

6629

U. S. COAST & GEODETIC SURVEY
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MAR 18 1939

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

DESCRIPTIVE REPORT

Topographic } Registry # T-6629
Hydrographic } Sheet No. Field # F-38

State S.E. Alaska

LOCALITY

Glacier Bay

Ripple Cove & Vicinity

1938

CHIEF OF PARTY

H. Arnold Kero

U. S. GOVERNMENT PRINTING OFFICE

Applied to drawing of Chart 8304 - 12/13/39 - J.F.P.

" " " " 8202 3/2/40

" " " " 8306 4/11/40

J.F.P.
J.F.P.

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. T-6629 (F-38)

REGISTER NO. T6629

State S.E. Alaska

General locality Glacier Bay

Locality ~~West Side - South End~~ Ripple Cove & Vicinity

Scale 1:20,000 Date of survey July, 1938

Vessel M.V. Westdahl

Chief of party H. Arnold Karo

Surveyed by D.H. Konichek

Inked by D.H. Konichek

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

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

Instructions dated March 10, 1938

Remarks:

General Information to Accompany All 1938

Topographic Sheets

Declinatoire and Alidade # 209 were used on all topographic sheets executed in 1938 which includes sheets having field no's, A-38, B-38, C-38, D-38, E-38, F-38, and G-38. Declinatoire # 209 was standardised at the Green Lake Magnetic Station at the beginning and at the end of the 1938 field season. The correction was found to be: $1^{\circ} 07' W.$ This value depends upon the standardization of compass declinometer # H-19 using a provisional index correction of $+5.2$ to Z declination (see Director's letter 40 - C H S dated Oct. 27, 1938) Standard methods were used for standardization of both the declinometer and compass declinatoire.

Heights of islands and rocks were obtained as follows: Heights of rocks covered at all stages of the tide were obtained by measuring the depth to which the telemeter rod was covered when held on the rock, and the time noted. Heights of objects bearing at some stages of the tide, but covered at other stages were obtained by estimating the amount bare at the particular time and noting that time. Heights of objects bare at all stages of the tide were obtained by estimating the height above H.W.L.

All estimations of height were made with a direct comparison with the length of the telemeter rod, ^{AND} where practical these heights were checked by depression or elevation angles taken with the alidade by determining the height of instrument from observations on the water surface at the time the other heights were taken.

Approximate elevations were noted in some instances and were specified to be approximate elevations on the sheets concerned.

Descriptive Report to Accompany Topographic
Sheet No. Register, #T-6629 , Field # F-1938.

(a) Glacier Bay, Alaska

(a) Date of Instructions:

Work was done under instructions dated March 10,
1938. Project H T-221. ✓

(b) General Description:

The land is low and heavily wooded except for a few
gravel and grass covered banks and the cliffs in the vicinity
of triangulation station FIVE 1938. The location nd approximate height
of each bank is noted on the sheet, but these features will offer
little in the way of assistance to the navigator. The cliff at ✓
about Lat. $58^{\circ} 28.0$ Long. $136^{\circ} 04.3$ is dark colored, and can
be seen and indentified from some distance. It is the only fea-
ture of its kind in the area. The notes and symbols on the sheet
describe the general character of the land better than can be done
in this report.

(c) Landmarks:

There are no landmarks: ✓

(d) Character of Control Used:

The control used was all 1938 triangulation. Refer to ✓
triangulation and season reports for 1938.

(e) ClosingErrors of Traverse Run:

The control points were numerous enough to eliminate ✓
any extensive traverses. No adjustment of topography was neces-
sary.

(f) Description of Auxiliary Survey Methods Used:

Ordinary survey methods were used. The approximate elevations noted on the sheet were estimated by the topographer, and are considered to be additional information which will aid in mapping when the 1:80,000 scale form line sheet of the area is completed and the work is coordinated in the office. ✓

The M.L.L.W. line was transferred from the hydrography wherever a definite M.L.L.W. line was obtained. ✓

(g) Form Lines:

The instructions did not require form lines on this sheet. A 1:80,000 form line sheet is in the process of being made. ✓

(h) Changes in Topography:

The only available old work seems to be the photographic survey made by the Alaska-Canada Boundary Survey in 1907 on an approximate scale of 1:80,000. The scale of the work and the method by which it was made preclude any benefit being derived from any attempt at minute comparison between the 1907 and the 1938 work. It appears from a casual comparison the photographic survey is approximately in agreement with the 1938 topography. ✓

(i) Completeness and Reliability:

All topography is complete and reliable except for form lines and elevations which are being done on a form line sheet. ✓

(j) Methods Used in Surveying:

The methods used conform to standard surveying practices. ✓

(k) Junctions With Previous Work:

This sheet joins other 1938 work at both ends and the junctions have been checked and found to be satisfactory. ✓

(1) Geographic Names:

The name Glacier Bay is of course the accepted name. ✓

Ripple Narrows was so named because of the high velocity of the currents in this part of the bay. It is estimated that at certain stages of the tide the currents through this area attain a velocity in excess of five knots. ✓

Ripple Cove and Ripple Point were named to conform with the name given the narrows. The geographic features of Ripple Point do not suggest any other name which in the opinion of the topographer would be more appropriate than Ripple Point.

There is an anchorage that could be used for small craft behind the H.W. island at approximately Lat. $58^{\circ} 28.8$ Long. $136^{\circ} 05.4$ It is thought that the island for this reason should be named, inasmuch as the feature is the only island in the vicinity, and is at the west side of the bay with no geographic features which suggest a name, it is suggested that it be called West Islet. ✓

(m) Comparison With Old Surveys:

See section (h) Of this report. ✓

(n) Character of Marshes and Low-Lying Ground:

The marsh noted on the sheet at approximately Lat. $58^{\circ} 28.2'$ Long. $136^{\circ} 05.3'$ is below H.W.L. and

is long grass on boggy ground being typical marsh grass area, as are all areas above H.W.L. indicated with marsh grass symbols. Except for the area mentioned above, all vegetation below H.W.L. indicated by the marsh grass symbol is short grass which is completely covered at H.W. This last mentioned grass is on a hard bottom of sand or gravel. The character of other low-lying ground is shown by symbols and notes on the sheet.

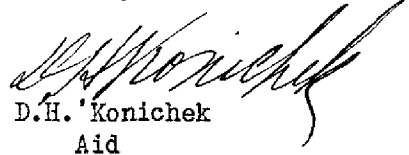
(0) Statistics:

Sheet Registry No. T-6629

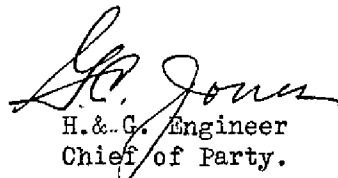
Field No. F-1938

13.2 Statute miles of shore line.

Respectfully Submitted,


D.H. Konichek
Aid

Approved and Forwarded,


H. & G. Jones
Chief of Party.

Remarks

Decisions

1		580355 USGB
2	Referred to DGN: do not ink pending decision	580360
3	Referred to DGN " " " " " "	580360
4	" " (Name ok for title and survey.) " " " " " "	580360
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GEOGRAPHIC NAMES

Survey No. **T-6629**

GEOGRAPHIC NAMES		Survey No. T-6629									
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>Glacier Bay</u>										1	
Rush <u>Ripple Point</u>										2	
Pinch <u>West Islet</u>										3	
<u>Ripple Cove</u>										4	
<u>Ripple Narrows</u>										5	
										6	
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Names underlined in red approved

by L. Heck on 7/5/39

Also 7/9/42

M 234

Names underlined in red approved

by L. Heck on 7/5/39

Also 7/9/42

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTATIC COPY~~

~~INDEXED~~

No. T-6629

received **Mar. 18, 1939**
registered
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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90			

RETURN TO

82	T. B. Reed
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✓ JBR

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6629 (1938) FIELD NO. F

Ripple Cove and Vicinity, Glacier Bay, Southeast Alaska
Surveyed in July, 1938, Scale 1:20,000
Instructions dated March 10, 1938 (WESTDAHL)

Plane Table Survey

Aluminum Mounted

Chief of Party - H. A. Karo
Surveyed by - D. H. Konichek
Inked by - D. H. Konichek

1. Junctions with Contemporary Surveys

Junctions with T-6627 (1938) on the south and T-6630 (1938) on the north are satisfactory. A 1:80,000 scale form line survey of the general area was retained in the field for completion during the 1939 season.

2. Comparison with Prior Surveys

T-2852 (1907), 1:80,000

The original of this survey is in the files of the Boundary Commission. Comparison was made with a reduced photographic copy. Because of its small scale, the old survey is considerably generalized but its principal features are in fair agreement with those on the present work. T-2852 should be superseded by the present survey in future charting of the common area.

3. Comparison with Chart 8306 (New Print dated April 13, 1939)

Within the area of the present survey the chart is based entirely on the survey discussed in the preceding paragraph.

4. Condition of Survey

- (a) The descriptive report satisfactorily covers all items of importance.
- (b) The field drafting is satisfactory.
- (c) Penciled low water line transferred in the field from contemporary hydrographic surveys has been left on the sheet.

5. Compliance with Instructions for the Project.

Satisfactory.

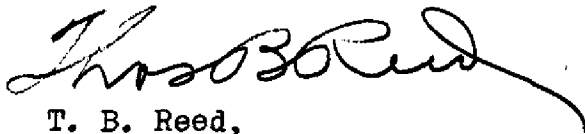
6. Additional Field Work Recommended

None.

7. Reviewed by - J. A. McCormick, June 22, 1939

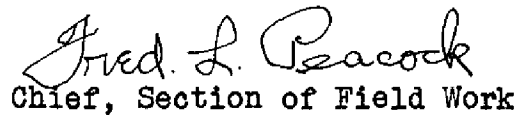
Inspected by - H. R. Edmonston

Examined and approved:

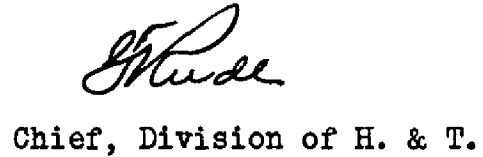


T. B. Reed,
Chief, Section of Field Records

K. T. Adams
Chief, Division of Charts



Chief, Section of Field Work



Chief, Division of H. & T.