



3427

C. & G. SURVEY,
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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: _____

DESCRIPTIVE REPORT.

Top. _____ Sheet No. *3427.*

LOCALITY:

191 }

CHIEF OF PARTY:

DESCRIPTIVE REPORT

to accompany

Topographic Sheet "B", of Eshamy Bay and vicinity,
Prince William Sound, Alaska.

The survey was controlled by triangulation brought over from Knight Island and Lone Island. The triangulation was done with a 10" Gambey and a 7" Berger. Three repetitions of an angle were made with the Gambey and six with the Berger. Triangulation stations were established on each side of the entrance to Eshamy Bay, at both ends of the survey, and at distances along the shoreline of about every $1\frac{1}{2}$ miles. All of the topography was obtained with the plane table. Elevations were checked by three cuts wherever possible.

The contour interval of the sheet is 100 feet.

The topography of Eshamy Lagoon was done before the triangulation was made. A sheet without a projection was used. Orienting lines to the two farthest stations, one on each side of the entrance to the bay, were put on the sheet at the beginning. This sheet was traced onto the projection after its initial point was determined.

The hills and mountains were covered with more or less thick growth of fine timber up to the 1100 foot elevation. The highest peaks have snow banks on their north sides all the year round.

The shore line consists chiefly of rocky banks five to twenty feet high interspersed with short gravel beaches. There are no sand beaches. A small boat can land nearly any place along the shores.

A mountain rising from the north shore of Eshamy Lagoon is conspicuous

Department of Commerce and Labor

from the sound and Knight Island Passage for its height. To the northward it shows as a high snow ridge; to the southward as a sharp peak. The chart gives its elevation 3146. Four cuts with the plane table gave it 2903. There was an extreme range of difference between the elevations determined by the cuts of twenty feet.

At the head of Eshamy Lagoon there is a salmon saltry in operation. A large stream of water flows into the head of the lagoon.

There are numerous falls in the first small bay north of Eshamy Bay. A large stream empties into the head of the bay. There is a possibility of a lake being back of the low ridge at the head of the bay, but it was not investigated. A group of rocks some awash at low tide and some bare all the time extend $1/3$ the way across the mouth of the bay from the north side.

The houses on Crafton Island have not been occupied for several years. They are in fair condition though. Very little water is available there.

A large stream empties into the bight of the mainland behind Crafton Island.

(Signed) O. W. Swanson

Approved
Gilbert J. Rude,
Assistant.



3427

C. & G. SURVEY,
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Acc. No. _____

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. TITTMANN

Superintendent.

State: ALASKA

DESCRIPTIVE REPORT.

Top. _____ Sheet No. 3427

LOCALITY:

ESHAMY BAY

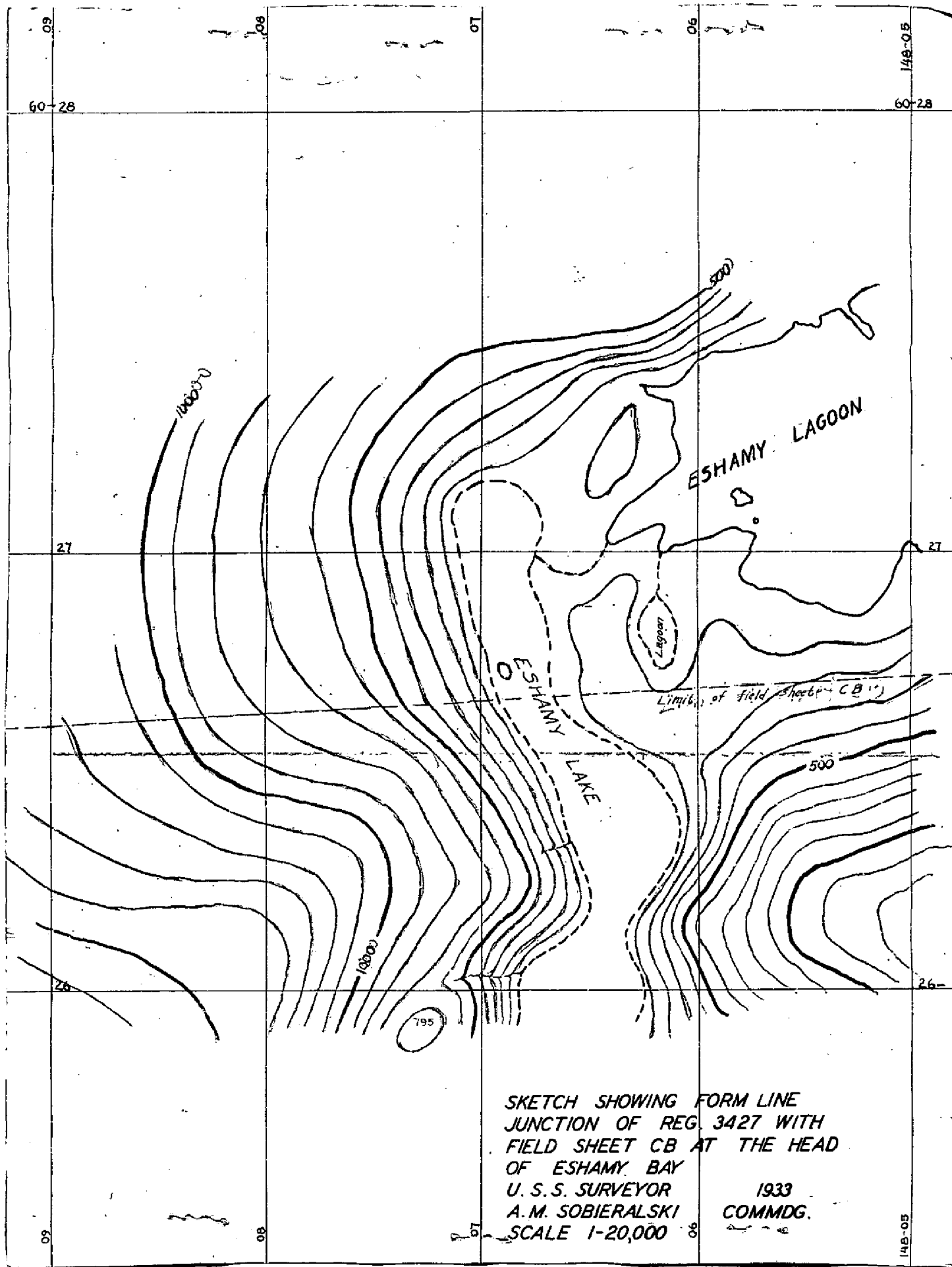
1913

CHIEF OF PARTY:

G. T. Rude.

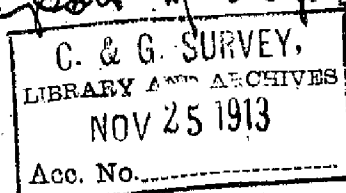
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3427



Top. 3427.

(To accompany description
in report of Top. 3427)



Description of topographic stations
to accompany topographic sheet
of Eschamy Bay, P.W. Id., Alaska

Str. Taku, 1913

G. T. Rude Condg.

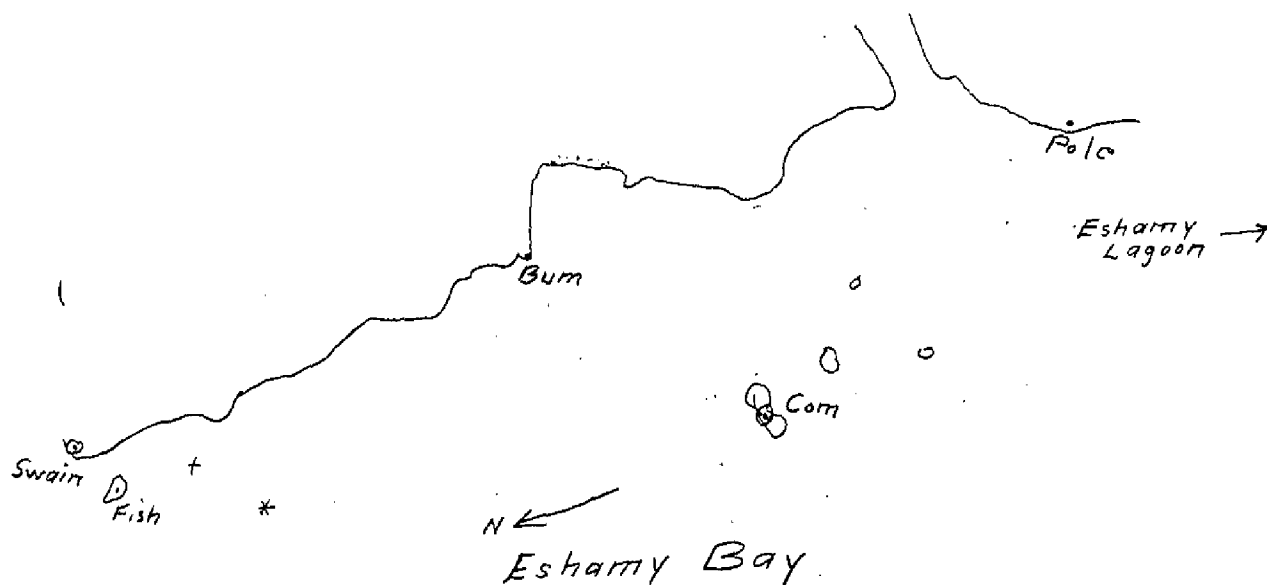
Alaska

G. T. Rude

1913.

Topographic Station C O M.

Highest part of largest rock of the group about 75 meters off shore of Eshamy Bay, Prince William Sound, Alaska, and near the narrow entrance to Eshamy Lagoon.



Alaska

G. T. Rude

1913.

Topographic Station S W A I N.

On turning point of west shore of south arm to form south shore of main
Eshamy Bay, Prince William Sound, Alaska.

f
Alaska.

G. T. Rude

1913

Topographic Station F I S H.

Center of rock lying about 200 meters west of turning point of south shore of main Eshamy Bay, Prince William Sound, Alaska, to form west shore of the south arm.

Alaska.

G. T. Rude

1913

Topographic Station P O L E

A banner on high water line of point of south shore of Eshamy Bay, Prince William Sound, Alaska. This point is at the entrance to Eshamy Lagoon.

Alaska.

G. T. Rude

1913

Topographic Station S T O.

Station Sto is on the large flat rock just inside the narrow entrance to Eshamy Lagoon, Prince William Sound, Alaska. The rock is on the starboard side entering the Lagoon.

Alaska.

C. T. Rude

1913

Topographic Station T R I

A white washed corner of the high cliff on south shore of narrow entrance to Eshamy Lagoon, Prince William Sound, Alaska. This cliff marks the widening of the narrows into the lagoon.

Alaska.

G. T. Rude

1913

Topographic Station G O O D.

Banner placed on the last rock on the south shore of entrance to Eshamy Lagoon, Prince William Sound, Alaska. The Lagoon widens at this point.

Alaska.

G. T. Rude

1913

Topographic Station S P O T

Whitewashed top of rock on prominent point of north shore of Eshamy
Lagoon, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913

Topographic Station B E.

Banner on the outer of the three rocks off north shore of Eshamy Lagoon,
Prince William Sound, Alaska, and about $\frac{1}{2}$ mile inside the narrows.

Alaska.

G. T. Rude

1913

Topographic Station L E T

A whitewashed spot and a flag nailed between the limbs of a dead tree on outer edge of island on N. shore of Eshamy Lagoon, Prince William Sound, Alaska. This Island is in the corner where the shore-line of the Lagoon turns toward the narrows.

Alaska

G. T. Rude

1913

Topographic Station I S L E.

Flag on island about 400 meters inside and to the north of the narrow entrance to Eshamy Lagoon, Prince Willaam Sound, Alaska. This island has one live pine tree on it. The station is 2. meters east of the tree.

Alaska.

G. T. Rude

1913

Topographic Station S A T

Whitewashed spot on top of first rocky point S. of Triangulation^{station} Short
near Eshamy Bay, Prince William Sound, Alaska. A dead white stump 2' in
diameter and 5' high is behind the spot.

Alaska

C. T. Rude

1913

Topographic Station T I P

Whitewashed top of prominent high rock on high water line of second main point south of Triangulation Station Short, near Eshamy Bay, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913

Topographic Station T A N

Whitewashed spot on shelf of high cliff that forms the first prominent point N. of Point Howell/

Alaska

G. T. Rude

1913

Topographic Station J E F.

Whitewash spot on east point of entrance to Tide Gauge Slough in south arm of Eshamy Bay, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913

Topographic Station N I G.

Whitewashed rocky point on north shore of Eshamy Bay, Prince William Sound, Alaska. It is opposite the south arm of the Bay. 100 meters off shore is a rock that covers at H. W.

Alaska.

G. T. Rude

1913

Topographic Station C U T.

White wash spot under overhanging cliff on N. E. corner of Crafton Id., Prince William Sound, Alaska.. It is about 150 meters N. of Triangulation Station Cave.

Alaska.

G. T. Rude

1913

Topographic Station S H A R P

White washed spot and flag on large rock off point on S. shore of entrance to Fall Bay, Prince William Sound, Alaska. Fall Bay is the first bay in the mainland shore N. of Crafton Is.

Alaska.

G. T. Rude

1913

Topographic Station L I T

Whitewashed spot and flag on prominent point of south shore of head of Fall Bay, Prince William Sound. Fall Bay is the first bay north of Crafton Island.

Alaska

G. T. Rude

1913

Topographic Station F A L L

Lowest part of large falls in head of first ^{bay} N. of Crafton Id., Prince William Sound, Alaska.

Alaska.

G. T. Rude

1913

Topographic Station R E D.

Red flag on largest of the group of rocks off the north point of the entrance to the first bay of the mainland N. of Crafton Island.

Alaska.

G. T. Rude

1913

Topographic Station S T A R T.

Flag on point of south shore of entrance to small bight in shore line
of south side of entrance to "First" Bay, Prince William Sound, Alaska.

Alaska.

G. T. Rude

1913

Topographic Station H O L E.

Flag on largest rock point of south shore of entrance to First Bay,
Prince William Sound, Alaska. The rock is outside the entrance.

Alaska.

G. T. Rude.

1913.

Topographic Station T O.

Banner on large rock off point of south shore of entrance to First Bay, Prince William Sound, Alaska. The rock is just inside the entrance.

Alaska.

G. T. Rude.

1913.

Topographic Station H I T

Whitewashed spot on cliff of point of mainland opposite N. end of Craf-
ton Id., Prince William Sound, Alaska. It is the last point north that sees
Triangulation Station Chow.

Alaska.

G. T. Rude,

1913.

Topographic Station M A Y.

White washed spot and flag on point of south shore of entrance to First Bay, Prince William Sound, Alaska, $\frac{1}{2}$ mile in the bay. Shore line turns here to widen the bay.

Alaska.

G. T. Rude

1913

Topographic Station F I N E

White wash spot and flag on outer end of long sharp ledge of rocks off long sharp point of south shore of First Bay, Prince William Sound, Alaska. It is about $\frac{1}{2}$ the way up the bay.

Alaska

G. T. Rude,

1913.

Topographic Station GREENE.

Grassy top of 15' high, 4' in diameter rock in bight of the south shore
of head of First Bay, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913.

Topographic Station R I V E R.

Falls in head of First Bay, Prince William Sound, Alaska.

Alaska.

G. T. Rude

1913

Topographic Station F I X.

Sharp rock off north shore of head of First Bay, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913

Topographic Station F I S H.

White washed spot and flag on point of north shore of First Bay, Prince William Sound. This point marks the entrance from the head of the bay of a long narrow bight.

alaska.

G. T. Rude

1913

Topographic Station D E N.

White wash and flag on outer end of outer reef at east side of entrance to a long narrow bight in north shore of First Bay, Prince William Sound, Alaska. It is about $\frac{1}{2}$ the way up the bay.

Alaska

C. T. Rude

1913

Topographic Station S P E C K.

Whitewashed spot and flag on north side of First Bay, Prince William Sound, Alaska. It is on a point between the two bights just inside of the conspicuous reef of rocks.

Alaska

G. T. Rude

1913.

Topographic Station C L U B

Flag and white wash on rock off conspicuous point of north side of entrance
to First Bay, Prince William Sound, Alaska.

Alaska.

C. T. Rude,
1913.

Topographic Station S T U M P.

A stump 15" in diameter, 10' high on prominent point of west shore of south arm of Eshamy Bay, Prince William Sound, Alaska. Point formed by large flat rock. Top of rock white washed.

Alaska

G. T. Rude

1913

Topographic Station H E A D.

Top of large round rock in head of south arm of Eshamy Bay

Alaska.

C. T. Rude

1913

Topographic Station J A K E.

West point of Tide Gauge slough entrance Eshamy Bay, Prince William Sound.

Alaska

G. T. Rude.

1913.

Topographic Station C O M.

Highest part of largest rock of the group about 75 meters off shore of
Behamy Bay, Prince William Sound, Alaska, and near the narrow entrance to
Behamy Lagoon.

Alaska

G. T. Rude

1913.

Topographic Station S W A I N.

On turning point of west shore of south arm to form south shore of main
Eschamy Bay, Prince William Sound, Alaska.

Alaska.

G. T. Rude

1913

Topographic Station F I S H.

Center of rock lying about 200 meters west of turning point of south shore of main Eshamy Bay, Prince William Sound, Alaska, to form west shore of the south arm.

Alaska.

G. T. Rude

1913

Topographic Station P O L E

A banner on high water line of point of south shore of Eshamy Bay, Prince William Sound, Alaska. This point is at the entrance to Eshamy lagoon.

Alaska.

G. T. Rude

1913

Topographic Station S T O.

Station Sto is on the large flat rock just inside the narrow entrance to Eshamy Lagoon, Prince William Sound, Alaska. The rock is on the starboard side entering the Lagoon.

Alaska.

G. T. Rude

1918

Topographic Station T R I

A white washed corner of the high cliff on south shore of narrow entrance to Eshamy Lagoon, Prince William Sound, Alaska. This cliff marks the widening of the narrows into the lagoon.

Alaska.

G. T. Rude

1913

Topographic Station G O O D.

Banner placed on the last rock on the south shore of entrance to Eshamy Lagoon, Prince William Sound, Alaska. The Lagoon widens at this point.

Alaska.

G. T. Rude

1913

Topographic Station S P O T

Whitewashed top of rock on prominent point of north shore of Eshamy
Lagoon, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913

Topographic Station B E.

Banner on the outer of the three rocks off north shore of Eshamy Lagoon,
Prince William Sound, Alaska, and about $\frac{1}{2}$ mile inside the narrows.

Alaska.

C. T. Ruess

1913

Topographic Station L E T

A whitewashed spot and a flag nailed between the limbs of a dead tree on outer edge of island on N. shore of Eshamy Lagoon, Prince William Sound, Alaska. This Island is in the corner where the shore-line of the Lagoon turns toward the narrows.

Alaska

G. T. A.

1913

Topographic Station I S L E.

Flag on island about 400 meters inside and to the north of the narrow entrance to Eshamy Lagoon, Prince William Sound, Alaska. This island has one live pine tree on it. The station is 2. meters east of the tree.

Alaska.

G. T. Allen

1913

Topographic Station S A T

Whitewashed spot on top of first rocky point S. of Triangulation ^{station} Short,
near Eshamy Bay, Prince William Sound, Alaska. A dead white stump 2' in
diameter and 5' high is behind the spot.

Alaska

C. T. Rude

1913

Topographic Station T I P

Whitewashed top of prominent high rock on high water line of second main point south of Triangulation Station Short, near Eshamy Bay, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913

Topographic Station T A N

Whitewashed spot on shelf of high cliff that forms the first prominent point N. of Point Howell/

Alaska

G. T. Rude

1913

Topographic Station J E F.

Whitewash spot on east point of entrance to Tide Gauge Slough in south arm of Eshamy Bay, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913

Topographic Station N I G.

Whitewashed rocky point on north shore of Eshamy Bay, Prince William Sound, Alaska. It is opposite the south arm of the Bay. 100 meters off shore is a rock that covers at H. W.

Alaska.

G. T. Rude

1913

Topographic Station C U T.

White wash spot under overhanging cliff on N. E. corner of Crafton Id., Prince William Sound, Alaska.. It is about 150 meters N. of Triangulation Station Cave.

Alaska.

G. T. Rude

1913

Topographic Station S H A R P

White washed spot and flag on large rock off point on S. shore of entrance to Fall Bay, Prince William Sound, Alaska. Fall Bay is the first bay in the mainland shore N. of Crafton Is.

Alaska.

G. T. Kude

1913

Topographic Station L I T

Whitewashed spot and flag on prominent point of south shore of head of Fall Bay, Prince William Sound. Fall Bay is the first bay north of Crafton Island.

Alaska

G. T. Rude

1913

Topographic Station F A L L

Lowest part of large falls in head of first ^{bay} N. of Grafton Id., Prince William Sound, Alaska.

Alaska.

G. T. Hudo

1915

Topographic Station R E D.

Red flag on largest of the group of rocks off the north point of the entrance to the first bay of the mainland N. of Crafton Island.

Alaska.

G. T. Rude

1913

Topographic Station S T A R T.

Flag on point of south shore of entrance to small bight in shore line
of south side of entrance to "First" Bay, Prince William Sound, Alaska.

Alaska.

G. T. Rude

1913

Topographic Station H O L R.

Flag on largest rock point of south shore of entrance to First Bay,
Prince William Sound, Alaska. The rock is outside the entrance.

Alaska.

G. T. Rude,

1913.

Topographic Station T 9.

Banner on large rock off point of south shore of entrance to First Bay, Prince William Sound, Alaska. The rock is just inside the entrance.

Alaska.

G. T. Rude

1913.

Topographic Station H I T

Whitewashed spot on cliff of point of mainland opposite N. end of Crafton Id., Prince William Sound, Alaska. It is the last point north that sees Triangulation Station Chow.

Alaska.

G. T. Rude.

1913.

Topographic Station M A Y.

White washed spot and flag on point of south shore of entrance to First Bay, Prince William Sound, Alaska, $\frac{1}{2}$ mile in the bay. Shore line turns here to widen the bay.

Alaska.

G. T. Rude

1913

Topographic Station F I N E

White wash spot and flag on outer end of long sharp ledge of rocks off long sharp point of south shore of First Bay, Prince William Sound, Alaska. It is about $\frac{1}{2}$ the way up the bay.

Alaska

G. T. Rude

1913.

Topographic Station GREENE.

Grassy top of 15' high, 4' in diameter rock in bight of the south shore
of head of First Bay, Prince William Sound, Alaska.

Alaska

G. T. Rude

1913.

Topographic Station R I V E R.

Falls in head of First Bay, Prince William Sound, Alaska.

Alaska.

G. T. Rude

1913

Topographic Station F I X.

Sharp rock off north shore of head of First Bay, Prince William Sound, Alaska.

alaska

G. T. Rude

1913

Topographic Station P I S H.

White washed spot and flag on point of north shore of First Bay, Prince William Sound. This point marks the entrance from the head of the bay of a long narrow bight.

Alaska.

G. T. Rude

1913

Topographic Station D E N.

White wash and flag on outer end of outer reef at east side of entrance to a long narrow bight in north shore of First Bay, Prince William Sound, Alaska. It is about $\frac{1}{2}$ the way up the bay.

Alaska

C. T. Rude

1913

Topographic Station S P E C Z.

Whitewashed spot and flag on north side of First Bay, Prince William Sound, Alaska. It is on a point between the two bights just inside of the conspicuous reef of rocks.

Alaska

G. T. Rude

1915.

Topographic Station C L U B

Flag and white wash on rock off conspicuous point of north side of entrance
to First Bay, Prince William Sound, Alaska.

Alaska.

G. T. Rude

1918.

Topographic Station S T U M P.

a stump 15" in diameter, 10' high on prominent point of west shore of south arm of Nehalem Bay, Prince William Sound, Alaska. Point formed by large flat rock. Top of rock white washed.

Alaska

G. T. Rude

1918

Topographic Station H E A D.

Top of large round rock in head of south arm of Eshamy Bay

Alaska.

C. T. Rude

1913

Topographic Station J A K E.

West point of Tide Gauge slough entrance Ishamy Bay, Prince William Sound.