

6680

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

DESCRIPTIVE REPORT

Topographic }
~~*Hydrographic*~~ } Sheet No. T-6680

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

JUL 24 1940

ACC. No.

State S.E. Alaska

LOCALITY

Glacier Bay

West of Willoughby Island

1939

CHIEF OF PARTY

Benjamin H. King
Benjamin H. King

U. S. GOVERNMENT PRINTING OFFICE

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. D-1938

REGISTER NO. 6680

State S. E. Alaska

General locality Glacier Bay

Locality West of Willoughby Island

Scale 1-10,000 Date of survey Sept. 12-Oct. 2, 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 100 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-6680 (1939)

M.V. Westdahl

Season 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 covers the two coves or bays on the mainland west of Willoughby Island, Glacier Bay, S. E. Alaska.

GENERAL DESCRIPTION OF COAST:

The area is mountainous and densely wooded. The valleys and flatter areas are in general evenly divided between deciduous and coniferous trees while the mountain slopes are almost wholly evergreen to an elevation of about 1200 feet. Above this for a distance of 300 feet additional elevation, a thick covering of alder is usually present before giving way to grass and bare rock. The shores in general are composed of glacial deposits of coarse gravel and boulders but the rise is precipitous and rocky back of high water line except for the peninsula dividing the two halves of the bay. This is low and flat, densely wooded, and typical glacial moraine.

LANDMARKS:

There are none worthy of special note.

METHOD OF SURVEY:

Standard plane table methods were used. Control into the heads of the two coves was carried by plane table triangulation.

All low water line was determined by the topographer at stages of the tide within 3 feet of MLLW, allowances being made

for the stage of tide other than at MLLW. *Some revisions necessary on hydro sheet because of sounding data.*

All drainage shown was obtained from the 3 lens aerial photographs furnished by the office. Other than this, and for comparative purposes, the photographs were not used.

ELEVATIONS:

The heights of all islands were obtained by vertical angles and are to ground elevation referred to MHT. A deduction of 50 feet was made for height of trees. Accordingly, the elevation of wooded areas may be in error as much as 25 feet as the height of trees varies considerably due to soil variations.

No attempt was made to complete the form lines on this sheet, although a few scattered elevations were obtained as the instructions call for a separate form line sheet on a scale of 1-80,000.

OFFLYING DANGERS:

As shown and noted. The height to which they bare was obtained by noting the time at which they were awash and referring to the stage of tide obtained from the Willoughby Id. gage.

DECLINATOIRE OBSERVATIONS:

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

Mark - Alki Pt. L. H.	39-44
	39-40
	39-30
Average-----	39-38
Azimuth of Mark	17-23
Declinatoire variations	22-15
Variation from Chart	23-15
Declinatoire Index correction	+ 1'-00'

3.

Station	Date	Scaled Value	Corr. Value
Vent, 1939	Sept. 15-39	29°-20'	30°20' ✓

LIST OF OFFLYING SIGNALS:

Name	Elev. (ft) above MHW	Elev. (ft) above MHW	
		Lat.	Long.
Ever, 1939	3	58°34'	136°11'
Hop	6	58°34'	136°10'
Cat	13	58°34'	136°12'
Mop	10	58°34'	136°12'
Han	8	58°35'	136°12'

GEOGRAPHIC NAMES: See Geographical Review Jan 1937-Vol XXVII No. 1 Pages 61 & 62 and Plate I

Willoughby Passage is suggested for the passage west of Willoughby Island. It is suggested that this name be carried northward to the northern extremity of Drake Island. This channel is well defined thruout its length.

Fingers bay is suggested for the bay covered by this sheet. Since the bay has a well defined northern and southern part, alternatives names would be North and South Twin Bay or North and South Willoughby Bay. They are both good anchorages, the southern one being preferable.

See also
G.N. 25,
1440.

JUNCTIONS WITH OTHER SHEETS:

This sheet join Reg. #6679 on both the north and south. (1939)

STATISTICS:

Shoreline, statute miles	13.8
Area, Square statute miles	5.5

Respectfully submitted,
George A. Nelson
George A. Nelson
Jr. H. & G. Engr.
Topographer

Approved and forwarded

Benjamin H. Rigg
Benjamin H. Rigg
H. & G. Engr.
Chief of Party

Remarks

Decisions

1	(also H6459) Do not ink pending U.S.G.B. decision	585360
2		580355 U.S.G.B.
3		585360
4	(also H6459) Do not ink pending U.S.G.B. decision ✓	.
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GEOGRAPHIC NAMES

Survey No. T6680.

GEOGRAPHIC NAMES										
Survey No. T6680.										
Name on Survey	<div>On Chart No.</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div>									
	A,	B,	C,	D	E	F	G	H	K	
<u>Fingers Bay</u>										1
<u>Glacier Bay</u>										2
<u>Willoughby Island</u>										3
<u>Willoughby Passage</u>										4
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Names underlined in red approved
by L. Heck on 8/12/40

Also 7/9/42

(vs. G. B. 5/27/42)

Whidbey Passage (vs. G. B. 5/27/42)

M 234

Names underlined in red approved

by L. Heck on 8/11/40

Also 7/9/42

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~No. 11~~

No. T

T6680

received July 23, 1940
registered July 25, 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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✓ HBC

DIVISION OF CHARTS

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6680 (1939) FIELD NO. D-1938

S. E. Alaska, Glacier Bay, West of Willoughby Island
Surveyed in September - October, 1939, Scale 1:10,000
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, October 22, 1940.
Inspected by - H. R. Edmonston.

1. Junctions with Contemporary Surveys.

- a. The junction on the north and on the south with T-6679 (1939) on a scale of 1:20,000 is satisfactory.
- b. The junction on the west with the form line survey will be considered when that survey is available in the office.

2. Comparison with Prior Surveys.

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

These surveys were made in connection with the Alaskan Boundary. Survey T-2847 covers the southern portion of the present survey whereas T-2852 entirely covers the present survey. Neither survey contains form lines. The general topographic features are of a reconnaissance nature and should be superseded by the present survey.

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

a. Topography.

Topographic information on the chart originates with surveys discussed in the previous paragraphs and no further consideration is necessary.

b. Magnetic Meridian.

The magnetic meridian agrees closely with the charted information.

4. Condition of Survey.

- a. The inking of the shoreline and other topographic information is very good.
- b. The Descriptive Report is clear and satisfactorily covers all matters 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 Required.

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

7. Superseded Surveys.

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

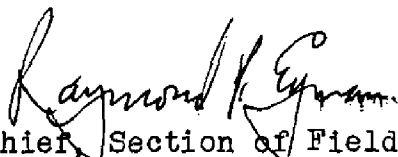
Examined and approved:



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



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.