

6518

(And Addl. Work, 1937)

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. A-36

State ~~Southeastern~~ Alaska

LOCALITY

~~RECENT~~ GASTINEAU CHANNEL

Ready Bullion Creek to Lawson Creek

1936

CHIEF OF PARTY

H. Arnold Karp

U. S. GOVERNMENT PRINTING OFFICE

6518

(And Addl. Wk. 1937)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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MAR 19 1937

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## 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 Letter A - 36REGISTER NO. T-6518State ~~Southeastern~~ AlaskaGeneral locality ~~Juneau~~, Gastineau ChannelLocality Ready Bullion Creek to Lawson CreekScale 1 : 10 000 Date of survey May - August, 19 36Vessel M. V. WestdahlChief of Party H. Arnold KeroSurveyed by D. H. KonichekInked by D. H. KonichekHeights in feet above ----- to ground to tops of treesContour Approximate contour Form line interval --- feetInstructions dated March 5th., 19 36Remarks: No contour or form lines drawn.

DESCRIPTIVE REPORT TO OCCOMPANY

TOPOGRAPHIC SHEET

A - 36

GASTINEAU CHANNEL

Project HT - 209

Instructions dated March 5, 1936

H. Arnold Karo, Chief  
of Party.



The ground on the northeast side of the channel rises sharply from HW line to the tops of the mountains, except in the area covered by the rock dump at the Alaska-Juneau Gold Mining Company. The average height of the rock piles is about twenty meters, and the fill is uneven and cut up. The ground on the southwest side of the channel rises rapidly for a short distance from the beach, and then levels off before sloping steeply to the peaks. The ground on which Douglas is located is almost level, and presents a good townsite.

The channel is narrow enough for almost any object to be a land mark to one familiar with the country, but Juneau Isle and the Rock Dump would certainly be valuable to anyone as navigational aids in thick weather.

Triangulation stations located in 1921 were ~~relocated~~, and were plentiful enough to allow a great deal of plane table triangulation on prominent points and objects. Frequent rod readings were taken to HW line, and all houses, roads, power and telephone lines, old piers, piling, etc. were rodded in.

The numerous control stations made closing errors negligible, and so no adjustment was necessary.

All geographic names were taken from USC&GS chart # 8235.

Objects outside of HW line have been described by notes or symbols on the sheet.

Sheep Creek Light, 1915, 1928 changed position when moved in 1928. It was relocated by plane table triangulation, and is shown on the sheet in its present position.

Rock Dump Light, 1929, 1930 was located by plane table triangulation. It was found to have changed slightly from its old position as shown on USC&GS chart # 8235. There are now two buoys in the vicinity of Rock Dump Light, put there after the party had left the working ground. They were established as a result of the 1936 hydrographic survey in the locality of the light. Refer to Notices to Mariners for descriptions and locations of

↳ L.H.N. to M # 50 (Dec. 9, 1936).



these buoys.

It has been reported that the greater part of the town of Douglas, including most of the water front, was destroyed by fire on Feb. 23, 1937. If such is the case, the topography in the town is obsolete as of the date of the fire.

BR\*30836  
The blueprint of Douglas townsite accompanying this sheet will probably still be useful as regards the street layout, regardless of the fire.

The area along the shore southeast of Douglas, including the area formerly known as Treadwell, is in a general state of ruin and disrepair. The houses are not occupied, and the tracks, flumes, mine buildings, etc. are not used or maintained. The exception to this is the iron foundry of the Alaska-Juneau Gold Mining Company, the buildings of which are located near triangulation station Found, 1921. This iron foundry still operates. Fire has destroyed many buildings in this area, and, in such cases, only the indefinite outline of the former structure<sup>s</sup> as indicated by concrete footings, concrete walls, and concrete foundations remain. These ruins were located and enclosed by zigzag lines. Explanatory notes were used to identify areas thus enclosed.

The houses in the town of Thane are still inhabited, but the other buildings are in a state of disrepair, and are not used.

The Standard Oil Company pier is rapidly being shoaled in by the sediment from the flume, as shown on the sheet. The Standard Oil Company is contemplating a change in their location soon, at which time they will abandon or destroy their present pier.

The configuration of the shore line around the rock dump will remain fairly constant if no more rock is dumped there by the Alaska-Juneau Company.

The general shore line does not vary greatly from that shown on USC&GS chart # 8235, except in the area<sup>s</sup> where piers have been destroyed or built, or where tailings from the mines have been shifted by the water or have been deposited directly by the hand of man. Channel currents constantly shift the fine tailings,



and changes caused by these currents can be noted readily, especially in the Treadwell area on the southwest side of the channel. No material on previous topographic surveys was furnished, so no comparisons can be made with the original work at <sup>4</sup>this time. *Comparison with prior surveys made by reviewer.*

Most of the MLLW line was transferred from hydrographic sheet # 1036, and was found to conform with the low water rod readings obtained by the topographer. That part of the MLLW line not available from the hydrographic sheet was obtained from rod readings taken by the topographer. A great deal of the area between HW line and MLLW line is covered by a fine black sand. This sand is really water washed ground rock from the mines. It was deposited originally by flumes from the mines, but has been since shifted by the water.

It is recommended that sometime during the 1937 field season, the Westdahl resurvey the area in the immediate vicinity of Douglas. The changes caused by the conflagration of Feb. 23, 1937 can then be incorporated with the 1936 work.

Approved and forwarded

*H. Arnold Kero*  
H. Arnold Kero, Chief of Party

Respectfully submitted

*D. H. Konichek*  
D. H. Konichek, Topographer



## Remarks

## Decisions

1		see H-6177
2		" "
3		USGB decision
4		see H-6177
5		
6		
7	OK for Topo sheet	Not a G.N.
8	OK for Topo sheet	Not a G.N.
9		<del>Not on this sheet</del> OK
10		<del>Not on this sheet</del> OK
11		see H-6177
12		
13		Lat. 58-14.8 Long. 134-20.15
14		see H-6177
15	Town about abandoned except for foundry see D.R. pg. 2	To be deleted from charts (ghost town)
16	Not shown on sheet	
17	so charted until Oct. 1920 changed to agree with D.R. 18644	Lat. 58-15.55 Long. 134-21.40
18		
19		
20		
21		
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26		
27		



# GEOGRAPHIC NAMES

Survey No. T-6518

GEOGRAPHIC NAMES		Survey No. T-6518										
Name on Survey	<div>On Chart No. 8235</div> <div>On previous survey No.</div> <div>On U. S. quadrangle Maps</div> <div>From local information</div> <div>USCP Bakers Dict On local Maps</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> <div>B.P. 17880-16644</div>											
	A	B	C	D	E	F	G	H	K			
<u>Gastineau Channel</u> ✓	✓ appd									1		
<u>Douglas</u> ✓	✓ appd									2		
<u>Thane</u> ✓	✓ appd									3		
<u>Douglas Island</u> ✓	✓ appd									4		
<u>Lawson Creek</u> ✓	✓	T-3850	✓						✓	5		
<del>Rock Dump</del> disapproved K.T.A. 2/18/36								✓		6		
Standard Oil Co. Wharf										7		
Union Oil Co. Wharf										8		
<del>snowslide</del> <u>Snow Slide Creek</u> ✓	✓	T-3850							✓	9		
<u>Cross Bay Creek</u> ✓	✓	T-3850							✓	10		
<u>Sheep Creek</u> ✓	✓ appd	T-3849 T-3849 T-2017	✓		✓				✓	11		
<u>Bullion Creek</u> ✓	✓	T-3849	✓		✓				✓	12		
<u>Ready Bullion Creek</u> ✓	✓	T-3849	✓		✓				✓	13		
<u>Juneau Isle</u> ✓	✓ appd									14		
<u>Treadwell</u> ✓	✓	T-3850		✓			✓		✓	15		
<u>Paris Cr</u> ✓	✓	T-2017	✓		✓				✓	16		
<u>Ready Bullion Cr.</u>		T-2017	✓							17		
										18		
										19		
										20		
										21		
										22		
										23		
										24		
Names underlined in red approved										25		
by <u>LSE</u> on <u>4/14/37</u>										26		
										27		

M 234

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTATIC~~

~~NO. 11~~  
No. T-6518

received Mar. 19, 1937  
registered Apr. 13, 1937  
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
20			
✓ 22			<i>page 3</i>
24			
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30			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	C. K. Green
----	-------------

✓



## REVIEW OF TOPOGRAPHIC SURVEY No. 6518 (1936) Field No. A-36

Title (Par. 56) Ready Bullion Creek to Lawson Creek, Gastineau Channel, AlaskaChief of Party H.A. Karo Surveyed by D.H. Konichek Inked by D.H. KonichekShip WESTDAHL Instructions dated Mar. 5, 1936 Surveyed in May-Aug. 1936  
(WESTDAHL)

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)  
No elevations shown. ✓
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) No formlines drawn. ✓
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) Yes. (Bp. 30836). ✓
7. High water line on ~~marshy and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, ~~reefs, coral reefs and rocks,~~ and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) Low water line transferred from H-61772 (1936) and checked by frequent red readings. (See D.R., page 3). ✓
9. Rocks and other important <sup>offshore</sup> details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.



Par. 24. Remarks (continued).

All explanatory notes were in pencil. The more important of these were inked in the office. The outlines of several dilapidated buildings or docks were represented by a solid inked line. These were changed to a broken line in the office.



13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
- ~~14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMS and DPs, 68.) *None established due to frequency of triangulation.* ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *Submitted for arca (Chart Letter 66, 1937) but none apply to this sheet.* ✓
17. The magnetic meridian was shown ~~and declination was checked.~~ (Par. 17, 52.) *but there is no evidence that the declination was checked. The value of the magnetic declination agrees closely with the latest charted information. (See par. 22 below).* ✓
18. The geographic datum of the sheet is *North American 1927* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. *No surveys on South required by instructions.* ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) *Names transferred from chart 8235. There is no evidence in the D.R., however, that these names had been verified in the field.* ✓
21. The quality of the drafting is <sup>very</sup> good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended, *attention is called, however, to par. 2 (page 3) of the D.R. regarding the town of Douglas. The advisability of investigating the local magnetic disturbance of 3 to 4 degrees in Gastineau Channel opposite Sheep Creek should also be considered. (See note on chart 8235)* ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~ ✓
24. Remarks: *Aids to Navigation were considered in the review of H-6177a, b, +c (1936). See opposite page for add'l remarks.*

Reviewed in office by

*Harold W. Murray* July 23, 1937  
*Inspected by A. L. Schlauf*

Examined and approved:

*C. H. Green.*  
 Chief, Section of Field Records  
*L. O. Lobat.*  
 Chief, Division of Charts

*Fred. R. Peacock*  
 Chief, Section of Field Work  
*G. H. Hude*  
 Chief, Division of Hyd. and Top.



21 December, 1937.

Report on T 6518  
Additional Work.

The revision on this survey  
was made on a photostat and  
accompanied by a tracing. It  
was transferred to the original  
sheet in green.

Transfer of information checked  
and photostat & tracing destroyed.  
H.W.M.

Respectfully submitted,  
Ed. McGlosson



# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

~~No. 11~~

No. T-6518 (Addl. Work  
1937)

{ received Nov. 24, 1937  
registered Dec. 23, 1937  
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	C. K. Green
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Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. T-6518 (1936), ADDL. WORK, FIELD NO. A-36

Ready Bullion Creek to Lawson Creek, Gastineau Channel, Alaska  
Surveyed in September 1937 -- Scale 1:10,000

Chief of Party - H. A. Karo.  
Surveyed by - H. A. Karo.  
Plotted by - G. C. McGlasson.  
Verified by - H. W. Murray.

1. The purpose of this additional work was to show changes subsequent to the original survey. This information, consisting of destroyed or removed structures, was submitted to the office on a photostat and tracing. The information was applied to the smooth sheet in green in the office, the transfer checked and the photostat and tracing were destroyed.
2. Reviewed by - Harold W. Murray, January 6, 1938.  
  
Inspected by - A. L. Shalowitz.

Examined and approved:

*K.T. Adams*  
Asst. Chief, Division of Charts

*L.O. Robert*  
Chief, Division of Charts

*Frank L. Peacock*  
Chief, Section of Field Work

*G. H. de*  
Chief, Division of H. & T.

*Applied to drawing of Chart 8235 - 10/11/38 - J. Walker*