

6589

U. S. COAST & GEODETIC SURVEY
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Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. "G"

State Southeast Alaska

LOCALITY

~~Kodiak Island~~

Summer Strait

Bluff Island to Pt. Hardscrabble

1937.

CHIEF OF PARTY

G. C. Jones

U. S. GOVERNMENT PRINTING OFFICE

6589

Applied to chart 8173 - 11/8/38 P.B.C.

" " " 8152 2/5/39 P.B.C.

" " " 8252 2/18/39 P.B.C.

" " " 8172 2/6/40 G.R.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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 Summer Strait
~~Southeast Alaska~~

Locality Bluff Island to Pt Hardscrabble
~~Kosciusko 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.H.W. to ground ~~to tops of trees~~

~~Contour, Approximate contour~~, Form line interval 100 feet

Instructions dated July 16, 1936.

Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET FIELD NO. "G"

1 9 3 7

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",

1 9 3 7

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 Hard-scrabble to Bluff Island. ✓

CONTROL:

Control for this survey was furnished by triangulation executed in 1915 by L.O. 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 rodged in with the exception of the two rocks awash furtherest 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: ✓ GHE

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

<u>STATION</u>	<u>DECLINATION</u>		<u>DIFFERENCE</u>
	<u>Declinometer</u>	<u>Declinoire</u>	
POLE 1886-1936	29.1°	29.4°	-0.3°
SCRAB 1937	29.3	30.4	-1.1
PIES 1937	29.6	30.6	-1.0
Mean difference: Declinoire-Declinometer			-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.

G. C. Jones

G. C. Jones,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

Remarks

Decisions

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4		see T-6584
5		see T-6587
6	off sheet- Do not ink name	" "
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GEOGRAPHIC NAMES

Survey No. H-6589

Name on Survey	On Chart No. 8152		On previous survey No. H-1949		On U. S. quadrangle Maps	From local information	Bakers Diet. On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
	A,	B,	C,	D,							
<u>Bluff Island</u>	✓	✓	✓			✓					1
<u>Shipley Bay</u>	✓	✓	✓			✓					2
<u>Ruins Point</u>	✓	✓	✓			✓					3
<u>Sumner Strait</u>	✓										4
<u>Kosciusko Island</u>	✓										5
<u>Point Hardscrabble</u> ✓											6
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Names underlined in red approved

by RAE on 5/25/38

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Section of Field Records

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

Bluff Island to Point Hardscrabble, Sumner Strait, S.E. Alaska.

Surveyed in Aug.-Sept., 1937, Scale 1:20,000

Instructions dated July 16, 1936 (EXPLORER)

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Jones

Surveyed by - H. C. Applequist

Inked by - H. C. Applequist

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 topography of 1886.

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 supplemented by some rock detail from prior surveys. Chart 8172 is based on surveys discussed in the foregoing paragraphs.

4. Condition of Survey.

The descriptive report and field drafting are satisfactory.

5. Compliance with Instructions for the Project.

Satisfactory.

6. Additional Field Work Recommended.

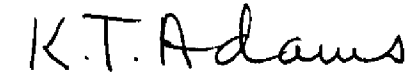
As recommended in par. 2 and in the Descriptive Report, page 2, Incomplete Work, new hydrography is necessary in order to verify or disprove some of the offshore rock detail.

7. Reviewed by - J. A. McCormick, October 18, 1939.

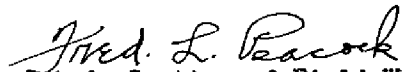
8. Inspected by - H. R. Edmonston.



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



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.