

# 3935

0. & G. SURVEY L. & A. MAR 20 1917 Acc. No.

Diag. Cht. No. 8102-2 & 8201-2

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State Masker

DESCRIPTIVE REPORT.

Hy prograf Sheet No. 3935

LOCALITY:

Ernest Sound S&. alacka

1916

CHIEF OF PARTY

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

### HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3935,

| State S.E.Alaska                                    |
|-----------------------------------------------------|
| General locality . Vicinity of Clarence Strait      |
| Locality Ernest Sound                               |
| Chief of party . John A. Daniels, Assistant         |
| Surveyed by . John A. Daniels, H.R. Bartlett        |
| Date of survey June2I .to Sept.29, 1916             |
| Scale I-20000                                       |
| Soundings in Feet                                   |
| Plane of reference Mean Lower Low Water             |
| Protracted by R.C.B., V.A.E. Soundings in pencil by |
| Inked by CAF: Æ. Verified by . N. R. R.             |
| Records accompanying sheet (check those forwarded): |
| Des. report, Tide books, Marigrams,2 Boat sheets,   |
| Sounding books, Photographs.                        |
| Data from other sources affecting sheet             |

Remarks:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Tile C. & G. SURVEY

Acc. No.

SURVEY APR25 1917

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| Sounding books, Photographs.                        |
| Data from other sources affecting sheet             |
|                                                     |

Remarks:

#### DESCRIPTIVE REPORT

To accompany

HYDROGRAPHIC SHEET #1 3935

GENERAL LOCALITY

S. E. ALASKA

Sub Locality

Ernest Sound

From

Clarence Strait to Eaton Point

Suveyed under Instructions of the Superintendent Dated
Feb. 26, 1916

Wire Drag Party No. 3 Season of 1916

John A. Daniels Assistant, Coast and Geodetic Survey

Chief Of Party

The area included by Wire Drag work on this sheet extends roughly from a line - Lemesurier Point to Onslow Point - in Ernest Sound, to about one mile north of Eaton Point, including Union Bay.

On the northern side the drag was not taken much inside of the Muffin Islands, but was taken close to all headlands and Islands bordering the main channel.

The greater part of the signals used on this sheet were located by the U.S. Str. Patterson in 1916, exceptions are "Mis", located by this party in 1915 and " Lem" located by this party with plane table in 1916.

Adepth of fifty feet or more was veridied where possible.

Ernest Sound was found to be fairly clear water. The dangers located are as follows ---

Eighteen foot rock in the open water of entrance to Union Bay.

This rock is located about 2 miles NNE (true) of Lemesurier Point in the path of steamers entering Union Bay. This was reported by letter to the Superintendent dated, June 17, 1916.

Six foot rock on southerly side of entrance to Vixen Inlet.

This was least water on a shoal of considerable extent. The drag was not take taken over this rock.

Shoal with least water of 23 feet about in mile east of Muffin Ids. 

NCHenry Ledge was found to have but two feet at M. L. L. W.

Rock-bare one foot at M. L. L. W., at Whiteantelto, Vixen Inlet.

The last four were reported to Superintendent in letter dated July 8,1916.

Two rocks - bare at M. L. L. W., in Vixen Inlet, reported in advance noti

Notice to Mariners from Smatthe Sub-office dated, November 6, 1916. One
of these rocks does not appear on this sheet as it is inside of Sunshine

Island and is located by tangents to shoreline.

The long drag was used in the open water and the short drag to develop shoals. The tides were not strong in Ernest Sound.

In all cases unless specially noted in the records, one foot was deducted for lift when the hook up was less than sixty feet and two feet was deducted when the hook up was sixty feet or over.

The plotting on this sheet was done by R. C. Briggs, Aid, C. A. Egner, Aid and V. E. Endersby, D.O. The greater part of the inking was done by Mr. Endersby. The depth curves are entered for every foot change in depth for the first part of the work but for the latter part only every five feet above fifty feet.

U' day of sheet 3793 was plotted on this sheet to take advantage of the 1:20000 scale projection.

The shoreline at Lemesurier Point was transfersed from Topographic Sheet A of this party (1916), but the remainder was taken from charts.

Respectfully submitted

Assistant, Coast & Geodetic Survey.

H. Ras Bartlett.

Approved

Assistant, Coast & Geodetic Survey, Chief of Party.

#### STATISTICS TOACCOMPANY HYDROGRAPHIC SHEET BOR ERNEST SOUND

| Date  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Day<br>Letter    | Vol.<br>No.     | Linear $M^{\mathrm{L}}$ les | Angles       | Sdg.<br>Vol. | \$dgs. | Angles      |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|-----------------------------|--------------|--------------|--------|-------------|
| June  | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A                | $\mathcal{I}_1$ | 3.3                         | 184          | 1            | 3      | 6           |
|       | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | . B              | 1               | 5.0                         | 199          | 1            | 2      | 4           |
|       | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | C                | 1               | 5.8                         | 260          | 1            | 1      | 2           |
|       | - 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | D                | 1               | 3.7                         | 219          | -            |        |             |
|       | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E                | 1               | 4.8                         | 223          | 1            | 30     | 45          |
|       | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | F                | 1               | 5.2                         | 247 .        |              |        | -           |
|       | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | G                | 1               | 3.0                         | 183          | e e e        |        | , <u></u> , |
|       | . 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H                | 2               | 4.5                         | 198          | 1            | 8      | 6           |
| July  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | J                | 2               | 3.3                         | 197          | 1            | 5      | 10          |
| Sept  | 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | K                | 2               | 5.9                         | 255          |              |        |             |
|       | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | L                | 2               | 4.6                         | 106          |              | ·      | _           |
|       | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M                | 2               | 5.9                         | 182          | ` . <b>1</b> | 1      | 4           |
| i     | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N                | 2               | 6.3                         | 295          |              |        |             |
|       | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ö                | 2&3             | 4.6                         | 205          | 1            | 4      | 9           |
| •     | a de la companya de l |                  |                 |                             | D. D. mark   |              |        |             |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                 | SUB.                        | Pa RTY       |              |        |             |
|       | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $^{-}\mathbf{L}$ | 3               | 1.0                         | 20           | -            |        | =           |
|       | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | M                | 3               | 3.2                         | 176          |              | •••    | -           |
|       | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N                | 3               | 4.0                         | 218          | -            |        |             |
| Total |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14               | 3               | 74.1                        | <b>33</b> 67 | 1            | 54     | 86          |

U. S. COAST AND GEODETIC SURVEY WASHINGTON, D. C.

5-VEC

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 15, 1917.

Division of Hydrography and Topography:

Division of Charts:

LIBRARY

Tidal reductions are approved in 4 volumes of Sounding records for

HYDROGRAPHIC SHEET 3935

Place with descriptive report of hydrographic sheet No. 3933

Drawing Section.

Ernest Sound, Alaska J.A.Daniels in 1916

Plane of reference is Mean lower low water, reading

2.9 ft.on tide staff at Lake Bay.

L. P. Shidy Acting Chief, Section of Tides and Currents.

Virification Report of Wyd. 3935

The plotting was highly satisfactory as no enous of the same were found. The tick nevision which changed the tide reduces affected the effection oughts as plotted in a great many ease. Is if was considered Steep as a mount for the value involved these sights were not changed or corrected in the smooth sheet. The final tracing a shows the corrected work.

All the shoots appear fully developed. The work about 1/4 mi. SXE of Brass is not men lived in the description of port. It was solled as recorded. On the shoot -5 ft lies and about a sounding of 21 ft. is also of the latter sounding plots was subsequent sweet by the day set at 47 ft. Evidently The 21 ft. is might see to weary angles; There is no note to this effect.

Is the dear length was unusely large or most of the work the depth sources were not devery a smooth course that I be accepted as laid down by the fild part.

Respectfully submitted Alors Bace Draftsme. Hy

#### ADDRESS THE DIRECTOR U.S. COAST AND GEODETIC SURVEY

AND REFER TO NO.

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 3935

Surveyed in 1916.

Chief of Party: J. A. Daniels

Surveyed by: J. A. Daniels and H. R. Bartlett. Instructions dated Feb. 26, 1916.

Protracted and inked by: R. C. Briggs, V. A. Egner.

Verified and Area and Depth Sheet by: A. Baer

- 1. The depth and extent of dragging satisfy the specific instructions except that an adequate junction was not effected with sheet 3913.
- 2. The least water was found on all shoals discovered.
- 3. The overlaps are sufficient.
- 4. There are no splits on this sheet. However, additional work should be done at the northern limit of this sheet in the vicinity of Watkins Pt. in order to effect a proper junction with the adjoining sheet. The drag should also be carried closer to the small island about 3 miles north of Vixen Pt. The area covered by this sheet cannot, therefore, be considered as completed. See note below.
- 5. The 21 foot spot shown on the smooth sheet, as dragged over by a 48 foot drag is probably 0. K. and the bight of the drag is probably in error, and should have been swung around a little to include the 21 foot sounding.

Reviewed by A. L. Shalowitz, October, 1922.

Hote:

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Subsequent to reviewing this sheet it was found that a small triangular split about 150 meters in extent was only partly covered by H-3793.