

6160

6160

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. 8135
Hydrographic }

State Alaska

LOCALITY

Aleutian Islands

South of Unalaska Island

1936

CHIEF OF PARTY

A.M. Sobieralski

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

REG. NO.

FEB 23 1937

Acc. No.

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. 8135
(additional work 1936)
REGISTER NO. H5972 ⁶¹⁶⁰ (~~Add Wk. 1934~~)

State Alaska

General locality Aleutian Islands

Locality South side of Unalaska Island

Scale 1:80,000 Date of survey June-August, 1936

Vessel U.S.C.&G.S. Ship SURVEYOR

Chief of Party A. M. SOBIERALSKI

Surveyed by A.M.S., G.L.B., I.T.S., & C.J.W.

Protracted by D. E. Sturmer

Soundings penciled by D. E. Sturmer

Soundings in fathoms foot

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by G. C. Mc Glosson

Verified by G. C. Mc Glosson

Instructions dated April 13, 1934

Remarks: Project HT-176

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SHEET FIELD NO. 8135

(Additional work, 1936)

SHEET REGISTER NO. H5972

SOUTH COAST, UNALASKA ISLAND, ALEUTIAN ISLANDS

ALASKA

Project HT-176 - Scale 1:80,000

Date of original instructions, April 13, 1934

This additional work on Field Sheet 8135 covers an area on the south side of Unalaska Island, extending to the 2,000 fathom curve from the outer limits of the proposed launch work.

The work on this sheet is a continuation of the work on original Sheet Field No. 8135, (Reg. No. H5972) joining it where the 1935 work ended, south of Prominence Point, and ending along meridian $166^{\circ} 55'$. Several lines on this sheet are "splits" on the original sheet. It was intended to submit this work for plotting in the office on the original sheet, but as a number of signals, located only by sextant cuts in 1935, have now been located by triangulation, it was considered advisable to make a new projection. It is suggested that this sheet be given the number H5972 A and filed with H5972. *Registered as new sheet.*

The sea bottom in this area is regular, deepening gradually to the 100 fathom curve, with a marked increase in slope beyond this depth.

The shoreline of Unalaska Island in this vicinity, determined by reconnoissance in 1935, is shown in pencil on smooth Sheet Field No. 8135, (Reg. No. H5972) to and including Kuliliak Bay. The location of several Hydrographic signals by sextant angles this season necessitated a few minor changes in this shoreline. These changes are shown on this sheet. The shoreline, determined by reconnoissance from Kuliliak Bay westward to a junction with topography in the vicinity of Cape Aiak is shown in pencil on this sheet. It is suggested that this revised shoreline from Hive 1935 to Pin 1936 may be used for correction for small scale charts, pending the completion of surveys in this area. Three additional peaks were cut in on this sheet during the 1936 season and their elevations determined. They fall in

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an area not covered by topo sheets and may furnish valuable additional data for the charts. In each case the highest peak in the vicinity was located. The existence of this information should be shown on the topo index charts.

Survey Methods

Standard methods were used in the survey of the area covered by this sheet. The hydrography was done entirely by the ship. Positions were determined by means of visual fixes on shore objects, and the depths by fathometer No. 1 Type 312, Serial No. 312104 AB, with occasional vertical casts for comparison. All fathometer soundings were corrected for temperature, salinity, index, etc. in accordance with the Hydrographic Manual, and Field Memorandum No. 3, of June 11, 1936.

Discrepancies

The following discrepancies were noted on crossings:

Pos. 75-76B and 69-70D. 45 fathoms falls between 40 and 43 fathoms. Lat. 53°26', Long. 166°39'

Pos. 75-76E and 2B. 42 fathoms falls on 40 fathoms. Lat. 53°23', Long. 166°54'

Discrepancies of from one to two fathoms occur in 3 or 4 instances where the work over-laps last seasons work.

These discrepancies are not considered sufficiently large to warrant adjustments for charting purposes, as all of them fall in areas where steep slopes occur.

Accepted, of small importance
K. W. M.

Dangers

No dangers were found in the area covered by this sheet.

Channels & Anchorages

This sheet comprises offshore work only--no restricted areas.

Comparison with Previous Surveys

No previous surveys in this area.

Geographic Names

For names in this area refer to Descriptive Report Sheet Field No. 8135, 1935, Reg. No. H5972.

Approved & forwarded,

A. M. Sobieralski
A. M. SOBIERALSKI,
Commanding Officer,
U.S.C.&G.S. Ship SURVEYOR

Respectfully submitted,

Ira T. Sanders
Ira T. Sanders,
Jr. H.&G.E.

STATISTICS TO ACCOMPANY

HYDROGRAPHIC SHEET FIELD NO. 8135

(Additional work, 1936)

REG. NO. H5972

U.S.S. SURVEYOR

<u>Date</u>	<u>Day</u>	<u>Vol.</u>	<u>No.</u> <u>Positions</u>	<u>No.</u> <u>Soundings</u>	<u>Statute</u> <u>Miles</u>
6-19-36	A.	1	39	194	48.0
6-20-36	B.	1	106	583	100.0
7-20-36	C.	1	68	479	50.6
8-1-36	D.	1-2	117	765	75.5
8-2-36	E.	2	197	1425	116.5
8-11-36	F.	2-3	90	384	82.8
	TOTALS		617	3830	473.4

SQUARE STATUTE MILES ** 600

APPROVAL SHEET TO ACCOMPANY

HYDROGRAPHIC SHEET FIELD NO. 8135

(Additional work, 1936)

REG. NO. H5972

This sheet and the records have been examined,
and are approved.

A.M. Sobieralski

A.M. SOBIERALSKI,
Commanding Officer,
U.S.C.&G.S. SHIP SURVEYOR

INDEX CORRECTIONS FOR FATHOMETER SOUNDINGS

ALL DEPTHS

FATHOMETER NO. 1

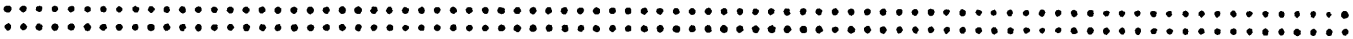
MAY 5th to JUNE 11th 0.0 fms.
 JUNE 12th to JULY 20th 12:06 0.0 fms.
 JULY 20th 12:06 to AUG. 2nd 6:45 -1.5 fms.
 AUG. 3rd to AUG. 9th 0.0 fms.
 AUG. 10th to OCT. 4th +1.5 fms.

FATHOMETER NO. 2

MAY 5th to OCT. 4th +0.5 fms.

ALL WHITE LIGHT SOUNDINGS.....0.0 fms.
 RED LIGHT SOUNDINGS X6-MULTIPLY CORRECTION BY 6

DIAL SPEED FATHOMETER NO. 1, 39.64 RPM



CORRECTIONS TO SOUNDINGS LESS THAN 200 FMS.

June 5 to June 19, Incl.

June 20 to August 4, Incl.

<u>DEPTH</u>	<u>CORRECTION</u>	<u>DEPTH</u>	<u>CORRECTION</u>
0- 9.9	plus 0.1 fm.	0- 9.9	plus 0.1 fm.
10- 17.9	" 0.2 "	10- 15.9	" 0.2 "
18- 24.9	" 0.3 "	16- 22.9	" 0.3 "
25- 64.9	" 0.5 "	23- 53.5	" 0.5 "
65-108.9	" 1.0 "	54- 89.5	" 1.0 "
109-150.9	" 1.5 "	90-123.5	" 1.5 "
151-189.9	" 2.0 "	124-158.5	" 2.0 "
190-200	" 2.5 "	159-193.5	" 2.5 "
		194-200	" 3.0 "

May 28 to June 4, Incl.

August 5 to October 4, Incl.

<u>DEPTH</u>	<u>CORRECTION</u>	<u>DEPTH</u>	<u>CORRECTION</u>
0- 10.9	plus 0.1 fm.	0- 7.9	plus 0.1 fm.
11- 18.9	" 0.2 "	10- 15.9	" 0.2 "
19- 26.5	" 0.3 "	16- 22.9	" 0.3 "
27- 69.5	" 0.5 "	23- 53.5	" 0.5 "
70-115.5	" 1.0 "	45- 77.5	" 1.0 "
116-160.5	" 1.5 "	78-114.5	" 1.5 "
161-200.0	" 2.0 "	115-153.5	" 2.0 "
		154-193.5	" 2.5 "
		194-200	" 3.0 "

PATH-METER CORRECTIONS SOUNDINGS OVER 200 FATHOMS

May 5, 1936 to October 4, 1936

U.S.C. & G.S.S. SURVEYOR

Depth from to	Cor'n. fms.	Depth from to	Cor'n. fms.	Depth from to	Cor'n. fms.			
	200	3	1457	1433	39	2227	2245	75
201	250	4	1484	1510	40	2240	2264	76
251	300	5	1511	1534	41	2265	2293	77
301	350	6	1535	1559	42	2284	2302	78
351	400	7	1559	1582	43	2303	2321	79
401	450	8	1583	1606	44	2322	2340	80
451	500	9	1607	1630	45	2341	2358	81
501	550	10	1631	1654	46	2357	2372	82
551	598	11	1655	1678	47	2373	2398	83
599	626	12	1679	1702	48	2389	2404	84
627	664	13	1703	1726	49	2406	2420	85
665	702	14	1727	1750	50	2421	2436	86
703	740	15	1751	1771	51	2437	2452	87
741	778	16	1772	1793	52	2453	2468	88
779	816	17	1793	1813	53	2469	2484	89
817	854	18	1814	1834	54	2485	2500	90
855	892	19	1835	1855	55	2501	2516	91
893	930	20	1856	1876	56	2517	2532	92
931	961	21	1877	1897	57	2533	2548	93
962	992	22	1898	1918	58	2549	2564	94
993	1023	23	1919	1939	59	2565	2580	95
1024	1054	24	1940	1960	60	2581	2596	96
1055	1085	25	1961	1979	61	2597	2612	97
1086	1116	26	1980	1998	62	2613	2628	98
1117	1147	27	1999	2017	63	2629	2644	99
1148	1178	28	2018	2036	64	2645	2660	100
1179	1209	29	2037	2055	65	2661	2675	101
1210	1240	30	2056	2074	66	2676	2690	102
1241	1267	31	2075	2093	67	2691	2705	103
1268	1294	32	2094	2112	68	2706	2720	104
1295	1321	33	2113	2131	69	2721	2735	105
1322	1343	34	2132	2150	70	2734	2750	106
1349	1375	35	2151	2169	71	2751	2765	107
1376	1402	36	2170	2188	72	2766	2780	108
1403	1429	37	2189	2207	73	2781	2795	109
1430	1456	38	2208	2226	74	2796	2810	110

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ⁶¹⁶⁰~~H-5972~~ (Addl. Wk. 1936)

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

Number of positions on sheet	..617.
Number of positions checked	..8...
Number of positions revised	..0...
Number of soundings recorded	..3830
Number of soundings revised	..5...
Number of signals erroneously plotted or transferred	..0...

Date: 3/10/37

Verification by *G. C. McSlosson*

Review by *Harold W. Murray*

Verification Corrections by ..

Time: 3 days 13/4 hours

Time: 0 .. 4 3/4 ..

.. 0 .. 1/2 ..

B-6160

EXH
1915/100

HYDROGRAPHIC SURVEY NO. H-5072(Add'l Wk. 1936)

Smooth Sheet Yes

Boat Sheet Yes(Same as for original survey)

Sounding Records 3 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) No.

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service (Circular Nov. 30, 1933) No

Remarks HYDROGRAPHY

Total Days 6.....

Last Date Aug 11, 1936.....

Remarks

Decisions

	Remarks	Decisions
1		For Title
2		For Title
3		USGB decision
4	Cape Aiak is farther westward see T 6552 and C.P.	
5		see H-5972
6	Do not ink name on this sheet	" "
7		" "
8		T 6552
9		
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234		

GEOGRAPHIC NAMES

Survey No. ~~H-5972~~ (Addl. WK. 1937)

H-6160

Name on Survey	<div style="display: flex; justify-content: space-between; font-size: small;"> On Chart No. 8802 On previous survey No. On U. S. quadrangle Maps From local information On local Maps U. S. Guide or Map Makers Dic't Rand McNally Atlas U. S. Light List USCP </div>										
	A	B	C	D	E	F	G	H	K		
<u>Alaska</u>	✓										1
<u>Aleutian Islands</u>	✓					✓	✓	✓	✓		2
<u>Unalaska Island</u>	✓										3
Lance Pt Cape Atak	✓					✓	✓		P. 357 II		4
<u>Kuliliak Bay</u>	✓ appd										5
<u>Usof Bay</u>	✓ appd										6
<u>Cape Yanaliun</u>	8860 appd										7
<u>Cape Aiak</u>	✓					✓	✓				8
											9
											10
											11
											12
											13
											14
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											25
Names underlined in red approved by <u>WFE</u> on <u>3/18/37</u>											26
											27

10 March, 1937.

Report on H 6160
Tripping and Linking

1. The records conform to the requirements of the General Instructions.
2. The usual depth curves can be completely drawn within the limits of the sheet except as noted in the Review.
3. The field plotting was ^{revised} completed to the extent prescribed in the Hydrographic Manual.
4. The office draftsman did not have to do over any part of drafting done by the field party, ~~except as noted on sketch sheet.~~
5. The junction with the contemporary adjacent sheet H 5972 (1935) is satisfactory.
6. The signals on this sheet consist of hydrographic and triangulation stations. See the

Descriptive Report from the
Chief of Party about the shoreline.
7. There are no aids to
navigation shown on this sheet.

Respectfully submitted,
S. C. Mc Glosson

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TIDE NOTE FOR HYDROGRAPHIC SHEET

March 1, 1937.

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in
3 volumes of sounding records for

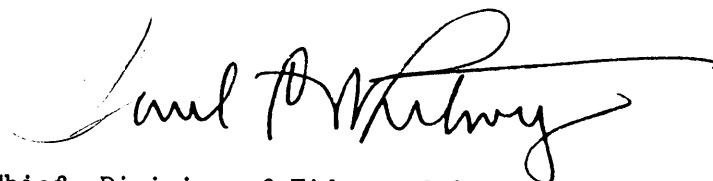
HYDROGRAPHIC SHEET ⁶¹⁶⁰ ~~5972 (add 10/1/1936)~~

Locality South of Unalaska Island, Aleutian Islands

Chief of Party: A. M. Sobieralski in 1936
Plane of reference is mean lower low water reading
3.3 ft. on tide staff at Chernofski Harbor
8.8 ft. below B.M. 1

Height of mean high water above plane of reference is 3.4 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6160 (1936) FIELD NO. 8135

South of Unalaska Island, Aleutian Islands, Alaska
Surveyed in 1936 Scale 1-80,000
Instructions dated April 13, 1934 (SURVEYOR)

Fathometer Soundings. 3 Point fixes on shore signals.

Chief of Party - A. M. Sobieralski.
Surveyed by - A. M. Sobieralski, G. L. B., I. T. S. and C. J. W.
Protracted by - D. E. Sturmer.
Soundings plotted by - D. E. Sturmer.
Verified and inked by - G. C. McGlasson.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

The Descriptive Report is clear and comprehensive and satisfactorily covers all items of importance. No reference is made, however, to the separate report containing detailed fathometer data as required in Field Memorandum No. 3 (1936) par. 9.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.

3. Shoreline and Signals.

- a. This is an offshore sheet and no shoreline is shown.
- b. The signals are from triangulation stations established in 1935-36 and have been supplemented by several hydrographic signals cuts for which are listed in the index of volumes 1 and 2.

4. Sounding Line Crossings.

General agreement of cross lines resulting from the development is satisfactory. Some differences, however, are noted in the Descriptive Report (page 2).

5. Depth Curves.

Within the limits of the survey, the usual depth curves may be satisfactorily drawn except as noted in paragraph 2 of this review.

6. Junctions with Contemporary Surveys.

- a. The junction on the east with H-5972 (1935) is very good.

- b. The junction on the west with Field Sheet No. 8136 will be considered when that sheet is received in the office.
- c. No surveys have as yet been made by this Bureau to the southward of the present survey.

7. Comparison with Prior Surveys.

No previous surveys have been made by this Bureau in the area covered by the present survey.

8. Comparison with Charts No. 8860 (New Print dated Feb. 21, 1936 and 8802 (New Print dated Nov. 28, 1936)).

a. Hydrography.

The source of the six soundings with depths varying from 55 to 169 fathoms which fall within the limits of the present survey was not ascertained but have been carried on our charts since June 1893 (Obsolete Chart 8800). The control for these soundings is evidently weak since most of them fall in deeper depths on the present survey. They should be disregarded in future charting.

b. Aids to Navigation.

There are no aids to navigation in the area covered by the present survey.

9. Field Plotting.

Field protracting and plotting were exceptionally accurate.

10. Additional Field Work Recommended.

No additional field work is required.

11. Note to Compiler.

The shoreline shown in dashed pencil line was sketched in by the field party from a reconnaissance and the cuts to mountain peaks were taken from offshore hydrographic positions. A topographic survey is being made of this area and the information above mentioned is being retained pending receipt of the new topography. (See Descriptive Report, pages 1 and 2).

12. Superseded Previous Surveys.

There are no prior surveys made by this Bureau within the area of the present survey.

13. Reviewed by - Harold W. Murray.

March 12, 1937.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green.

C. K. Green,
Chief, Section of Field Records.

L. O. Pollock.

Chief, Division of Charts.

Fred. L. Peacock

Chief, Section of Field Work.

G. H. de

Chief, Division of H. & T.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

No. H-⁶¹⁶⁰~~5978~~ (Addl.
 Wk. 1936)
~~XXXX~~
 No. 1

received Feb. 23, 1937
 registered Feb. 26, 1937
 verified
 reviewed
 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			
30			
40			
62			
63			
82			
✓ 83			<i>page 1 - (called to Cap. Flower's attention</i>
88			<i>March 15 - c.k.g.</i>
90			

RETURN TO

82	C. K. Green
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✓

Applied to drawing of Chart 8860 S.B. Maize May 1937
Applied to drawing of Chart No. 8802 S.B. Maize June 1937
Applied to Chart compilation. No. 9019. L.A. McCann Oct. 1939.
" " " " " 8861 J. Walker Feb. 1942