DESCRIPTIVE REPORT

Topographic Hydrographic

Sheet No. "G"

State Southeast Alaska

Locality
Kasigluk Island
Sumner Strait
Bluff Island to Pt. Hardscrabble

1937

Chief of Party
G. C. Jones

U. S. GOVERNMENT PRINTING OFFICE
<table>
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<th>Applied to chart</th>
<th>Date</th>
<th>Code</th>
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<td>8173</td>
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<td>8152</td>
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<tr>
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<td>2/6/40</td>
<td>E.R.</td>
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "G"

REGISTER NO. T6589

State S.E. Alaska

General locality Southeast Alaska

Locality Bluff Island to Pt Hardscrabble

Kessieko Island, Sumner Strait

Scale 1:20,000 Date of survey August - Sept., 1937

Vessel U.S.C. & G.S.S. EXPLORER

Chief of party G. C. Jones

Surveyed by H. C. Applequist

Inked by H. C. Applequist

Heights in feet above M.N.W. to ground 0 to 200

Contours, Approximate: 100 feet. Form line interval 100 feet

Instructions dated July 16, 1936

Remarks: ____________________________

____________________
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET FIELD NO. "G"

1937

KOSCIUSKO ISLAND - SUMNER STRAIT

SOUTHEASTERN ALASKA

- o -

G. C. JONES, CHIEF OF PARTY, C. & G. S.,
COMMANDING SHIP EXPLORER.
DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET FIELD NO. "G",
1937
KOSCIUSKO ISLAND - SUMNER STRAIT
SOUTHEASTERN ALASKA.

AUTHORITY:
Authority for this survey is contained in the Director's Instructions dated July 16, 1936, Project H.T. 211.

SCALE:
The scale of this survey is 1:20,000.

LIMITS:
This sheet extends from about two miles north of Point Hardscrabble to Bluff Island.

CONTROL:
Control for this survey was furnished by triangulation executed in 1915 by L.C. Colbert and in 1937 by G. C. Jones. It is based on the N.A. 1927 datum.

SURVEY METHODS:
Stadia and traverse were used throughout with no deviation from standard practice. Detail was rodded in with the exception of the two rocks awash furthest off-shore, which were located by three or more planetable cuts. All traverses closed well within the allowable limits.

GENERAL DESCRIPTION OF AREA:
This area consists of hills heavily wooded with evergreen trees. There is one fairly large creek which drains a comparatively large area. Bluff Island at the entrance to Shipley Bay is a wooded island about 225 feet high (325 feet to tree tops). The southeast side of the island has high vertical bluffs up to 200 feet in height. The area west of the island is very foul.

The shoreline is in general rocky with rocky islets, rocks and rocks awash at varying distances off-shore. Thick heavy kelp grows all along the shoreline. In general the area between the high and low water lines consists of rocky reefs and ledges.
FORM LINES AND ELEVATIONS:

The form line interval is 100 feet. Part of the elevations were determined by means of the planetable alidade. The remainder were determined by means of sextant cuts taken from a launch.

All elevations are ground elevations. In those places where the ground was obscured by the trees, elevations were taken to the tops of trees and reduced to ground elevations by the estimated heights of the trees. The estimated heights of the trees are shown in parenthesis under the elevations.

LOW WATER LINE:

The low water line shown on this sheet was surveyed by the topographer. In those places where no low water line is shown the area between the low and high water lines was too narrow to permit showing on this scale survey.

GEOGRAPHIC NAMES:

Only those names already in use on the charts are shown on this sheet. They are all used locally. No new names or changes are suggested.

JUNCTIONS:

A satisfactory junction was made to the southward with sheet Field No. "B - 1937". No survey to the northward was available with which a junction could be made.

LANDMARKS:

There are no landmarks in this area which should be charted.

COMPARISON WITH CHART:

Due to the difference in scale it was impracticable to compare this survey with chart No. 8201.

INCOMPLETE WORK:

The area northwest of Ruins Point appeared very foul and it is believed that there are several rocks awash further off-shore than the farthest one shown on the sheet. This sheet was surveyed at the end of the field season and there was not sufficient time available nor was the stage of tide correct for a complete examination of this area.
The hydrographic survey in this area has not been completed and it is believed that the hydrographer can satisfactorily complete this work.

**MAGNETIC DECLINATIONS:**

No indication of local magnetic attraction was found in this area.

During the season the declinometer used on this sheet and the declinometer were used on three common stations. The results, uncorrected for index error and variation are shown below:

<table>
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<tr>
<th>STATION</th>
<th>DECLINATION</th>
<th>DIFFERENCE</th>
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<tbody>
<tr>
<td>POLE 1866-1936</td>
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<td>29.4°</td>
</tr>
<tr>
<td>SCRAB 1937</td>
<td>30.3</td>
<td>30.4</td>
</tr>
<tr>
<td>PIES 1937</td>
<td>29.6</td>
<td>30.6</td>
</tr>
</tbody>
</table>

Mean difference: Declinometer-Declinatoire -0.8

**STATISTICS:**

Statute miles of shoreline 17.0
Area, in square statute miles 4.3

Respectfully submitted,

H. C. Applequist
H. C. Applequist,
Aid, C. & G. S.,
U.S.C. & G.S.S. EXPLORER.

Topographic Sheet Field No. "G - 1937", and the Descriptive Report pertaining thereto, have been examined by me and are approved and forwarded.

L. C. Jones
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.
<table>
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<td>Name on Survey</td>
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<td>------------------------</td>
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</tr>
<tr>
<td>Bluff Island</td>
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<tr>
<td>Shipley Bay</td>
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<tr>
<td>Ruins Point</td>
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<tr>
<td>Sumner Strait</td>
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<tr>
<td>Kosciusko Island</td>
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<tr>
<td><strong>Point Hardscrapble</strong></td>
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Names underlined in red approved by **Eve** on 5/20/32.
Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6589 (1937) FIELD NO. G

Bluff Island to Point Hardscrabble, Summer Strait, S.E. Alaska.
Surveyed in Aug.-Sept., 1937, Scale 1:120,000
Instructions dated July 16, 1936 (EXPLORER)

Plane Table Survey

Chief of Party - G. C. Jones
Surveyed by - H. C. Applequist
Inked by - H. C. Applequist

Aluminum Mounted

1. Junctions with Contemporary Surveys.

The junction on the south with T-6587 (1937) is satisfactory.
New surveys are contemplated on the north but have not yet been made.

2. Comparison with Prior Surveys.

H-1749 (1886), 1:80,000; T-2355 (1886), 1:80,000.

Topography on H-1749 is an adjustment of that on T-2355.
Principal features on the old and new work are in fair agreement
but the old survey is considerably generalized between triangulation stations, resulting in numerous disagreements
with the present survey in minor detail. The present survey
supersedes the old work for major detail but new hydrography
must be accomplished in order to completely supersede minor
offshore detail obtained by the combined hydrography and topo-

3. Comparison with Chart 8172 (New Print of April 28, 1938)

Chart 8173 (New Print of March 27, 1939)

The present survey has already been applied to Chart 8173
but, as new hydrography was not available, it has been supple-
mented by some rock detail from prior surveys. Chart 8172 is
based on surveys discussed in the foregoing paragraphs.


The descriptive report and field drafting are satisfactory.

5. Compliance with Instructions for the Project.

Satisfactory.

6. Additional Field Work Recommended.

As recommended in par. 2 and in the Descriptive Report, page 2,
Incomplete Work, new hydrography is necessary in order to verify
or disprove some of the offshore rock detail.
7. Reviewed by - J. A. McCormick, October 18, 1939.
8. Inspected by - H. R. Edmonston.

T. B. Reed
Chief, Section of Field Records.

K. T. Adams
Chief, Division of Charts.

Fred. L. Beak
Chief, Section of Field Work.

Chief, Division of E. & T.