

3993

U. S. SURVEY
L. S. A.
No. 1917

945
546
3993
1917

Diag. Ch't. No. 8201-2

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

State: *St. Alaska*

11-5613

DESCRIPTIVE REPORT.

Hydro Sheet No. **3993**

LOCALITY:

French Sound
Alaska. Near
Cape Farshaw

1917

CHIEF OF PARTY:
A. Joachims

3993

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

Sheet No 3, Wire Drag

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. **3993**

State . **SE Alaska**

General locality . . **Frederick Sound**

Locality **Vicinity of Cape Fanshaw**

Chief of party **A. Joachims**

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

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

Scale **1/20,000**

Soundings in . . . **In. Feet**

Plane of reference . **Mean lower low water**

Protracted by **W.D.P.** . . Soundings in pencil by **W.D.P.**

Inked by . . . **W.D.P.** . . . Verified by *[Signature]*

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 :

Remarks: The descriptive report for this sheet has not been completed and will be forwarded at a later date. The records and boat sheet will be forwarded on a separate mail

DEPARTMENT OF COMMERCE
U.S.COAST AND GEODETIC SURVEY
E.Lester Jones, Superintendent.

DESCRIPTIVE REPORT OF WIRE DRAG SHEET NO.+3 **3993**
FREDERICK SOUND, SE ALASKA, NEAR CAPE FANSHAW

Surveyed by WIRE DRAG PARTY NO.3, A.Joachims, Chief of Party

Season of 1917

Scale 1/20,000

DESCRIPTIVE REPORT OF WIRE DRAG SHEET NO.+3 3993

Frederick Sound SE. Alaska

Vivinity of Cape Fanshaw

Surveyed by Wire Drag Party No.3

A. Joachims, Chief of Party

Season 1917

1/20,000

Limits of Sheet

This survey is a wire drag examination of that portion of Frederick Sound which lies in the vicinity of Cape Fanshaw within the following limits:-on the west it is bounded by a north and south line about 1 mile east of Turnabout Island and Round Rock, on the north by a line between the latter rock and Cape Fanshaw, on the east by the western limits of sheet No.2 where it overlaps or continues onto sheet No.3, and on the South by the shoreline of Kupreanof Island.

Effective Depth Dragged

Throughout the sheet 80 feet or over was dragged with the exception of the inshore work near Cape Fanshaw and along the shore of Kupreanof Island, where a shoaler hook up was necessary.

Unfinished area on sheet

After the smooth sheet was plotted 3 small splits developed on this sheet, two of which were case where the two days instead of overlapping came tangent to each other. These two were at 28-29H day and 28-29 J day respectively. The other one which is at 23-24F day was known about on the boat sheet, however the sudden call of the Party from the field in the early Fall made it necessary to leave this split.

For the same reason the inshore work off Kupreanof Island was not completed.

Shoals

No important shoals were found while examining this area.

Conclusion

The seasons report have taken into account the Coast pilot notes pertaining to this region and also current information was obtained from observations taken at a station within this area, the results of which will be forwarded separately.

STATISTICS of this sheet will be found on attached page.

Submitted by

A handwritten signature in cursive script, appearing to read "J. A. ...", written over a horizontal dashed line.

Chief of Wire Drag Party No.3

STATISTICS OF WIRE DRAG SHEET NO.3 3993

Day	No.Miles linear	No.angles	No.retained sound.
A	3.8	197	
B	4.2	206	
C	2.8	146	
D	1.4	99	
E	4.8	317	
F	9.3	344	
G	6.4	352	
H	9.6	344	
J	10.2	345	
K	4.9	265	
L	6.5	440	
M	7.4	243	1
N	8.0	463	
O	9.3	367	
P	9.7	460	
Q	4.4	176	
R	6.9	202	
S	5.5	216	

Area in Sq Stat. Miles:- 113.2

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



HYDROGRAPHY ETC., (HT) *ML*

REFER TO NO.

5-VFC

DEPARTMENT OF COMMERCE LIBRARY

U. S. COAST AND GEODETIC SURVEY
WASHINGTON

Place with descriptive report
of hydrographic sheet No. 3993

April 29, 1918.

Drawing Section. *8*

Chief, Division of Hydro. & Topog.: *HCS*

~~FIELD WORK (H)~~

Chief, Division of Charts:

Tidal reductions have been approved in
4 volumes of Wire Drag and Sounding records

HYDROGRAPHIC SHEET 3993

Frederick Sound, Alaska,
A. Joachims in 1917.

Plane of reference is
Mean lower low water, reading

7.5 ft. on staff at Petersburg, Alaska.

E. P. Study

Acting Chief, Section of
Tides and Currents.

Hyd. Sheet No. 3993

Wire Drag Survey

Throughout this work, a wide drag with double control was used. The drag was well handled and the ground within the limits of the work well covered. Only two small spots were found where there was practically no overlap and one small split between the limits of this sheet and the adjoining sheet, ~~Hyd. 3974~~.

After the sheet had been plotted and inked by the field party, the tide reducers were revised by the Tidal Div. This had the effect of changing the effective depths a foot or two and shifting the ~~the~~ position of nearly all the tide curves. A new set of curves showing the change in tide every fifth foot for depths over fifty feet and every foot for depths under fifty feet, was plotted in pencil on the sheet and used in compiling the Area and Depth tracing. Thus depths from eighty to eighty four feet inclusive would appear on the A. and D. tracing as eighty feet and from eighty five to eighty nine as eighty five feet, and so on.

The drag records for this work are clear and very well kept.

R. L. Johnston

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 9-DRM

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

SECTION OF FIELD RECORDS

REPORT OF WIRE DRAG SHEET No. 3993

Surveyed in 1917.

Chief of Party: A. Joachims

Surveyed by: Wire drag Party No. 3. Instructions dated Mar. 24, 1917

Protracted and Inked by W. D. Patterson

Verified and Area and Depth Sheet by R. L. Johnston

1. The depth of dragging satisfies the specific instructions. The drag should have been carried further inshore on the Kupreanof Island side so as to roughly outline the 5 fathom curve, and also further westward toward Turnabout Island, as called for in the instructions. See descriptive report.
2. The least water was found on all shoals discovered.
3. The overlaps are sufficient except as shown on the Area and Depth sheet.
4. There is a very small split at the junction of this sheet and 3994. This is too insignificant and does not warrant any additional work. However, when opportunity affords, the area bordering on Kupreanof Island should be dragged as outlined in the instructions. The work should also be extended westward to Turnabout Island. This sheet can, therefore, be considered as complete only in so far as the main ship channel for steamers going north is concerned.
5. Reviewed by A. L. Shalowitz, August, 1922.