

6268

U. S. COAST & GEODETIC SURVEY  
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Form 604  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
....., Director

S. E. ALASKA  
State: ~~ALASKA~~

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 1337  
Hydrographic }

LOCALITY

~~SOUTHEAST ALASKA~~

STEPHENS PASSAGE

ADMIRALTY COVE

1937

CHIEF OF PARTY

H. ARNOLD KARO

ref

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. 1337

REGISTER NO. **H6268**

State ~~ALASKA~~ SOUTHEAST ALASKA

General locality ~~SOUTHEAST ALASKA~~ STEPHENS PASSAGE

Locality ~~STEPHENS PASSAGE~~ \* ADMIRALTY COVE

Scale 1:10,000 Date of survey SEPTEMBER, 1937

Vessel M. V. WESTDAHL

Chief of Party H. ARNOLD KARO

Surveyed by D. H. KONICHEK

Protracted by D. H. KONICHEK

Soundings penciled by D. H. KONICHEK

Soundings in fathoms ~~FFFF~~

Plane of reference M. L. D. W.

Subdivision of wire dragged areas by

Inked by R.H.C.

Verified by R.H. Costens

Instructions dated MAY 24, 1937

Remarks:

DESCRIPTIVE REPORT TO ACCOMPANY SHEET 1337 H-6268

STEPHENS PASSAGE - ADMIRALTY COVE,

ALASKA

(a) Date of Instructions:

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

(b) Survey Methods:

Standard methods of obtaining depths and positions were followed. Hand lead sounding with a 12 pound lead was done into such depths that wire sounding from the Westdahl became more practical, and then the sheet was finished from the Westdahl by wire sounding using a 25 pound lead.

(c) Discrepancies:

No discrepancies were found in the survey.

In a few instances, soundings on the inshore ends of lines appeared to be erratic, but the bottom at these points was covered with large boulders. The delineation of the low water line and the 1, 2, 3, and 4 fathom curves in the vicinities of stations ADD 1937 and RAY 1937, are, for this reason, irregular.

(d) Dangers:

Vessels approaching Admiralty Cove with the intention of anchoring should be careful not to over-run. The rapid shoaling at the head of the cove may be a potential hazard to ships proceeding into the cove, especially after having just sounded in the deep water.

Vessels approaching the anchorage in Admiralty Cove should stand clear of the shoal water off the point west of station

ALT 1937. Lat. 58° 11.5, Long. 134° 34.5

Vessels intending to anchor in the small cove to the southwest of Admiralty Cove should take note of the shoal water existing to a distance of approximately 320 meters west of signal Kid, and the 5/6 fathom depth approximately 225 meters west of station RAY 1937.

Lat. 58° 10.9  
Long. 134° 35.7

4

Lat. 58° 10.5, Long. 134° 36.7

Refer to Coast Pilot Notes, letter dated December 6, 1937.

Refer to Landmarks for Charts, dated October 15, 1937.

(e) Channels:

No particular channels.

(f) Anchorages:

The anchorage in Admiralty Cove does not give good protection against westerly or northerly winds, and of course is not serviceable for larger vessels. The small cove to the southwest of Admiralty Cove offers better protection, with swinging room and muddy bottom for vessels up to 100 feet in length. Either anchorage is open to westerly winds.

(g) Comparison with Previous Surveys:

The last regular survey of this area was made in 1890, scale 1:40,000, and is not complete enough for a close comparison of the work. The general information shown on the 1890 survey, as well as on Chart No. 8235, conforms to the 1937 work in the

essentials. No radical change in depths or the configuration of low water line was noted. The 8 fathom depth shown on Chart No. 8235 at Latitude 58° 11.'6, Longitude 134° 34.'8 was not found.

from 8 1/2 fm. sdg on H-3987(1917) V.O., fraction dropped in charting. This sdg agrees with present survey depths. H.W.M.

A 9 fathom depth was found at almost the exact spot, but the soundings of slightly over 6 fathoms about 100 meters to the east

25-

Handwritten marks and scribbles on the right margin.

and southeast show a dropping off, and so the apparent discrepancy is not important.

(i) Geographic Names:

All geographic names in the area were obtained by the topographer, and are shown on topographic sheet AA - 1937. T-6591<sup>164E</sup>

(j) Statistics:

Statistics for sheet, field no. 1337 H-6268

634 Positions

2010 Soundings

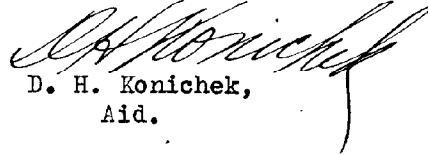
1809 Hand Lead

201 Wire

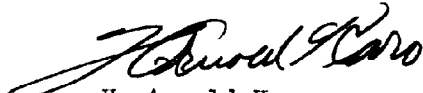
62.8 Statute miles of sounding lines

2.9 Square statute miles area.

Respectfully submitted,

  
D. H. Konichek,  
Aid.

Approved and forwarded:

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

*Records examined and approved.*  


Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6268** .....

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

Number of positions on sheet	634..
Number of positions checked	..22..
Number of positions revised	...2..
Number of soundings recorded	2010
Number of soundings revised	.....0
Number of signals erroneously plotted or transferred	.....0

Date: *May 25, 1938*

Verification by *R.H. Carstens*

Time: 3: 42 hr

Review by *Harold W. Murray*

Time: 7½ "

Ver. Corrections by " "

" ¾ "

HYDROGRAPHIC SURVEY NO. H6268

Smooth Sheet Yes

Boat Sheet Yes

Records; Sounding 3 Vols., Wire Drag      Vols., Bomb      Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol.#1

Landmarks for Charts (Form 567) None

Statistics None *listed on p. 3 of D.R.*

Approved by Chief of Party Approval on last page of D.R.  
~~None~~

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service None  
(Circular Nov.30, 1933)

Hydrography: Total Days 6; Last Date Oct. 1, 1937

Remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Remarks

Decisions

	Remarks	Decisions
1	<i>For Title Only</i>	<i>see H-6269</i>
2		<i>USGB decision</i>
3		
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5		<i>USGB decision</i>
6		
7		<i>see H-6269</i>
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GEOGRAPHIC NAMES

Survey No. **H6268**

On Chart No. 8235  
 On previous survey No. T-2017, T-3848  
 On U. S. quadrangle Maps Admiralty Island  
 From local information  
 On local Maps  
 Bakers Dict. P.O. State of Map  
 Rand McNally Atlas  
 U. S. Light List

Name on Survey

A, B, C, D, E, F, G, H, K

<u>Stephens Passage</u>	✓									1
<u>Scull Island</u>	✓									2
<u>Young Point Young</u>	✓	✓	✓			✓				3
<u>Young Bay</u>	✓	✓	✓			✓				4
<u>Admiralty Cove</u>	✓	Auke Cove Younger T-3848	✓							5
<u>Admiralty Creek</u>			✓							6
<u>Admiralty Island</u>	✓		✓							7
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Names underlined in red approved										25
by <u>GAE</u> on <u>4/15/38</u>										26
										27

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT } No. H -6268  
~~PHOTOSTAT OF~~ } ~~No. H -6268~~

{ received April 4, 1938  
 { registered April 8, 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	✓		Pages 1 & 2
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

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

✓ JBR

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 18, 1938.

Division of Hydrography and Topography:

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

Plane of reference  
~~is not approved in~~ approved in  
3 volumes of sounding records for

HYDROGRAPHIC SHEET 6268

Locality Admiralty Cove, Stephens Passage, S. E. Alaska

Chief of Party: H. A. Karo in 1937  
Plane of reference is mean lower low water reading  
-0.9 ft. on tide staff at Auke Bay  
19.6 ft. below B.M. 1

Height of mean high water above plane of reference is 15.6.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Report on H 6268

Surveyed in 1937

Chief of party - H. Arnold Karo

Surveyed by - D. H. Konichek

Protracted by - D. H. Konichek

Soundings plotted by - D. H. Konichek

Verified and inked by - R. H. Carstens

1. In general the records conform to the requirements of the General Instructions. However a scarcity of notes and information was noted regarding time spent at reduced speed in taking hand lead soundings up to 30 fathoms in the Catamaran. It was considered unusual to secure such depths with the hand lead without some reduction in speed or backing down.

Not mentioned in Rev. since most of the deeper sds which were obtained by the Westdahl are correctly recorded. ~~xxxx~~

2. The usual depth curves can be completely drawn. The low water line was well delineated. The irregularities in the low water line and in the 1, 2, and 3 fathom curves in the vicinity of triangulation stations ADD and RAY was explained in the descriptive report as due to the the large boulders off these points

The field plotting was well done.

No allowance however had been made for reduced speed at the beginning and ending of the inshore end of the lines. Sounding at these points were respaced by the verifier. Noted in Rev.

3. The contemporary surveys surrounding this area are at present unlinked. No junctions with adjoining sheets were made.

4. A comparison of the high water line with that shown on T 6591<sup>(1937)</sup> was made.

6. The low water line on T 6591<sup>(1937)</sup> covering this area was almost wholly taken from the hydrographic sheet. Only the small piece shown in Admiralty Cove was added in.

7. The boulders as shown on T 6591 were not transferred to the hydrographic sheet because it is believed they represent a general boulder area and not specific locations of individual boulders. In as much as hydrography was carried into this area in depths of 3 to 6 feet it is believed that the boulder area should have been called rocky. It is considered improbable that sounding lines would be carried into such depths in a true boulder area. Field representation accepted. xpm

R. H. Carstens

May 25, 1938

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6268 (1937) FIELD NO. 1337

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

Hand Lead and Machine Soundings.

3 Point fixes on shore signals.

Chief of Party - H. Arnold Karo.  
Surveyed by - D. H. Koniocheck  
Protracted by - D. H. Koniocheck.  
Soundings plotted by - D. H. Koniocheck.  
Verified and inked by - R. H. Carstens.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

The Descriptive Report is clear and satisfactorily covers all items of importance. On page 2, par. g, mention is made of the charted 8 fathom sounding in lat. 58° 11.6', long. 134° 34.8', which was not found. Investigation of this sounding revealed that it originates with an 8-3/4 fathom sounding on H-3987 (1917) W.D. (discussed in par. 8 this review) but that the fraction was dropped in charting. The latter sounding is in excellent agreement with the present survey depths.

2. Compliance with Instructions for the Project.

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

3. Shoreline and Signals.

- a. The shoreline originates with plane table survey T-6591 (1937).
- b. The signals originate with the above mentioned survey and also graphic control sheet T-6592 (1937).

4. Sounding Line Crossings.

Agreement of sounding line crossings is satisfactory.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

- a. The junction on the north, northwest and westward with H-6273 (1937) will be considered in the review of that sheet.

- b. The eastern limit of the present survey is the eastern limit of the present project. For charting purposes, however, no difficulty will be experienced in effecting a junction with the charted hydrography originating with H-2055 (~~1917~~),  
(1890)

7. Comparison with Prior Surveys.

H-2055 (1890), scale 1:40,000

A portion of this survey covers the entire area of the present survey. The hydrography is very sparse but is in general good agreement with the present survey except that the western inshore portion of Admiralty Cove has shoaled 1 to 12 feet. The present survey bears out the essential features in far greater detail, and should supersede H-2055 (1890) in future charting.

8. Comparison with Wire Drag Surveys.

H-3987 (1917) W. D., <sup>Scale 1:20,000</sup> and H-4147 (1920-21) W. D., Scale 1:40,000.

A small portion of these wire drag surveys taken together cover the outer limits of the present survey. The effective drag depths shown thereon do not conflict with the present survey depths. Several supplementary soundings of 52 to 72 feet, however, are shown on the 1917 survey in lat.  $58^{\circ} 11.7'$ , long.  $134^{\circ} 34.7'$ . These fall just outside the drag limits and since they agree closely with the present survey depths and the area is well developed, they are not being carried forward. The present survey should supersede these soundings in future charting.

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

Information shown on the chart originates with surveys discussed in previous paragraphs and no further consideration in this review is necessary.

10. Field Plotting.

Field protracting and plotting were accurate and conform to the requirements of the Hydrographic Manual, except that in the spacing of soundings, no allowance was made for reduced speed at the beginning and ending of inshore ends of sounding lines. This was corrected in the office.

11. Additional Field Work Recommended.

This survey is complete and no additional field work is required.

12. Superseded Prior Surveys.


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

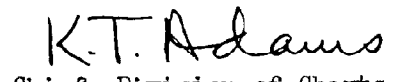
H-2055 (1890) in part  
H-3987 (1917) wire drag. In part (soundings discussed in par. 8 this review only).


13. Reviewed by - Harold W. Murray, June 10, 1938.

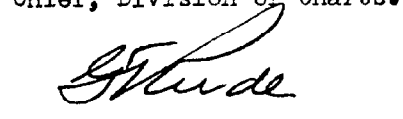
Inspected by - E. P. Ellis.

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.

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

*Applied to drawing of Chart 8235 - 10/17/38 - J. Walker*



Applied to Reconstruction of Chart 8235 270-40 by Chas R Buehler