6589

Original

Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

~~Topographic~~
*Hydrographic* } *Sheet No.* H-6589 2140



*State* S. W. Alaska

LOCALITY

S. side Alaska Peninsula

Sandy Cove and Thin Pt. Cove

*19* 40

CHIEF OF PARTY

L. D. Graham

U. S. GOVERNMENT PRINTING OFFICE 102221

6589

Form 537
Ed. Dec. 1930

REG. NO.

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. 2140

REGISTER NO. H-6589 H6589

State S.W. Alaska

General locality Alaska Peninsula - South side

Locality Sandy Cove and Thin Point Cove

Scale 1:20,000 Date of survey June, 1940

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

Chief of Party L. D. Graham

Surveyed by J. T. Jarman

Protracted by P. M. Fisher

Soundings penciled by P. M. Fisher

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by J. A. McCormick

Verified by do

Instructions dated April 6, 1939

Remarks: Shoal development only

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT TO ACCOMPANY

SHEET FIELD NO. 2140

(a) Date of Instructions: Project HT-219
March 18, 1938 - April 6, 1939

(b) Survey Methods - location

This sheet was used only to investigate and develop more thoroughly shoals previously surveyed on Sheet H-4496 in 1924 and 1925, in the vicinity of Sandy Cove and Thin Point Cove. These Coves are situated on the south side of the Alaska Peninsula between Cold and Morzhovoi Bays.

No new topography was done in this area. A few old topographic and triangulation stations were recovered. SKIP, BAG, GES, and PIN are new signals which were located by sextant on the boat sheets. It is the intention to obtain theodolite cuts to some of these when triangulation stations THIN, FOX 2, and REEF are occupied. These stations have now been located by triangulation. See P.4.

All soundings were taken from a launch using a standard lead line, except the most westerly area off Sandy Cove where wire soundings using a sheave graduated to tenths of fathoms was used.

(c) Discrepancies: None

(d) Dangers: All dangers are close to shore and indicated by kelp.

(e) Channels: None

(f) Anchorages: --

(g) Comparison with previous surveys:

Our Supplemental Instructions of April 6, 1939, page 3 call for additional work on Sheet H-4496 as follows:

1. "Investigate the locality of the 9-fathom and 8-fathom soundings from H-4301 at the junction with H-4496 off Sandy Cove". The 8-fathom sounding was found to be substantially correct, 7¾ being least ~~correct and no shoaler~~ depth found. The 9 and two 10-fathom soundings were apparently in error. Our least depth was ~~17~~ 16 fathoms which checks the launch work on H-4496. These presumably erroneous soundings were at the inshore end of a ship line on Sheet H-4301. The method used to obtain these soundings should be investigated as they may possibly be tube soundings. Rev. par. 2. In addition to our development, forty minutes were spent in feeling over the area with no sign of a shoal. Bottom is coarse sand, fine gravel and shell with no indication of rocks.

2. "Accomplish additional development between the 5-fathom curve and the beach off triangulation station 'LOW' as indicated on photostat". A least depth of ~~1-1/2~~ 1 2/6 fathoms was found in Latitude 54° - 57.77', Longitude 162° - 41.83'. In addition to the recorded soundings, one half hour was spent feeling over the shoalest part with the lead. The bottom is rocky here and heavily covered with kelp. It appears to be a rounded rocky surface rather than a pinnacle.

3. "Accomplish additional development of the 2-1/6 fathom shoal, 1-1/2 miles west of Thin Point, to verify the least depth and to define better the limits of the shoal". After the usual development, thirty-five minutes were spent feeling over the shoalest area. The least depth found was ~~1-4/6~~ 1 2/6 fathoms. Bottom is rocky and covered with heavy kelp.

4. "Investigate further the vicinity of the 4-4/6 fathom sounding 1-1/2 miles southwest of Thin Point, at the junction with H-4374". Heavy kelp covered this vicinity and invariably the shoaler depths were marked by this

growth. The present development shows the shoaler area to be more extensive than the original survey indicated. This particular shoal appears to be one of many which are undoubtedly an extension of Thin Point. Forty minutes were spent feeling over the shoalest area with the hand lead in addition to the plotted development. The least depth found was ~~four~~ 3¾ fathoms. The shoal points are rocky and the surrounding deeper areas are sandy.

~~(Note: All above mentioned depths are corrected for predicted tides and are subject to slight changes when reduced by actual tides.)~~

(h) Wire-drag groundings: --

(i) Geographic Names: No new names

(j) Statistics Sheet Field No. 2140:

| Date | Day letter | Positions | Soundings | Stat. Miles Sounding Line |
|---|---|---|---|---|
| June 3 | a | 164 | 555 | 20.7 |
| 4 | b | 119 | 311 | 17.9 |

Area: 2.6 square statute miles.

TIDAL DATA TO ACCOMPANY
SHEET FIELD NO. 2140

Tide Gauge - - - - - - - - - - - - - - - King Cove
Latitude 55° - 03.7', Longitude 162° - 19.1'

M.L.L.W. on Staff - - - - - 6.18'

Highest Tide - - - - - - - -14.4 August 17, 1939

Lowest Tide - - - - - - - - - 3.9 August 18 and 19, 1939

(Note: Not compared with 1940 marigrams for highest and lowest tides.)

Respectfully submitted,

Junius T. Jarman

Junius T. Jarman
Jr. H. and G. E., C. and G. S.
Ship DISCOVERER

NOTES PREPARED IN SEATTLE PROCESSING OFFICE

SHEET H-6589

Stations SKIP, RAG, GES, FLO, BIG, HILL, and PIN were computed in 1940 from stations UMGA, AMAGAT, FOX 2, REEF and THIN, using as bases the distances and positions obtained from triangulation of the years 1901 to 1923, and not from the 1940 scheme.

All stations on this sheet depend on the old triangulation for datum.

George L. Bean,
Officer in Charge,
Seattle Processing Office.

LAC
HME

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

# TIDE NOTE FOR HYDROGRAPHIC SHEET

March 20, 1941

Division of Hydrography and Topography:

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

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6589

Locality Sandy Cove and Thin Point Cove, Alaska Peninsula.

Chief of Party: L. D. Graham in 1940
Plane of reference is mean lower low water reading
6.2 ft. on tide staff at King Cove
23.0 ft. below B.M. 2

Height of mean high water above plane of reference is 6.0 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE

GEOGRAPHIC NAMES

Survey No. H6589

| Name on Survey | On Chart No. A, | On previous survey No. B, | On U. S. quadrangle Maps C, | From local information D | On local Maps E | P. O. Guide or Map F | Rand McNally Atlas G | U. S. Light List H | K | |
|---|---|---|---|---|---|---|---|---|---|---|
| Amagat Island | | | | | | | | | | 1 |
| Sandy Cove | | | | | | | | | | 2 |
| Thin Point Cove | | | | | | | | | | 3 |
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Names underlined in red approved by L. Heck on 4/30/41

M 234

| | Remarks | Decisions |
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Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. H6589

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

| | |
|---|---|
| Number of positions on sheet | 283 |
| Number of positions checked | 15 |
| Number of positions revised | 0 |
| Number of soundings recorded | 866 |
| Number of soundings revised | 2 |
| Number of soundings erroneously spaced | 0 |
| Number of signals erroneously plotted or transferred | 0 |

Date: April 19, 1940

Verification by J.A. McCormick Time: 15 hr.

Review by do Time: 4 hr.

2629

HYDROGRAPHIC SURVEY NO. H6589

Smooth Sheet One

Boat Sheet One

Records; Sounding 2 Vols., Wire Drag ___ Vols., Bomb ___ Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) None

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 2 ; Last Date June 4, 1940

Remarks

2776

FORM M-238

# MEMORANDUM

# IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

No. H H6589

~~No. I~~

received Mar. 3, 1941
registered Mar.4, 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 |
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RETURN TO

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

✓ JBOR

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H H6589

Verified and Inked by J.A. McCormick Date 4/19/41.

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. ✓

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. ✓

M-996

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).

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:~~

31. The protracting was satisfactory ~~except as follows:~~

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

33. Notes to reviewer:

DIVISION OF CHARTS

Surveys Section

REVIEW OF HYDROGRAPHIC SURVEY NO. 6589 (1940) FIELD NO. 2140

S. W. Alaska; South Side Alaska Peninsula;
Sandy and Thin Point Coves
Surveyed in June 1940, Scale 1:20,000
Instructions dated March 18, 1938; April 6, 1939 (DISCOVERER)

Soundings: Hand Lead and Machine

Control: Sextant Fixes on Shore Signals

Chief of Party - L. D. Graham
Surveyed by - J. T. Jarman
Protracted by - P. M. Fisher
Soundings plotted by - P. M. Fisher
Verified and inked by - J. A. McCormick
Reviewed by - J. A. McCormick, April 19, 1941
Inspected by - H. R. Edmonston

1. Shoreline and Signals

Shoreline and topographic signal "DUN" are from T-4156 (1925). Undated triangulation stations are temporary hydrographic signals cut in by theodolite in 1940.

2. Results of Survey

The present survey is a series of detached developments recommended in the review of H-4496 (1924-25). The descriptive report, pages 2 and 3, summarizes the results very nicely. Slightly shbaler depths were found in all cases except in Lat. 54° 55.5', Long. 162° 47.9' where 16 fathoms was the least depth found in 1940 as compared with depths of 9 and 10 fathoms on H-4301 (1923-25). The shoal depths on H-4301 were obtained at the end of a line, just after the change from pressure tubes to hand lead. The second hand lead sounding was 11 fathoms and was rejected with the notation "new leadsman." Development on the present survey is sufficient to indicate probable error in all of the succeeding hand-lead soundings, nine in number and ranging from 9 to 14 fathoms. The reviewer of the present survey has noted the questionable soundings "Rejected" in the sounding volumes and on the smooth sheet for H-4301. Results of the present survey, corrected for predicted tides, were reported to this

office by Chart Letter 458 of June 30, 1940, and have been partially applied to charts 8701 and 8703.

3. Compliance with Instructions for the Project

Excellent.

Examined and approved:

Thos. B. Reed,
Chief, Surveys Section

J. S. Borden
Chief, Division of Charts

C. M. Green
Chief, Section of Hydrography

G. Rude
Chief, Division of Coastal Surveys

Applied to drawing of chart 8701 - July 14, 1941 - JTW

Applied to buff drawing of chart 8703 Sept. 1941 Gamble.