See Topo.2746a Diag. Cht. No. 8201-2

Also see Topographic Dec. Report 2746a

Department of Commerce and Cabor COAST AND GEODETIC SURVEY E. Lester Jones
Superintendent. State: ALASKA DESCRIPTIVE REPORT. Sheet No. LOCALITY: Zimovia Strait Central Section 1906 C.G. Quillian

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.

Data from other sources affecting sheet

Remarks:

Descriptive Report To Accompany Hydrographic Sheet #3939

Zimovia Strait, Central Section.

Extent. This sheet comprises the hydrography of Zimovia Strait from about two miles NW of to about three miles SE of the Deserted Village. This includes the most narrow and most shoal part of the strait.

Control. A scheme of triangulation with mostly complete quadrilaterals was carried up the strait and as the stations necessarily had to be close together there are many of them in this area and the control is good. A plane table survey was carried far enough to give the shore line along the main part of the channel.

The hydrography done in this area is mostly through the best parts of the channel, the inshore parts not being surveyed. So the work is practically a reconnoisance to develope a possible safe route through this part of the strait. The work was done with the launch Delta. Mr. Bussell was in charge.

Appearance of Shore and Landmarks. The general appearance of the shore at this part of the channel is low heavily wooded hills with high mountains. in the near background. All the islands except the very small ones are wooded. There are so many islands that a person making the first trip thru the channel is apt to mistake some of them in trying to interpret their location on a chart. The best island landmark is the one a quarter of a mile south of signal But and a third of a mile east of triangulation Tide. The NE third, as vieted from the SE or NW, is almost cleared on account of the trees being either cut or burned off. The rest of the island is covered with large trees. The cleared space is very prominent. Off of A Ice are some prominent piles, formerly a fish trap, extending almost to the shoal near mid-ckannel. These serve as anaid in clearing the shoal.

Dangers. A shoal of 60 meters extent and bareing 6 ft on the east side at M.L.L.W. lies 770 meters N65°W of Δ Colt. This shoal should be left on the port side in going NW. If the fish trap south of the shoal should ever be removed a mark of some kind should be placed on the shoal as it is in a location which makes would make it very dangerous without a mark. South 70° east of But 230 meters is a large shoal indicated on the smooth sheet. As I did not do the hydrography I can not say at just what stage of tide it bares but I believe it bares at about half tide and the area shown blank on the smooth sheet north of the shoal is quite shoal and rocky. Eighty to 90 meters off shore between Δ Jig and Θ Awl are two rocks which bare at low water. In mid-channel between Δ Jig and Θ Ave is a bad rock which bares 3 feet at M.L.L.W. During the kelp season there is kelp over it but the surrounding area is also covered with the same growth and that over the shoal does not serve in locating the danger.

Sailing Directions .- In coming from the south pass 140 meters off A Colt. This will bring the point at A Carl and the right tangent of the large island south of & But in range. Then head for 100 meters to the left of the left tangent of the point at @ Pil until the island 700 meters SE of Pil is abeam. Then head for apparently half way between \triangle Lute and \oslash But. Local boats keep closer to A Colt than what I have given but as the hydrography is not completed off the island NW of A Colt it is not certain as to what water would be found there. These boats run a single course from off A Colt to a point midway between Button Island and the shore 200 meters NW of A Lute. I was told that a knob on the mountain slope back of A Village aids in making this course but as I did not do the hydrography I can not give any definite information about this range. While running the last mentioned course, as soon as the island on which o Ave. is located is opened up on the north side of Button Island change course to pass about 75 meters off the later island, heading east true. When half way between button Island and A Jig pick up the range, south tangent of Button Island and north tangent of island 700 meters SE of O Pil, and run this range to abeam A Village. This will clear the shoal in midchannel..It is a range I used at a time when the shoal was bare. Then make a course to pass about 100 meters off the small prominent island which is the most NE'ly of the Village Island group. In returning SE head for the left tangent of the large island south of Button Island until the two-island range mentioned above is made, Then continue back over the courses mentioned in the first of this paragraph. In running the course from off & Lute to & Colt it would be very helpful to be able to use a range over A Colt and run direct for it until beyond the shoal off the fish trap. But, as previously stated, the hydrography is not carried far enough to say whether this course would be advisable or not.

Respectfully submitted,

Asst., C. and G. Survey.

Postreifet.

This investigation indicates that four fathous and possibly a little more, can be coming three there islands by following the courses to the contlivered of the courter jum about 700 makers Wx N. of Dullow 3d. This channel is more crooked than the one given by hu. Reese, which is the one wed by local worsels.

"Dullow 3 classed" is a name given to that island by a field officer to prevent confession. ho local name woo held for any of these islands, individual Possersel aid, explainer.

Statistics To Accompany Hydrographic Sheet # ______
Zimovia Strait, Central Section.

Bate	1916	Letter	Vol.	Positions	Soundings	Miles Statute	Vessel
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tf	12	_ <u>c</u>	1	31	112	2.5	Ħ
		3	1	239	804	32.8	

J.S.S.J

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

REFER TO NO

5-LAC

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

September 27, 1917.

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in l volume of sounding record for

HYDROGRAPHIC SHEET 3939.

Zimovia Strait, S. E. Alaska, C. G. Quillian in 1916.

Plane of reference is Mean lower low water, reading 2.3 ft. on tide staff at Olive Cove.

> Acting Chief, Section of Tides and Currents.

Hyd. Sheet 3939.

this survey is practically a recommoisance to develop a possible safe norte through the Central section of Junioria Strait, and as such it is very good.

The crossings are good and the rende are well kept. The crossings are good and the rende are well kept. The most southerly shoot (N.W. of & Coll) which is a first trap which is very languous one, is marked only by a fish trap which is very languous one, is marked only by a fish trap which is very languous one, is marked only by a fish trap which is very languous one, is marked only by a fish trap which is went location in the sage words, but no location in it is given.

S. L. Rosenberg, april 14, 1919.

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