

3989

U.S. SURVEY
& A.
1921
Acc. No.

945
545
3989
1917

Diag. CH. No. 8201-2

Form 504
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

State: *Alaska*

11-5013

DESCRIPTIVE REPORT.

Sheet No. *3989*

LOCALITY:
*Wangell
 Narrows*

1917

CHIEF OF PARTY:
A. Johnson

3989

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

Wire Drag Party No. 3

Sheet NO. "00"

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. **3989**

State . **Alaska**

General locality . **Wrangell Narrows**

Locality **North End Of Narrows**

Chief of party . . **A. Jeachims**

Surveyed by . . . **Wire Drag Party No. 3**

Date of survey . . **Durring Summer of 1917**

Scale **1/5,000**

Soundings in **Feet**

Plane of reference . . **3 feet below Mean Lower Low Water**

Protracted by . **J.L.B.** . . Soundings in pencil by . **J.L.B.**

Inked by . ~~J.L.B.~~ Verified by

Records accompanying sheet (check those forwarded):

Des. report, _____ Tide books, _____ Marigrams, _____ Boat sheets,

_____ Sounding books, _____ Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Tidal data.

Remarks: **The descriptive report has not been made out in a smooth copy and will be forwarded at a later date, along with the record of the work.**

A. Jeachims
Chief of Party

3989

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

E.Lester Jones, Superintendent

Hydrographic Survey of the Northern end of Wrangell Strait in
the vicinity of buoys, 17,24, and 19,26.

Season of 1917---Wire Drag Party No.3

A.Joachims, Chief of Party

Scale 1/5,000

DESCRIPTIVE REPORT OF HYDROGRAPHIC SURVEY IN NORTH END
WRANGELL STRAIT, S.E.ALASKA.

Wire Drag Party No.3, 1917

A.Joachims, Chief
of Party

Scale 1/5,000

In accordance with paragraph 4 of the Superintendent's supplemental Instructions, I have the honor to submit the following report on the hydrographic survey made in the vicinity of buoys 17 and 24 and buoys 19 and 26. This survey also includes a small amount of hydrography in the vicinity of the Cannery and Company docks at Petersburg.

Purpose of the Survey

A thorough examination of this area was necessary to ascertain whether any changes such as shoaling had taken place since the last survey in 1910. Such shoaling had been reported by Masters whose vessels had grounded here.

Controll of the Work near Buoys 24 and 17

The recovered triangulation stations No.4,5,6,and 7 which were established in 1910 were the principal controll of this work. Several additional points were established by cuts from the above mentioned stations, taken with a sexton. These were also used for Hydrographic work.

Hydrography near Buoys 24 and 17

A system of lines were run by allowing the launch to drift, keeping the lead on the bottom constantly by means of continuously raising and lowering it. In this manner 3 or 4 sounding were taken to every one that was recorded, the interval of recording soundings being one every 15 seconds. By this method a thorough investigation was made of the area in question, and it is not likely that any obstruction was missed.

While taking these soundings the person in charge checked the reading of the lead line and every precaution was used to avoid any errors in the work. The work consists of 3 days, B,C,and D. "A" day was rejected as the positions for this day were taken in the field and for lack of a boat sheet were not plotted until returning to the ship. Later when they were plotted, it was obvious that certain signals had been confused, for which reason it was thought best to do the work over.

The soundings were plotted in pencil on the smooth sheet and are referred to a plane 3 feet below mean lower low water. No material difference was found from the sounding as given on the sheet done in 1910 of this region. There were one or two exceptions where a slightly shoaler sounding was found as for example the 8 foot sounding which was found about 150 meters north of buoy 26. Also from 6 to 8 ' deeper water was found to exist on the bar at distant about $\frac{1}{4}$ mile SW of buoy 24.

Buoy 24 is given in two positions, one at time of flood and the other at ebb tide.

Hydrography Near Buoy 26 and 19

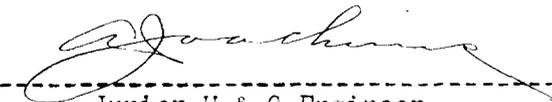
This hydrography was accomplished by the same methods as mentioned above. The controll consisted of triangulation Teke, the light on the east point at the entrance to the narrows, and the beacon just opposite this light.

No obstructions were found and the soundings checked those as given on the hydrographic done in 1910. The plane of reference was 3 feet below mean lowere low water.

To The
Superintendent,
Coast and Geodetic Survey

Compiled and Respectfully submitted

by



Junior H.&G.Engineer
Chief of Wire Drag Party No.3

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

REFER TO NO.

5-VEC

DEPARTMENT OF COMMERCE LIBRARY

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 12, 1918

J. S. J.
HYDROGRAPHY ETC., (HT)

CHARTS (10) ✓

Place with descriptive report
of hydrographic sheet No. *3989*

6
Drawing Section.

Division of Hydrography and Topography: *HCS*

Division of Charts:

Tidal reductions have been approved in
1 volume of Soundings for

HYDROGRAPHIC SHEET 3989

Wrangell Strait, Alaska
A. Joachims in 1917

Plane of reference is

3.0 ft. below mean lower low water, reading
4.5 " on tide staff at Petersburg, Alaska.

L. P. Slidy

Acting Chief, Section of
Tides and Currents.