

3805

O. & B. SURVEY
L. & A.

DEC 30 1920

Ass. No.

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: *S. E. Alaska*

11-5613

DESCRIPTIVE REPORT.

Topo Sheet No. *3805*

LOCALITY:

*Frederick Sound and
Stephens Passage
Storm I. - Bird Rock
and Sail Island*

1920

CHIEF OF PARTY:

W. H. Hick

TITLE SHEET.

Descriptive report to accompany Topographic Sheet #2.
Covering Storm Island and Bird Rock, Frederick Sound, S.E. Alaska, and Sail
Island, Stephens Passage, S.E. Alaska.

By: U.S.C. & G.S. Str. EXPLORER. Executed by Augustus P. Ratti,
Jr. H. & G.E., under direction of M.H. Heck, Commanding Officer, Str. EXPLORER.

Season April 1920 to October 1920.

Date of Instructions Jan. 7. 1920.

Mar. 2. 1920.

Limit and Extent

This sheet covers Storm Island and Bird Rock, Frederick Sound,
S.E. Alaska, and Sail Island, Stephens Passage, S.E. Alaska.

General description of the coast.

Storm Island is thickly covered with trees and is 200 feet high.
There are several bare rocks south of it. Bird Rock is covered with grass and
is about 22 feet high. A reef bares at low water surrounding it and extends
out from its shore from 20 to 100 meters. The islet between Storm Island and
Bird Rock is covered with grass and 30 feet high. It is surrounded by reefs
bare at low water. Area in this vicinity is foul and no attempt to pass be-
tween these rocks should be made.

Bird Rock should be given a wide berth.

At the north end of Storm Island there is a high rock about 30 feet
high on a rocky reef that bares at low water. The island is surrounded by
kelp growth. There is a reef that bares at low water about $\frac{1}{4}$ mile north of
Storm Island. It is marked by kelp.

Sail Island.

Sail Island is a narrow long island covered with trees. It lies
about 5 miles WNW of the Five Fingers Lighthouse. It is about $\frac{1}{4}$ mile long
and a about 100 yards wide. At its south end there are two detached islets.
A reef about 10 to 20 meters fringes the shore of the island at low water. The
island is about 125 feet high.

System of Control.

Points of control were established by primary triangulation of
1917. The stations are; \triangle Sail, 1917, \triangle Beam 1917, \triangle Southwest 1917,
 \triangle Five Finger L.H. 1917, \triangle Fort 1917, \triangle Bill 1917, \triangle Fanshaw L.H. 1917.
New triangulation stations established by tertiary triangulation by Jack Senior,
H. & G.E. were; \triangle Sail, Storm, and Duck Point L.H.

Method.

These island were surveyed by traversing and perfect resection
were obtained on \triangle signals.

Augustus P. Ratti
Jr. H. & G. E.

AND REFER TO NO. 4-VEC

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 22, 1921.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3805

Surveyed in 1920.

Chief of Party: N. H. Heck. Surveyed and inked by A. P. Ratti.

1. This survey conforms to the General Instructions with the following exceptions:
 - a - The magnetic meridian is not shown.
 - b - The plane of reference should be mean sea level instead of high water.
2. The descriptive report states "Sail I. is about 125 feet high." Chart 8200 indicates that it is 308 feet high. As this island is in the center of Stephens Passage and is a very important landmark, the correct height should be ascertained if opportunity offers.
3. The extent of the sheet satisfies the specific instructions and the junctions with adjoining sheets are satisfactory.
4. The character of the surveying and inking are good.
5. Reviewed by E. P. Ellis, April 22, 1921 and 2 copies of this report to be sent to the Division of Hydrography and Topography.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

ORIGINAL
2

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. 3805

State . S. L. Alaska

General locality . Frederick Sound & Stephens Passage

Locality . . . Storm Island - Bird Rock and Sail Island

Chief of party N. H. Heck, H. & G. E.

Surveyed by . Augustus P. Ratti, Jr. H. & G. E.

Date of survey August *June* 1920

Scale 1:20,000

Heights in feet above H. W.

Contour interval 100 . feet.

Inked by A. P. Ratti Lettered by A. P. Ratti

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: