

6588

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. 177

State Southeast Alaska

LOCALITY
Sumner Strait

~~Warren Island~~

~~Warren & Koonincho Islands~~

~~Borlase~~

Point Borlase to Warren Channel

1937.

CHIEF OF PARTY

G. C. Jones

U. S. GOVERNMENT PRINTING OFFICE

6588

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Applied to Ct 8173 - 11/8/38

PBC.

" " " 8152 2/5/39

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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. "F"

REGISTER NO. **T6588**

State SE. Alaska
General locality Sumner Strait ~~Warren & Kosciusko Islands~~
~~Southeast Alaska~~
Locality Point Barlowe to Warren Channel
~~Warren Island and Kosciusko Island~~
Scale 1:20,000 Date of survey June, 19 37
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~~
~~Contours, Approximate contours~~, Form line interval 100 feet
Instructions dated July 16, 19 36.
Remarks: _____

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET NO. "F-1937"

WARREN ISLAND - KOSCIUSKO ISLAND

SOUTHEAST ALASKA

G. C. JONES, CHIEF OF PARTY, C. & G. S.,
COMMANDING Ship EXPLORER

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET NO. "F-1937"

WARREN ISLAND - KOSCIUSKO ISLAND

SOUTHEAST ALASKA

AUTHORITY:

Authority for this survey is contained in the Director's Instructions dated July 16, 1936, Project No. H.T.-211. ✓

SCALE:

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

LIMITS:

This sheet covers the northern part of Warren Island from Point Borlase to the north side of False Cove, and on Kosciusko Island from the west side of Halibut Harbor northward to about one mile south of Cape Pole. ✓

CONTROL:

Control for this survey was furnished by triangulation executed in 1922 by T. J. Maher, in 1936 by H. A. Karo and in 1937 by G. C. Jones. The triangulation was based on the North American 1927 Datum. ✓

SURVEY METHODS:

Stadia and traverse were used on the north side of Warren Island with no deviation from standard practice. The traverses closed well within the prescribed limits. ✓

In Warren Channel the topographic signals were cut in from setups at triangulation stations and planetable positions were determined by three-point fixes. All detail was rodded in. ✓

GENERAL DESCRIPTION OF AREA:

Warren Island is hilly and heavily wooded. The shoreline is rocky with a few offlying rocks and rocks awash, all comparatively close in. Kelp grows all along the shoreline. ✓

On the part of Kosciusko Island shown on this sheet, the area back of the shoreline consists of a low, wooded ridge, paralleling the shoreline. The shoreline is rocky, with numerous rocks and rocks awash close in. Kelp grows all along the shoreline. ✓

Excepting a small sand beach on Warren Island, the area between the high and low water lines consists of rocky reefs and ledges.

FORM LINES AND ELEVATIONS:

Topographic Sheet Office Register No. 4006 covers this portion of Warren Island and was listed as a satisfactory survey. By inspection, the form lines appear to adequately represent the configuration of this area and no further work was believed necessary.

On Kosciusko Island the form line interval is 100 feet. The low ridge back of the shoreline was the only area form lined on this sheet.

All elevations are ground elevations and were taken with the planetable alidade. 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.

KELP AND LOW WATER LINE:

The low water line in this area was surveyed by the topographer. Small corrections were made in the small bay about 1,000 meters east of triangulation station "BOR-LASE" where the topographer's low water line did not entirely agree with that of the hydrographer. The kelp limits are a combination of the efforts of the topographer and the hydrographer.

GEOGRAPHIC NAMES: ✓ GHE

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

COMPARISON:

Topographic Sheet Office Register No. 4006 covering Warren Island was listed as a satisfactory survey in the instructions for this project. The location of signals for hydrography and the correction of existing discrepancies was the only topographic work required. Before the field work was started, the rocks and shoreline were transferred to this sheet. When the survey was begun, considerable disagreement in the position of the shoreline was found. Since very little additional work was required it was considered advisable to resurvey, completely, the shoreline. In some places the shoreline was found as much as 150 meters out of position.

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

JUNCTIONS:

The paragraph on comparisons covers the junctions on Warren Island. Any attempts to secure a satisfactory junction would entail a complete survey of the entire island.

On Kosciusko Island this sheet joins satisfactorily with sheet field No. "E-1937" to the north. No photostat of the old survey of the area to the southeast is available.

LANDMARKS:

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

MAGNETIC DECLINATIONS:

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

See par. 5b, review.

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

STATION	DECLINATION		DIFFERENCE
	Declinomater-Declinatoire		
	o	o	o
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, Declinatoire-Declinomater			-0.8

These three stations are on T-6587 (1937)

These three stations are on T-6587 (1937).

STATISTICS:

Statute Miles of Shoreline.....	12.4
Area, in Square Statute Miles.....	2.5

Respectfully submitted,

H. C. Applequist

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

Topographic Sheet Field No. "F-1937",
and the descriptive report pertaining thereto, have been examined
by me and are approved and forwarded.

T-6588

G. C. Jones

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

Remarks

Decisions

1		See T-6584
2		
3	"Pt. Borlase" on USGS is 2 miles N.E. of point so named on chart.	See Vancouvers Chart
4		
5		See T-6587
6	Feature off limits of this sheet	
7	Feature off limits of this sheet	USGB decision
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GEOGRAPHIC NAMES

Survey No. T-6588

GEOGRAPHIC NAMES											
Survey No. T-6588											
Name on Survey	<div>On Chart No. 8152</div> <div>On previous survey No. H-1479</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map Bakers Dict.</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>										
	A,	B,	C,	D	E	F	G	H	K		
<u>Sumner Strait</u>	✓									1	
<u>Warren Island</u>	✓	✓	✓			✓				2	
<u>Point Borlase</u>	Pt Borlase	H-1749 Borlase ✓?				Borlase ✓				3	
<u>Warren Channel</u>	✓		✓			✓				4	
<u>Kosciusko Island</u>	✓									5	
<u>Halibut Harbor</u>	✓	T-2641	✓			✓				6	
<u>False Cove</u>	✓									7	
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Names underlined in red approved

by KHE on 5/25/38

M 234

Names underlined in red approved

by KHE on 5/25/38

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } ~~xxxxx~~
 PHOTOSTAT OF } No. T- 6588

{ received April 26, 1938
 { registered May 7, 1938
 { 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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✓ JBR

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6588 (1937) FIELD NO. F
Point Barlowe to Warren Channel, Summer Strait, S.E. Alaska.
Surveyed in June, 1937, Scale 1-20,000.
Instructions dated July 16, 1936 (EXPLORER)

Plane table survey.

Aluminum Mounted.

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

1. Condition of Survey.

- a. The survey is neat and legible and conforms to the requirements of the Topographic Manual.
- b. The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Junctions with Contemporary Surveys.

- a. The junction with T-6587 (1937) on the northeast is satisfactory.
- b. Discrepancies exist in the overlap with T-4006 (1922) on the south and southwest but the junction is acceptable for charting purposes. See par. 4, this review, for further discussion of the older survey.
- c. There is no contemporary survey on the southeast nor is any contemplated in the instructions. The overlap with old work is satisfactory, however, for charting purposes.

4. Comparison with Prior Surveys.

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

These two sheets are in reality a single survey which covers the entire area of the present work. The principal features on the old survey are in fair agreement with the present survey but the secondary control is widely spaced and the shoreline is considerably generalized. The present survey, because of its larger scale, better control, and more detailed information, should supersede the old survey in future charting of the common area.

b. T-2641 (1903), 1-20,000.

This survey overlaps a very small portion of the present work on Kosciusko Island. Agreement of shoreline and contours on the two surveys is fair, but the present survey is undoubtedly the better and should supersede the old survey in future charting of the common area.

c. T-4006 (1922), 1-20,000.

This survey covers the Warren Island portion of the present work. Instructions for the present project contemplated only the establishment of hydrographic control on Warren Island, the shoreline and contours being considered satisfactory. So many discrepancies were noted in shoreline, however, that a considerable portion of it was relocated (see descriptive report, page 2, Comparison). Discrepancies on the old survey appear to be due to promiscuous sketching between control points as the control points themselves fit in very nicely with the present topography. Contours on the old survey were considered satisfactory and were not redetermined. The present survey should supersede T-4006 in future charting of shoreline and associated detail in the common area. Contours should be charted from T-4006.

5. Comparison with Chart 8173 (New Print dated April 19, 1937).

a. Topography.

Within the area of the survey the chart is based entirely on surveys discussed in the foregoing paragraphs.

b. Magnetic Meridian.

Three values of the declination determined with the declinoire on the present survey differ from declinometer values obtained on T-6587 (1937), the adjoining survey on the north, by 1°50' to 2°30' after a declinoire correction of minus 0°48' is applied (see descriptive report, page 3, Magnetic Declination). The matter has been referred to the Division of Magnetism.

6. Field Drafting.

The field drafting is satisfactory.

7. Additional Field Work Recommended.

No additional field work is required.

8. Reviewed by - J. A. McCormick, Dec. 5, 1938.

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.