

5971

5971

Form 504
Ed. June, 1923

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

State: ALASKA

DESCRIPTIVE REPORT

Topographic } Sheet No. 5971
Hydrographic } 4335

LOCALITY

NORTH OF AKUTAN BAY & AKUN ID.

ALEUTIAN ISLANDS

19...35

CHIEF OF PARTY

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

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. 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. 4235

REGISTER NO. ⁵⁹⁷¹ **H5971**

State Alaska

General locality Aleutian Islands. ¹⁴ ~~Krenitzia Ids. Group~~

Locality North of Akutan Bay and Akun Island. ³⁴

Scale 1:40,000 Date of survey Sept.- Oct., 19 35

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

Chief of Party A. M. Sobieralski

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

Protracted by C. J. Wagner

Soundings penciled by C. J. Wagner

Soundings in fathoms feet

Plane of reference M L L W

Subdivision of wire dragged areas by _____

Inked by George F. Jordan

Verified by George F. Jordan

Instructions dated April 13, 19 34

Remarks: _____

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET FIELD No. 4235
Scale 1:40,000

A. M. SOBIERALSKI, COMMANDING -o- U. S. C. & G. S. S. SURVEYOR

Instructions:

This survey was made under authority of Instructions to the Commanding Officer of the U. S. C. & G. S. S. SURVEYOR, dated April 13, 1934.

Survey Methods:

The soundings on this sheet are controlled by sextant fix positions from objects or signals on shore located according to standard practice. All soundings were secured by the fathometer on the SURVEYOR, with occasional wire soundings for comparison. The fathometer soundings were corrected for temperature, salinity, index, etc. in accordance with the Hydrographic Manual.

Discrepancies:

All crossings are good except one at Lat. 54 - 24, Long. 165 - 29, pos. 97 "C" where 68 and 83 fathom soundings fall on each other. This is on a steep slope and a slight displacement of pos. 97 "C" would account for the discrepancy. There are no other discrepancies in crossings. ** These soundings fall close to one another on a steep slope. The field plotting is O.K. G.R.*

The junctions with adjacent sheets this season are satisfactory.

The junction on the north with Hydrographic Sheet Reg. No. 5739 (DISCOVERER'S R. A. R. 1934) shows an apparent displacement of the 100 fathom curve, it being one-half mile further to eastward on sheet Reg. No. 5739. (Lat. 54 - 26; Long. 165 - 40). There is a narrow overlap of the two sheets from this point eastward. The soundings on the two sheets are in fair agreement due to the flat bottom in this area. *See Review part 6*

Dangers:

There are no dangers to navigation on this sheet.

Currents:

Moderate tide rips and swirls were noted off the north-east point of Akun Island on both the ebb and flood tides.

Channels & Anchorages:

There are no channels or anchorages on this sheet.

Comparison with Previous Surveys:

Previous surveys in the area covered by this sheet were in the nature of a reconnaissance, and where discrepancies in depths occur, this survey should be accepted as correct. See paragraph Discrepancies for comparison with Sheet Reg. No. 5739.

Geographic Names:

No new geographic names appear on this sheet.

Respectfully submitted,

Ira T. Sanders

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

Approved & Forwarded:

A. M. Sobieralski

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

STATISTICS TO ACCOMPANY

HYDROGRAPHIC SHEET FIELD NO. 4235

SURVEYOR

<u>Date</u>	<u>Day</u>	<u>Vol.</u>	<u>No. Positions</u>	<u>No. Soundings</u>	<u>Statute Miles</u>
9-6	A	1	15	91	8.5
9-7	B	1	177	352	68.0
9-21	C	1	103	380	66.5
9-22	D	1	30	171	17.4
9-30	E	1-2	91	655	65.8
10-1	F	2	78	329	53.5
10-2	G	2	134	862	84.0
10-3	H	2	20	120	12.9
10-4	J	2-3	<u>98</u>	<u>522</u>	<u>50.5</u>
Totals:....			746	3,482	427.1

Square statute miles..... 58.5

LIST OF SIGNALS
to accompany
HYDROGRAPHIC SHEET FIELD NO. 4235

Triangulation Location:

Akutan Pk.	Akutan Peak, 1901-34	N. Head	North Head, 1935
Akun Hd.	Akun Head, 1935	Spike	Spike, 1934
Breed	Breed, 1901-34	Sered	Sered, 1934
Bay	Bay, 1935	Spot	Spot, 1935
Cat	Cat, 1935	Steep	Steep, 1935
Falls	Falls, 1935	Tel	Tel, 1935
High	High, 1935	Vitus	Vitus, 1935
Isle	Isle, 1934	Wet	Wet, 1901-34
Low	Low, 1935	Wag	Wag, 1935
Lava	Lava, 1935	Wild	Wild, 1935
Jon	Jon, 1935	Twin	Tall Twin
Jac	Jac, 1935		Pinnacle 1901-34
Neat	Neat, 1934	Gull	Gull, 1934

Topographic Location
Topo Sheet Field Letter K-B-1935

Tre	Tom	Ant	Feb
Two	Vic	Cam	
Toe	Wal	Mac	
Is	Mar	Dee	
Sharp	Uke	Fib	

Topo Sheet Field Letter K-A-1935

Dome
Sperm

Topo Sheet Field Letter K-C-1935

Imp	Crag	Nub
Nod	Top	Tab

Hydrographic Location

Pike Vol. 1 Pps 30-31-33.

HYDROGRAPHIC SURVEY NO. H5971

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

Recoverable Station Cards (Form 524) none

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

Remarks _____

Verifier's Report on H-5971 (1935)

1. This survey joins H-5973 (1935) on the west and H-5970 (1935) on the south. These surveys have not been verified. A satisfactory junction is made with H-5966 (1935) on the southwest, H-5761 (1934) on the southeast, and H-5948 (1935) on the northeast and east. The junction with H-5739 (1934) on the north is not satisfactory and is believed to be caused by a displacement of the R.A.R. positions in that survey, as mentioned in the Descriptive Report, under discrepancies, this survey.
2. Control is obtained from triangulation, and from T-4930, T-4931, and K-C-1935 (Field No) T-4932
3. The records conform to the requirements of General Instructions.

Respectfully submitted

George F. Jordan

May 19, 1936

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H5971**

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

Number of positions on sheet	..746.
Number of positions checked	...26.
Number of positions revised9.
Number of soundings recorded	.3482
Number of soundings revised8
Number of signals erroneously plotted or transferred9

Date: **May 19, 1936**

Verification by **George F. Jordan**

Time: **39½ hrs.**

Review by **G. Risegari**

Time: **14 hrs.**

Remarks

Decisions

	Remarks	Decisions
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GEOGRAPHIC NAMES

Survey No. H5971

Name on Survey	Sources										No.
	A	B	C	D	E	F	G	H	K	U.S.C.P.	
	On Chart No.	On previous survey No.	On U.S. G.S. Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List			
<u>North Head</u> ✓	*						✓		✓		1
<u>Akutan Bay</u> ✓	*						✓		✓		2
<u>Akun Island</u> ✓	*		✓				✓		✓		3
<u>Little Bay</u> ✓	*						✓		✓		4
<u>AKutan Head</u> ✓	*						✓		✓		5
<u>AKutan Island</u>	*						✓		✓		6
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Names underlined in red approved
 by *[Signature]* on 4/24/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } No. H 5971
~~PHOTOSTATIC OF~~ } ~~MO. # 7~~

April 8, 1936
 received ~~###~~
 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			
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90			

RETURN TO

82	
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C. K. Green April 18 - '36

200

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 5971

Locality North of Akutan Bay and Akun Island, Aleutian Islands

Chief of Party: A. M. Sobieralski in 1935
Plane of reference is mean lower low water reading
3.9 ft. on tide staff at Akutan Harbor
13.5 ft. below B.M. 1

Height of mean high water above plane of reference is 3.6 feet.

Condition of records satisfactory except as noted below:

P. Schurman

Acting Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5971 (1935) FIELD NO. 4235

North of Akutan Bay and Akun Island, Aleutian Islands, Alaska.

Surveyed in Sept. - Oct. 1935

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., R. C. R.
Protracted by - C. J. Wagner.
Soundings penciled by - C. J. Wagner.
Verified and inked by - G. F. Jordan.

1. Condition of Records.

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

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

2. Compliance with Instructions for the Project.

The plan and character of development are in accordance with the instructions, except that a line of soundings should have been run in approximate lat. $54^{\circ}21.5'$, long. $165^{\circ}44'$, in order to fully comply with the spacing called for in the instructions.

3. Shoreline and Signals.

This is an offshore survey and shows no shoreline. The topographic signals originate with T-4930 (1935), T-4931 (1935), and T-4932 (1935). Hydrographic signal "Pike", originates with the present survey and is recorded in sounding Volume No. 1.

4. Sounding Line Crossings.

The depths at crossings of sounding lines are in satisfactory agreement.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junction with Contemporary Surveys.

a. The junction with H-5948 (1935) on the northeast and east is satisfactory.

- b. The junction with H-5761 (1934) on the southeast is satisfactory.
- c. The junctions with H-5970 (1935) on the south and H-5966 (1935) on the southwest are satisfactory.
- d. The junction with H-5973 (1935) on the west is satisfactory.
- e. The junction with H-5739 (1934) on the north is not very satisfactory. The soundings on the present survey are consistently shoaler than the 1934 work, and insofar as an actual comparison is possible (without too much interpolation), the differences range from about 10 fathoms in 50 fathoms to about 25 fathoms in 100 fathoms. The effect of this is to introduce 2 one hundred fathom curves separated by about one-half mile. No explanation can be advanced for this discrepancy. The 1934 work is R.A.R. whereas the present work depends on visual fixes. The velocities used in the previous year's work were studied but no information of value brought to light. It is noted that H-5948 (1935) to the north, also visual fix work, is in good agreement with the present survey, but is also in disagreement with the 1934 work H-5739. The displacement of soundings on the latter sheet appears to be about one-half mile to the eastward. Although the reason for the discrepancy could not be ascertained, it is believed to be a matter of position and since fixed position work is our standard of comparison, the 1935 work is accepted in preference to the 1934. Considering the smallness of scale of the present chart in this area, even the discrepancy noted is cartographically unimportant, however, in order that no confusion result as to which soundings should be used in the common area, the soundings of H-5739 (1934) falling within the limits of the present survey have been omitted from the latter, but have been retained on the original survey. In applying these surveys to the chart, the compiler should use the soundings from the present survey to its limits and then continue offshore with the soundings on H-5739 (1934).

7. Comparison with Prior Surveys.

- a. H-2541 (1901), H-2542 (1901).

These surveys, on a scale of 1:60,000, overlap the present survey on the south limits, between long. 165°50' and long. 166°00', and on the southeastern portion, respectively, with a few widely spaced soundings. The agreement in the depths with those of the present survey is fairly good. Since the present survey has more closely developed these areas and is on a larger scale, it should supersede the old surveys for charting purposes.

b. H-3579 (1913-14).

This survey, on a scale of 1:180,000, shows a few soundings on a single line which fall on the southeast section of the present survey. The soundings are in fair agreement with the present depths. The present survey should supersede H-3579 (1913-14) in future charting since it is more detailed and on a very much larger scale.

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

a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and additional information as follows:

- (1) A few deep offshore soundings fall in much shoaler water on the present survey and are evidently out of position. For example, the 231 fathom sounding in lat. 54°24', long. 165°40', falling in depths of 64 and 65 fathoms on the present work. These soundings appear on the first edition of Chart 8860 (1902) but their origin can not be found in the files. It is quite probable that they may have been charted from an Old Russian or Bureau of Fisheries survey. However, since these soundings are unquestionably erroneous, they should not be used for charting purposes.

b. Aids to Navigation.

There are no aids to navigation within the limits of the survey.

9. Field Plotting.

The field plotting is satisfactory.

10. Note to Compiler.

The compiler's attention is called to par. 6e of this review relative to the use of soundings at the junction with H-5739 (1934).

11. Additional Field Work Recommended.

This survey is adequate and no additional work is required.

12. Superseding Old Surveys.

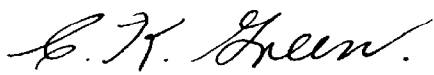
Within the area covered, the present survey supersedes the following surveys for charting purposes:


H-2541 (1901) in part
H-2542 (1901) " "
H-3579 (1913-14) in part.

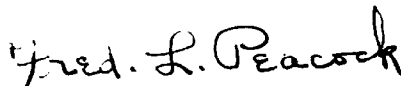
13. Reviewed by - G. Risegari, July 30, 1936.


Inspected by - A. L. Shalowitz.

Examined and approved:


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


Chief, Division of Charts.


Chief, Section of Field Work.


Chief, Division of H. & T.

Applied to drawing of Chart No. 8860

S. B. Maize Feb. 1937

Applied to drawing of Chart No. 8802

S. B. Maize June 1937

Applied to compilation of Chart 70.8720

G. H. S. Apr. 1943