

6591

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

**DESCRIPTIVE REPORT**

Topographic }  
Hydrographic } Sheet No. AA - 1937

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State SOUTHEAST ALASKA

LOCALITY

STEPHENS PASSAGE

ADMIRALTY COVE

---

1937

CHIEF OF PARTY

H. ARNOLD KARO, H. AND G. E.

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. AA - 1937

REGISTER NO. **T6591**

State SOUTHEAST ALASKA

General locality STEPHENS PASSAGE

Locality ADMIRALTY COVE

Scale 1:10,000 Date of survey AUGUST, 19 37

Vessel WESTDAHL

Chief of Party H. ARNOLD KARO

Surveyed by GEORGE E. MORRIS, JR.

Inked by GEORGE E. MORRIS, JR. & J. H. S. BILLYER

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

Contour, Approximate contour, Form line interval ----- feet

Instructions dated MAY 24, 1937

Remarks: FORM LINES ON SHEET EE - 1937

T-6591

DESCRIPTIVE REPORT TO ACCOMPANY SHEET AA - 1937

STEPHENS PASSAGE, ALASKA

Work was done under instructions dated May 24, 1937, project HT-216.

(a) General Description of the Coast:

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. Admiralty Cove is a shallow cove with the low water line extending <sup>about</sup> one half mile north of the southerly shore. Admiralty Creek empties into the cove. A trail to Admiralty Lake starts at the beacon  $\Delta$  RANGE 1937.

(b) Landmarks:

A list of landmarks was forwarded on form 567 October 15, 1937. chart letter #773 (1937)

(c) Character of Control:

Second and third order triangulation established in 1917 and 1937 was used for control.

(d) Closing Error of Traverse:

Enough triangulation control was available to make traversing unnecessary.

(e) Auxiliary Surveying Methods:

Standard plane table methods were used except for the delineation of the low water line. This was obtained from the hydrographic survey of the area. (See sheet 1337). H-6268

(f) Form Lines:

Form lines are shown on the 1:60,000 scale sheet EE - 1937. T-4941

(g) Revision Work:

This survey was executed as a complete new survey. See (j) and (n) below.

(h) Completeness:

The survey is considered to be complete and to show conditions as they existed at the time of the survey *except as noted in par. (c) above.*

(i) Methods of Survey.

Standard plane table methods were used.

(j) Junction With Previous Surveys:

The work joins sheet T-3848, scale 1:20,000 at triangulation station YOUNG 1917 and triangulation station RAY 1937. As nearly as could be ascertained by a comparison with the photostatic copy of sheet T-3848 both junctions are satisfactory.

(k) Geographic Names: *GHE*

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.

(n) Changes of Coast Line:

No major changes have occurred in the shore line. The mouth of Admiralty Creek is different but a continual change can be expected below the high waterline in Admiralty Cove.

The low water line has apparently built out into the cove. However it is not certain that this is an actual change because the previous low water line may have been rodded in by the topographer on a plus tide instead of exact mean lower low water. A small difference

in tide makes a large horizontal difference in the exposed tidal area.

The high water line along Admiralty Creek has been more accurately determined than in previous surveys.

The peninsula in longitude  $134^{\circ} 35'$  is shown as marsh covered in the 1921 survey. This is firm dry ground covered with grass.

See (o) below.

(o) Character of Marshes:

The area between the high water line and Admiralty Creek is firm sandy ground that is covered in places by grass. It is covered to the full height of the grass at high water.

Statistics:

10.1 Statute miles shore line.

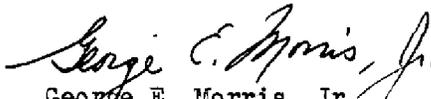
Magnetic Meridians:

The declinoire needle error was obtained from the mean value of two comparisons with observations taken with the compass declinometer at triangulation station SCULL<sub>2</sub> 1917 and triangulation station BIB 1890.

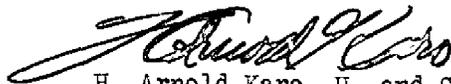
Inking:

The high water line and the outside limits of the low water line were inked by the topographer. The lettering and conventional signs were inked by a crew member under close supervision of the topographer.

Respectfully submitted,

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

Inspected, approved, and forwarded,

  
H. Arnold Karo, H. and G. E.,  
Chief of Party.

Remarks

Decisions

1		<i>see H-6268</i>
2		<i>USGB decision</i>
3		<i>" "</i>
4		<i>" "</i>
5		<i>see H-6268</i>
6		<i>" "</i>
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GEOGRAPHIC NAMES

Survey No. T-6591

Name on Survey	On Chart No. <b>8235</b>										
	A	B	C	D	E	F	G	H	K		
<u>Stephens Passage</u>	✓										1
<u>Scull Island</u>	✓										2
<u>Admiralty Creek</u>	✓										3
<u>Admiralty Cove</u>	✓										4
<u>Admiralty Island</u>	✓										5
<u>Point Young</u>	✓										6
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Names underlined in red approved  
 by JHE on 5/25/35

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT } ~~No. T-6591~~  
 PHOTOSTAT OF } No. T-6591

{ received Apr. 11, 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
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RETURN TO

82	T. B. Reed
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✓ *TBR*

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6591 (1937) FIELD NO. AA

Admiralty Cove, Stephens Passage, Southeast Alaska  
Surveyed in August 1937, Scale 1:10,000  
Instructions dated May 24, 1937 (WESTDAHL)

Plane Table Survey.

Aluminum Mounted.

Chief of Party - H. Arnold Karo.  
Surveyed by - George E. Morris, Jr.  
Inked by - G. E. Morris, Jr. and J. H. S. Billmeyer.

1. Condition of Records.

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

- a. The low water line shown on this survey was transferred from H-6268 (1937). It is not the accepted practice to transfer the low water line from hydrographic surveys to contemporary topographic surveys. The low water line on hydrographic surveys is subject to office revision and changes cause differences with transferred low water line on topographic surveys. (Par. 16a and page 70 of Topographic Manual.)
- b. Inasmuch as the declinoire had a needle error of  $1^{\circ} 15'$  W. (noted on smooth sheet), the notation "uncorrected" has been appended to the declination line in the office so as to avoid confusion in its interpretation.

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

2. Compliance with Instructions for the Project.

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

3. Junctions with Surveys.

The junctions on the east and west with T-3848 (1921) are generally satisfactory.

The junction at Scull Island with T-6592 (1937) is satisfactory.

4. Comparison with Prior Surveys.

- a. T-3682 (1917), Scale 1:20,000.

The only feature shown on this survey which falls within the limits of the present survey is a triangulation station

which is unaccompanied by shoreline details. No further consideration in this review is necessary.

b. T-3848 (1920), Scale 1:20,000.

This survey covers the entire area of the present survey. The general features are borne out by the present survey; the latter, however, shows more detail in the vicinity of lat.  $58^{\circ} 10.4'$ , long.  $134^{\circ} 34.3'$ . Mention is made of the following:

- (1) The remains of the "old fish trap piling" (not charted) extending a distance of 250 m. off Young Point was not noted. Since the hydrographer was in the immediate vicinity during a 1 foot tide and makes no mention of this feature, it has probably disintegrated and should be disregarded in future charting.
- (2) The fringe of sunken rocks (charted), encircling the southwest side of the island, in lat.  $58^{\circ} 10.9'$ , long.  $134^{\circ} 35.7'$ , which falls in well developed depths of 1 to 3 fathoms on H-6268 (1937) are considered to be a generalized representation of the boulder strewn area indicated on both the hydrographic and present survey. They should be disregarded in future charting.

The larger scale present survey should supersede this survey in future charting.

5. Comparison with Chart 8235 (New Print dated August 3, 1937).

a. Topography.

Topography shown on the chart originates with surveys discussed in the preceding paragraphs of this review and no further mention is necessary except that the charted ledge in lat.  $58^{\circ} 10.5'$ , long.  $134^{\circ} 36.5'$ , is a generalized representation of the boulder strewn beach shown on T-3848 (1920) and should be disregarded in future charting.

b. Magnetic Meridian.

The values of the magnetic declination determined with the declinoire at triangulation stations ADD, ALT and RANGE, with the declinoire error of  $1^{\circ} 15'$  applied to the declination as shown on the <sup>topographic</sup> ~~sheet~~ sheet, agree closely with the charted value.

6. Field Drafting.

The inking of the shoreline, topographic features and lettering is exceptionally good. The numerous rocks shown are evidently not individually located, but should be considered as scattered boulders as indicated on H-6268 and should be so charted.

7. Additional Field Work Recommended.

No additional field work is required.

8. Superseded Prior Surveys.

In so far as the topography actually included on the present survey is concerned, the present survey supersedes the following surveys for charting purposes:

T-3682 (1917) in part  
T-3848 (1920) in part

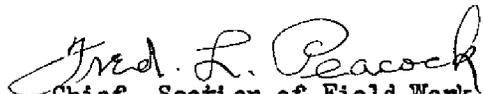
9. Reviewed by - Harold W. Murray, June 13, 1938.

Inspected by - E. P. Ellis.

Examined and approved:

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

  
K.T. Adams  
Chief, Division of Charts.

  
Fred L. Peacock  
Chief, Section of Field Work.

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

*Applied to drawing of Chart 82 35 - 10/17/38 - JTWalby*