

4941

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 12 1938

Acc. No. _____

83001
4941

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic } Sheet No. EE - 1937
Hydrographic }

State SOUTHEAST ALASKA

LOCALITY

STEPHENS PASSAGE

To

POINT YOUNG - OUTER POINT

1937

CHIEF OF PARTY

H. Arnold & Kero, H. and G. E.

U. S. GOVERNMENT PRINTING OFFICE

4941

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. EE - 1937

T4941

REGISTER NO.

State SOUTHEAST ALASKA

General locality STEPHENS PASSAGE

Locality POINT YOUNG ^{TO} OUTER POINT

Scale 1:60,000 Date of survey SEPTEMBER, 19 37

Vessel WESTDAHL

Chief of Party H. ARNOLD KARO

Surveyed by GEORGE E. MORRIS, JR.

Inked by J. H. S. BILLMYER

Heights in feet above M.H.W. to ground ~~to tops of trees~~

~~Contour~~, Approximate ~~contour~~, Form line interval 100 feet

Instructions dated MAY 24, 1937

Remarks: FORM LINE SHEET

ESTIMATED HEIGHT OF TREES; 75 Ft. BELOW 1500'; 50 FT. ABOVE 1500'

DESCRIPTIVE REPORT TO ACCOMPANY SHEET EE - 1937

STEPHENS PASSAGE, ALASKA

Authority:

The work was executed under instructions dated May 24, 1937, ✓
Project HT - 216.

Scale and Area Covered:

The sheet was done on a 1:60,000 scale and included the area ✓
surrounding Stephens Passage between Point Young and Outer Point
as far back as accurate elevations could be determined.

General Description:

Douglas Island is a large wooded island lying between Stephens ✓
Passage and Gastineau Channel. It has several prominent mountain
peaks ranging from 2500 to 3300 feet in height.

The extremity of Point Young is grass covered and has a pebble ✓
beach. From the point the land rises in a timbered ridge with a long
gentle slope in an east-southeasterly direction to an elevation of
over 3000 feet.

Young Bay is the broad bight in the southern shore of Stephens ✓
Passage southwest of Point Young. Scull Island, a grass covered
rock 53 feet high, lies in the middle off the entrance. A portage
connects the southwest side of Young Bay and Hawk Inlet.

Horse and Colt Islands are two small heavily wooded, (maximum ✓
height to top of trees is 125 feet), islands connected at low water.

In general, trees are found with fair regularity to about 1000 ✓
feet elevation, with scattered trees between 1000 and 2000 feet ele-
vation, and generally bare above 2000 feet.

See also sheets AA ^{T-6591} - 1937, BB ^{T-6592} - 1937, CC ^{T-6593} - 1937, 2037, and Coast ^{H6273}

Pilot notes forwarded December 6, 1937.

Landmarks:

Landmarks for Charts were forwarded under separate cover on October 15, 1937.

Control:

Second and third order triangulation executed in 1917 and 1937 was used for control. Sufficient triangulation stations were available so it was unnecessary to have plane table set-ups at intermediate points.

All elevations shown on the sheet were obtained by a minimum of three intersecting cuts.

Method of Form Lining and Comparison With Previous Surveys:

All available previous surveys were inspected in the field and it was found that none showed the existing conditions. All differences were checked in the field.

The Geological Survey Admiralty Island Alaska map, published in 1936, showed the land shapes very closely to what they actually are. It is believed the inaccuracies were caused by the work being based on too few elevations. Also some of the elevations used were evidently taken from some of our earlier surveys.

It is understood that the drainage lines shown on the Admiralty Island map were obtained from air photos.

A section of the Admiralty Island map covering the area was enlarged to the scale of the sheet and the drainage lines transferred to the sheet.

Very few clear days when the mountains were clear of clouds occurred in September and time did not permit the securing of elevations

and the drawing and checking of form lines in the field. For that reason the enlargement of the Admiralty Island map was checked in the field. Working on an overlay, using the correct elevations as obtained by this survey, the form lines were corrected. Lack of time and suitable weather conditions prevented a final verification in the field.

It is believed that this survey is fairly accurate, and, until additional work is undertaken in the area, it is recommended that this survey with the Geological Survey Admiralty Island ^{*}map covering the adjoining areas be used as a source of form lines for charting.

If additional work is executed in the area, it is recommended that copies of the air photo compilations be obtained for use of the field party while doing the field work.

Geographic Names:

All names shown are from the published charts or the Geological Survey Admiralty Island Alaska map.

The Coast Pilot refers to Admiralty Creek as "Young River". Admiralty Creek is a well established local name and is shown on the map in general use. It is recommended that the name "Admiralty Creek" be used.

25

Magnetic Meridian:

The declinoire needle error was obtained from the mean value of two comparisons with observations taken with the compass declinometer at triangulation station SCULL₂ 1917 and triangulation station BIE 1890.

Inking:

This sheet was inked by J. H. S. Billmyer, Seaman, a.b. on the Westdahl, a former draftsman on various engineering projects. All form lines were first drawn in pencil by the topographer, and all

inking was carried on under the close supervision of the topographer.

Statistics:

There are approximately 279 square statute miles of area covered by this sheet.

Respectfully submitted,

George E. Morris, Jr.
George E. Morris, Jr.,
Jr. H. and G. E.

Approved and Forwarded,

H. Arnold Kero
H. Arnold Kero,
H. AND G. E.,
Chief of Party.

Sheet inspected and approved,

H. Arnold Kero
H. Arnold Kero,
H. and G. E.,
Chief of party.

Remarks.

Decisions

| | | |
|----|--|---------------|
| 1 | | |
| 2 | | |
| 3 | | USGB decision |
| 4 | | see H-6269 |
| 5 | | " " |
| 6 | | see H-6273 |
| 7 | | see H-6269 |
| 8 | | see H-6268 |
| 9 | | see H-6273 |
| 10 | | USGB decision |
| 11 | | see H-6268 |
| 12 | | USGB decision |
| 13 | | |
| 14 | | USGB decision |
| 15 | | " " |
| 16 | | see H-6268 |
| 17 | | |
| 18 | | see H-6273 |
| 19 | | |
| 20 | | USGB decision |
| 21 | | see H-6273 |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |

GEOGRAPHIC NAMES

Survey No. T4941

| GEOGRAPHIC NAMES | | Survey No. T4941 | | | | | | | | | |
|--|---|------------------|----------------|----|----|----|----|----|----|----|--|
| Name on Survey | <div>On Chart No. 8202</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps <i>Admiralty Island</i></div> <div>From local information</div> <div>On local Maps</div> <div>P.O. Guide or Map <i>Bakers Dict.</i></div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> | | | | | | | | | | |
| | A. | B. | C. | D. | E. | F. | G. | H. | K. | | |
| <input checked="" type="checkbox"/> <u>Douglas Island</u> | ✓ | ✓ | ✓ | | | | | | | 1 | |
| <input checked="" type="checkbox"/> <u>Stephens Passage</u> | ✓ | ✓ | ✓ | | | | | | | 2 | |
| <input checked="" type="checkbox"/> <u>Lone Mountain</u> | ✓ | ✓ | | | | | | | | 3 | |
| <input checked="" type="checkbox"/> <u>Colt Island</u> | ✓ | ✓ | | | | | | | | 4 | |
| <input checked="" type="checkbox"/> <u>Horse Island</u> | ✓ | ✓ | | | | | | | | 5 | |
| <input checked="" type="checkbox"/> <u>Middle Point</u> | ✓ | ✓ | | | | | | | | 6 | |
| <input checked="" type="checkbox"/> <u>Mansfield Peninsula</u> | ✓ | ✓ | | | | | | | | 7 | |
| <input checked="" type="checkbox"/> <u>Young Bay</u> | ✓ | ✓ | | | | | | | | 8 | |
| <input checked="" type="checkbox"/> <u>Inner Point</u> | ✓ | ✓ | | | | | | | | 9 | |
| <input checked="" type="checkbox"/> <u>Scull Island</u> | ✓ | ✓ | | | | | | | | 10 | |
| <input checked="" type="checkbox"/> <u>Point Young</u> | ✓ | ✓ | | | | | | | | 11 | |
| <input checked="" type="checkbox"/> <u>Admiralty Creek</u> | ✓ | ✓ | | | | | | | | 12 | |
| <input checked="" type="checkbox"/> <u>Hawk Inlet</u> | ✓ | ✓ | ✓ | | | ✓ | | | | 13 | |
| <input checked="" type="checkbox"/> <u>Fowler Creek</u> | ✓ | ✓ | | | | | | | | 14 | |
| <input checked="" type="checkbox"/> <u>Admiralty Creek</u> <i>Cove</i> | ✓ | ✓ | | | | | | | | 15 | |
| <input checked="" type="checkbox"/> <u>Admiralty Island</u> | ✓ | ✓ | | | | | | | | 16 | |
| <input checked="" type="checkbox"/> <u>Symonds Point</u> | ✓ | ✓ | <i>H-16020</i> | ✓ | | ✓ | | | | 17 | |
| <input checked="" type="checkbox"/> <u>Outer Point</u> | ✓ | ✓ | | | | | | | | 18 | |
| <input checked="" type="checkbox"/> <u>Fish Creek</u> | ✓ | | ✓ | | | ✓ | | | | 19 | |
| <input checked="" type="checkbox"/> <u>Hilda Creek</u> | ✓ | ✓ | | | | | | | | 20 | |
| <input checked="" type="checkbox"/> <u>Point Hilda</u> | ✓ | ✓ | | | | | | | | 21 | |
| <input checked="" type="checkbox"/> <u>Fritz Cove</u> | ✓ | ✓ | <i>H-2058</i> | ✓ | | ✓ | | | | 22 | |
| <input checked="" type="checkbox"/> <u>Entrance Point</u> | ✓ | ✓ | <i>H-2058</i> | ✓ | | ✓ | | | | 23 | |
| <input checked="" type="checkbox"/> <u>Hut Point</u> | ✓ | ✓ | <i>H-2058</i> | ✓ | | ✓ | | | | 24 | |
| | | | | | | | | | | 25 | |
| Names underlined in red approved | | | | | | | | | | 26 | |
| by <i>gjc</i> on <i>5/24/38</i> | | | | | | | | | | 27 | |

M 234-16

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } ~~XXXXXX~~
~~PHOTOSTAT OF~~ } No. T-4941

{ received April 12, 1938
 { registered May 20, 1938
 { 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 | | | |
| 22 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 30 | | | |
| 40 | | | |
| 62 | | | |
| 63 | | | |
| 82 | | | |
| 83 | | | |
| 88 | | | |
| 90 | | | |
| | | | |
| | | | |

RETURN TO

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

✓ JBR

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 4941 (1937) FIELD NO. EE.

Point Young to Outer Point, Stephens Passage, Southeast Alaska
Surveyed in September 1937, Scale 1:60,000
Instructions dated May 24, 1937 (WESTDAHL)

Form Line Survey

Whatman Sheet.

Chief of Party - H. A. Karo.
Surveyed by - G. E. Morris, Jr.
Inked by - J. H. S. Billmyer.

1. Condition of Survey.

The survey is neat and legible and conforms to the requirements of the Topographic Manual.

2. Character of Survey.

This survey, which is a representation of form lines and drainage, was prepared by revising the form lines of the Admiralty Island Alaska map (scale 1:125,000; published by the U. S. Geological Survey in 1936) to conform to the elevations located on the present survey.

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

3. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.

4. Junctions with T-3681 (1917), T-3682 (1917), T-3848 (1921), and T-3851 (1921).

(1) Shoreline.

See paragraph 5e (1).

(2) Form Lines.

The form lines on the above surveys do not make a satisfactory junction with the present survey. See paragraph 5 e, (2) of this review.

5. Comparison with Prior Surveys.

a. H-1602a (1884) Scale 1:40,000 (contains topography).

This is a reconnaissance survey with no standard projection and shows a sketchy shoreline which is considerably in error when compared with the more recent large scale

surveys (see par. 4a of Review T-6593 (1937)). No form lines are shown, but the hatchured representation of Lone Mountains is in fair agreement with the designation of this feature by form lines on the present survey. Within the common area with the present survey, H-1602a should be disregarded in future charting.

b. T-2017 (1890) and T-2019 (1890), Scales 1:80,000.

These two surveys combined cover the entire area of the present survey.

Form lines on these surveys are limited to the definition of mountain peaks throughout the entire area of the present survey. An accurate comparison cannot be made since the present survey shows many additional peaks. Because of the many discrepancies as to position elevation there is no certainty in all cases as to which peak is common to both surveys. The present survey, within the common combined area should supersede T-2017 (1890) and T-2019 (1890) for charting purposes.

c. H-2063 (1890) Scale 1:10,000 (contains topography)

This is a survey of Hawk Inlet. There is no conflict between the shore line and the form lines on the present survey.

d. T-2170 (1894) Scale 1:200,000.

This survey covers the entire area of the present survey and consists of additions to topography on Chart 8300 published in 1893. The 500 foot form lines appear to have been drawn from elevations of only the most prominent mountain peaks. Because of the small scale an accurate comparison with the present survey is not possible. Within the area of the present survey, T-2170 (1894) should be disregarded in future charting.

e. T-3681 (1917), T-3682 (1917), T-3848 (1921) and T-3851 (1921), Scales 1:20,000.

These surveys combined cover about 80% of the present survey.

(1) Topography.

With the exception of the area included by T-6591 (1937) and T-6593 (1937) the penciled shore line on the present survey originates with the above surveys.

(2) Form Lines.

The form lines on these surveys except T-3682 (1917) which has no form lines, are in very poor agreement

with those on the present survey. Horizontal displacements in form lines in many cases are as much as 1/2 mile. There are numerous differences in elevations, the most important is the elevation of 960 feet on T-3681 (1917) (charted) in lat. 58° 9.15', long. 134° 42.2', which falls close to the 200 foot form line on the present survey. Copies of T-3681 (1917), T-3848 (1921) and T-3851 (1921) were examined in the field and none of these surveys represented the existing conditions (page 2 of the Descriptive Report T-4941 (1937)). The field recommendation in regard to charting form lines in this vicinity is accepted, i.e., until additional work is undertaken in this area; the present survey supplemented by the Admiralty Island Alaska map, blueprint No. 32454 covering adjoining areas, ^{should} be used as a source of form lines for charting purposes.

The number of determined elevations on the present survey complies with the requirements of the Topographic Manual for Alaska form line surveys.

6. Comparison with Chart No. 8235 (New Print dated Aug. 3, 1937)
Chart No. 8302 (New Print dated Sept. 22, 1938).

Within the area of the present survey the chart is based on surveys discussed in the preceding paragraphs and contains no additional information that needs consideration in this review.

7. Field Drafting.

The inking of topographic features and lettering is excellent.

8. Additional Field Work Required.

No additional work is recommended.

9. Superseded Prior Surveys.

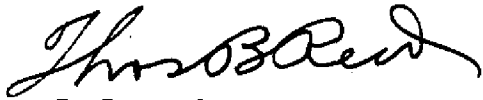
Insofar as the topography actually included on the present survey is concerned, the present survey supersedes the following surveys as indicated:

H-1602a (1884) in part (contains topography)
 T-2017 (1890) in part
 T-2019 (1890) in part
 H-2063 (1890) in part (contains topography)
 T-2170 (1890) in part
 T-3681 (1917) form lines only
 T-3848 (1921) form lines only
 T-3851 (1921) form lines only.

10. Reviewed by - Leo. S. Straw, Jan. 5, 1939.

Inspected by - E. P. Ellis.

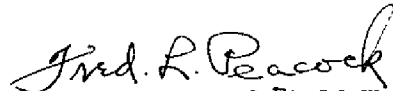
Examined and approved:



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



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.