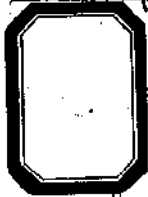


4254

Diag. Chf. 8201-3



Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY & A.
State: *Alaska*
FEB 15 1920
Acc. No.
11-5613

DESCRIPTIVE REPORT.

Hydro Sheet No. *4254*

LOCALITY:

Zinnovia Strait

Zinnovia Strait

Narrows

1922

CHIEF OF PARTY:

A. M. Sobiesalski

4254

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

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET "F"

Scale Zimovia Strait 1:10,000

—ooOoo—

Season of 1922

Steamer WENONAH

A. M. Sobieralski, H. & G. E., Chief of Party.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

E. Lester Jones, Director.

D E S C R I P T I V E R E P O R T

to accompany

HYDROGRAPHIC SHEET "F"

Zimovia Strait

Scale 1:10,000

-----ooOoo-----

Season of 1922

Steamer WENONAH

A. M. Sobierski, H. & G. E., Chief of Party.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET "T"

Zimovia Strait

Scale 1:10,000

-----0000-----

This is a 1:10,000 projection showing development in Zimovia Strait from $2\frac{1}{2}$ miles south of the narrows to Turn Island. The work was started in September and completed in October, using steam launches Delta and "117".

GENERAL DESCRIPTION:

Zimovia Strait separates Wrangell Island on the north-east from Etolin Island on the southwest and joins Ernest Sound with eastern end of Summer Strait. It furnishes the shorter and more protected route to Wrangell and northern points. In the vicinity of the narrows and village Islands the channels are shoal and intricate, but these have been buoyed by the Lighthouse Service. The least channel depth is 2 fathoms at M.L.L.W. The shores of the strait are flat and densely wooded with many off lying shoals.

The narrows in Zimovia strait are 650 meters wide and lie 8 miles N.W. of Found Island. A reef makes east for 50 meters from S.E. point of narrows.

Turn Island is 250 meters off the east shore, 8 miles south of Chichagof Pass, can be rounded with 10 fathoms at 100 meters.

A series of ragged lagoons open on the N.E. shore 2 miles south of the narrows (Being just above the northern limit of Sheet "B"). These lagoons are foul with rocks and reefs.

Numerous islands extend one mile north of these lagoons along the N.E. shore. The water is foul for 250 meters off these islands until well up abreast of the larger island. There is deep water (10 fathoms) behind, or N.E. of this larger island. A group of rocks bare at half tide 270 meters N.E. of the N.E. point of this largest island. Channels between this larger island and two small irregular shaped islands north of it are foul and dry at extreme low water. East of the S.E. point of this larger island the water is all foul, tho a passage south for small boats can be made by keeping 50 meters off this S. E. point.

Dangerous rocks marked by a black can buoy lie 470 meters west (true) of the west point of the first and most westerly of the group of islands $\frac{2}{3}$ mile S.E. of the narrows. More rocks and shoal

lie to the southwest. The channel is between the buoy and the island. Favor the buoy, as reefs make out 125 meters S.W. of the S.W. point of this island.

Current makes N.W. at ebb tide in this vicinity.

A small round island lies 200 meters off shore, 1/3 mile east of the narrows. Shoal extends N.E. to shore.

A bay, or cove, having the shape of a whale tail, opens 1/4 mile S.W. of south point of the narrows. The entrance is 130 meters wide trending westerly for 1/3 mile to where it opens N.W. and S. E. into a bay 300 meters wide and 3/4 mile long. The minimum depth in mid-channel - entering bay is feet at M.L.W. and strong currents run with the tides. The N.W. half of bay dries well up to the small H.W. island near its center. The southeast end of bay carries 3 - 9 fathoms at M. L. L. W. shoaling in south end where a small lagoon opens to S.E. The south end of this bay furnishes good shelter for small craft.

Two islands lie 1/2 mile above ^{with point} or N.W. of the narrows. A rock bares at half tide, 250 meters ~~west~~ of the south point of the south island. The water between the islands is foul and covered with kelp. A black can buoy sets 200 meters ~~S.N.E.~~ ^{S.N.E.?} of the smaller or north island. This buoy marks a shoal lying 180 meters south and east of the island.

Village Point, on north shore, 1-1/3 miles W.N.W. of narrows, is a low clear point with a dense growth of weeds, and is marked by a shack and the totem poles of an old indian village. A shoal makes out 75 meters S.W. from the point.

A rock marked by H.S. buoy lies 1/3 mile S.E. of Village Point. This buoy was 150 meters N. 75° W. (true) from rock in September 1922. Favor northward from buoy.

Two rocks lie 100 meters off shore, 2/3 mile S.E. of Village Point. A white barrel on spindle marks the western one.

The Village Islands lie about midway of Zimovia Strait, west of Village Point and 2 miles W.N.W. of the narrows. They are connected by reefs and shoals, and the waters about their shores are foul. A series of bare rocky islets, shoals, and reefs, make 2/3 mile S.W. from the two larger islands of this group. The southeastern island of the group lies 2/5 mile S.S.W. of Village Point. Reefs make out for 150 meters around this island. The south shore along Etolin Island is foul and shoal for 2/5 mile out from this island to the island 1/2 mile west of the narrows.

Olive Cove opens into Etolin Island, opposite Village Islands, 2 1/2 miles west from the narrows. With an average width of 400 meters it runs S.S.W. for 4/5 mile. The cove dries to within 250 meters of the entrance and small craft should pick anchorage with care. A

large salmon stream makes into the head of the cove, and there are two houses on the west side near head of cove. Another house stands just inside the N.W. tangent of the cove. The west shore along Etolin Island from Olive Cove to Anita Bay will carry clear 10 fathoms water at 250 meters out.

A reef and shoal makes N.N.W. for 270 meters from the north point of the most westerly of the Village Islands.

Two dangerous rocks, unmarked, bare at low water, 825 meters N. 21° W. (true) from the north point of the most westerly of Village Islands.

A long shoal makes 270 meters, S.S.W. from the low weed-covered point on Wrangell Island, $\frac{1}{2}$ mile north of the head of the Village Islands. This point has a group of prominent spruce trees. A rock marked by a red barrel on spindle, lies 320 meters off shore opposite the Village Islands between this and Village point. The cove $\frac{1}{2}$ mile north of this point dries.

ANCHORAGE. The WENONAH found good anchorage in 12 fathoms mud and sand, 260 meters N.E. of the mouth of Olive Cove. She also anchored in 15 fathoms north of the islands $\frac{3}{4}$ miles S.S.W. of the narrows.

GENERAL:

Zimovia Strait was wire dragged from opposite Olive Cove to Wrangell. A number of soundings for chart information were taken over this dragged area.

The buoyed channel is run about as follows: Running for Wrangell clear the black can buoy $\frac{1}{2}$ mile S.E. of narrows, close on port hand; thence N. 46° W. (true) $1\frac{1}{4}$ miles to clear 75 meters on port hand the buoy 150 meters east of small island; thence N. 81 $\frac{1}{2}$ ° W. (true) for $\frac{3}{4}$ mile to clear buoy S.S.E. of Village Point, 75 meters on port hand. (Have due regard for white spindle marking off shore rock, which should be passed at 50 meters starboard hand on this course); thence N. 50° W. (true) 1 mile to clear red barrel on spindle (marking rock) 130 meters on starboard hand; thence a true course of N. 59° W. (true) for 1 mile will clear all dangers, or if continued for 2 miles will bring you 800 meters off Turn Island on the starboard hand.

Respectfully submitted,



W. T. COMBS, Jr. H. & G. E.,
Hydrographer.

F

STATISTICS SHEET No. _____

Date, 1922	Letter	Volume	Positions	Soundings	Miles Statute	Vessels
Sept. 9	a	1	59	193	8.0	Lch. 117
11	b	1	121	465	20.5	" "
12	c	1 & 2	116	455	20.0	" "
13	d	2	95	344	18.6	" "
14	e	2 & 3	129	405	21.8	" "
20	f	3	78	234	14.4	" "
21	g	3	76	253	13.2	" "
15	a	1	114	354	21.0	Lch. Delta
16	b	1	90	278	14.8	" "
18	c	2	112	317	20.0	" "
19	d	2	4	8	0.5	" "
26	e	2 & 3	127	340	23.0	" "
27	f	3	78	169	18.5	" "
28	g	3	10	28	1.9	" "
Totals			1209	3793	216.4	

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON May 24, 1923.

SECTION OF FIELD RECORDS.

Report on Hydrographic Sheet No. 4254.

Surveyed in 1922

Instructions dated Feb. 18, 1922.

Chief of Party, A. M. Sobieralski.

Surveyed by W. T. Combs.

Protracted and soundings plotted by W. C. Aegerter.

Verified and inked by J. D. Torrey.

1. The records conform to the requirements of the General Instructions except that the boats' courses are omitted throughout and also bottom characteristics to a considerable extent.
2. The plan and character of development fulfill the requirements of the General Instructions except that there are no cross lines. It would seem that these might have been done while proceeding to and from the working ground.
3. The plan and extent of development satisfy the specific instructions.
4. In view of the very uneven character of the bottom the sounding line crossings may be considered adequate.
5. The information is sufficient for drawing the usual depth curves.
6. The field plotting was completed to the extent prescribed in the General Instructions and is subject to the criticism that the sounding figures are too large and the pencil used too hard.
7. The office draftsman did not have to do over any of the field drafting.

H. 4254 - 2

8. The junctions with adjacent sheets are satisfactory.
9. No further surveying is required within the limits of the sheet. It should be noted, however, that the wire drag survey does not extend below the northern end of Village Islands.
10. The character and scope of the surveying and the field drafting are good.
11. Reviewed by E. P. Ellis, May, 1923.

C. H. C.

COPY TO FIELD RECORDS

April 12, 1925.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
volumes of sounding records for

HYDROGRAPHIC SHEET

Locality:

4254

Kinavia Strait, S. E. Alaska

Chief of Party:

Plane of reference **As at Sahlavakki in 1922**

ft. on tide staff **taken lower low water, reading
Olive Cove, Kinavia Strait.**

3.4

For reduction of soundings, 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 each 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.

Harriman
Chief, Division of Tides and Currents.

Hydrographic Sheet No. 4254
Gimovia Strait: "S.E. Alaska"

The area surveyed and shown on this sheet is well and closely sounded and appears to develop all rocks, shoals and other danger spots. No further work appears necessary.

The sheet was developed from projection up to and including pencil soundings by the Field Party. There was nothing to indicate verification of projection and the Lat. and Longt of one Triangulation Station not given as called for in Sec 319^a General Instructions. Plotting good but plotting not up to standard. Position pricked points unnecessarily large and also position numbers and letters. Sounding figures also unnecessarily large and too hard penciled.

Records in fairly good condition but no Vessel's head by Compass not recorded and but few bottom characteristics given.

Position of tide gauge not on sheet but title sheet locates it at Olino Cove.

No cross lines run

John D. Torrey
4/27/23.

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. CF 4254

State S. E. Alaska.

General locality . . . Zimovia Strait.

Locality Zimovia Strait Narrows,

Chief of party A. M. Sobieralski, H. & G. E.

Surveyed by W. T. Combe, Jr. H. & G. E.

Date of survey Sept. 1922

Scale 1 : 10,000

Soundings in Fathoms

Plane of reference M. L. L. W.

Protracted by W. C. Aegerter Soundings in pencil by W. G. A.

Inked by J. D. Torrey Verified by J. D. Torrey

Records accompanying sheet (check those forwarded):

Des. report, Tide books, Marigrams, 1 Boat sheets,

6 Sounding books, Wire-drag books, Photographs.

Data from other sources affecting sheet

Remarks: Tide reducers for this sheet obtained from tide staff at Olive Cove.
Plane of reference 3.35 ft. on Staff.
Highest tide observed, Sept. 23, 24.9 " " "
Lowest tide observed, Sept, 21, 0.9 " " "

8-5-59 Comp. appl to chattel & unit for cat 8161 CW JRD