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Department of Commerce and Labor COAST AND GEODETIC SURVEY .
Superintendent.
State:
DESCRIPTIVE REPORT.
Jok . Sheet No. 3404
V LOCALITY:
191
CHIEF OF PARTY:
11—4646

Alaska



DESCRIPTIVE REPORT.

To Accompany

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Topographic Sheet No. ("E", Passage Canal, Alaska.

3404,

This survey extends from the head five miles to the eastward down It is a detached survey on a scale of one to ten thousand The season was too for advanced when the topography with no projection. was completed to extend the triangulation up the Canal & Perry Island. A base line, 674 meters long, for topographic use only, was measured across the gravel flats at the head of the canal with a 50 meter base tape, with ordinary family spring balance and no temperature correction. From this base topographic triangulation was carried five miles down the Canal and all stations marked. They can be easily recovered and tied in when the triangulation is extended to, and up Passage Canal. triangulation was completed the shoreline was run with plane table and intermediate signals located for hydrographic use.

The shoreline is rocky but not precipous. At the head of the Canal, and at Whittier and Billings Delta it is composed of gravel beaches. The shoreline from the head of the Canal on the north shore out to Billings Delta is very straight, scarcely broken by the slightest indentation. It is merely a narrow ledge of loose rocks, rising abruptly from this to 300 to 400 feet in height, then rising not quite so abruptly to a peak about 4700 feet in height. The south shore is more irregular and rises less None of this shoreline offered any difficulty for plane table work.

Department of Commerce and Labor

The lower elevations, from 100 to 500 feet, is wooded, from 500 feet up the hills are bare rock. The summits of the hills were determined both as to location and elevation and 100 foot contours sketched.

Howell Glacier is a dead hanging Glacier of small extent. Whittier Glacier is a dead hanging glacier showed over the ridge toward Passage Canal from a probably large glacial area between Passage Canal and Blackstone Bay. Longfellow Galcier is a dead glacier, forced down into and ending in an narrow gorge near the head of the Canal. It is of unknown extent and is probably a tongue of a large Glacial area back in the mountains.

The latitude of Station South Base is 60° 46° 05° and the longitude 148° 43° 30°, both scaled from Chart 8550. A magnetic meridian is laid down on the sheet for orienting.

The following names are local: Passage Canal, Billings Delta.

The following were supplied by the party: Whittier Glacier, Whittier Delta,

Longfellow Glacier and Howell Glacier.

Respectfully submitted,

Gelbert J. Winde.

Assistant, C. & G. Survey

Chief of Party.