

5972

U. S. COAST & GEODETIC SURVEY
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APR 1 1936

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Form 504
Ed. June, 1923

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



State: ALASKA

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 8135

LOCALITY

SOUTH SIDE OF UNALASKA ISLAND

ALEUTIAN ISLANDS

19-35-

CHIEF OF PARTY

A. M. SOBIERALSKI, H. & G. E.

5972

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 1 1936

REG. NO.

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

REGISTER NO. ⁵⁹⁷² **H5972**

State ALASKA

General locality ALEUTIAN ISLANDS

Locality SOUTH SIDE OF UNALASKA ISLAND

Scale 1:80,000 Date of survey AUG - OCT., 1935

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

Chief of Party A. M. SOBIERALSKI

Surveyed by A. M. S., G. L. B., R. C. Rouse

Protracted by A. NEWTON STEWART

Soundings penciled by A. NEWTON STEWART

Soundings in fathoms feet

Plane of reference M L L W

Subdivision of wire dragged areas by _____

Inked by [Signature]

Verified by [Signature]

Instructions dated APRIL 13, 1934

Remarks: PROJECT HT-176

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC FIELD SHEET 8135
SOUTH COAST OF UNALASKA ISLAND, ALEUTIAN ISLANDS

PROJECT HT-176 - SCALE 1:80,000

Date of original instructions April 13, 1934.

Field Sheet 8135 covers an area on the south side of Unalaska Island extending to the 1,000 fathom curve from the outer limits of the proposed launch work. The launch work has been completed only to the eastward of Δ Hive 1935 (Field Sheet U-2135). The survey joins Sheet Reg. No. 5759 to the eastward and extends in a southwesterly direction for an average distance of about 25 miles.

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

Material assistance in reconnaissance for the triangulation scheme extending to the westward along the south shore of Unalaska Island was afforded by means of cuts to peaks from offshore positions. Many of these peaks would add to the value of the chart, if charted.

The shoreline of Unalaska ^{Island} determined by reconnaissance, is shown in pencil on the smooth sheet from Δ Hive 1935 westward to Kuliliak Bay. It is suggested that this revised shoreline be used for correction of charts pending completion of surveys.

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 being determined by means of visual fixes from shore objects and the soundings being taken by means of the fathometer, with occasional vertical casts.

Discrepancies:

H-5974 (1935)
* Discrepancies of from one to three fathoms were occasionally found where the work of this sheet overlaps the inshore work (Field Sheet U-2135) or is adjacent to the offshore work of the previous season (Reg. No. 5759). These differences are not considered sufficiently large to necessitate adjustments for charting purposes. This same discrepancy is noted wherever the 1934 fathometer soundings were crossed. All crossings within the area surveyed check closely.

* see review
of H-5974

Dangers:

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

Channels & Anchorages:

The sheet comprises offshore work entirely - no restricted areas. ✓

Comparison with Previous Surveys:

No previous surveys. ✓

Geographic Names:

Along the reconnoissance shoreline from Δ Hive 1935 westward to Kuliliak Bay the locally accepted names of bays, points and islands are shown in pencil, as well as several names suggested by members of the field party, as follows:

Locally accepted names:

Staraya Harbor, Kayak Cape, Protection Bay, (Vanaliun Cape), Three Island Bay, Whalebone Cape, Blueberry Bay, Cape Prominence, Usob Bay, Open Bay, Reef Cape, Raven Bay, Ogangen Island, Eagle Bay, Kuliliak Bay, Johnson Bay (Inner Usob Bay);

Names suggested by field Party:

Hive Bay, from a hive-shaped rock at the entrance;
Foam Cove, from a conspicuous foamy cascade at the head of the cove; *cape (see photo in Seasons Report H.T. 176 5/1936)*
Cylinder Point, from a tall pinnacle rock adjacent to the point and conspicuous from a southwesterly direction.

Respectfully submitted,

Roger C. Rowse
Roger C. Rowse,
H. & G. E.

Approved & forwarded:

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

LIST OF SIGNALS TO ACCOMPANY
HYDROGRAPHIC SHEET FIELD No. 8135

Triangulation Location:

Egg	Egg, 1901-34	Hive	Hive, 1935
Head	Biorka Head, 1901-34	Knife	Knife, 1935
Sent	Sentry, 1934	Ledge	Ledge, 1935
In	Inner Sentry, 1934	Dock	Dock, 1935
Sedan	Sedan, 1934	Kayak	Kayak, 1935
Lion Head	Lion Head, 1934	Yan	Yanal, 1935
Sed	Sed, 1934	Jut	Jut, 1935
Toot	Toot, 1934	Usof	Usof, 1935
Front	Front, 1934	Prom	Prom, 1935
Slim	Slim, 1934	See	See, 1935
Daga	Daga, 1935	Clear	Clear, 1935
Wall	Wall, 1935	Nip	Nip, 1935
Gak	Udagak, 1935	Rug	Rug, 1935
Bat	Bat, 1934	Col	Col, 1935
Tab	Tab, 1934	Sir	Sir, 1935
Apex	Apex, 1935	Dik	Dik, 1935
Start	Start, 1935	An	An, 1935

Topographic Locations

Topo Sheet Field Letter U-A-1934

Grap

Topo Sheet Field Letter U-B-1935

Pen

Pig

Up

Hydrographic Locations

New (Vol. 1 Page 14
(Vol. 3 Pages 32-35

Grass (Vol. 1 Pages 50-53
(Vol. 3 Page 3

Sky (Vol. 2 Page 26
(Vol. 1 Pages 50, 62-64, 69

STATISTICS TO ACCOMPANY
HYDROGRAPHIC SHEET FIELD NO. 8135

U. S. S. SURVEYOR

<u>Date</u>	<u>Day</u>	<u>Vol.</u>	<u>No. Positions</u>	<u>No. Soundings</u>	<u>Statute Miles</u>
8-6-35	A	1	99	488	81.3
8-7-35	B	1	123	580	110.4
8-8-35	C	1	14	82	8.0
8-12-35	D	1-2	99	425	110.0
8-20-35	E	2	60	205	43.3
8-29-35	F	2	74	298	70.7
9-4-35	G	2	44	166	28.3
9-19-35	H	2	89	334	62.3
9-20-35	J	2-3	105	351	114.5
9-26-35	K	3	47	191	31.0
10-10-35	L	3	<u>89</u>	<u>300</u>	<u>42.6</u>
Totals:			843	3,420	702.9

Square statute miles..... ~~94.5~~
945

Field Records Section

Hydrographic Survey 5972 (1935) Field No. 8135

South of Unalaska Island
Aleutian Islands, Alaska
Chief of Party A. M. Sobieralski

1. Condition of Records
The records are neat, legible and conform to the requirements of the Hydrographic Manual. ✓
2. Shoreline and Control
Topographic surveys in this locality have not been registered to date, *T-4734 (1935) and T-6460 (1935) not registered. May 29, 1936 - [Signature]* ✓
3. Sounding Line Crossings
The soundings at line crossings are in excellent agreement. ✓
4. Depth Curves
The usual depth curves can be satisfactorily drawn. ✓
5. Junctions with Contemporary Surveys
The junctions with H5738 (1934) and H5759 (1934) on the northeast ~~is~~ satisfactory. ✓
6. Field Plotting.
The field plotting is satisfactory. ✓
7. Remarks.
No Boat Sheet received from Field to date. Verified and inked by ✓



Leo S. Straw

May 19, 1936

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H5972**

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

Number of positions on sheet	843
Number of positions checked	3
Number of positions revised	3420
Number of soundings recorded	—
Number of soundings revised	5
Number of signals erroneously plotted or transferred	0

Date: *May 19, 1936*

Inking +
Verification by *[Signature]*

Review by *John G. Ladd*

Time: *19 1/2 hours*

Time: *6 hrs.*

HYDROGRAPHIC SURVEY NO. H5972

Smooth Sheet yes

Boat Sheet none

Sounding Records 3 Vols. _____

Descriptive Report yes

Title Sheet yes

List of Signals Vol 1

Landmarks for Charts (Form 567) no

Statistics yes

Approved by Chief of Party no *yes*

Recoverable Station Cards (Form 524) none

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

Remarks _____

Remarks

Decisions

1		
2		
3		
4		
5		
6		Decision withheld pending topo.
7		" "
8		
9		
10		
11		
12		
13		
14		
15		
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17		
18		
19		
20	See	T-6600
21		
22		
23		
24		
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27		

GEOGRAPHIC NAMES

Survey No. H5972

Name on Survey	8860									
	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	C.P. Chart 8802	
<u>Unalaska Island</u> ✓	*						✓	✓	✓	1
<u>Kuliliak Bay</u> ✓							✓	✓	*	2
<u>Eagle Bay</u> ✓									*	3
Orange Island ?										4
<u>Raven Bay</u> ✓								✓	*	5
Reef Cape ✓								✓	*	6
<u>Open Bay</u> ✓	*							✓		7
Cylinder Point ?								✓		8
<u>Usuf Bay</u>	*						✓	✓	✓	9
<u>Cape Prominence</u>	*							✓		10
Blueberry Bay ?								✓		11
<u>Whalebone Cape</u> ✓	*									12
Foam Cove ?										13
<u>Three Island Bay</u> ✓	*							✓	✓	14
<u>Yanaliun Cape</u> ✓	*							✓		15
<u>Protection Bay</u> ✓	*						✓	✓	✓	16
<u>Kayak Cape</u> ✓	*						✓	✓	✓	17
<u>Staraya Harbor</u> ✓	*							✓		18
Hive Bay ?										19
<u>Eagle Pt.</u> 7-29-38 L-14										20
										21
										22
										23
										24
										25
										26
										27

Names Underlined in red approved
 by *[Signature]* 07/21/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

No. H5972
~~NO. 11~~

received April 2, 1936
 registered April 16, 1936
 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			
88			
90			

RETURN TO

82	
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C. K. Green *April 18 1936*

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 30, 1936

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 5972

Locality South of Unalaska I_sland, Aleutian Islands.

Chief of Party: A. M. Sobieralski in 1935
Plane of reference is

- 3.1 ft. on tide staff at Biorka Village
- 12.6 ft. below B.M. 1
- 2.4 ft. on tide staff at Usof Bay
- 6.1 ft. below B.M. 1
- 4.4 ft. on tide staff at Udagak Strait
- 6.9 ft. below B.M. 1

Height of mean high water above plane of reference is 4.9 feet at Biorka Village; 5.3 feet at Usof Bay and 4.7 feet at Udagak Strait.

Condition of records satisfactory except as noted below:

R. Schuseman

Actg Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5972 (1935) FIELD NO. 8135

South of Unalaska Island, Aleutian Island, Alaska

Surveyed in 1935

Instructions dated April 13, 1934

Fathometer Soundings.

3 Point fixes on shore signals.

Chief of Party - A. M. Sobieralski.
Surveyed by - A. M. Sobieralski.
Protracted by - A. N. Stewart.
Soundings penciled by - A. N. Stewart.
Verified and inked by - Leo S. Straw.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that no boat sheet has been submitted by the field party.

The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project. The wide spacing of the sounding lines inside the 100 fathom curve at the western limit of the survey is probably due to the termination of the season's work.

3. Shoreline and Signals.

Being an offshore survey there is no shoreline shown. The topographic signals originate with T-4934 (1935) and T-6460 (1935). The hydrographic signals originate with this survey and the cuts for same are recorded in the sounding volumes.

4. Sounding Line Crossings.

Although no regular system of cross lines were run, those that occur in the normal development of the work, together with the parallel adjacent lines are in good agreement.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

The junctions with H-5738 (1934-35) on the northeast and with H-5759 (1934) on the east are satisfactory. The junction with H-5974 will be considered in the review of that survey.

7. Comparison with Prior Surveys.H-2541 (1901).

This survey on a scale 1:60,000 contains only one line of soundings that falls within the limits of the present survey. A comparison reveals no discrepancies. The line should be superseded by the present survey for charting purposes.

8. Comparison with Chart No. 8860 (New Print dated Feb. 21, 1936).

Within the limits of the present survey the chart is based on the survey discussed in the foregoing paragraph, together with three soundings from various other sources. Two of these soundings are in conflict with the present survey and are considered as follows:

- a. The 24 fathom sounding at lat. $53^{\circ}30.4'$, long. $166^{\circ}34.2'$, and the 94 fathom sounding at lat. $53^{\circ}25.0'$, long. $166^{\circ}02.5'$ both fall on the present survey in depths of approximately 44 and 140 fathoms respectively. The origin of these two soundings could not be determined. The 24 fathom sounding has been charted since about 1916 but the "standards" in the Nautical Chart Section do not show from whence it came. The 94 has been shown on the chart since the original draft around 1903. They were without doubt located by very weak control and are consequently very much out of position and, in view of the present adequate survey of the area, they should be disregarded in future charting.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

When work is extended to the westward split lines should be run near the western end of the sheet to bring the spacing in conformity with the instructions for this work.

11. Note to Compiler.

The shoreline shown in dashed pencil line was sketched in by the field party by reconnaissance and the cuts to mountain peaks were taken from offshore hydrographic positions (see Descriptive Report page 1). A topographic survey is being made of this area during the 1936 season and the information above mentioned is being retained pending receipt of the new topography.

12. Superseding Old Surveys.


Within its limits the present survey supersedes the following survey for charting purposes:


H-2541 (1901) in part.

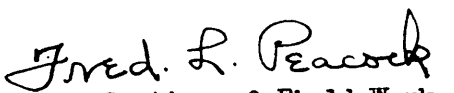
13. Reviewed by - John G. Ladd, July 25, 1936.


Inspected by - A. L. Shalowitz.

Examined and approved:


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


L. O. Tolbut,
Chief, Division of Charts.


Fred. L. Peacock,
Chief, Section of Field Work.


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

Applied to drawing of Chart No. 8860.
Applied to drawing of Chart No. 8802
Applied to Chart Comp. 9018.
Applied to chart comp 9019.

S. B. Maize April 1937

S. B. Maize June 1937

H. E. Mac Swen Aug. 25, 1939.

L. A. M. Oct. 1940.

