

6760

U. S. COAST & GEODETIC SURVEY  
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Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
L. O. Colbert, Director	
<div style="border: 1px solid black; width: 100px; height: 50px; margin: 10px auto;"></div>	
State: ALASKA	
<b>DESCRIPTIVE REPORT</b>	
Topographic <del>Hydrographic</del>	Sheet No. A-40 76760
LOCALITY	
NORTH OF LITUYA BAY	
GULF OF ALASKA	
1930	
CHIEF OF PARTY	
RAY L. SCHOPPE AND ROBERT W. KNOX	

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. T6760

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. A - 40

REGISTER NO. T6760

State ALASKA

General locality GULF OF ALASKA

Locality NORTH OF LITUYA BAY

Scale 1:20,000 Date of survey May - June, 1940

Vessel U.S.C. & G.S. Ship SURVEYOR

Chief of party Ray L. Schoppe

Surveyed by A. C. Thorson

Inked by A. C. Thorson

Heights in feet above M.H.W. to ground ~~XXXXXXXXXXXX~~

~~Contour interval 100 feet~~ Form line interval 100 feet

Instructions dated Feb. 2,, 1940

Remarks: \_\_\_\_\_

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET - FIELD NO. A-40

T6760

NORTH OF LITUYA BAY - GULF OF ALASKA

PROJECT - HT - 245

FIELD SEASON - 1940

INSTRUCTIONS:

Field work was executed in accordance with Director's Instructions dated February 2, 1940, covering combined operations of the Str. SURVEYOR.

EXTENT OF SURVEY:

This survey includes the coastline of Alaska bordering the Gulf of Alaska from a point 1 mile north of Lituya Bay in Latitude  $58^{\circ}-38.6'$  and Longitude  $137^{\circ}40.5'$ ; northwestward to Latitude  $58^{\circ}-42'$  and Longitude  $137^{\circ}-55.4'$ . Due to the dense growth of tall spruce trees adjacent to the beach the survey was not extended into the interior except at Fairweather River (named by the survey party) where survey was extended to the face of Fairweather Glacier.

GENERAL DESCRIPTION:

The topography was extended about 3 miles north of Lituya Bay in 1926, approximately to Signal BAM- (Sheet A-40) <sup>1-8160</sup> but in searching for Traverse Station HALF-1926, extensive changes were noted in that vicinity so topography was started at Traverse Station START-D-1940.

From Lituya Bay North to Traverse Station HALF RM 1 the beach is covered with large boulders. Northwest from Half R-M.1, the beach is covered with a soft white sand to the NW limit of the survey. North from Traverse Station START-D for a mile and northwest from Traverse Station Half-B for a mile the outer portions of the area between the low and high water line are covered by small boulders.

Thruout the extent of this sheet the area inside of the beach is covered by a dense growth of spruce and underbrush. Patches of aspens grow in the vicinity of rivers.



The three rivers shown in Latitudes  $58^{\circ}-38.8'$   $58^{\circ}-40.3'$  and  $58^{\circ}-42.9'$  are clear water streams. Fairweather River (named by Survey Party) is glacial and milky with sediment. This river drains one arm of Fairweather Glacier and carries a large volume of water. At the face of the Glacier underground streams force the water up in numerous small geysers.

At the northwest end of the sheet, vicinity of travers station BOLD the beach is covered with large boulders.

#### CONTROL:

This sheet was controlled by Second Order Traverse thru out executed by the same survey party during the current season. Traverse stakes every 50 meters were available for control. A short traverse was run up the Fairweather River to control that area.

#### SURVEY METHODS:

Except at rocky points the topographic party used a 300 foot tape and sextant to locate, high water line, low water line, tree line and other natural objects. The plane table was used to locate offlying rocks in the vicinity of traverse station BOLD and where needed to supplement the above.

#### JUNCTION WITH OTHER SURVEYS:

At traverse station START - D the junction with the 1926 survey <sup>T-4244</sup> is satisfactory. North from this point there were changes noted and a resurvey was made to the limits of the 1926 survey. The mouth of the stream in Latitude  $58^{\circ}-38.8'$  has moved southward <sup>500</sup> ~~600~~ meters since 1926.

T6761 → B At the northwest end the sheet joins Field sheet 13-40 executed by the same party during the current field season.

Available charts of the area are on too small a scale to make a comparison. Chart 8508, scale 1-20,000 covers from lat.  $58^{\circ}41'$  south. Charted topo is from T-4244.

A comparison has been made with the International Boundary sheet No. 11 covering this area and it is noted that the trend of the coastline is considerably in variance with the current survey.

Shoreline is probably from exploration maps. No evidence that it was determined by Boundary Survey.

The arm of Fairweather Glacier, and Fairweather River are not shown on the International Boundary sheet. The River may have broken thru since that survey was made.

#### NAMES:

The names Gulf of Alaska is from Chart 8002.

The names FAIRWEATHER GLACIER and FAIRWEATHER RIVER were given by the survey party.



LIST OF PLANETABLE SIGNALS:

NOW	Banner on tree	Not recoverable
RAG	Banner on tree	Not recoverable
BAM	Banner on tree	Not recoverable
GAR	Whitewashed driftwood	Not recoverable
TOM	" "	" "
CLOS	" "	" "
TOO	" "	" "
LAG	" "	" "
DAN	" "	" "
SKU	" "	" "
BALL	" "	" "
OK	" "	" "
SOL	" "	" "
SUN	Tall tripod & banner	" "
CAN	Pole & banner	" "
NED	Whitewashed driftwood	" "
GIB	" "	" "
DAB	Whitewashed wreck	Recoverable
PUN	Whitewashed driftwood	Not recoverable
GUL	" "	" "
WID	Banner on tree	" "
BOD	Banner on tree	" "
MON	Tripod signal	" "
SAG	Tripod signal	" "
CAM	Tall banner in trees	" "
DOG	Whitewashed driftwood	" "
KEY	" "	" "

T6760

STATISTICS:

Statute miles of shoreline -----	14.6
Statutes square miles of Topography -----	6.0
Statute miles of rivers & lakes -----	2.5

Respectfully submitted,

*A.C. Thorson*

A.C. Thorson, H.& G.E.

*Approved & forwarded:  
Robert W. Kna  
Comdg Ship Surveyor.*

*Forwarded apr. 2, 1941  
Geo. L. Bean*

Officer in Charge,  
Seattle Processing Office

## Remarks

## Decisions

1	Submitted to USG.B: <sup>do not ink pending</sup> decision	585 375-380
2	" " " "	"
3		
4	For title	585 375-380
5		
6	There are 3 glacial streams on	
7	this sheet other than Fairweather	
8	River. No names proposed until	
9	hydro. sheets are received. See Int.	
10	Boundary Map No. 11; chart 8002. Glacier	
11	Bay Nat. Mon. Map; and USGS Bulletin	
12	836 B (map on page 118) for different	
13	shore line in area of this sheet.	
14	L.H.	
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M 234		



## GEOGRAPHIC NAMES

Survey No. **T6760**

GEOGRAPHIC NAMES											
Survey No. T6760											
Name on Survey											



# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTAT OF~~

~~No. T~~

No. T **T6760**

received April 10, 1941  
registered April 26, 1941  
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			
24			
25	✓	<i>WBC</i>	<i>Pages 1 and 2</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ *WBC*

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY REGISTER NO. 6760 (1940)  
FIELD NO. A-40

Alaska; Gulf of Alaska; North of Lituya Bay  
Surveyed in May - June 1940, Scale 1:20,000  
Instructions dated February 2, 1940 (SURVEYOR)

Plane Table Survey

Aluminum Mounted

Chief of Party - R. L. Schoppe  
Surveyed and inked by - A. C. Thorson  
Reviewed by - J. A. McCormick, Sept. 17, 1941  
Inspected by - H. R. Edmonston

1. Adjoining Surveys

A satisfactory junction was effected with T-6761 (1940) on the north. Some changes, principally at mouths of streams, were noted in shoreline shown on T-4244 (1926) north of Lituya Bay. The older survey was overlapped approximately three miles to obtain good agreement. Form lines in the interior were determined on T-4958 (1940).

2. Previous Surveys

T-2174 (1894), 1:80,000

This is a sketch map showing shoreline from Lituya Bay to approximate Lat.  $58^{\circ} 48'$ . The survey makes no pretense of being accurate but does show the shoreline as fairly straight sand and boulder beach much as indicated on the present survey.

3. Comparison with Chart 8002 (New Print of Jan. 8, 1941)  
Chart 8505 (New Print of June 1, 1940)

Topography charted in this area is from surveys discussed in the foregoing paragraphs.

4. Condition of Survey

Satisfactory.



5. Compliance with Project Instructions

Excellent.

6. Additional Field Work Recommended

None.

7. Superseded Surveys

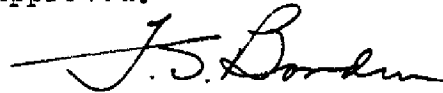
T-2174 in part

T-4244 " "

Examined and Approved:



Chief, Surveys Section



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of Coastal  
Surveys