

5268

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*  
Field No. .... Office No. *5268*

LOCALITY

State *S. E. Alaska*  
General locality *Duke Island*  
Locality *Dixon Entrance*

1932

CHIEF OF PARTY

*G. Jones*  
LIBRARY & ARCHIVES

DATE .....

5268

5268

U. S. COAST & GEODETIC SURVEY  
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MAY 22 1933

Acc. No. \_\_\_\_\_

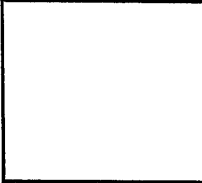
5268

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton *Director*



State: S. E. Alaska

DESCRIPTIVE REPORT

*Topographic*  
*Hydrographic* } Sheet No. 4a. 5268

LOCALITY

SOUTH COAST DUKE ID.

DIXON ENTRANCE

S. E. ALASKA

19 32.

CHIEF OF PARTY

G. C. Jones.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5268

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. 4 a

REGISTER NO. 5268

State ~~COOK~~ Alaska

General locality Dixon Entrance

Locality Barren I., West Rk., Yellow Rks.

Scale 1:40,000 Date of survey Sept. 1932

Vessel EXPLORER

Chief of Party G. C. Jones

Surveyed by G. C. Jones and W. Weidlich

Protracted by W. Weidlich

Soundings penciled by W. Weidlich

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by *Geo. S. Straw*

Verified by *JD* June 19, 1933

Instructions dated March 24, 1932

Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET NO. 4a,

SOUTH COAST DUKE ISLAND,

DIXON ENTRANCE,

S. E. ALASKA,

1932.

DESCRIPTIVE REPORT  
TO ACCOMPANY HYDROGRAPHIC SHEET NO. 4a.

AUTHORITY:

The survey of this sheet was executed under instructions of the Director, U. S. Coast and Geodetic Survey dated March 24th, 1932.

SCALE:

Scale of this sheet is 1:40,000. Soundings are in fathoms and fractions thereof.

LIMITS:

All work was done in the immediate vicinity of Yellow Rocks, Barren Island, and West Rock.

METHODS:

The approved methods of the service were used throughout. The work was done by launch No. 69 and positions are shown in lower case blue letters. The work done by the ship is shown in capital blue letters.

TIDES:

A portable automatic tide gauge was in operation in Kelp Island Passage and all tide reducers were taken from its record covering the period during

which soundings were taken.

CHARACTERISTICS OF BOTTOM:

The rocks and island may be approached close to on account of the great depths. Bottom is hard and rocky.


Additional surveys in the vicinity of West Rock, are in progress and the results will be described in the descriptive report accompanying hydrographic sheet No. 4.

A thirteen fathom shoal lies about six hundred and forty meters East of Barren Island, position 81b, blue. Bottom is rocky.

CURRENTS:

While working in this vicinity a Westerly set was encountered most of the time. The current attained an estimated velocity of from two to three knots in the vicinity of West Rock, making it difficult to keep either the launch or the ship on range.

Respectfully submitted,

  
W. Weidlich,  
Mate, C. & G. S.

STATISTICS

DATE	VOL.	DAY	BOAT	STATUTE MILES	POS.	SOUNDINGS HAND MACH.	MILES TO AND FROM WORK
Sept. 23	1	a	Lch. 69	7.5	95	8 87	2.2
Sept. 26	1	b	Lch. 69	7.5	86	95	0.8
Sept. 27	1	c	Lch. 69	2.5	35	15 48	0.2
Sept. 27	1	A	EXPLORER	10.3	71	132	
TOTALS:				27.8	287	155 230	3.2

APPROVED AND FORWARDED:

*Jack Senior*

Jack Senior,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER.

*This work was accomplished in  
1932. Smooth sheet plotted in the  
field in 1933.*

*5/13/33*

POST-OFFICE ADDRESS: 601 - Federal Office Building, Seattle, Washington.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

*File in descriptive report of H. 5268*  
*SPZ*

*2387*  
*80*

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

U.S.C. & G.S.S. EXPLORER.

May 12, 1933.

Director, U. S. Coast & Geodetic Survey,  
Washington, D. C.

From: Commanding Officer, U.S.C. & G.S.S. EXPLORER,  
Ketchikan, Alaska.

Subject: Field records.

<sup>5267</sup> There is forwarded under separate cover hydrographic sheet No. 3 (field designation of last season) and its accompanying sounding records covering 193<sup>2</sup> work only. The sounding records for this sheet of last year, had been submitted previously. The sheet and report were retained in conformity with your authorization, pending completion of the unfinished area. A supplemental report by Mr. Weidlich is appended to the original report.

2. The limits of the fathometer soundings in Revillagigedo Channel were obtained from the 40,000 boat sheets on board the "SURVEYOR" and "DISCOVERER", and it is believed that a satisfactory junction has been made to the Eastward. However, it is suggested that the South and East limits of this sheet be reduced to a 40,000 scale and said limits be furnished to whatever vessel will complete the deep water sounding in Revillagigedo Channel this year. Two shoals located by the fathometer, were thoroughly developed on this sheet, by attaching a "dog ear".

3. There is also forwarded under separate cover hydrographic sheet No. <sup>5268</sup> 4a (field designation), scale 1:40,000, covering the development of three off-lying shoals South of Duke Island. This is 1932 work, and although this work falls within the area of the fathometer sheets, it was thought best to have a separate projection made and the work plotted by the officer who did the work. Additional development will be done by this party in the vicinity of West Rock, which shoal falls within the area of Sheet No. 4, scale 1:20,000. The unfinished work on this latter sheet is quite extensive, but satisfactory progress is being made, and the work will be plotted in the field and forwarded.

4. It is likewise suggested that a tracing be made of the development shown on sheet No. 4a<sup>5268</sup>, above, and forwarded to the "SURVEYOR" or "DISCOVERER".

*H. 4267 and 4268 were received in the office on May 29, 1933.*  
*Field No. 4 has not yet been received.*  
*May 31, 33* *SPZ*

*Jack Senior*  
Jack Senior,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER.

*80*

*80*

*20*  
*80*  
*82*  
MAY 22 AM 11:50



Lac

June 5, 1933.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in  
1 volume of sounding records for

HYDROGRAPHIC SHEET 5268

Locality **Vicinity of Duke Island, Dixon Entrance, Southeast Alaska**

Chief of Party: **G. C. Jones in 1932**

Plane of reference is

**3.0** ft. on tide staff at **Kelp Island Passage**

**17.6** ft. below B. M. 1

**Height of mean higher high water above plane of reference is 14.6**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Chief, Division of Tides and Currents.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *15268*.....

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

Number of positions on sheet	<i>.267</i>
Number of positions checked	<i>.108.</i>
Number of positions revised	<i>..11..</i>
Number of soundings recorded	<i>385.</i>
Number of soundings revised	<i>..26.</i>
Number of signals erroneously plotted or transferred	<i>...0...</i>

Date: *June 19, 1933*.....  
Cartographer: *W. A. Straw*.....

Section of Field Records.  
Surveyed Sept. 1932.

Report on # 5268.

Chief of Party - G. R. Jones.

Surveyed by G. R. Jones and W. Weidlich.

Extracted by W. Weidlich

Soundings plotted by W. Weidlich.

1. The records conform to the requirements of the General Instructions except that no test of shear was recorded, and the list of signals was omitted. (Hydrographic Manual page 7, paragraph 60)
2. The plan and character of the work fulfills the requirements of the General Instructions.
3. The sounding line crossings are adequate.
4. The usual depth curves can not be completely drawn particularly in the development of the shoal at Barren Island - Here the 20 fathom curve is incomplete on the east. At West Reef the 5 and 10 fathom curves are not complete.
5. The field plotting was completed to the extent prescribed in the Hydrographic Manual, but was not accurately executed.
6. No drafting done by the field was done over in the office except the revision of positions and soundings as shown on the statistics sheet.

7. The function of the surveying on this sheet #5268, will be considered when the adjacent surveys are verified. (See letter dated May 12, 1933 - signed by Jack Senior Commanding Officer of the Explorer. Report #5268) A satisfactory function at Yellow Rocks was made with #5263.
8. Further surveying within the limits of this sheet #5268, is not required, provided that the adjacent surveying east of Barren Island and around West Rock satisfactorily delineate the bottom.
9. The verification of this sheet was done with out the aid of the boat sheet. The boat sheet was retained by the field for use in further surveying in this vicinity.

Respectfully Submitted

June 19, 1933.

Leo Straw

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5268 FIELD NO. 4a

Barren I., West Rk., Yellow Rks., Dixon Entrance, S. E. Alaska.  
Surveyed in Sept. 1932.  
Instructions dated March 24, 1932.

Machine Soundings

3 Point fixes on shore signals.

Chief of Party - G. C. Jones  
Surveyed by - G. C. Jones; W. Weidlich  
Protracted by - W. Weidlich  
Soundings penciled - W. Weidlich  
Verified and inked by - L. S. Straw

This survey was not reviewed at the time of verification, pending receipt of additional work which has since been received and incorporated in H-5263 (1932).

1. This survey constitutes a development around Barren Id., West Rock and Yellow Rocks, and are considered individually as follows:
  - a. Soundings around West Rock have been transferred to H-5281 (1932-3) and are reviewed with that survey, and prior surveys are considered in the review of H-5281 (1932-3).
  - b. Selected soundings around Yellow Rocks are transferred to H-5263 (1932). Former surveys H-1618a (1882-3) and H-2142 (1892) contain no additional information of charting value.
  - c. Soundings around Barren Island are shown in detail only on the present survey, H-5268 (1932). The previous surveys of this area H-1618a (1882-3) and H-2142 (1892) contain no additional information of charting value.
2. No additional work is recommended in the area covered by this survey.
3. The present survey within its limit supersedes the following surveys for charting purposes:

H-1618a (1882-3) in part  
H-2142 (1892) "

4. Reviewed by - Charles R. Bush Jr. Aug. 1936

Inspected by - A. L. Shalowitz

Examined and approved:

C. K. Green *C. K. Green*  
Chief, Section of Field Records

*J. O. Robert*  
Chief, Division of Charts

*Fred. L. Peacock*  
Chief, Section of Field Work

*Glade*  
Chief, Division of H. & T.

Applied to drawing (compilation) of reconstructed  
chart № 8075..... S.B.M. Aug. 1934

Applied to drawing of chart № 8102 - S.B.M. Sept. 1934