

6679

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Form 504 Rev. April 1935	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Topographic	Sheet No. T-6679
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES JUL 24 1940 Acc. No.	
State	S.E. Alaska
LOCALITY	
Glacier Bay	
Willoughby Island and Vicinity	
1939	
CHIEF OF PARTY	
Benjamin H. ...	

U. S. GOVERNMENT PRINTING OFFICE

68

Part 1

Applied to chart 8306 Aug 26, 1940 D.A.M.

" " " 8202 via 8306 J.M.A. May 1942

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. C-1939

REGISTER NO. T-6679

T6679

State S. E. Alaska

General locality Glacier Bay

Locality Willoughby Island and vicinity

Scale 1-29,000 Date of survey September 5-26, 1939

Vessel Motor Vessel Westdahl

Chief of party Benjamin H. Rigg

Surveyed by G. A. Nelson

Inked by G. A. Nelson

Heights in feet above MHW to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval _____ feet

Instructions dated March 10, 1938, April 19, 1939, 19____

Remarks: Form lines to be determined on separate sheet.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET T-6679 (1939)

M.V. Westdahl

1939

Benjamin H. Rigg, Comdg.

AUTHORITY:

This survey was made under the Director's Instructions dated March 10, 1938 and Supplemental Instructions dated April 19, 1939.

LOCALITY:

This sheet was intended to cover Willoughby, Francis, and Drake Islands, and the shoreline on the mainland on the west, Glacier Bay, S. E. Alaska. Unfavorable weather prevented the completion of the northern half. Willoughby Island and short stretches of the coastline on either side of the two coves to the west are all that was accomplished. The two coves mentioned were surveyed on a separate sheet on a scale of 1-10,000 (T-6680¹⁹³⁹).

GENERAL DESCRIPTION:

Willoughby Island is mountainous. The eastern side is densely wooded to an elevation of about 1200 feet. Above that and on the eastern side which is a series of cliffs, the vegetation is sparse.

The shoreline is bold thruout with the exception of a small area at its northeastern end. Here a gravel and boulder bar connecting the larger of the two small offlying island, helps form a small cove in which are located the buildings of a fox farm.

LANDMARKS:

There are none of prominence.

METHOD OF SURVEY:

Standard plane table methods were used thruout.

Traverses run were:

	Distance	Closing error
Star, 1938 - Mars, 1938	1.5 miles	5 meters
Mars, 1938 - Manx, 1938	1.7 miles	8 meters, adj.

Station PARK is a marked topo station. It was located by three cuts from triangulation stations intersecting perfectly.

All drainage shown was obtained from the 3 lens aerial photographs furnished by the office. The photographs were not otherwise used except for comparative purposes.

ELEVATION:

These were obtained by vertical angles and are to ground elevation referred to mean high water.

No form lines were obtained as instructions call for a separate form line sheet on a scale of 1-80,000.

DECLINATOIRE OBSERVATIONS:

Declinatoire #209 was used for all observations. This instrument was standardized at Lincoln Park, Seattle, Washington, November 2, 1939 and the following results obtained

Mark - Alki Point Lighthouse

	39 - 44
	39 - 40
	<u>39 - 30</u>
Average	39 - 38
Azimuth of mark	<u>17 - 23</u>
Declinatoire variation	22 - 15
Variation from chart	<u>23 - 15</u>
Correction	+1 - 00

Station	Date	Scaled Value	Corr. Value
VENT 1939	Sept. 15, 1939	29-00	30-00
STAR 1938	Sept. 5, 1939	27-40	28-40

LIST OF OFFLYONG SIGNALS

Name	Lat.	Long.	Elev. (ft. above MHT)
ELSE 1939	58-35	136-09	12 ✓
STAR 1938	58-33	136-05	10 ✓

JUNCTIONS WITH OTHER SHEETS

This sheet joins Reg.T-6630⁽¹⁹³⁸⁾ on the south and unsurveyed area on the north. The missing area on the west is covered on a 1-10,000 scale sheet, Reg.T-6680⁽¹⁹³⁹⁾

STATISTICS

Shoreline, statute miles-----15.5

Area, square statute miles----- 6.0

See also Geographical Review Jan, 1937 Vol. XXVII-No. 1-Page 61 & 2 by Page I

SUGGESTED GEOGRAPHIC NAMES

WILLOUGHBY PASSAGE is suggested for the passage west of Willoughby and Drake Islands. This is a well defined passage separate from the main channel of Glacier Bay and deserves a name.

WILLOUGHBY COVE is suggested for the small indentation at the northeast extremity of Willoughby Island. It is partially protected from the ice by the two small islands and affords protection for small boats in all but southeasterly weather.

*See 9/50
G.N. 25,
1940.*

Respectfully submitted,

George A. Nelson
George A. Nelson
Jr. H. & G. Engr.
Topographer

Approved and forwarded

Benjamin H. Rice
H. & G. Engr.

Benjamin H. Rice

Remarks

Decisions

1		580 355 U.S.G.B.
2	Do not int pending U.S.G.B. decision.	585 360
3		585 360
4	Do not int pending U.S.G.B. decision	
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GEOGRAPHIC NAMES

Survey No.

T6679

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>Glacier Bay</u>									1
Willoughby Cove									2
<u>Willoughby Island</u>									3
<u>Willoughby Passage</u>									4
<u>Whidbey</u>									5
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Names underlined in red approved

by L. Heck on 8/12/40

Also 7/9/42

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~No. T~~

No. T

T6679

received July 23, 1940
registered July 24, 1940
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

DIVISION OF CHARTS

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6679 (1939) FIELD NO. C-1939

S. E. Alaska, Glacier Bay, Willoughby Island and Vicinity
Surveyed in September 5 - 26, 1939, Scale 1:20,000
Instructions dated March 10, 1938 and April 19, 1939
(WESTDAHL)

Plane Table Survey

Aluminum Mounted

Chief of Party - Benjamin H. Rigg.
Surveyed by - G. A. Nelson.
Inked by - G. A. Nelson.
Reviewed by - Harold W. Murray, Oct. 22, 1940.
Inspected by - H. R. Edmonston.

1. Junctions with Contemporary Surveys.

- a. The junctions on the west with T-6680 (1939) are satisfactory.
- b. The junction on the south with T-6630 (1938) is satisfactory.

2. Comparison with Prior Surveys.

T-2847 (1907) and T-2852 (1907), scales 1:40,000 and 1:80,000.

These surveys which were made in connection with the Alaska Boundary Survey appear to be identical except that they are on different scales. These surveys are quite generalized and consequently are only in fair agreement with the present survey. The present survey supersedes these surveys.

3. Comparison with Chart 8306 (New Print dated May 22, 1940)

a. Topography.

Topography shown on the chart originates with surveys discussed in the preceding paragraphs and no further consideration is necessary.

b. Magnetic Meridian.

The declinoire observation at triangulation station VENT agrees closely with the charted value. The observation of $28^{\circ}40'$ at triangulation station STAR in lat. $58^{\circ}33.7'$, long. $136^{\circ}05.4'$ differs $2^{\circ}11'$ with the interpolated chart

value of 30°51'. This discrepancy has been referred to the Division of T. M. & S.

4. Condition of Survey.

- a. The inking of the shoreline and other details is very good.
- b. The Descriptive Report is clear and satisfactorily covers all items of importance.

5. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.

6. Additional Field Work Recommended.

This is an excellent survey and no additional field work is necessary.

7. Superseded Surveys.

T-2847 (1907) in part
T-2852 (1907) in part

Examined and approved:



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



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.