

APR 22 1939

Acc. No. _____

6637

6637

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

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No. 6637.

State S.E. Alaska

LOCALITY

~~Northward of Sitka Harbor & Sitka~~
SITKA TO MOUNT VERSTOVIA
Sound

~~Sitka, Alaska~~

1938.

CHIEF OF PARTY

G. C. Jones.

Applied to reconstruction of Chart 8244 - 11/6/39 - JFW

Applied to Chart 8255 11/9/39

Chas R. Bush J

" " " 8281 Feb. 26, 1940

K.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. _____

REGISTER NO. 6637. T6637

State S.E. Alaska

General locality Sitka, Alaska

Locality Sitka to Mount Verstovia
Northward of Sitka Harbor & Sitka Sound.

Scale 1:10,000 Date of survey August, 1938.

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

Chief of party G. C. Jones

Surveyed by John C. Ellerbe

Inked by John C. Ellerbe

Heights in feet above M.H.W. to ground to tops of trees

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

Instructions dated March 7, 1938.

Remarks: _____

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET ACC. NO. 6637

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

PROJECT NO. HT-220

1 9 3 8

- o -

G. C. Jones, Chief of Party, C. & G. S.

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET ACC. NO. 6637

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

PROJECT NO. HT-220

1 9 3 8

AUTHORITY:

This survey was executed under authority granted in Director's instructions for project No. HT-220, dated March 7, 1938. ✓

EXTENT:

This survey is essentially a form line survey of the area to the northward of Sitka Harbor and Sitka Sound. Incidentally, several other features, such as Swan Lake, Indian River, and a small amount of road were included. The sheet extends from Cascade Creek on the west to ~~Arrowhead~~ on the east. ✓ ✓
Mt. Verstovia

GENERAL DESCRIPTION:

The area covered by this sheet consists generally of three long, narrow, steep-sided ridges, from 2100 to 3300 feet high, running in a general northeasterly direction from Sitka Sound, and having deep valleys of considerable extent between them. The brow of the easterly ridge is known locally as Mt. Verstovia, and a short distance beyond is a 3354 foot peak known as Arrowhead. Northeast of Sitka is a long, shallow valley, extending well back inland, and rising fairly precipitously at its outer edges to the ridges on either side. See par. on Geographic Names. ✓

Cascade Creek rises well back in a long, rather steep, valley - almost 2000 feet high at its inner end - bound on either side by ridges from 2600 feet to 3000 feet. ✓

The area south of the 100 foot form line is low and comparatively flat. It is described in the reports for topographic sheets Nos. 6631 and 6633. ✓

CONTROL:

Control for this survey was triangulation executed by G. C. Jones, in 1938. ✓

SURVEY METHODS:

Since it was practically impossible to run traverses into the interior of Baranoff Island, all of the elevations shown on this sheet were obtained by intersections of cuts from various triangulation stations. The stations occupied were "BATTE", "JAP", "DON", "NAVY", "ALEUT", "CHIP", and "TWIN". ✓

Swan Lake and the adjacent road was rodded in from a traverse beginning at a three point fix in the Pioneer's Cemetery and carried along the road to the south end of the lake, thence northwestward to a junction with topographic sheet No. 6631. ✓

Another traverse was begun at a three point fix just south of the Mission School and carried along the road to the foot bridge across Indian River, where a junction was made with a traverse run up the river on topographic sheet No. 6633. This traverse was run for the special purpose of locating as much as possible of Indian River, and no other features along its route were located on this sheet. ✓

All traverses connected within the specified limits. ✓

COMPARISON WITH PREVIOUS SURVEYS:

Previous form line surveys in this vicinity were scanty and not very accurate; therefore a thorough comparison could not be made. ✓

Only two discrepancies of note were found in the elevations observed - Arrowhead, instead of being 3216 feet high, as charted, is 3354 feet, and Mt. Verstovia, instead of the charted 2597 feet, is only 2385 feet. Both of these elevations were checked by cuts and vertical angles from several points, and are correct. See par. on Geographic Names.

The present survey should be taken as correct in its entirety, should any other discrepancies occur in comparing this sheet with sheets not available to this party. ✓

GEOGRAPHIC NAMES:

Arrowhead - This peak is shown as Mt. Verstovia on Charts 8244, 8252, 8255, and 8281. According, however, to local usage, Arrowhead is the correct name for it, and it is recommended that the name be changed accordingly. Section of Geog. Names approves Mt. Verstovia. J.A.M.

Mt. Verstovia - The lower shoulder on the southwest side of the ridge of which Arrowhead is the highest peak, so called locally because its height approximates a verst (Russian unit of length). This peak is shown on Charts 8244, 8255, and 8281, as Cross Mountain, but locally Cross Mountain is a peak with a cross of snow at its summit, situated several miles to the southeastward. It is recommended that the charted name of this peak be changed to Mt. Verstovia. ✓

Not approved.
Further if
Mt. Verstovia
derives its
name from
the verst,
it is the
highest peak;
3500 ft; the
highest peak, 3354;
the lower, 2385.
J.A.M.

Gavan Hill - This name is in use locally and is found on charts of the area. It is recommended that the name be retained. ✓

The origin of all other names appearing on this sheet is included in the reports for topographic sheets Nos. 6631 and 6633. ✓

CHANNELS, ANCHORAGES, ETC.

Since this sheet is essentially a form line sheet, no data on these features was recorded. Such information is contained in reports on adjacent topographic sheets. ✓

MAGNETICS:

A comprehensive magnetic survey of Sitka Harbor was attempted with the declinoire on this sheet, but trouble was encountered at several stations in obtaining the same magnetic meridian on different parts of the sheet. Subsequent investigation revealed that the planetable board was held together by iron screws, which made the observations worthless. Therefore, the stations concerned were reoccupied with the compass declinometer. A separate report has been submitted on this work. ✓

The magnetic meridians by declinoire were preserved and inked however, as a matter of curiosity. They may easily be removed from the sheet if desired. ✓

Disregard
meridians.

Compass declinometer No. 182 was used for these observations, but as the standardization was performed on one of several boards containing iron screws, no positive error could be computed. All declinoire observations by this party during the season are considered worthless for the above reason. ✓

HYDROGRAPHIC STATIONS:

No marked hydrographic stations were established. ✓

DISTORTION:

No distortion was noted on this sheet during the field work. ✓

STATISTICS:

Statute Miles of Shoreline (Lake and river)	1.7
Statute Miles of road	1.2
Number of elevations	87
Area in square statute miles	9.2

Respectfully submitted,



John C. Ellerbe,
Jr. H. & G. Engr., C. & G. S.

APPROVED AND FORWARDED:



G. C. Jones, H. & G. Engr.,
Chief of Party, C. & G. S.

T-6637

Remarks

Decisions

1		570353
2		570352
3	<i>Arrowhead. the peak of Mt. Verstovia.</i>	"
4	To be referred DGN: do not ink	570353 USGB
5	To be referred DGN: do not ink	"
6		"
7		" USGB
8		"
9		"
10		"
11		570350 USGB
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-6637

Name on Survey	GEOGRAPHIC NAMES Survey No. T-6637									
	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>Cascade Creek</u>										1
Cascade Creek										2
Arrowhead										3
<u>Mount Verstovia</u>										4
<u>Indian River</u>										5
<u>Swan Lake</u>										6
<u>Sitka</u>										7
<u>Pioneers' Cemetery</u>										8
<u>Sitka Harbor</u>										9
<u>Gavan Hill</u>										10
<u>Baranof Island</u>										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Number transferred in previous survey

by L Heck on 6/27/39

M 234✓

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTO STATION~~

~~NOCH~~

No. T-6637

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			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
----	------------

✓ *TBR*

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6637 (1938)

Sitka to Mt. Verstovia, Sitka, S.E. Alaska
Surveyed in August, 1938, Scale 1:10,000
Instructions dated March 7, 1938 (Explorer)

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Jones
Surveyed by - J. C. Ellerbe
Inked by - J. C. Ellerbe

1. Junctions with Contemporary Surveys.

The present survey overlaps T-6631 and T-6633 of 1938 for form lines and a small amount of detail in the vicinity of Swan Lake and Indian River. The overlaps are satisfactory except in Lat. $57^{\circ}02.5'$, Long. $135^{\circ}16.4'$ where several elevations on the present survey conflict with those on T-6633 (1938). Present elevations should be disregarded in this vicinity.

2. Comparison with Prior Surveys.

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

The old survey is lacking in form line detail which is the principal feature of the present survey. Elevations of 3216 and 2597 feet (both charted) on Mt. Verstovia and the shoulder to the southwest compare with 3354 and 2385 feet on the present survey. The outline of Swan Lake resembles that on the present survey but covers considerably more area. The present survey is much superior to H-1439 in methods and detail and supersedes it in the common area.

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

Like the present survey, T-2290 is primarily a form line survey. There is a similarity to the hill patterns on the two surveys but the 100 foot form line intervals and the numerous elevations on the present survey are much superior to the 200 foot interval on the old survey. Elevations undoubtedly were obtained on the latter but none are shown. The present survey supersedes T-2290 in the common area.

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

Within the area of the present survey the charts are based on surveys discussed in the foregoing paragraphs.

4. Condition of Survey.

Satisfactory.

5. Compliance with Instructions for the Project.

Satisfactory.


6. Additional Field Work Recommended.

None.

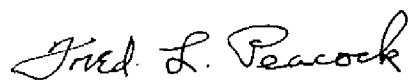
7. Reviewed by - J. A. McCormick, September 14, 1939.


8. Inspected by - H. R. Edmonston.

Examined and approved:


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

K.T. Adams
Chief, Division of Charts.


Chief, Section of Field Work.


Chief, Division of H. & T.