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FORM 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: J. E. Ulaska
DESCRIPTIVE REPORT.
John Sheet No. 3690
LOCALITY:
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CHIEF OF PARTY:

U.S. COAST AND GEODETIC SURVEY.

DEPARTMENT OF COMMERCE

E. Lester Jones, Superintendent.

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DESCRIPTIVE REPORT

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Topographic Survey 3690

Of Cape Fanshaw and Vicinity.

Frederick Sound, S.E.Alaska.

Compiled by

George L. Bean, Aid.

Nov. 6, 1917.

WIRE DRAG PARTY No.3

A. Joachims, Chief of Party.

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Plane Table Survey of Cape Fanshaw and Vicinity.

Sheet "F" S.E. Alaska.

Wire prag Party No.3 July 1917. A. Joachims, Chief of Party.

Survey by A.L. Shalowitz, Aid.

Introductory notes.

This survey which was on a 20,000 scale, was made principally during the month of July. The south end of Storm Island was not completed due to continued rain and the necessity to take up other work.

Limits of the sheet

on the south shore of Frederick Sound, this sheet starts about three and one-half miles west of Portage Island, at the vestern limit of sheet "E", and continues westward to a point about one and one-half miles west of triangulation station Flat.

On the north shore of Frederick Sound it starts at the western limit of Sheet "E" and continues westward to Cape Fanshaw, and then north to Mc Nairy Point.

It also includes Whitney Island and the north half of Storm Island.

Control of sheet.

The control of t this sheet is based upon a triangulation scheme including the stations Fan, High, Shore, Flat, and Bill Point. With these stations well distributed over the sheet very good control was obtained and the work checked at all points. A number of topographic signals were used, including Storm, Rat, Pass, Creek, Front, So, Bit and Oak.

Method.

In surveying the south shore of Frederick Sound traversing was made use of in the main. The traverse was checked at stations Shore and Flat and by resections upon High and Fan.

On the north shore of the sound the same method was employed. From Cape Fanshaw a traverse was run to Mc Nairy Point and checked by tying to Bill Point.

Whitney and Storm Islands were done by traversing.

Nature of shoreline.

On the south shore of the Sound the shore line is low with wide sand and gravel beaches. Here and there outcroping ledges and large boulders are found. Much of the way a short stretch of grass separates the high water line from the tree line.

On the north shore, from he eastern limit of the sheet to station High the shoreline is bold. Steep shores and rocky beaches are encountered except at the mouths of streams, where low sand beaches occur. From Point Highland west to Cape Fanshaw the points are bold with boulder beaches while the bays have low sand and gravel shores.

From Cape Fanshaw to Point Mc Nairy a bold shore line is found most of the way. At intervals sand beaches are found but ragged ledges and boulder beaches predominate. The tree line comes to the high water line.

Whitney and Storm Islands are bounded by steep rocky shores. Practically no low beaches are found.

The rocks in the vicinity of this sheet are mainly slate and granite, of a very hard nature. Some trap rock is found and here and there small deposites of quartz occur.

Flora.

Fir and yellow cedar trees form the greater part of the vegetation. In most localities a dense tangle of undergrowth is found, consisting of berry bushes, alder, devil's club and ferns.

On the Mitkof Island side the land is low and cut up by small meadows covered with swamp grass and small stunted trees.

General resources.

A great deal of lumber, consisting of medium sized fir and cedar is found. This lumber is used principally for piling and rough building purposes.

The principal industry in this vicinity is salmon fishing. Hany salmon are caught in the locality of Cape Fanshaw and on the south side of the gound.

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Coast pilot.

Three small rocks are located 100 meters offshore at the eastern limit of the sheet on the north. These rocks are awash, at half title. A dangerous reef extends out into the small bay located about one -fourth mile west of triangulation station High. It is awash at half tide and marked by kelp.

A reef extends about 100 meters off Cape panchaw. A reef extends about three hundred meters offthe west side of the south end of Cleveland Passage. This is marked by kelp and awash at low tide.

A reef with several bad rocks are found on the north end of Whitney Island, and a reef and several rocks are located off the north end of Storm Island. One of these rocks which is about 400 meters offshore, is marked by kelp and awash at half tide.

On the south from triangulation station Shore to the western limit of the sheet, kelp is found in thick patches from 50 to 200 meters offshore.

Small patches of kelp are found all along the north shore of the Sound, Cleveland Passage and around Whitney Island.

A secure anchorage for boats up to 100 tons is found in Cleveland Passage near the south entrance.

Conclusion.

The south end of Storm Island and Bird Rocks were left undone due to bad weather and the sudden termination of the season.

Approved by,

Junior Hyd, & Geodetic Engr. Chief of Wire Drag Party No.3 Compiled by

Aid, C.& G. Survey.

Topographic Stations on Sheet"F" 3690

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Statistics.

Miles of shore line: 35.3

Area: 39 square miles.

Miles of creeks: 1.1

Sheet 'F".

S.E. Alaska

Wire Drag Party Nº3. July 1917. A. Joachims. Chief of Party Survey by A.L. Shalowitz, Aid.

Introductory Motes:

This purvey made on a 20,000 peals was done prinipally at odd times while running to and from the working ground. So the work while actually begun in July continued while late in Suptember the work in Cleveland Bassage and around whitney toland was mostly done in raing weather and under the most informable conditions. On Owing to the fact that practically the entire plust had to be traversed, the continued interruption in the work by dispoteling the part to propagate party to other localities, proved a constant menace. The point and of Storm Island and the Bird Rocks, were not completed due to continued rain and the necessity to take up other works.

Limits of the Sheet.

point about three and one half wiles west of Fortage Island on the south place, where it joins short "E" to a point about one and one half miles west of traingulation platen Flat.

on the north place it starts at the western limit of sheet "E" and continues westered to Cape Fanshaur, and there northward to Mc Mairy Boint taking in the whole of Whitney Island and the worthern half of Storm Island.

Control of the and Method of Survey.

— a few recovered platinis and a Brimary Schame of triangulation run by Mr. Eickleburg furnished the main control of the sheet. a few of the topographic statums established were low pub
prequently med.

The distance of the signals made traversing imperative

On the south place traverse lines were run in both directions

from & Shore and Flat. The discrepancies were with the prescribed

limb, and so an adjustment was made. The entire north shore

from & Fan to the season limit of the sheet was traversed. From

& Fan to & High no adjustment was necessary. & Near O Bit a mark

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was left for carbining the traverse, but the work was again resumed after so long a lapse of twie, that the nark was destroyed. It being the Cart day of the peasar and no other being available, it a point was assumed as the recovered me and the . traverse continued to and closed on a point established at the western limit of sheet "E" an adjustment was made. a traverse was planted at A Fan and run into Fanchaur Bay, but the character of the shore line was such as to render this in practicable. Consequently the west alone of Whitney Island was browned and O Creek established on the mountained. From here the traverse was continued to Mc Navy Pt, typic in with & Bill Paint: The east slove of Whitney Esland was surveyed by three _ point fixes based on points established a the mainland. Mature of Shore line. The south shore of the Sound is low with gravel and boulder beaches. In the vicinity of O.Oak, grass covered crevle stown found in Carge numbers. From A Shore westward to the limit of the sheet the law water line is characterized mainly by rocky, kelp covered likes that actuals from 100 to 300 meters off-shore Course gravel beaches will sprinklings of rock outcroppings are also encountered. The beaches around the Canger creeks are of fine sand along much of the shore a short stretch of grows reparates the high water line from the tree line. The article with place from Cope toushow to the scatter but of the short will the sample of about one wile of shore line the wind of Attight, The north shore from the eastern limit of the sheet to just water about one quarter wile west of O Bit the shores shope up at a very sharp angle, the region around Mt. Highland rising at almost an angle of 90 degrees Snowel beaches with rock returnpings are usually found except of the mouther of stream, where long and beaches are usually encountered. The shoe line from A High to & Fan is of a pinilar nature, but the plopes are much more gentle... From A High extending eastward for about a mile, the shore

line is bold and precipitors. Here is my little low water line, and in
the main consider protegy ledges. Kelp lines the entire place.

Thom Cape Toursdays extending into Faurhaw Boy for about
one wile and a quarter the share line is extendly rugged bold and
wordey. He has writer him cannot of wordey ledges that extend out but a
very short distance. From line all the way to Mc Nainy Pt. the
placeline is law and mists of sand and gravel beach with rooks
outeroppenings. Long sound apile make antiformall of the larger
steam. The man montain plopes along this stretch are fairly steep.

Che member of old clacks are located at on the east saids at
the conthorn entrance to blaveland Passage. Two dooks are
also located in the same visinty, the are furthest to the north
having a tide stopped festered to it

Whitney and Storn Galands are bounded mainly by bold
voorley places. In one or two places there is a small statch of
arrand beach spinished with rooks outerospaines. The low mater
line extends for a short distance out in the form of ledges:
The rooks formations along there shows are of slate and gravite.
Here and there small deposits of quarty occur.

General Appearance of Country.

The country in the broad is very beauty wooded. On the worth shore of the Sound is contract to the south shore, mountains here to a bright of over 3000 feet. Most of there have districtive features and can easily be districted. Opposite.

Ph. Highland there is a valley that has an elevation of 2945 feet hundred feet. He wountain marked with an elevation of 2945 feet is coiled and in place and is one of the most promised peaks in the virial of about 2500 feet. Not highland show on the sheet with an elevation of 2410 feet is the western end of the Not Highland hange, mentioned in the riport of Sheet "F". Not. Highland is a square topped, wooded mountain that rives from the water at an angle of almost 90 degrees. The diaflageen Peaks (turis) are very promisent and are back of the first range of mountains. The tops of these are bore.

On the porth shore of the Sound is beauty would.

little way back from the phone line & because slightly rolling while far in the distance there is a law mount minent peaks. Whitney Ila is hearly wooded reland about 400 feet high with bold and rocky shoes.
Stone Doland is a small wooded island Confours The contours plan are at 100ft intervals. They are the result of a combination of the plane table and sestant cuts. When the cost shore of whitney Island was surveyed, weather condition were of such a nature as to render it impossible to obtain elevation. It was lioped that an opportunity would be found to occupy Bird Rock from which chile cuts could have been obtained to the Fanslew Rouge, but the sudden tominate of the season prevented the General Resources a great deal of lumber, consisting of redium sized for and prince trees is found. His lumber is used principally for piling. and rough bulding surposes.

Tribus is probably the principal industry in this locality.

A fish trap is located just to the west of OSO. Many palmon we cought in blueland Passage and the south side of the Considerable game can also be encountered in the section. There is a possibility of a dwelopment of the region bodewin the south share of the Sound, owing on account of the flating of the country: The land, however, was not investigated. Coast Pilot. the artice south place is marked by lang rocky begdes Small boots should not approach this place too closely and should been well outside of the kalpline.

... On the north slove near the eastern limit of the sheet, three small rooks are located about 200 meters off slave these rooks are awash. I buf tide they will mitted the second on the sheet.

a dangerous reaf extends out into the small buy located about one fourth mile west of A High. It is awash at half It funt imide the south entrance to Cleveland Gersage, there is a lodg sand spit terminating in a rocky reef the atter limbs of the reef is marked by kelp and is award at low water. I attention is called to the fact that this reef is shown as bare at high water on Clark 8200. a rest with several bad rocks are found an the north end of Whitney Island, and there are several rocks of the northwest side of Storn Island. about 400 meters of fabre from Storn Island towards Whitney Island is a nortey reef awash at On the south from a Shore to the western him of the sheet kelp is found in thick patches from 50 to 300 meters off shore. Small patches of kelp are found all along the north shore of the Sound, Cleveland Passage and around Whitney Island. Claudand Passage jud runido the south entrance. In conclusion it might be stated that all of the work within the prescribed limits of this sheet is now completed with the exception of the southern half of Storm Island and the Bird Porks. It wo there would have been complited were it not for the continued rain and the sudden lowe of the season aid 6+8 Surrey Jan 7,1917. The shoeling on this sheet was inled by in before leaving Seattle I have therefore corrected the title sheet to conform a.R.S.