

4049

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: S. E. Alaska

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. A 4049

LOCALITY:

Icy Strait

Entrance,
Port Frederick, Hoonah to

Neka Bay

19123.

CHIEF OF PARTY:

J. H. Hawley

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET A.

Limits:

This sheet extends from north latitude $58^{\circ}-11'$ to $57^{\circ}-38'$ and from west longitude $135^{\circ}-24'$ to $135^{\circ}-37'$. The entire sheet is included in Port Frederick; both shores at the northern limit join previous surveys, and at the southern limit connect with another sheet of 1923.

General Description of Shore:

From Δ Game at the northern limit of the eastern shore there is a considerable bight in the shore to Δ Fred, 3 miles from Δ Game. Extensive sand bars and mud flats compose the shore for about $1\frac{1}{2}$ miles south of Δ Game, and from that point to Δ Fred the shore is composed of sandy beaches and cliffs. From Δ Fred to Δ Sea, $1\frac{1}{2}$ miles south, the shore is composed partly of sand beach and partly of cliffs, with a good-sized flat in the bight just north of Δ Sea. From Δ Sea for a mile south the shore is fairly regular and composed alternately of cliffs and grassy beaches, and from here to a little south of Δ Gull there is an extensive flat for about 2 miles. The shore from here to \odot Bet, at the southern limit of the sheet, consists of alternate cliffs and beaches.

On the west shore from Δ Hump, at the northern limit, to Δ Neck, at the southern limit, the shore is composed of cliffs and gravel beaches with the exception of an extensive flat at Humpback Creek.

Outlying Dangers and Islands.

Grassy Rock, a small island, 20' high, grown with grass but no trees, lying 500 m. N.W. (mag.) from Δ Sea.

Midway I., a small wooded island, 100' high, lying 1250 m. S.W. (mag.) from Δ Gull.

Inshore Dangers:

A reef, baring at $3/4$ tide, 130 m. off shore and about half way

between Δ Game and Δ Fred.

Small craft, plying close to the shore, should give a good berth to the extensive flats previously mentioned, as the appearance of the water is very deceptive, and at high tide very shallow depths may be found a long distance off shore.

Survey Methods:

The shore line was surveyed by traversing between triangulation stations with occasional three point fixes as a check between stations. The errors of closure were all small and within the allowable limit, and the corrections were distributed proportionally except where for some reason it was considered probable that the error occurred in a certain section of shore line, in which case it was distributed in that section.

The form lines were sketched in the field from determined peaks and points, the locations and elevations of which were established by the use of the plane table.

Points of Control:

Triangulation station Scraggy(H.C.Warwick 1922).

Triangulation stations But, Port, Hump, Back, Neck, Chim, Sop, Lit, Long, Game, Fred, Sea, Gull(A.M.Weber 1923).

Plane table triangulation stations An, Bet(A.M.Weber 1923).

Names Assigned by Field Officers:

Midway I.
Grassy Rk.
Burnt Point

Submitted by

Albert M. Weber

Jr. H. and G.E.

A.M. Weber

Approved by

Clarence E. ...

Comdg. Str. Explorer.

To be inspected by Capt. J.H.Hawley at the office.

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TOPOGRAPHIC TITLE SHEET

The finished Topographic 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. (A) 4049

State S.E. Alaska

General locality Icy Strait

Locality Port Frederick, Entrance to Neka Bay, ~~Hoonah to Neka Bay.~~

Chief of party J.H. Hawley

Surveyed by A.M. Weber

Date of survey July, August 1923.

Scale 1/20000

Heights in feet above H.W.

Contour interval 100 feet.

Inked by A.M. Weber Lettered by H.E. MacEwen

Records accompanying sheet (check those forwarded): Photographs,

1 Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: