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U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 29 1939

Acc. No.

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

DESCRIPTIVE REPORT

Topographic }
~~Hydrographic~~ } Sheet No. "D"
6634

State S. E. Alaska

LOCALITY
Sitka Sound

~~Japonski Island - Sitka Sound~~

East End of Japonski Island

1938.

CHIEF OF PARTY

G. C. Jones

U. S. GOVERNMENT PRINTING OFFICE

6634

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 29 1939

REG. NO.

Acc. No.

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. "D"

REGISTER NO. 6634. T6634

State S. E. Alaska

General locality Sitka Sound

Locality East End of Japonski Island

Scale 1:1,000 Date of survey June, 1938.

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~~ ~~From line~~ interval 5 feet

Instructions dated May 5, 1938.

Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET FIELD LETTER "D" 1938

OFFICE REGISTER NO. 6634

JAPONSKI ISLAND - SITKA SOUND

S. E. ALASKA

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G. C. JONES, CHIEF OF PARTY, C. & G. S.

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DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET FIELD LETTER "D" 1938
OFFICE REGISTER NO. 6634
JAPONSKI ISLAND - SITKA SOUND
S. E. ALASKA

AUTHORITY:

Authority of this survey is contained in the Director's Instructions dated May 5, 1938. ✓

SCALE:

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

EXTENT:

This sheet covers the southeastern part of Japonski Island. ✓

CONTROL:

Control for this survey was furnished by triangulation executed in 1938, by this party. ✓

SURVEY METHODS:

Due to the large scale of this survey it was necessary to somewhat modify the regular topographic methods. However, setup positions were in general obtained by traverse and by three point fixes. ✓

A level rod was used as a stadia rod. The rod was standardized by measuring the intercept obtained at the following distances: (measured with a tape) 10, 15, 20, 30, 40, 50, 60, 70, and 100 meters. Three readings were taken at each distance and from the mean of these readings a table was made up showing the intercept for every meter from 10 to 100. ✓

No stadia shots over 60 meters were used in carrying the traverse, and they were checked frequently with a tape. Traverse distances over 60 meters were all measured with a tape. In the location of detail, no stadia shots over 100 meters were taken. Much of the detail, such as buildings, walks, etc., were measured with the tape. ✓

The alidade was used as a level in carrying the H.I. on the shoreline traverses and the High and Low Water Lines were leveled in. The tide staff maintained at the dock was used as the basis for the elevations. The Low Water Line shown is the Mean Lower Low Water Line which was taken as 3.2 on the tide staff. The High Water Line shown is the Mean High Water Line and was taken as 9.3 on the staff. This agreed very well with the values obtained when computed from the marigrams.] Evidently 9.3 means ft. above plane of reference.

Vertical angles were used in carrying the H.I. on the traverses back from the shoreline. The H.I. was carried to tenths of a foot and elevations for contouring, taken to the nearest foot. ✓

TRAVERSES AND CLOSING ERRORS:

A traverse was run from Δ"NAVY", southeast around the point of the island and from there around to the westward, tying in on Δ"WEST RADIO TOWER". The center of the three legs was assumed to be directly under the top of the tower. The closing error was 0.6 meters, and this error was adjusted over the traverse. Another traverse, with numerous supplementary setups, was run from Δ"NAVY" back inshore through the woods and closing in on Δ"NUT". The closing error was 2.3 meters, which seemed rather large, but as this traverse was used only for contouring the error was roughly distributed over the traverse. Three point fixes were used over the remainder of the sheet. ✓

GENERAL DESCRIPTION OF AREA:

The shoreline consists mostly of gravel beaches and practically all of the area between high and low water is gravel. Back of the shoreline are low hills. The area around the Naval Base buildings has been cleared. The remainder is heavily wooded. The area shown on the sheet with the symbol for broad-leaved trees was at one time cleared but alder and brush have since grown up. ✓

COMPARISON WITH PREVIOUS SURVEYS AND CHARTS:

The scale of the previous Coast Survey surveys does not permit comparison. All the buildings, radio towers, and other detail were located and are shown on this sheet and anything shown on the chart and not shown on this sheet, should be removed from the chart. ✓

JUNCTIONS:

Satisfactory junction was made with sheet Field Letter "A",

Office Registry No. 6631, to the west and north. No other sheets adjoined. ✓

CONTOURS AND ELEVATIONS:

The contour interval is five feet. Numerous elevations were taken in order to insure accuracy in contouring. All elevations are ground elevations. ✓

GEOGRAPHIC NAMES:

Only those names shown on existing charts are penciled on this sheet. No new names or changes are suggested. ✓

COMPARISON WITH HYDROGRAPHIC SHEET OFFICE REGISTER NO. 6351:

The sheet was carefully compared with the hydrographic sheet for this area. No discrepancies were found. ✓

MAGNETIC MERIDIANS:

No magnetic meridians are shown on this sheet. An attempt was made to obtain a magnetic meridian at "NUT". No consistent results could be obtained. The meridian varied as much as 45 degrees when the declinoire was shifted slightly. Later it was discovered that the planetable screws were of magnetic material and any meridians obtained would have been questionable. ✓
Probably means 45 minutes.

MISCELLANEOUS:

At the time this party left Sitka, the Navy was beginning to make several changes in this area. The dock was to be rebuilt or enlarged. The hill south of the buildings was being cleared and several other changes were contemplated. The Commanding Officer of the Base did not volunteer any information as to what changes were to be made and no attempt was made to obtain this information. ✓

Respectfully submitted,

H. C. Applequist

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

Topographic sheet and descriptive report have been examined by me and are approved and forwarded.

G. C. Jones
G. C. Jones,
Chief of Party, C. & G. S.,
Comdg. U.S.C. & G.S.S. EXPLORER.

LIST OF HYDROGRAPHIC SIGNALS

Tea - Center east face small building.

Let - Center northeast face small building.

Flag - Flagpole at Naval Base.

B.M. No. 4

B.M. No. 5

Pig - Banner.

Hen - Banner.

Bug - Banner.

STATISTICS

Statute miles of shoreline	1.1
Area in square statute miles:	0.1

T-6634

	Remarks	Decisions
1		570353
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3	For title only	570 355
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GEOGRAPHIC NAMES

Survey No. T-6634

Name on Survey	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
	A.	B.	C.	D.	E.	F.	G.	H.	K.
<u>Sitka Harbor</u>									1
<u>Japonski Island</u>									2
<u>Sitka Sound</u>									3
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This name has been approved
 by L. Heck on 6/27/39

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOGRAPHIC~~

~~XXXXXX~~
NO. 11

No. T-6634

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
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RETURN TO

82	T. B. Reed
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✓ *1030*

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6634 (1938) FIELD NO. D

East End of Japonski Island, Sitka Sound, S. E. Alaska
Surveyed in June, 1938, Scale 1:1,000.
Instructions dated 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 junctions with T-6631 (1938) on the west are satisfactory.

2. Comparison with Prior Surveys.

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

The above reconnaissance survey is much inferior to the present survey and is superseded by the latter in the area common to both.

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

T-2150 is a shoreline survey covering the area of the present survey. In this particular area T-2290 contains only detail copied from T-2150. The old surveys are highly generalized and, being on a much smaller scale than the present survey, cannot approach its accuracy and detail. The present survey, supersedes the old surveys in the common area.

c. T-2150a (1920), 1:5,000, T-4013 (1923), 1:5,000, T-4013a (1924), 1:10,000.

These are revision surveys containing only a very little information in the vicinity of the Navy pier. The present survey adequately covers this information and supersedes the old surveys in the common area.

3. Comparison with Chart 8244 (New Print of June 11, 1937).

Within the area of the present survey the chart is based principally on surveys discussed in the foregoing paragraphs. Such information as has been charted in this area from miscellaneous sources such as Chart Letters, etc. is adequately covered by the present survey.

4. Condition of Survey.

- a. The descriptive report covers all items of importance.
- b. The field drafting is very good.

5. Compliance with Instructions for the Project.

Satisfactory.

6. Additional Field Work Recommended.

None.

7. Reviewed by - J. A. McCormick, September 12, 1939.

8. Inspected by - H. R. Edmonston.

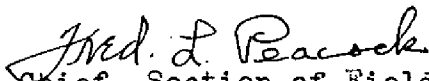
Examined and Approved:



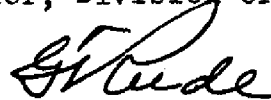
T. B. Reed,
Chief, Section of Field Records,



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.