

6633

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

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 6633

State S.E. ALASKA

LOCALITY
SITKA SOUND
JAMESTOWN BAY AND VICINITY

~~SITKA SOUND~~

JULY

1938

CHIEF OF PARTY

C. C. Jones

U. S. GOVERNMENT PRINTING OFFICE

6633

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 Letter GREGISTER NO. 6633 T6633State S.E. ALASKAGeneral locality SITKA SOUNDLocality JAMESTOWN BAY AND VICINITYScale 1 - 5,000 Date of survey July, 1938Vessel U. S. C. & G. S. S. EXPLORERChief of Party G. C. JonesSurveyed by H. C. ApplequistInked by H. C. ApplequistHeights in feet above M.H.W. to ground ~~to tops of trees~~~~Contour~~ ~~Approximate contour~~ Form line interval 20 feetInstructions dated March 7 and May 5, 1938, 19Remarks: Project H T 220

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET FIELD LETTER "C"

OFFICE REGISTER NO. 6633

VICINITY OF JAMESTOWN BAY

SITKA SOUND, S.E. ALASKA

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET FIELD LETTER "C"

OFFICE REGISTER NO. 6633

VICINITY OF JAMESTOWN BAY

SITKA SOUND, S.E. ALASKA

AUTHORITY:

Authority for this survey is contained in the Director's Instructions dated March 7, 1938, Supplemental Instructions dated May 5, 1938. Project NT 220. ✓

SCALE:

The scale of this survey is 1:5,000. ✓

LIMITS:

This sheet includes that portion of Baranof Island between the Sheldon Jackson Mission, Latitude $57^{\circ} 03.2'$, Longitude $135^{\circ} 19.4'$ to Longitude $135^{\circ} 16.0'$. It also includes those islands directly south of the Mission. ✓

CONTROL:

Control for this survey was furnished by triangulation executed in 1938 by the EXPLORER. ✓

GENERAL DESCRIPTION OF AREA:

The shoreline is in general rocky with the exception of that portion of Baranof Island from topographic station Sob, Latitude $57^{\circ} 02.9'$, Longitude $135^{\circ} 19.1'$, to the northeast corner of Jamestown Bay, and also a few scattered beaches between islands and in small bights. These exceptions have gravel or a combination of gravel and mud beaches. Rocky ledges are general along the rocky portion of the beach. There are a great number of offlying rocks and rocks awash along the rocky shore. ✓

The area to the north and west of the mouth of Indian River is hilly but not rugged. Northeast of the mouth of Indian River is Mount Verstovia, which falls off this sheet. Its steep slopes come down to the shoreline. The smaller islands on this sheet are all low and most of them wooded. ✓

The bluffs indicated along the shoreline are all low, mostly from 5 to 15 feet.

SURVEY METHODS:

Standard Coast and Geodetic Survey planetable methods were used throughout with no deviation from standard practice. Setup positions were determined by three point fixes or resection wherever possible, and by traverse throughout the remainder of the area. All offlying features were rodded in.

TRAVERSES AND CLOSING ERRORS:

Two traverses were run between RING and HAR. No. 1 around the south side and No. 2 around the north side of Guertin Island. A traverse was run from HAR through Ellsworth Cut, across to the north shore of the small bay, carried along the north shore to O Pop, south from O Pop to the small island and then around the south side of Harris Island and back to HAR. A traverse was run from FLAGPOLE, MISSION SCHOOL, along the road to JIM. Closing errors of the above traverses were spread proportionately over each traverse. A traverse was run from JIM eastward along the road to the edge of the sheet. This traverse was not closed.

TRAVERSE	LENGTH	CLOSING ERROR	
		AZIMUTH	DISTANCE
No. 1 RING to HAR	0.6	.0	1.0
2 RING to HAR	0.8	0.5	1.0
3 HAR to HAR	0.8	.0	1.5
4 FLAGPOLE, MISSION SCHOOL to JIM	1.3	1.0	2.0

LOW WATER LINE:

All the low water line shown on this sheet was rodded in by the topographer. No attempt was made to locate the low water line along the shore west of Cannon Island. In this section, the area between the high and low water lines, slopes very gently and it was felt that the hydrographer could locate it more accurately.

L.W. defined
on H-6353

ELEVATIONS AND FORM LINES:

All elevations are ground elevations unless otherwise noted. Both the ground elevations and tree top elevations

are given for many of the smaller islands. Where the ground was not visible, elevations were taken to the tree tops and an estimate made of the heights of trees. In all these cases the ground elevation is shown with the estimated height of tree shown in parenthesis under the elevation. ✓

The form line interval is 20 feet. The form lines on Baranof Island were shown on a separate form line sheet, Office Register No. 6337, Scale 1:10,000. Only the form lines adjacent to the shoreline are shown on this sheet. ✓

COMPARISON WITH PREVIOUS SURVEYS:

The previous surveys appear to agree fairly well with the exception of small differences in the delineation of the shoreline. ✓

COMPARISON WITH HYDROGRAPHIC SHEET OFFICE REGISTER NO. 6353:

Hydrographic Sheet Office Register No. 6353 was compared with this sheet and no discrepancies were found. ✓

CHANGE OF COASTLINE:

There is no evidence of any change in the coastline due to erosion, submergence, etc. ✓

DECLINATOIRE OBSERVATIONS:

Four magnetic meridians are shown on the sheet but their reliability is questionable. It was discovered that the planetable boards were put together with steel screws after it was too late to replace them. These steel screws undoubtedly affected the declinatoire and though the results do not appear erratic on this sheet, the meridians probably are not very reliable. The declinatoires were standardized at Green Lake Magnetic Station, Seattle, Washington, previous to the field season under the same conditions and therefore the compass error is not given. ignore meridians. ✓

GEOGRAPHIC NAMES:

The following geographic names are shown in pencil on the sheet, were taken from Charts Nos. 8244 and 8255, are used locally and should be retained:

Baranof Island

Marshall Island

Indian River
Cannon Island
Minett Island
Dove Island
Ring Island
Guertin Island
Ellsworth Cut
Harris Island

^{or}
Kutk³in Island
Morne Island
Gilmore Islands
The Twins
Katz Island
Eastern Channel
Jamestown Bay

Mr. Bolshannon, Deputy Customs Collector, of Sitka, verified the local usage of these names.

No new names are suggested.

DOCKS:

The small docks shown on this sheet, do not extend out to the low water line and can be reached only by small boats at high tide. They are merely two rows of piling secured together by stringers. ✓

JUNCTIONS:

This sheet is joined by Topographic Sheet Office Register No. 6631 to the westward on Baranof Island, and to the westward on Kutk³in Island by Topographic Sheet Office Register No. 6632. Satisfactory junctions were made. To the northward a satisfactory junction was made with the form line sheet, Topographic Sheet Office Register No. 6637. No previous survey to the eastward was available. ✓

MISCELLANEOUS:

In Latitude 57° 03.- 135 meters, Longitude 135° 19. -404 meters, there is shown a point in the center of a small black circle, with a note "See Descriptive Report". This point indicates the center of the intersection of the rights of way of Jeff Davis and Lincoln Streets and is one of the control points for the blueprint of the Sitka street plan, submitted with Topographic Sheet Office Register No. 6331. It should be noted that this is not the intersection of the roadways as used, but of the rights of way.

B.P. filed
in library.

STATISTICS:

Shoreline in statute miles	12.3
Area in square statute miles	1.0
Roads in statute miles	2.5

Respectfully submitted,

H. C. Applequist
H. C. Applequist
Aid, C.&G. Survey

APPROVED AND FORWARDED:

G. W. Jones
G. W. Jones
Chief of Party

T-6633

Remarks.

Decisions

1		570350 USCB
2		570352
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		570353
12		"
13		"
14		"
15		"
16		"
17		"
18	For title only	570355
19		
20		
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27		

GEOGRAPHIC NAMES

Survey No. T-6633

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Baranof Island</u>										1
<u>Jamestown Bay</u>										2
<u>Cannon Island</u>										3
<u>Minett Island</u>										4
<u>Dove Island</u>										5
<u>Guertin Island</u>										6
<u>Ring Island</u>										7
<u>Ellsworth Cut</u>										8
<u>Harris Island</u>										9
<u>Marshall Island</u>										10
<u>Eastern Channel</u>										11
<u>Mogne Island</u>										12
<u>The Twins</u>										13
<u>Gillmore Islands</u>										14
<u>Katz Island</u>										15
<u>Indian River</u>										16
<u>Kutkan Island</u>										17
<u>Sitka Sound</u>										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved

by L. Heck on 6/27/39

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } ~~xxxxxx~~
~~PHOTOGRAPH~~ } No. T-6633

received April 29, 1939
 registered June 22, 1939
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
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30			
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62			
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82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ JBR

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6633 (1938) FIELD NO. C

Jamestown Bay and Vicinity, Sitka Sound, S. E. Alaska.

Surveyed in July, 1938, Scale 1:5,000

Instructions dated March 7 and May 5, 1938 (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 with T-6631 (1938) on the northwest is satisfactory. As already stated in the review of T-6632 (1938), that survey and the present one differ by about 20 meters in the delineation of the offshore extent of the reef on the eastern side of Kutkan Island. Elevations in lat. $56^{\circ}02.5'$, long. $135^{\circ}16.4'$ on the present survey differ somewhat from those on T-6637 (1938). The present survey is accepted as most nearly correct in cases of difference.

2. Comparison with Prior Surveys.

a. H-1439 (1879), 1:15,000 (contains topography)

This is a fairly comprehensive reconnaissance survey covering most of the area of the present survey. It is, of course, much inferior to the present survey and should be disregarded in future charting of the common area.

b. T-2150 (1893), 1:10,000; T-2290 (1893-97), 1:40,000.

T-2150 is a shoreline survey; T-2290 is original only as regards formlines and other inland detail. Both cover the entire area common to the present survey. The old surveys are considerably generalized, groups of islands agreeing fairly well in position and total extent with the present survey but differing possibly in number and detail. Formlines on the old surveys are at 200 foot intervals and no elevations are shown. The present survey should supersede the old surveys in future charting of the common area.

c. T-2150a (1920), 1:5,000

This survey covers that portion of the present survey west of long. $135^{\circ}18.9'$ on Baranof Island. Agreement of common detail is fair. There have been some changes about the small piers. The present survey is much superior to the old and should supersede it in future charting of the common area.

3. Comparison with Chart 8244 (New Print date June 11, 1937)
Chart 8255 (New Print date May 24, 1939)
Chart 8281 (New Print date June 2, 1939)

Within the area of the present survey the charts are based principally on surveys discussed in the foregoing paragraphs. Some information in the vicinity of Sitka is charted from the Sanborn map of the town, various Land Office maps, etc. The present survey adequately covers the detail from the old sources and should supersede all such information in future charting of the common area.

4. Condition of Survey.

- a. The descriptive report satisfactorily covers all items of importance.
- b. The field drafting is satisfactory.
- c. Sunken rocks shown on the present survey as covered 1 ft. at MLLW, have, in accordance with standard office practice, been shown on the contemporary hydrographic surveys as rocks awash at MLLW and should be charted as such. Similarly, where the amount by which a rock awash bares, differs on the hydrographic surveys, the latter should be accepted as most nearly correct.

5. Compliance with Instructions for the Project.


Satisfactory.


6. Additional Field Work Recommended.

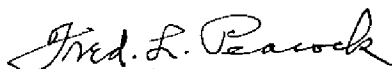
None.

7. Reviewed by - J. A. McCormick, September 11, 1939.

8. Inspected by - H. R. Edmonston.


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


K. T. Adams
Chief, Division of Charts.


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


G. H. Wade
Chief, Division of H. & T.

T-6633

Detail in green ink was added in August 1950 from
1942 9-Lens photographs field inspected in 1947

by S. Blankenbaker

L. C. Lande
L. C. Lande, Chief
Graphic Compilation Section
Division of Photogrammetry