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Form 501

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: \_\_\_\_\_

11-5813

DESCRIPTIVE REPORT.

*Top.* Sheet No. *3620.*

LOCALITY:

191

CHIEF OF PARTY:

*C. G. A.*

## DESCRIPTIVE REPORT

Topographic Sheet No. 3620

Showing sketch contours along shores of Revillagigedo Channell, and of Annette Island,

Scale 1 - 80 000.

Area covered approximately same as that of Chart No 8075.

An attempt was made to supplement the 1-20 000 topographic sheets on which the shore line was surveyed and somewhat complete the sketch of hills bordering the shore line so that the, at present, unsatisfactory delineation of mountains on Chart 8075 might be more complete.

Where possible the 500 feet contours were transferred from the topographic sheets of 1914 and 1915 to this sheet and used as basis for sketching. On Annette Island these contours were connected until the present sheet shows a fairly true picture of the elevations of Annette Island. Likewise the 500 feet contours on the topographic sheets covering the shore line of the peninsulas between Carroll Inlet and Thorn Arm, and between Thorn Arm and Behm Canal were transferred and contours extended some distance beyond the limits of those sheets. Along the mainland shore south of Behm Canal everything shown was sketched from a distance after locating the summits by cuts.

In detail the country is described below.

DUKE ISLAND, Mt Lazaro at the southern end is the conspicuous elevation of this island (1478).

Duke Hill not shown on the sheet is also conspicuous, elevation about 500 feet

There are several low knolls on Duke Island as shown. The entire island is densely wooded even to the summit of Mt Lazaro, and the 100 and 200 feet contours cannot be sketched with any degree of truth. Grave Hill immediately back of Grave Point is shown on the 1-10 000 topographic sheet of Pond Bay.

MARY ISLAND is low and densely wooded. The highest point is a low knoll in center with elevation of 266 feet to tree tops. The 200 foot contour is probably in this vicinity, the 100 foot curve is very uncertain.

ANNETTE ISLAND contour interval on Annette Island 500 feet only excepting that the 1,2,3,4, hundred foot contours are dotted at head of Tangas Lake. The greater part of these contours were transferred to this sheet from the topographic sheets of 1914 and 1915 and broken ends connected and the few peaks off the topographic sheets added.

The summits of Mt Tangas, Purple Mt, Leadville Mt, Yellow Hill, the low hill between Trout and Melanson Lakes are bare. Mt Davison is densely wooded nearly to the surface as are the hills south of Purple Lake. The hills north of Trout Lake on the Nichols Passage side are all densely wooded to and including Anvil Mt. Those hills along the shore of Felice Strait are also densely wooded to the 1500 to 2000 foot line and more sparsely above those elevations. The higher hills in center of Island are more sparsely wooded toward the summits.

The sketch of Tangas Lake was made from notes on a Sunday trip to its head supplemented by sketches and photographs from summit of Mt Tangas. See Seasons report C.G. Quillian 1915 for photographs.

Purple Lake was transferred from 1914 topo. sheet on which it was sketched from the ridge east of Tangas Harbor and from photographs from summit of Purple Mountain.

Chester Melanson, Edgecombe and Trout Lakes were sketched by Aid Karr on 1914 topographic sheet from hills in vicinity and controlled from plane table cuts. The upper end of Trout Lake was sketched from the top of the 2120 ft hill to eastward and the junction of the two sections of the lake is uncertain.

Cascade Lake was sketched from same hill and from photo.

There is evidently a lake of considerable size on the northern part of the island. A large twin stream enters northwest of Hassler Harbor and is believed to drain the lake. Opportunity did not present itself to visit this lake.

SOUTH of BOCA DE QUADRA. Contour interval 500 feet only and dotted the summits were located by cuts and sketched from two stations only; viz Lane and Mary Island L.H.

From BEHM CANAL TO BOCA DE QUADRA. Contour interval 100 ft sketched from Lane, Mary Island L.H. and Hog Rocks. North Quadra Mt is possibly shown better on one of the topographic sheets by party of Assistant Daniels in 1915.

The sketched contours give a fair idea as to the general appearance of the coast ridge. Other hills are further inland but the cuts were not definite enough to justify sketching. There are also numerous other hills along the shores of Boca de Quadra beyond those shown and also along the shores of Behm Canal.

BEHM CANAL TO THORN ARM The 500 ft curves of the lower hills were transferred from the 1-20 000 topographic sheet. The 1970 foot hill on south side Thorn Arm is well sketched, the other hills are not so certain and the eastern part of Alava Ridge (Chart 8075) was not obtained being behind Mound hill.

CARROLL INLET to THORN ARM. Black Mountain was transferred from the 1-20 000 topo. sheet. The remaining ridges and hills cut in. Both shores of Carroll Inlet and Thorn Arm are bold and mountainous as far as I could see but further control will be necessary to get suitable data to furnish further contours.

NORTH of CARROLL INLET Contour interval 500 feet. These contours on the point of Revillagigedo Island between Carroll Inlet and Tongass Narrows were sketched to permit joining with work by Assistant Maupin of Captain R.B. Derickson's party of 1912 and particularly to indicate the valley containing the ~~source~~ source of the power plant of the NEW ENGLAND FISH CO. I visited only the lower end of the lake and the sketch follows the hollows of the hill.

In sketching this sheet a large number of the hills on Annette Island and general trend of contours were checked. The following points were occupied with the plane table: Net, Cutter Rocks, Spire Island, Reef, Harbor, Thorn, Saw, North end Walker Island, Hog Rocks, Lane, Mary Island L.H.

Photographs with Topographic Camera No 11 were taken at Cutter Rocks, Spire, Hog Rocks, Harbor, Mary Island L.H., Lane, and Snipe. The plates were developed, no prints made, and saved. The plates were forwarded to the Superintendent in November 1915 by express.

I did not have opportunity to work up these plates. The plates are labeled and a good deal of further information can be obtained from them. The focal length of Camera No 11 is probably the same as of Camera No 1. The focal length of Camera No 1 is 0.151 meters.

In utilizing the information on this sheet please consider, the projection was excellent, all stations used excepting two were triangulation stations and strong three point fixes at others. The orienting lines were, of necessity, short as compared with the length of most of cuts, that the hills were frequently covered by clouds or partly cloudy, it was expected to get much data from the photographs. Also this work was executed only at such times as it would not delay or interfere with the regular plane table parties and there were long intervals between occupying stations and the consequent difficulty of identification of peaks which were not very different, and sketches were of hills distant 5 to 20 miles.

Respectfully Submitted,

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