Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: S.E. Alaska

LOCALITY:
Frederick Sound and
Stiphurs Passage
Stromed Bird Rock
and Sail Island

1880

CHIEF OF PARTY:
W. H. Kelch
TITLESHEET.

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

By: U.S.C. G.S. Str. EXPLORER. Executed by Augustus P. Ratti, Jr. H. & G.S., under direction of S.H. Heck, Commanding Officer, Str. EXPLORER.
Season April 1920 to October 1920.
Date of instructions: Jan 7. 1920.

Limit and Extent

This sheet covers Storm Island and Bird Rock, Frederick Sound, S.B. Alaska, and Sail Island, Stephens Passage, S.B. 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 bars 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 between 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 bars at low water. The island is surrounded by kelp growth. There is a reef that bars at low water about ½ 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 ¼ mile long and a about 150 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; A Sail 1917, A Seam 1917, A Southwest 1917, A Five Finger L.H. 1917, A Fort 1917, A Sail 1917, A Fanahaw L.H. 1917.

New triangulation stations established by tertiary triangulation by Jack Senior, H. & G.S. were; A Sail, Storm, and Duck Point L.H.

Method.

These island were surveyed by traversing and perfect reduction were obtained on A signals.

Augustus P. Ratti
Jr. H. & G. S.
SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3805
Surveyed in 1920.


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.
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.- Alaska

General locality . Frederick Sound & Stephens Passage

Locality . Storm Island, Bird Rock and Sail Island

Chief of party . N.H. Beck, K.G.E

Surveyed by . Augustus P. Ratti, Jr., K.G.E

Date of survey . August 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: