
52	42.0	5.6
62	41.5	5.3
72	41.0	5.0
82	41.0	5.0
92	41.0	5.0
110	41.0	5.0

July 26.

Depth in Fms.	Temp. °F	Temp. °C
2	53.6	12.0
7	53.0	11.7
12	48.0	8.9
17	47.0	8.3
22	45.5	7.5
27	45.0	7.2
32	45.0	7.2
37	44.0	6.7
42	44.0	6.7
47	43.5	6.4
57	43.0	6.1
67	42.5	5.8
77	42.0	5.6
87	42.0	5.6
97	41.5	5.3
107	41.5	5.3

Sept 16.

Depth in Fms.	Temp. °F	Temp. °C
5	53.0	11.7
10	52.5	11.4
15	52.5	11.4
20	50.0	10.0
25	49.5	9.7
30	48.0	8.9
35	47.5	8.6
40	47.0	8.3
45	46.0	7.8
50	45.0	7.2
55	43.0	6.1
60	42.5	5.8
65	42.0	5.6

FATHOMETER FACTORS

Shelikof Strait
Salinity 30.5

S.W. Alaska
Mean Voloc. 800

1929

Str. SURVEYOR.

R.R. Lukens, Commanding.

June 7-th to July 1-st.

Depth in Fathoms.	Temp. ° C	Mean. Temp.	Factor.	Corr. Fathoms.
2	8.3			
7	6.7			
12	6.1	7.0	0.007	+ 0.1
17	5.8	6.7	0.006	+ 0.1
22	5.7	6.5	0.006	+ 0.1
27	5.6	6.4	0.005	+ 0.1
32	5.6	6.3	0.005	+ 0.2
37	5.6	6.2	0.005	+ 0.2
42	5.5	6.1	0.004	+ 0.2
47	5.5	6.0	0.004	+ 0.2
52	5.4	6.0	0.004	+ 0.2
57	5.4	5.9	0.004	+ 0.2
62	5.4	5.9	0.004	+ 0.2
67	5.3	5.8	0.004	+ 0.3
72	5.3	5.8	0.004	+ 0.3
77	5.2	5.8	0.004	+ 0.3
82	5.1	5.7	0.003	+ 0.2
87	5.0	5.7	0.003	+ 0.3
92	5.0	5.7	0.003	+ 0.3
97	5.0	5.6	0.003	+ 0.3
102	4.9	5.6	0.003	+ 0.3
120	4.7	5.5	0.002	+ 0.2
140	4.5	5.2	0.002	+ 0.3
160	4.3	5.2	0.002	+ 0.3
180	4.2	5.1	0.002	+ 0.4

FATHOMETER FACTORS

Shelikof Strait S.W. Alaska
 Salinity 30.5 Mean Veloc. 800
 1929

Str. SURVEYOR.

R.R. Lukens, Commanding.

July 2-nd to August 24-th.

Depth in Fathoms.	Temp. ° C	Mean. Temp.	Factor.	Corr. Fathoms.
2	12.0			
7	11.7			
12	9.1	10.9	+ 0.018	+ 0.2
17	8.0	10.2	+ 0.016	+ 0.3
22	7.5	9.7	+ 0.015	+ 0.3
27	7.3	9.3	+ 0.013	+ 0.4
32	7.1	9.0	+ 0.013	+ 0.4
37	6.9	8.7	+ 0.012	+ 0.4
42	6.7	8.5	+ 0.012	+ 0.5
47	6.5	8.3	+ 0.011	+ 0.5
52	6.3	8.1	+ 0.011	+ 0.6
57	6.1	7.9	+ 0.010	+ 0.6
62	5.9	7.8	+ 0.010	+ 0.6
67	5.8	7.6	+ 0.009	+ 0.6
72	5.7	7.5	+ 0.009	+ 0.6
77	5.6	7.4	+ 0.009	+ 0.7
82	5.5	7.3	+ 0.008	+ 0.7
87	5.5	7.2	+ 0.008	+ 0.7
92	5.4	7.1	+ 0.008	+ 0.7
97	5.3	7.0	+ 0.007	+ 0.7
102	5.3	6.9	+ 0.007	+ 0.7
120	5.0	6.6	+ 0.006	+ 0.7
140	4.8	6.3	+ 0.005	+ 0.7
160	4.6	5.9	+ 0.005	+ 0.8
180	4.3	5.9	+ 0.005	+ 0.9

FATHOMETER FACTORS

Shelikof Strait.
Salinity 30.5

S.W. Alaska.
Mean Veloc. 800

1929

Str. SURVEYOR.

R.R. Lukens, Commanding.

August 25-th. End of Work.

Depth in Fathoms.	Temp. ° C	Mean. Temp.	Factor.	Corr. Fathoms.
2	11.7			
7	11.7			
12	11.5	11.6	+ 0.018	+ 0.2
17	10.6	11.4	+ 0.018	+ 0.3
22	9.8	11.1	+ 0.017	+ 0.4
27	9.4	10.8	+ 0.017	+ 0.5
32	9.0	10.5	+ 0.016	+ 0.5
37	8.6	10.3	+ 0.016	+ 0.6
42	8.1	10.0	+ 0.015	+ 0.6
47	7.5	9.8	+ 0.015	+ 0.7
52	6.9	9.5	+ 0.014	+ 0.7
57	6.0	9.2	+ 0.014	+ 0.7
62	5.7	9.0	+ 0.012	+ 0.7
67	5.6	8.7	+ 0.012	+ 0.8
72	5.5	8.5	+ 0.012	+ 0.9
77	5.4	8.3	+ 0.012	+ 0.9
82	5.4	8.1	+ 0.010	+ 0.9
87	5.3	8.0	+ 0.010	+ 0.9
92	5.3	7.8	+ 0.010	+ 0.9
97	5.2	7.7	+ 0.009	+ 0.9
102	5.1	7.6	+ 0.008	+ 0.8
120	5.0	7.2	+ 0.007	+ 0.8
140	4.7	6.8	+ 0.006	+ 0.8
160	4.4	6.5	+ 0.005	+ 0.8
180	4.2	6.2	+ 0.005	+ 0.9

List of data to accompany Hydrographic Sheet # 7

Eight Sounding Records

One Bomb Record

92 Chronograph Tapes in Envelopes

1 Sheet of Temp-Depth Curves

9 Sheets of Fathometer Correction Curves

List of Serial Temperatures

List of Fathometer Factors

List of Velocity Tests and Computation of Velocity

List of Signals

List of Statistics

Descriptive Report

(FOR FILES OF FIELD RECORDS SECT. II)

April 8, 1930.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
8 volumes of sounding records for

HYDROGRAPHIC SHEET 4969

Locality: Shelikof Strait, Alaska

Chief of Party: R. R. Lukens, in 1929

Plane of reference is mean lower low water, reading
2.4 ft. on tide staff at UYAK
ft. below B. M.

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.

Row

Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-WSW

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 27, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. H. 4969

Shelikof Strait, Alaska

Surveyed in 1929.

Instructions dated March 14, 1929. (Surveyor)

Chief of Party, R. R. Lukens.

Surveyed by Field Party.

Protracted by H. F. Garber.

Soundings pencilled by H. F. Garber.

Verified and inked by H. E. Mackwen.

1. The records conform to the requirements of the general instructions.
2. The plan and character of the development fulfill the requirement of the general instructions.
3. The plan and extent of the development satisfy the specific instructions except as pointed out in remarks, paragraph (4)
4. No cross lines were run except along the 100 fathom curve on the upper three quarters of the sheet. In crossings all show good agreement.
5. The usual depth curves can be completely drawn in to the twenty fathom curve.
6. The field plotting was completed to the extent prescribed in the general instructions.
7. The office draftsman did not have to do over any part of the work done by the field draftsman.
8. The junction with adjacent sheets has been compared and found satisfactory. No overlap has been applied.
9. Further surveying is required in the area off Raspberry Island to complete the blank area in the northwest corner of chart 8570.
10. Remarks:

- a. Paragraph 2 of the specific instructions reads: "Consideration should be given the fact that it would be desirable to have your surveys include the unsurveyed triangular area shown on chart 8570. They should at least include the development of the eastern approach to Kuprianof Strait."

While the entrance to the strait was completely surveyed beyond the twenty fathom curve the unsurveyed triangular area mentioned above was not covered entirely. About one third of this area being excluded from the present survey.

- b. The lines in the southwest part of this survey split the lines run on H. 4157. The area can therefore be considered sufficiently covered.

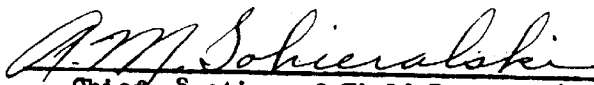
- c. There were several instances of transposition of figures displacing of soundings and errors in spacing soundings by time. These errors were not serious and were easily corrected.

11. Rating of work.

- a. Character and scope of the surveying --- excellent.
b. Field drafting --- good.

12. Reviewed by H. E. MacEwen, May 19, 1930.

Approved:



Chief, Section of Field Records (CHARTS)



Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Mac Ewen

REG. NO. 4969

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. 7

REGISTER NO. **4969**

State ALASKA

General locality ~~S-W ALASKA~~ Shelikof strait

Locality Cape Ikolik to Cape Ugyak
~~SHELIKOF STRAIT~~

Scale 1:100,000 Date of survey June- October, 1929

Vessel STR. SURVEYOR

Chief of Party R.R. Lukens

Surveyed by R.R. Lukens

Protracted by ^FH.F. Garber

Soundings penciled by H.F. Garber

Soundings in fathoms ###

Plane of reference M.L.L.W. at Uyak

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 14, 1929

Remarks:

August 27, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. H. 4969

Shelikof Strait, Alaska

Surveyed in 1929.

Instructions dated March 14, 1929. (Surveyor)

Chief of Party, R. R. Lukens.

Surveyed by Field Party.

Protracted by H. F. Garber.

Soundings pencilled by H. F. Garber.

Verified and inked by H. E. MacDwen.

1. The records conform to the requirements of the general instructions.
2. The plan and character of the development fulfill the requirement of the general instructions.
3. The plan and extent of the development satisfy the specific instructions except as pointed out in remarks, paragraph(a)
4. No cross lines were run except along the 100 fathom curve on the upper three quarters of the sheet. In crossings all show good agreement.
5. The usual depth curves can be completely drawn in to the twenty fathom curve.
6. The field plotting was completed to the extent prescribed in the general instructions.
7. The office draftsman did not have to do over any part of the work done by the field draftsman.
8. The junction with adjacent sheets has been compared and found satisfactory. No overlap has been applied.
9. Further surveying is required in the area off Raspberry Island to complete the blank area in the northwest corner of chart 8570.
10. Remarks:

- a. Paragraph 2 of the specific instructions reads: "Consideration should be given the fact that it would be desirable to have your surveys include the unsurveyed triangular area shown on chart 8570. They should at least include the development of the eastern approach to Kuprianof Strait."

While the entrance to the strait was completely surveyed beyond the twenty fathom curve the unsurveyed triangular area mentioned above was not covered entirely. About one third of this area being excluded from the present survey.

- b. The lines in the southwest part of this survey split the lines run on H. 4157. The area can therefore be considered sufficiently covered.

- c. There were several instances of transposition of figures displacing of soundings and errors in spacing soundings by time. These errors were not serious and were easily corrected.

11. Rating of work.

- a. Character and scope of the surveying --- excellent.
b. Field drafting --- good.

12. Reviewed by H. E. MacEwen, May 19, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

Applied to Chart No.

8534 (1935) 1:80,000, by James W. McQuire

6515 10/10/86 J Graham Cat # 1