

3913

Diag. Cht..No. 8201-2

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. Office No. H-3913 W.D.

LOCALITY

State ALASKA

General locality SOUTHEAST ALASKA

Locality NORTHERN SECTION OF ERNEST SOUND

1916

CHIEF OF PARTY

L. O. Colbert

LIBRARY & ARCHIVES

DATE JANUARY 24, 1917.

B-1870-1 (1)

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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. 3913

State S.E. Alaska

General locality . Ernest Sound, west coast Deer Island

Locality . Southeastern Cove to Pt. Peters

Chief of party . L.O. Colbert

Surveyed by . . L.O. Colbert

Date of survey . Oct 6-7, 1916

Scale 1/20,000

Soundings in . . Fath.

Plane of reference . Mean Lower Low Water

Protracted by N.P.W. . . . Soundings in pencil by N.P.W.

Inked by . . . N.P.W. . . . Verified by A.L. Shelowitz
Lettered in pencil by A.J.

Records accompanying sheet (check those forwarded):

- Des. report, _____ Tide books, _____ Marigrams, 2* Boat sheets,
- 1 _____ Sounding books, 1 _____ Wire-drag books, _____ Photographs.
- Data from other sources affecting sheet

Remarks:
* Boat sheet forwarded later in separate cover

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

E. Lester Jones
Superintendent.

DESCRIPTIVE REPORT

to accompany

WIRE DRAG SHEET No. 3913)

of

NORTHERN SECTION of ERNEST SOUND, SOUTHEAST ALASKA

by

WIRE DRAG PARTY No. 4.

L.O.Colbert, Chief of Party.

1916

Scale 1 - 20,000

DESCRIPTIVE REPORT

to accompany

Wire Drag Sheet No. (10)

Northern Section of Ernest Sound, Southeast Alaska.

Limit of Sheet:

This sheet covers a wire drag survey of the main Channel of Ernest Sound lying on the west side of Deer Island, Starting just off Southeast Cove, Wrangell Island, following the west coast of Deer Island and including the channel between Niblack and Deer Islands. It ends with an effective drag strip of 1.3 miles off the west side of Point Peters, southern end of Deer Island.

Depth Dragged:

This area was covered with by a drag with an effective depth of 48 ft or more, except in the case of a shoal near the northern end of Deer Island.

Distance off shore:

Along the west coast of Deer Island, the drag was kept in most instances within 200 to 300 meters of the shore. Also in passing Niblack Island the drag was run from 150 to 300 meters from the shore. Since the area is broken up with small islands it was only possible, in the short time allowed for doing the work, to make one sweep of the drag, and in so doing it was impossible to take both ends of the drag near shore over the whole area.

Currents and their effect on the drag:

The tidal current over this area was too strong to run against its set with the drag. It was estimated to flow at a maximum rate of one and one half knots per hour.

Shoals:

In Ernest Sound a rocky shoal was located off the north end of Deer Island. This shoal is about 50 meters in diameter. The least depth found was 21 feet at mean lower low water, with deeper water in shore. There was no indication of kelp. From the shoal the extreme northern end of the shoal-bears Deer Island bears 150° (true) southeast by east a half east (mag), distant 300 meters.

A drag of 19 feet effective depth was dragged over this shoal.

Adjoining sheets connecting with this Survey:

The Wire Drag Survey of 1946 by Party No. 3 extended as far north as Point Peters. This survey and the survey covered by this sheet, do not overlap, though they come very close to joining.

Adjoining sheets connecting with this Survey:

Continued:-

Weather conditions at the close of the season prevented this the completion of this area as it was planned. On the north end of the sheet is a continuation of the sheet of the drag survey of Blake Channel by this party in 1916.

Conclusion:

This survey was made at a late date in the season, so time was only devoted to the more important portions of this area. In general it was attempted to spread out over as much area as possible with one sweep of the, and in following this plan the main ship channel on the west side of Deer Island was dragged from Point Peters to Southeast Cove. The channel was found free of dangers with the exception of the one shoal mentioned above.

STATISTICS OF SHEET No _____

<u>Day</u>	<u>No. Angles</u>	<u>No. Stat. Miles</u>	<u>No. Retained Soundings.</u>
A	126-	8.7	2
B	<u>224</u>	<u>13.6</u>	<u>2</u>
	350	22.3	2

Area in Square Statute Miles
15. sq. miles.

Approved

L. O. Robert.

Assistant, C. & G. Survey
Chief of Party

Joachim

Assistant, C. & G. Survey.
Compiler.

VEC
Sept. 19, 1917

HYDROGRAPHIC SHEET 3913.

Ernest Sound, Alaska, by L. O. Colbert in 1916.



BRARY

Place with descriptive report
of hydrographic sheet No. 3913

TIDES.

J.L.A.
Drawing Section.

Wrangell
Feet.

Mean lower low water, or plane of reference on staff	4.6
Mean range of tide	13.8

April 2, 1921.

To: The Chief of the Section of Field Records.

From: A. L. Shalwitz

Subject: Verification of Wire Drag Sheet #3913.

The records for this sheet were good except for the omission of the organization of party. This should have been included at the beginning of the volume regardless of the fact that the work was a continuation of another sheet in another volume. A practice that would have avoided some confusion would have been to number the end launch positions in the record where they did not correspond to the guide launch positions.

The smooth plotting was very good and the sheet was kept unusually clean. A few changes were made due to the changed correction for tide.

In constructing the Shaded Areas + Depth Diagram, the changes in depths due to tides between positions 31B and 53B were disregarded as it is apparent that the launches were merely manouvering to change ends. It would be very difficult to determine the trace of the drag at any tide change, when the launches are moving in opposite directions.

At 7B there is an overlap of but 20 meters. This is very small and is insufficient, but if the drift of the entire drag was to the northward as noted in the record then the area was sufficiently overlapped, but if only the guiding end was to the northward ~~then~~ as shown on the smooth sheet, then the overlap is not sufficient.

A. L. Shalwitz
H. J. Craftman.

8:08

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-MEM

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

SECTION OF FIELD RECORDS.

REPORT OF WIRE DRAG SHEET No. 3913.

Surveyed in 1916.

Chief of Party: L. O. Colbert.

Surveyed by L. O. Colbert, Instructions dated Feb. 26, 1916.

Protracted and inked by N. P. White.

Verified and Area and Depth Sheet by A. L. Shalowitz.

1. The extent of dragging satisfies the specific instructions.
2. The least water was found on all shoals discovered.
3. The overlaps are sufficient except in the one case as shown on the A. & D. sheet.
4. Within the geographic limits of this survey, the area has been covered by the drag operations and no further dragging will be necessary. See special diagram 8200 for limits of this survey.
5. Reviewed by A. L. Shalowitz, June, 1922.