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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 } Sheet No. (H-8134 & H-8234)
Hydrographic } Field No.

LOCALITY

H8134 SOUTH OF KRENITZIN ISLANDS,
H8234 Vicinity of Unimak Pass
ALEUTIAN ISLANDS,

~~ALASKA~~

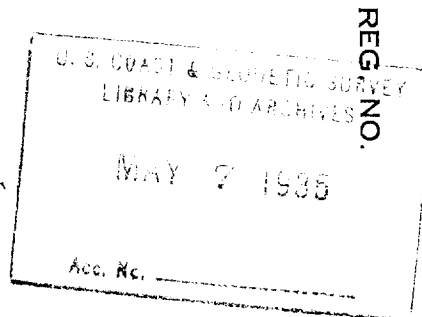
1934

CHIEF OF PARTY

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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. 81 34

REGISTER NO. 5759

State Alaska

General locality Aleutian Islands

Locality South of Krenitzen Islands

Scale 1: 80,000 Date of survey June to October, 1934

Vessel U. S. C. & G. S. S. SURVIVOR

Chief of Party A. M. Sobieralski

Surveyed by A. M. S., L. C. W., and R. J. R.

Protracted by G. A. Nelson

Soundings penciled by G. A. Nelson

Soundings in fathoms ~~feet~~

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated April 13, 1934, 19

Remarks:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
MAY 7 1935
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. 82 34

REGISTER NO. 5700

State Alaska

General locality Aleutian Islands.

Locality Vicinity of Unimak Pass
~~South of Aleutian Islands~~

Scale 1:80,000 Date of survey June - October, 1934

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

Chief of Party A. M. Sobieralski

Surveyed by A. M. Sobieralski

Protracted by H. C. Applequist

Soundings penciled by C. J. Wagner

Soundings in fathoms ~~feet~~

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by

Verified by G. H. Everett

Instructions dated April 13, 1934

Remarks:

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEETS H-8134 & H-8234
(Field Numbers)

OFFSHORE SOUNDINGS

SOUTH OF KRENITZIN ISLANDS, ALASKA

SCALE 1-80,000

4

Instructions:

Dated April 13, 1935. Project No. HT-176.

Limits:

These sheets show the off-shore hydrography south of the Krenitzin Group from a longitude 164-40 westward to longitude 166-05 and extending well out beyond the 100 fathom curve. Sheet No 8234 shows a few soundings in Unimak Pass.

Methods:

Visual fixes were obtained throughout the whole area, mostly on peaks located by triangulation. A few signals were located by sextant angles combined with triangulation cuts, viz: Foot, Moun. Shar, Fife, Sharp Blank and Lion. The last three corresponds to the signals of the same name used on H-2542, but the positions differ slightly. It is believed that the positions on this survey, being better controlled, should be accepted.

All the soundings were taken with fathometer with occasional vertical casts for comparison and for obtaining bottom specimens. The fathometer soundings were corrected for temperature and salinity in accordance with the Hydrographic Manual.

Comparison with previous surveys and chart:

Only a few soundings on H-2542 fall within the limits of these sheets. A 41 fathom sounding on H-2542 in latitude 53-56 longitude 165-12 is probably a mistake for 51 fathoms*. South of Ugamak Island, the chart shows several soundings which in general agree quite well with this survey. ** Should be 51 fathoms. Error was an indication of depth.*

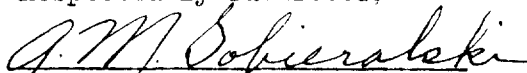
A line of soundings was carried through Ugamak Strait. A 10 fathom sounding in latitude 54-11.1 longitude 164-58.5 indicates the possibility of shoaler water. Some soundings obtained when no positions were available indicate that this shoaling may extend to the western end of Ugamak Island. This area has not been surveyed.

A few lines of soundings in Derbin Strait showed some soundings several fathoms shoaler than those obtained on the large scale survey. It is proposed to investigate these further during the coming season.

Crossings: There are a number of crossings which in general are satisfactory. Such slight discrepancies as occur may be attributed to the uneven character of the bottom. In approx. latitude 53-35.5 longitude 165-24 a crossing near the 200 fathom curve could be improved by slightly displacing one of the lines,* - the fixes at this distance from shore are none too strong, and a difference of a few minutes in one of the angles could cause such a displacement. *Slight change in one of the angles (A day) was made. Crossing OK.

In a number of places, particularly in the vicinity of longitude 165-55 between latitude 53°-54' and 53°-50', a number of soundings considerably less than those obtained on adjoining lines, might appear doubtful, but in many cases they have been verified by closer development. Such "lumps" therefore seem to exist.

Respectfully submitted,



A. M. SOBIERALSKI, H. & G. E.
Commanding, Str. SURVEYOR

STATISTICS

HYDROGRAPHIC SHEET NO. 8134

Date	Day	Volume	Stat. Miles Sdg. Lines	No. of Soundings	No. of Positions
June 28, 1934	A	1	80.2	371	72
29,	B	1	219.4	931	197
30,	C	1	17.8	89	17
30,	C	2	80.5	413	81
July 3,	D	2	26.5	274	34
6,	E	2	117.3	1116	135
6,	E	3	74.7	507	68
7,	F	3	186.3	1113	167
9,	G	3	10.0	94	12
9,	G	4	94.5	607	91
12,	H	4	96.5	597	93
Aug. 2,	J	4	51.0	544	56
2,	J	5	61.0	1456	70
11,	K	5	90.6	672	107
12,	L	5	25.0	175	21
25,	M	5	62.3	284	54
25,	M	6	67.3	454	66
Sept. 6,	N	6	146.2	1030	142
7,	P	6	53.8	290	52
7,	P	7	14.5	75	15
14,	Q	7	114.8	444	96
19,	R	7	70.5	625	101
27,	S	7	54.0	501	63
27,	S	8	14.0	138	18
Oct. 7,	T	8	35.0	420	68
Sept. 5,	U	8	12.8	124	29
			<u>1,876.5</u>	<u>13,344</u>	<u>1,925</u>

STATISTICS

HYDROGRAPHIC SHEET FIELD NO. 8234

Date	Day	Volume	Stat. Miles Sdg. Lines	No. of Soundings	No. of Positions
August 25, 1934	H	1	21.0	108	20
Sept. 7,	K	1	19.0	114	18
17,	N	1	<u>7.5</u>	<u>88</u>	<u>21</u>
			47.5	310	59

TIDAL NOTE

Tides recorded at Tigalda Bay, Auto-port Gage No. 135, Latitude 54 07.3, Longitude 164 58.7, were used direct to reduce the soundings on this sheet.

MHW on staff (1934) - - - - - 4.7 ft.
 Highest Tide recorded Aug. 21, 1934 - - 8.8 ft.
 Lowest Tide recorded Aug. 23, 1934 - - 3.3 ft.

HYDROGRAPHIC SURVEY NO. H5759

Smooth Sheet 1

Boat Sheet _____

Sounding Records 8 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) See letter 324 (1935)

Statistics Yes

Approved by Chief of Party A. M. Sobieralski

Recoverable Station Cards (Form 524) _____

Special Chart for Lighthouse Service _____
(Circular Nov. 30, 1933)

Remarks _____

HYDROGRAPHIC SURVEY NO. H5760

Smooth Sheet 1

Boat Sheet _____

Sounding Records 1 Vols. _____

Descriptive Report Yes combined with H5759

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) See Letter 324 (1935)

Statistics Yes

Approved by Chief of Party A. M. Sobieralski

Recoverable Station Cards (Form 524) _____

Special Chart for Lighthouse Service _____
(Circular Nov. 30, 1933)

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ...5759

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

Number of positions on sheet	1925
Number of positions checked	232
Number of positions revised	8
Number of soundings recorded	13,344
Number of soundings revised	55
Number of signals erroneously plotted or transferred	9

Date: July 13, 1935

Verification by H. K. Eldredge

Review by S. Pucjari

Inked by L. M. Erwell

Time: 76 hrs

Time: 19½ hrs.

Time: 37½ hrs.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. .57.60

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

Number of positions on sheet	..59..
Number of positions checked	..15..
Number of positions revised0.....
Number of soundings recorded	..310..
Number of soundings revised0.....
Number of signals erroneously plotted or transferred0.....

Date: *May 23, 1935*

Verification by *G. H. Everett*

Time: *2 hrs.*

Review by *John G. Ladd*

Time: *2 hrs.*

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 23, 1935

Division of Hydrography and Topography:

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

Tide Reducers are approved in
1 volume~~s~~ of sounding records for

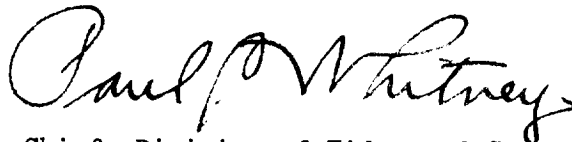
HYDROGRAPHIC SHEET 5760

Locality Vicinity of Unimak Pass, Aleutian Islands, Alaska

Chief of Party: A. M. Sobieralski in 1934
Plane of reference is mean lower low water reading
4.6 ft. on tide staff at Tigalda Bay
12.5 ft. below B.M. 1

Height of mean higher high water above plane of reference is 3.2 feet

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 24, 1935

Division of Hydrography and Topography:

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

Tide Reducers are approved in
8 volumes of sounding records for

HYDROGRAPHIC SHEET 5759

Locality South of Krenitzin Islands, Aleutian Islands, Alaska

Chief of Party: A. M. Sobieralski in 1934
Plane of reference is mean lower low water reading
4.6 ft. on tide staff at Tigalda Bay
12.5 ft. below B.M. 1

3.7 ft. on tide staff at Dutch Harbor
12.5 ft. below B. M. 1

3.1 ft. on tide staff at Biorka Village
12.6 ft. below B. M. 1

Height of mean higher high water above plane of reference is 3.2 feet
at Tigalda Bay; 3.7 feet at Dutch Harbor; and 4.9 feet at Biorka Village

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Report on Hydrographic Sheet H-5759.

1. The records conform to the requirements of the General Instructions.
2. The usual depth curves can be completely drawn.
3. The field plotting was completed to the extent prescribed in the hydrographic manual.
4. It was not necessary for the office draftsman to do over any part of the drafting done by the field party.
5. Junctions with adjacent sheets is satisfactory.
6. Soundings from 5-6 G were not plotted as they appear erroneous and a note in the record states that the fathometer was uncertain.
7. Hydrographic signals shown on the sheet were located by sextant cuts from positions taken while sounding and were checked by the verifier.

Respectfully submitted

Gordon K. Edlerkin

REPORT ON H-5760

The records conform to the requirements of the General Instructions. ✓

The positions on this sheet as noted in the record volume were transferred from another sheet (Field no. 4234) ✓

The positions and soundings as transferred were only verified. ✓

Curves are incomplete. ✓

No junctions were made on this sheet. ✓

E. Everett

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5759 (1934) - FIELD NO. 8134

South of Krenitzin Islands, Aleutian Islands, Alaska

Surveyed in 1934

Instructions dated April 13, 1934 (SURVEYOR)

Fathometer Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - A. M. Sobieralski.
Surveyed by - A. M. S., L. C. W., R. C. R.
Protracted by - G. A. Nelson.
Soundings penciled by - G. A. N.
Verified by - G. K. Elderkin.
Inked by - L. M. Ewell.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual, except as follows:

No boatsheet was submitted with this smooth sheet.

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

2. Compliance with Instructions for the Project.

The survey complies with the instructions for the project, except that in a few areas inside the 50 fathom curve the spacing of sounding lines exceeded one half mile, (par. 15(2)(b)).

3. Sounding Line Crossings.

No general system of cross lines were run, but those that occur, as well as the adjacent lines, show good agreement.

4. Depth Curves.

The usual depth curves can be satisfactorily drawn.

5. Junctions with Contemporary Surveys.

The junction with H-5761 (1934) on the north is satisfactory.

The junction with H-5760 (1934) on the east is satisfactory.

The junction with H-5738 (1934) on the west is satisfactory.

The junctions with H-5728 (1934) on the northwest and H-5763 (1934) on the north, will be considered in the reviews of those sheets.

6. Comparison with Prior Surveys.

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

These surveys, on a scale of 1:40,000, cover the area of the present ^{survey} between long's. 165°00' and 165°50' in the vicinity of lat. 53°55', with widely spaced sounding lines.

In general, the agreement in depths is good.

The 41 fathom sounding (charted) in lat. 53°56.2', long. 165° 12.3' from H-2542 (1901) was found to be erroneously reduced in the sounding record and should have been 51 fathoms, which agrees with the present depths. The 41 fathom sounding should be removed from the chart.

Since the present survey is well controlled and covers the area more adequately, these surveys should be superseded.

b. H-3579 (1913-14).

A few soundings from this survey, on a scale of 1-180,000, fall within the limits of the present survey in the vicinity of Ugamak Strait and are not in close agreement with the present depths. These soundings were obtained with pressure tubes and are on a line controlled by dead reckoning. They are not considered as accurate as the present work and should be disregarded in future charting.

7. Comparison with Chart No. 8860.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and from old data, probably Russian charts and miscellaneous sources not now traceable. A few soundings from these doubtful sources fall near the outer limits of the present survey and are not in agreement with the present depths. Since the origin of these soundings is uncertain and their accuracy very questionable, they should be replaced on the chart by the soundings of the present survey.

8. Field Plotting.

The field plotting was well done.

9. Additional Field Work Recommended.

No additional work is required. The present sounding lines do not sufficiently develop Ugamak Strait but it is understood this area is to be surveyed on a larger scale.

10. Superseding Old Surveys.

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

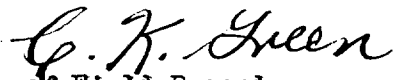
H-2541 (1910)	in part.
H-2542 (1910)	" "
H-3579 (1913-14)	" "

11. Reviewed by - G. Risegari, July 19, 1935.

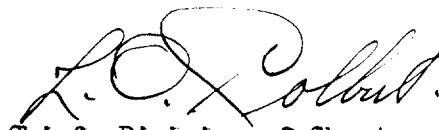
Inspected by - R. L. Johnston.

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.



Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5760 (1934) - FIELD NO. 82-34

Vicinity of Unimak Pass, Aleutian Islands, Alaska
Surveyed in June - October, 1934
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 - H. C. Applequist.
Soundings penciled by - C. J. Wagner.
Verified and Inked by - G. H. Everett.

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 covers all matters of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Sounding Line Crossings.

There are no cross lines on this sheet.

4. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn.

5. Junctions with Contemporary Surveys.

Satisfactory junctions are made with H-5759 (1934) and H-5761 (1934). In fact it should be noted that the three lines of the present survey are continuations of sounding lines of the latter survey.

6. Comparison with Prior Surveys.

a. 3579 (1913-14).

This survey has one sounding line that crosses the two sounding lines of the present survey southeast of Ugamak Strait. The agreement is satisfactory.

7. Comparison with Chart No. 8860.

Within the area of the present survey the chart is based on the survey discussed in the foregoing paragraphs together with a few sound-

ings of undetermined origin, none of which however are in conflict with the present survey. The soundings of undetermined origin should be superseded by those from the present survey.

8. Field Plotting.

The field plotting was satisfactory.

9. Additional Field Work Recommended.

No additional field work is necessary.

10. Superseding Old Surveys.


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

H-3579 (1913-14) in part.


11. Reviewed by - John G. Ladd, July 22, 1935, and R. J. Christman, July 30, 1935.

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.



It is recommended that
The sounding lines on this
Sheet be plotted on adjacent
Sheets and this sheet number
Cancelled. J.G.L.

Applied to Charts 8860, 8802 + 9302 - Oct 10 - 1935.

P. B. Kasten.

25 Jan 7, 1936
E.M.G.

Applied to Chart Comp. 9018.

H. Mac Ewen Aug. 29, 1939.

Applied to compilation chart 8720 Mar. 1943. g.H.S.