

6483

6483

Form 504
Rev. April 1936

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~Tide Gauge~~ } Sheet No. 4337-39
Hydrographic } Reg. No. H-6483

State S. W. Alaska

LOCALITY

Sanak Islands

S. of Sanak Reef

1938-39

CHIEF OF PARTY

Ray L. Schoppe & G. C. Jones

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. 4337-39

REGISTER NO. H-6483

H6483

State S.W. Alaska

General locality Sanak Islands

Locality South of Sanak Reef

Scale 1:40,000 Date of survey 1938 &, 1939

Vessel U.S.C. & G.S.S. DISCOVERER

Chief of Party Ray L. Schoppe and G. C. Jones

Surveyed by R.L. Schoppe, G.C. Jones, R.R. Moore, L.S. Hubbard, G.L. Bean

Protracted by Wm. Weidlich

Soundings penciled by Wm. Weidlich

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by C.E. Dennis

Verified by do

Instructions dated March 18, 1938

Remarks: Descriptive Report by Processing Office.

DESCRIPTIVE REPORT

to accompany

Hydrographic Sheet Register No. H-6483

(Field No. 4337-39)

South of Sanak Reefs

Sanak Island, Alaska

U.S.C. & G.S.S. DISCOVERER

Ray L. Schoppe and G. C. Jones

Chiefs of Party

1938--1939

INSTRUCTIONS

This survey was made under instructions dated March 18, 1938 and ~~April 6, 1939~~, Project HT-219. It is a continuation of surveys started in 1936, under instructions dated March 30, 1936, Project HT-208.

Field work on this sheet was started in 1938 by Ray L. Schoppe, Chief of Party, and completed in 1939 by G. C. Jones, Chief of Party. The sheet was plotted by W. Weidlich and turned over to the Seattle Processing Office in April, 1940.

No descriptive report accompanied the sheet, and this report is written by the personnel of the Seattle Processing Office.

SURVEY METHODS

All soundings were obtained with #312 Fathometer. Fathometer corrections were entered in accordance with the reports on Fathometer corrections submitted by this party for 1938 and 1939. For the depths occurring on this sheet, there is no difference between the corrections for the two seasons.

Visual fixes control all the work. Rather weak fixes occur at the western limits of the sheet.

R.A.R. work was attempted on several days in 1938 during the period when the party was experimenting with sono-radio buoys. Since no returns were obtained, there is a considerable amount of work which was not plotted.

Bottom characteristics were obtained whenever ship stopped for vertical cast for comparison with fathometer. The number of such observations was rather small, but fairly well distributed over the area.

AREA COVERED

This survey covers an area southward of Sanak Island, extending roughly from the limits of detailed large scale surveys out to the 50 fm. curve, and joining an R.A.R. sheet, H-6279,¹⁹³⁷ to the westward. The area to the southward and eastward has not yet been completed.

CONTROL

Control is furnished by triangulation stations located in 1936 and topographic signals located in 1936 and 1937. No shoreline is shown on the sheet since a comparatively small number of signals were used and the hydrography on this sheet is well offshore.

A list of signals indicating their source is attached.

TIDES

Reducers for A to E days inclusive were taken from the record of the automatic portable gage No. 286 in Peterson Bay; and for F to R days inclusive reducers were obtained from the automatic gage in Sanak Harbor.

DANGERS

On page 6, vol. 4 sounding records, two cuts to a breaker are recorded, and crossed out by the field party. The intersection falls in an area covered in detail on a larger scale on another sheet. In the absence of any explanation in the records, it is assumed that these cuts were not needed to locate the breakers, and have been omitted from the sheet.

There are no other dangers on the sheet.

There are several areas where depths are shoaler than surrounding depths, but these have been sufficiently developed.

LIST OF SIGNALS - SHEET H-6483

H6483

| <u>Hydrographic Name</u> | <u>Source</u> |
|--------------------------|--------------------|
| Gran | ΔGRANITE 1901 |
| Long | ΔLONG 1901 |
| Ford | ΔFORD 1936 |
| Prom | Topo. Sheet T-6608 |
| Lam | " |
| Rock | " (South Rock) |
| Extra | " (Xtra) |
| South | ΔSOUTH 1936 |
| Sis | ΔSISTER 1936 |
| Ter | ΔTERSON 1936 |
| Zed | ΔZED 1936 |
| Seal | ΔSEAL ROCK 1936 |
| Mitz | ΔMITZ 1936 |
| Caton | ΔCATON 1936 |
| Ton | ΔTON 1936 |
| Umla | ΔUMLA 1936 |
| Vick | Topo. Sheet T-6607 |
| Til | " |
| Semp | " |
| Bin | Topo. Sheet T-6508 |
| Nut | " |
| Bed | " |
| Lew | " |
| Bon | " |
| Look | ΔLOOK 1936 |

GEOGRAPHIC NAMES

Survey No. **H6483**

| Name on Survey | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|--|----|
| | A | B | C | D | E | F | G | H | K | | |
| <u>Sanak Islands</u> | | | | | | | | | | | 1 |
| <u>Sanak Reef</u> | | | | | | | | | | | 2 |
| | | | | | | | | | | | 3 |
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| | | | | | | | | | | | 27 |

Heck on 8/20/41

Remarks

Decisions

| | Remarks | Decisions |
|----|---------|-----------|
| 1 | | 540625 |
| 2 | | " |
| 3 | | |
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Among these may be mentioned the following:

14 fathoms $1\frac{1}{2}$ miles south of Seal Rock. ✓

A small area with least depth of 24 fathoms (71C - 72C) surrounded by 30 fathoms, in approximate Lat. $54^{\circ} 15'$, Long. $162^{\circ} 48.1'$. ✓

A similar area with least depth of 24 fathoms in Lat. $54^{\circ} 15.7'$, Long. $162^{\circ} 48.7'$ (14H - 15H). ✓

Further westward there is a larger area with least depth 23 fms. in Lat. $54^{\circ} 15.5'$, Long. $162^{\circ} 53.8'$. ✓

CROSSINGS

Several cross lines were run in compliance with the instructions. Crossings are satisfactory. Only one crossing in Lat. $54^{\circ} 16.2'$, Long. $162^{\circ} 35.1'$ may need further investigation, where soundings of 21 fathoms, Position 77 - 78E, fall among depths of 25 fathoms, Position 19 - 20A. The bottom is very irregular in this area and the soundings probably are correct. Satisfactory. ✓

STATISTICS

| | Stat. Miles Sdg. Lines | Soundings | | Positions |
|--------------|---------------------------|-----------|------|-----------|
| | | Fath. | Wire | |
| Visual fixes | 1002.5 | 9647 | 18 | 1592 |
| R.A.R. | 59.5 | 647 | | |

Area in square statute miles 307

Respectfully submitted,

A. M. Sobieralski
 A. M. Sobieralski,
 Officer in Charge,
 Seattle Processing Office.

Approved:

L. D. Graham
 L. D. Graham, H. & G. E.,
 Comdg. U.S.C. & G.S.S. DISCOVERER.

HYDROGRAPHIC SURVEY NO. HC488

Smooth Sheet One

Boat Sheet (Retained by Ship DISCOVERER)

Records; Sounding 7 Vols., Wire Drag Vols., Bomb 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)

Hydrography: Total Days ; Last Date

Remarks

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **HG483**

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

| | |
|--|-------|
| Number of positions on sheet | 1582 |
| Number of positions checked | .21.. |
| Number of positions revised | .10.. |
| Number of soundings recorded | 947 |
| Number of soundings revised | .31.. |
| Number of soundings erroneously spaced | 151.. |
| Number of signals erroneously plotted or transferred | |

Date: 2/1/41

Verification by *C. E. Dennis*
J. A. McCormick

Review by J. A. McCormick 3/5/41.

Time: 61 hr } 75 hr.
14 hr }

Time: 12 hr.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
 PHOTOSTAT OF

} No. H **H6483**
~~No. H 10000~~

{ received Jan. 6, 1941
 registered Jan. 14, 1941
 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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| 25 | | | |
| 26 | | | |
| 30 | | | |
| 40 | | | |
| 62 | | | |
| 63 | | | |
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| 83 | | | |
| 88 | | | |
| 90 | | | |
| | | | |
| | | | |

RETURN TO

| | |
|----|------------|
| 82 | T. B. Reed |
|----|------------|

✓ JBR

RAC
H.R.

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ed. Feb. 1935

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 28, 1941

P Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. H. R. Edmonston

Tide Reducers are approved in
7 volumes of sounding records for

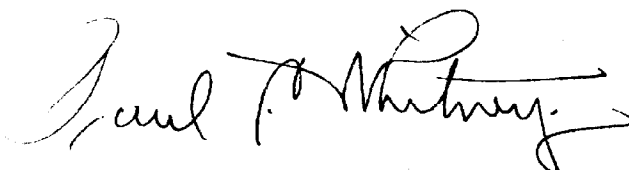
HYDROGRAPHIC SHEET 6483

Locality South of Sanak Reefs, Sanak I., S. W. Alaska

Chief of Party: R. L. Schoppe and G. C. Jones in 1938 and 1939
Plane of reference is mean lower low water reading
3.7 ft. on tide staff at Peterson Bay
4.9 ft. below B.M. 2
4.8 ft. on tide staff at Sanak Harbor
8.1 ft. below B.M. 3

Height of mean high water above plane of reference is 5.4 feet at
Peterson Bay; 5.8 feet at Sanak Harbor.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H

Verified and Inked by *C.E. Dennis*

Date *2/19/41*

1. The descriptive report was consulted and appropriate action taken. ✓
2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude. ✓
3. All references to survey sheets mentioned in the descriptive report include the registry number and year. ✓
4. Geographic names of hydrographic features are in slanting lettering and of topographic features in vertical lettering. ✓
5. All items effecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken. ✓
6. All positions verified instrumentally were check marked in the sounding records. ✓
7. All critical soundings are clear and legible. ✓
8. The metal protractor has been checked within the last three months. ✓
9. The protracting and plotting of all bad crossings were verified. ✓
10. All detached positions locating critical soundings, rocks or buoys were verified. ✓
11. The boat sheet was compared with the smooth sheet. *No boat sheet available*
12. The spacing of soundings as recorded in the records was closely followed. ✓
13. The bottom characteristics were shown on outstanding shoals. ✓
14. The reduction and plotting of doubtful soundings were checked. ✓

15. The transfer of contemporary topographic information was carefully examined.
16. All junctions were transferred.
17. The notation "JOINS H" was added for all contemporary adjoining or overlapping sheets now registered.
18. The depth curves have been drawn to include the significant depths.
19. All triangulation stations and transfer of topographic and hydrographic signals were checked by the field party.
20. Heights of rocks were checked against range of tide.
21. Rocks transferred from topographic survey have a dotted curve where shown thereon.
22. Unnecessary pencil notes have been removed.
23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.
24. The low water line and delineation of shoal areas have been properly shown (see letter of October 20, 1934).
25. Degree and minutes values and symbols have been checked.
26. Source of shoreline and signals (When not given in report).
T-6503 (1936), T-6607 (1937), T-6608 (1937).
27. Depth curves were satisfactory except as follows:

28. Sounding line crossings were satisfactory except as follows: ✓

29. Junctions with contemporary surveys were satisfactory except as follows: ✓

30. Condition of sounding records was satisfactory except as follows:

31A, 73A, 96B, 89G, 63G, 140G, 141G

31. The protracting was satisfactory except as follows: ✓

32. The field plotting of soundings was satisfactory except as follows:

Erroneously spaced - 151
Revised - 31

33. Notes to reviewer:

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6483 (1938-39) FIELD NO. 4337-39

S. W. Alaska; Sanak Islands; South of Sanak Reef
Surveyed in 1938-1939, Scale 1:40,000
Instructions dated March 30, 1936;
March 18, 1938 (DISCOVERER)

Soundings:

Control:

Type 312 Fathometer

Sextant Angles on Shore Signals

Chief of Party - R. L. Schoppe, G. C. Jones
Surveyed by - R. L. Schoppe, G. C. Jones
Protracted by - W. Weidlich
Soundings plotted by - W. Weidlich
Verified and inked by - C. E. Dennis
Reviewed by - J. A. McCormick, March 5, 1941
Inspected by - H. R. Edmonston

1. Shoreline and Signals

As the survey is offshore, shoreline has been omitted.
Topographic signals are from T-6508 (1936), T-6607
(1937) and T-6608 (1937).

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Contemporary Surveys

- a. Satisfactory junctions were effected with H-6385 (1938), H-6281 (1937) and H-6437 (1938) on the north and with H-6279 (1937) on the southwest. Differences of 1 and 2 fathoms are numerous in the overlaps but are to be expected in this area. Crossings with H-6279 (1937) in Lat. 54° 06' indicate some displacement which may be attributed partly to the R.A.R. control of that survey and partly to the small sextant angles of the present survey.

b. Junctions with H-6485 (1939-40) on the northeast and H-6484 (1938-39) on the northwest will be considered in the reviews of those surveys. Surveys on the east and southeast have not been received from the field.

5. Comparison with Prior Surveys

H-3307 (1911), 1:300,000; H-3579 (1913-14), 1:180,000

Depths on the old surveys are, in many cases, 3 to 5 fathoms shoaler than those of the present survey. The old soundings mostly were obtained with tubes and the control was questionable in several places. The present survey supersedes the older surveys in the common area.

6. Comparison with Chart 8860 (New Print of Nov. 25, 1940)

Depths charted in this area are from surveys discussed in the preceding paragraph.

7. Condition of Survey

Satisfactory. Notes for descriptive report were not submitted to processing office, but the survey is of such a nature as to require little descriptive information.

8. Compliance with Instructions for the Project

Satisfactory.

9. Additional Field Work Recommended


None.

10. Superseded Surveys

H-3307 in part

H-3579 " "

Examined and approved:




Thos. B. Reed,
Chief, Section of Field Records



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of
Coastal Surveys

Applied to drawing of Chart 8860 - Sept. 18, 1941 - J. T. Walker
" " " " " 9302 9-27-41 K.P.
" " Compilation " 8705 7-3-42 S.M.A.