

6761

U. S. COAST & GEODETIC SURVEY

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

L.O. Colbert, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic

~~ENGINEERING~~

Sheet No. B-40

76761

LOCALITY

NORTH OF CAPE FAIRWEATHER

GULF OF ALASKA

1940

CHIEF OF PARTY

RAY L. SCHOPPE AND ROBERT W. KNOX

613

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T6761

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. B - 40

REGISTER NO. T 6761

State ALASKA

General locality GULF OF ALASKA

Locality VICINITY - CAPE FAIRWEATHER

Scale 1:20,000 Date of survey July, 1940

Vessel U.S.C. & G.S.S. 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 ~~to tops of trees~~

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

Instructions dated February 2, 1940

Remarks:

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET - FIELD NO. B - 40

T6761

VICINITY CAPE FAIRWEATHER - 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 in Latitude $58^{\circ}46.9'$ and Longitude $137^{\circ}55.3'$, north and north-west to Latitude $58^{\circ}55.2'$ and Longitude $138^{\circ}00'$.

It includes that portion of the interior that was visible from the coastline.

GENERAL DESCRIPTION:

The southerly portion of this sheet extending about $2\frac{1}{2}$ miles constitutes Cape Fairweather and is the terminal moraine of Fairweather Glacier. The beach at Cape Fairweather is covered with a mass of large boulders extending from the low water line inland to 50 to 100 meters inside the high water line. This stretch is difficult to traverse on foot. There are several streams flowing from the glacier along the cape all laden with glacial silt, the largest at Traverse Station CREEK had to be bridged.

North of Cape Fairweather there is a small indentation (at traverse station FERN-E) having a sand beach where landings can be made in small boats in moderate SE or SW weather.

Just north of this indentation (at signal SLIDE) is a high rocky slide with a stream cataracting down several hundred feet which is very prominent from off shore. From this slide and northward to traverse station FERN-J the beach is boulder strewn and there are

numerous rocks close offshore. ✓

From FERN-J north to the limit of the sheet the beach is covered with a soft grey sand. ✓

At traverse station FAIR there is a small projecting point with numerous low rocks just offshore. Just north of this point there is a small cove where small boats can land in southwesterly or southerly weather at high tide. At low tide the cove bares about 200 meters out from the H.W. line and the bottom is covered with small boulders. ✓

There is a small lagoon just north of this cove containing clear fresh water. It has no outlet but drains thru the beach sand. ✓

At the extreme northern end of the sheet Sea Otter Creek empties into the ocean. Like most of the streams in the area it widens and runs northerly just inside the beach. This stream is glacial and filled with glacial silt, is very swift and carries a large volume of water. ✓

The wreck of the former U.S.C. & G.S.S. Patterson lies just south of the mouth of Sea Otter Creek. The bow of the wreck is well burried in the sand and the hull is practically filled with sand. The stern had broken away. The masts were still intact and the crows nest on the main mast is station WRECK. ✓

The area on this sheet in from the beach is covered with a dense growth of spruce except for the area covered by Fairweather Glacier. ✓

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 hence no plane-table traverses were executed.

SURVEY METHODS:

Signals for ^{dr}hygraphic control were first built thru out the sheet. Standard plane-table methods were used in executing the survey. ✓

The interior detail was located by plane-table cuts. Vertical angles were taken with the alidade and elevations computed using hypsograph. From the determined elevations form lines were sketched. Because of tall trees adjacent to the beach it was impossable to complete form lines. ✓

JUNCTION WITH ADJACENT SURVEYS:

This survey joins sheet Field No. A-40 to the south and sheet Field No. C-40 to the north both executed by ✓

T6760

T6762

by the same survey party during the current season. ✓

COMPARISON WITH EXISTING CHARTS:

Chart No. 8002 is on too small a scale to afford comparison. ✓

A comparison was made with International Boundary sheet No. 11 which has the shoreline as much as one mile farther west than indicated by present survey.

Shoreline on Sheet 11
is probably from old
exploration maps.

NAMES:

The names GULF OF ALASKA and CAPE FAIRWEATHER are from chart No. 8002.

The name SEA OTTER CREEK is from International Boundary Sheet No. 11. ✓

The name FAIRWEATHER GLACIER was given by the survey party.

LIST OF PLANETABLE SIGNALS:

EBB	Whitewashed rock	Recoverable
SIN	" "	"
PIC	" "	"
CAPE	" "	"
TAL	" "	"
CUT	" "	"
NUT	Pole and banner	Not recoverable
SQU	" "	" "
SLIDE	Whitewashed rock	" "
AL	" "	Recoverable
HID	" "	"
NUB	Whitewashed driftwood	Not recoverable
GUN	" "	" "
PAR	" "	" "
CAR	" "	" "
BIN	" "	" "
GAL	" "	" "
SUN	" "	" "

STATISTICS:

Statute miles of shoreline ----- 11.2

Square statute miles of topography ----- 14.0

Statutes miles of rivers and lakes ----- 4.2

*Approved and forwarded:
Robert W. King
Coastal Ship Surveyor.*

Respectfully submitted,

A.C. Thorson

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

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

Officer in Charge,
Seattle Processing Office.

Remarks

Decisions

1		585375-380
2	Donot int Pending USG N. decision	"
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M 234		

GEOGRAPHIC NAMES

Survey No. **T6761**

Name on Survey	GEOGRAPHIC NAMES									
	Survey No. T6761									
	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>Cape Fairweather</u>										1
<u>Fairweather Glacier</u>										2
<u>Gulf of Alaska</u>										3
<u>Sea Otter Creek</u>										4
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Names underlined in red approved
by L. Heck on 8/18/41

M 234

Names underlined in red approved

by L. Heck on 8/18/41

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOGRAPH~~

~~XXXXX~~

No. T **T6761**

received Apr. 10, 1941
registered Apr. 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
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25	✓	MC	Pages 1 and 2
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RETURN TO

82	T. B. Reed
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✓ 783R

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6761 (1940)

FIELD NO. B-40

Alaska; Gulf of Alaska; Cape Fairweather
Surveyed in July 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, September 17, 1941
Inspected by - H. R. Edmonston

1. Adjoining Surveys

Satisfactory junctions were effected with T-6760 (1940) on the south, T-6762 (1940) on the north and with form line survey T-4958 (1940) on the east.

2. Previous Surveys

Only previous survey of record in this office is T-2174 (1894) which overlaps the southern end of the present survey for approximately two miles. T-2174 is a generalized sketch map with shoreline approximately one mile out of position at Cape Fairweather.

3. Comparison with Chart 8002 (New Print of January 8, 1941)

The scale of the chart is too small for close comparison. Shoreline at the south end of the area is apparently from T-2174 and, as with that survey, is about one mile out of position in an east and west direction of Cape Fairweather. North of T-2174, it is probable that shoreline has been charted from old exploration maps and is similarly generalized.

4. Condition of Survey

Satisfactory.

5. Compliance with Project Instructions

Excellent.

6. Additional Field Work Recommended

None.

7. Superseded Surveys

T-2174 in part.

Robert W. Knaf Examined and Approved:
Chief, Surveys Section

J. S. Jordan
Chief, Division of Charts

W. S. Raynor
Chief, Section of Hydrography

G. H. de
Chief, Division of Coastal
Surveys