

5973 ✓

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic } Sheet No. 4135
Hydrographic }

LOCALITY

NORTHWEST OF AKUTAN ISLAND

ALEUTIAN ISLANDS

19 35

CHIEF OF PARTY

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

5973

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. 4135

5973

REGISTER NO. **H5973**

State ALASKA

General locality ALEUTIAN ISLANDS

Locality NORTHWEST OF AKUTAN ISLAND

Scale 1:40,000 Date of survey JUNE - AUGUST, 19 35

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

Chief of Party A. M. SOBIERALSKI

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

Protracted by W. F. DEANE

Soundings penciled by W. F. DEANE

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: PROJECT No. 176

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET 4135
WEST OF AKUTAN ISLAND

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

Instructions:

This survey was made in compliance with the Director's Instructions dated April 13, 1934. ✓

Survey Methods:

Standard methods were used. The lines were controlled by sextant fixes on shore stations, and the soundings were obtained with oscillator type fathometer. These soundings were corrected for index and salinity errors. ✓

Discrepancies:

No noteworthy discrepancies were found. ✓

Dangers:

No dangers exist on this sheet. ✓

Channels and Anchorages:

No channels and anchorages are on this sheet. ✓

Comparison with Previous Surveys:

Since the previous work was in the nature of a reconnaissance survey, little weight was given it in comparison with this last survey. ✓

Remarks:

A section of Sheet H-5745 (register number) that overlaps the southerly portion of this sheet shows generally shoaler soundings by two fathoms than the soundings taken in 1935. ✓

one to

Attention is called to the spit shown by the 50 fathom curve running off Priest Rock in the direction of Cape Cheerful. This is, in all probability, glacial terminal moraine. ✓

Respectfully submitted,

William F. Deane
William F. Deane, Aid.

Approved & forwarded:

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

LIST OF STATIONS
on
HYDROGRAPHIC SHEET 4135

Located by Triangulation:

Falls	1934-35	Unalga	1901-34
North Head	1934	Roof	1901-34
Lava	1935	Erskine	1934
Steep	1935	Priest Rock	1901-34
Cement	1934	Kalekta ₂	1934
Reef	1934	Kit	1934
Fast	1934	Princess Head No. 3	1934
Akutan Peak	1901-34	Lena	1934
Triplet	1901-34	Max	1934
Dome	1901	Needle Rock	1934
Malga	1934	Amaknak ₂	1934
Perch	1934	Waterfall	1934

Located by Topography:

Topo Sheet Field Letter K-C-35 T-4932 (1935)

Ned
Imp
Hot
Rod
Hel
Mex
Out
Tab
Lat
Zak
Pug
Hit

Topo Sheet Field Letter K-D-35

T-6459 (1935)

Gat
Tug

STATISTICS

FOR

HYDROGRAPHIC SHEET 4135

Miles of hydrography (statute).....	642.9
Number of soundings (fathometer).....	5458
Number of positions.....	1235
Area in square statute miles.....	257.7

Verifier's Report on H-5973 (1935)

1. The junctions with this sheet are as noted below:
 - (a) On the north - H-5739 (1934) - satisfactory junction completed. ✓
 - (b) " " N.E. - H-5971 (1935) - " " " ✓
 - (c) " " E. - H-5966 (1935) - " " " ✓
 - (d) " " S.E. - H-5745 (1934) - " " " ✓
 - (e) " " S.E. - H-5949 (1935) - " " " ✓
 - (f) " " S. - H-6111 (1935) - In Tides -
 - (g) " " S.W. - H-5978 (1935) - Not verified -
 - (h) no Survey on the west.
2. Control is obtained from -
 - T-6428
 - T-6429
 - T-6459 ✓
 - T-4932 ✓
 - T-4933
3. The records conform to the requirements of General Instructions ✓
4. No additional plotting or changes were made.

Respectfully submitted

George F. Jordan

June 6, 1936
②

HYDROGRAPHIC SURVEY NO. H5973

Smooth Sheet yes

Boat Sheet yes

Sounding Records 4 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) no

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

Remarks _____

Remarks

Decisions

	Remarks	Decisions
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Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H5973**

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

Number of positions on sheet	1235.
Number of positions checked	..31..
Number of positions revised	...4²..
Number of soundings recorded	.5458.
Number of soundings revised	...3..
Number of signals erroneously plotted or transferred0.

Date: *June 6, 1936*

Verification by *George F. Jordan*

Review by *R. J. Christman*

Time: *5 1/2*

Time: *8 1/2 hrs.*

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5973 (1935) FIELD NO. 4135

Northwest of Akutan Island, Aleutian Islands, Alaska

Surveyed in June - August 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

Protracted by - W. F. Deane

Soundings penciled by - W. F. Deane

Verified and inked by - George F. Jordan

1. Condition of Records.

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

No list of signals was attached to Vol. 1 of the sounding records (par. 139 of the Hydrographic Manual) but a list was attached to the Descriptive Report.

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

2. Compliance with Instructions for the Project.

The plan and extent of development are in accordance with the instructions for the project.

3. Shoreline and Signals.

This is an offshore survey and no shore line has been shown on the sheet.

Topographic signals are located on plane table surveys T-4932 (1935) and T-6459 (1935).

4. Sounding Line Crossings.

No regular system of cross lines was run but depths at crossings resulting from the work and also depths on adjacent lines are consistent.

5. Depth Curves.

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

6. Junctions with Contemporary Surveys.

a. Junctions with inshore surveys H-5745 (1934), H-5949 (1935) and H-5966 (1935) to the southeast are satisfactory. The Descriptive Report notes that the 1934 survey "shows generally shoaler soundings

by two fathoms" in the overlapping area. However there is no uniformity in the differences, the majority of the soundings agreeing within one fathom and the depth agreement should be considered satisfactory.

- b. Junction with H-5971 (1935) to the eastward is satisfactory.
- c. The survey to the northward (H-5739 of 1934) is controlled by R A R. There is some evidence that the junction line of soundings on H-5739 (1934) is plotted too far to the eastward but because of the regular bottom and great depth these differences will not affect the charting value of the surveys. However a further study of this matter is being made in connection with the review of H-5971 (1935) and the results will be embodied in the review of that sheet.
- d. Junctions with H-6111 (1935) and H-5978 (1935) to the southwest will be considered in the review of those sheets.
- e. No contemporary surveys to the westward are available.

7. Comparison with Prior Surveys.

H-2541. (1901)

This survey on a scale of 1:60,000 overlaps the present survey along the southern edge. The majority of soundings were made with the Kelvin sounding machine apparently without stopping and the survey should be classed as a reconnaissance. The agreement in depth with the present survey is fair except for a group of soundings in lat. $54^{\circ} 09$, long. $166^{\circ} 10$ of which a 28 and 30 are charted as a detached bank. These soundings fall in depths of 43 to 48 fathoms on the present survey. They should no longer be charted.

Because of the larger scale and closer development of the present survey, H-5973 (1935) should supersede the above survey for charting purposes.

8. Comparison with Chart 8860, (New Print dated Feb. 21, 1936)

a. Hydrography.

Within the area covered by the present survey the chart is based on the survey discussed in the foregoing paragraph.

The source of the one deep sea sounding falling within the area of the present survey (a 602 charted in lat. $54^{\circ} 14$, long. $166^{\circ} 16$) was not determined. It is shown on the first (1902) edition of the chart and the history slip lists Doc. by the Bu. of Fisheries as authority for deep sea soundings. It falls in depths of 300 to 350 fathoms on the present survey and should be expunged from the chart.

b. Aids to Navigation.

There are no aids to navigation within the area of the present survey.

9. Field Plotting.

The field plotting was very good.

10. Additional Field Work Recommended.

The survey is very satisfactory and no further work is required.

11. Superseding Old Surveys.

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

H-2541 (1901) in part.

12. Reviewed by - R. J. Christman, July 8, 1936

Inspected by - A. L. Shalowitz

Examined and approved:

C. K. Green.

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

K.T. Adams
Acting Chief, Division of Charts.

F. L. Peacock

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

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

Luc

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 6, 1936

Division of Hydrography and Topography:

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

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5973

Locality Northwest of Akutan Island, Aleutian Islands

Chief of Party: A. M. Sobieralski in 1935
Plane of reference is mean lower low water reading
4.0 ft. on tide staff at Malga Bay
8.7 ft. below B.M. 1
3.7 ft. on tide staff at Dutch Harbor
12.5 ft. below B.M. 1
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 2.9 ft. at Malga Bay; 3.4 ft. at Dutch Harbor and 3.6 ft. at Akutan Harbor.

Condition of records satisfactory except as noted below:

P. Schurman
Actg Chief, Division of Tides and Currents.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOGRAPH~~

} No. H5973
~~NO. ##~~

{ received April 11, 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.

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RETURN TO

82	
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G. H. Green
April 18 - '36

GEOGRAPHIC NAMES

Survey No. **85973**

Name on Survey	A	B	C	D	E	F	G	H	K	
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Names underlined in red approved
 by *[Signature]* on 4/4/36

⊕ no names

Applied to new compilation of chart No 9007 Dec 1936 S.B. Maize.

Applied to drawing of Chart No. 8860 S.B. Maize Mar 1937

Applied to drawing of Chart No. 8802 S.B. Maize June 1937

(extended).

Applied to new compilation Chart No. 9007 S.P. Aug. 1938

" " " " " " 8861 JFW Feb 1942

" " " " " " 8720 g.K.S. Apr. 1943