

6763

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic }
~~Hydrographic~~ } Sheet No. D 40
T 6763

State Southeast Alaska

LOCALITY
DRY BAY

1940

CHIEF OF PARTY
R. L. Schoppa

U. S. GOVERNMENT PRINTING OFFICE: 1934

CP

6763

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO. T6763

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 40

T6763

REGISTER NO.

State Southeast Alaska

General locality Dry Bay

Locality Doan River

Scale 1:20,000 Date of survey August 29, 1940

Vessel SURVEYOR

Chief of party R. L. Schoppe

Surveyed by G. W. Moore

Inked by G. W. Moore

Heights in feet above M. H. W. to ground ~~to tops of mountains~~

~~Contours are shown at 100 foot intervals. Elevation in feet~~

Instructions dated February 2, 1940

Remarks:

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET - FIELD NO. D-40

T6763

DRY BAY AND SOUTHEAST - GULF OF ALASKA

PROJECT HT-245

FIELD SEASON 1940

Authority:

The survey was made according to INSTRUCTIONS from the Director dated February 2, 1940 issued to the Commanding Officer, Ship SURVEYOR. ✓

Limits of the Survey:

The survey includes the coast line of the Gulf of Alaska from the Doan River which is at the east side of Dry Bay, southeast to Latitude 59-01.4, Longitude 138-11.9. ✓

Description of the Coast Line:

The seashore is a regular sand beach. The tree line is about 100 meters from the mean high water line at the southeast corner of the sheet and about $\frac{1}{2}$ mile from the mean high water line at the northwest corner of the sheet. The trees are spruce interspersed with a few cottonwood, elm, and alder trees. Two to three miles inshore are high hills and back of these is the Fairweather Range of mountains. ✓

Landmarks:

The survey on this sheet consists of only the shore line and tree line. There are no distinctive landmarks. ✓ ✓

Control:

The second-order traverse Lituya Bay to Dry Bay stations and stakes was the control between Traverse Stations Hay C and Hay F. Topographic Stations Ann, Bee, and Cam were located by sextant angles from traverse stakes. Stations Hill and Inn were located by triangulation. Signals Dian, Ela, Fay, Gwin, and Helen were located by triangulation but shown as topo stations. ✓

Traverse:

It was not necessary to extend supplemental traverses on this sheet. ✓

Auxilliary Surveying Methods:

All the work was done using a sextant and a 300 foot steel tape. The area between Traverse Stations Hay C, and Hay F was surveyed by perpendicular offsets from traverse stakes. The area between Hay F and the Doan River was sketched in from points located by sextant fixes. There are no offlying features along the beach.

Form Lines:

Form lines of this area were drawn from the ship.

No.
Rev., par. 1.

Methods of Proceedure:

Part of the work was over 10 miles from our camp. Landing conditions along the beach were such that we had to walk to and from work. Our route to work was over soft sand and boulders so walking was difficult. We were nearing the end of the season, and the Commanding Officer was very anxious to pick up the camp, before landing became so bad that landings could not be made. These are the reasons for the unusual methods of proceedure. On this sheet is sextant-steel tape topography done in a hurry.

Junctions:

Satisfactory junction was made at the southeast corner of the sheet with Topographic Sheet No. C-40 surveyed by A. C. Thorson the same year. Topographic surveys northwestward from the limits of the sheet have not been made.

Names:

The names ALASKA, GULF OF ALASKA, and DRY BAY are from Chart 8002. The name DOAN RIVER is in common usage by natives in the vicinity of Dry Bay. No new names are suggested.

Coast Line and Streams:

The coast line is subject to change because the beach is soft sand. Large drift trees and logs indicate that terrific winter storms innundate practically all the area between the mean high water line and the tree line. During the three weeks that we worked in the vicinity we noticed considerable change in the courses of the two streams at the southeast corner of the sheet. The first time we saw these streams the east one of the two had a large lagoon on its east side about 100 meters from its mouth. Right at its mouth instead of making a right angle turn toward the northwest as it empties into the ocean, it made a 45 degree turn toward the southeast. While this stream was under our observation there was a heavy rain that cut the main channel out so that it drained the lagoon and changed the streams course at the mouth. It is a glacier stream as is indicated first by the milky color of the water and second by the temperature of the water.

When the second stream from the southeast corner of the sheet was first observed it did not have a course out to the sea. It just emptied into the long course parallel to the shore line, and evidently

ran through the sand to the ocean. It cut its present channel out during the heavy rain previously mentioned. It is a clear stream.

The DOAN RIVER shown at the northwest corner of the sheet has a greater flow of water than either of the two streams previously described. It is a clear stream. August 29, 1940 we noticed salmon going up the river. Numerous hair seals were on the sand near the mouth.

Marshes:

There are no marshes within the limits of this survey.

Statistics:

The topography was done by an officer and 4 men in one day August 29, 1940. There are 12.3 statute miles of shore line, 1.9 square statute miles of area included.

List of Planetable Positions:

No positions were determined with a planetable. Other positions plotted on the sheet follow.

Second Order Traverse Stations	Latitude	Longitude
HAY C	59-01-03.24	138-11-00.13
HAY D	01-55.10	12-59.29
HAY E	02-54.18	15-31.89
HAY F	03-39.62	18-16.27

Second Order Triangulation Stations

HILL	03-43.05	16-32.55
INN	04-15.17	20-44.32

Topographic Signals

ANN	01-27.54	11-52.61
BEE	02-15.64	13-50.66
CAM	02-35.81	14-32.85
DIAN	03-06.62	16-20.18
ELA	03-25.92	17-21.52
FAY	03-49.70	19-12.03
GWIN	03-59.41	19-59.79
HELEN	04-17.44	21-04.34

Miscellaneous:

Small boat landing along this beach is dangerous except in very calm weather. The streams are not deep enough at their mouths for a small boat.

The work was done by walking from a camp at the glacier stream which is four miles southeast of the southeast corner of the sheet.

There is a small log cabin at the northwest side of the glacier stream which is shown at the southeast corner of the sheet. The cabin is in fairly good repair.

Brown bears are numerous. They were fat ^{and} curious. We did not meet any that were vicious.

Respectfully submitted,

Glenn W. Moore
Glenn W. Moore
Aid, Ship SURVEYOR

Forwarded,

Robert W. King
Commanding Ship SURVEYOR.

Forwarded Apr. 2, 1941
Geo. L. Berman

Officer in Charge,
Seattle Processing Office

Remarks

Decisions

1		590 380-385
2		590 380-385
3		
4	Do not LNK pending U.S.G.B. decision	590 380-385
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GEOGRAPHIC NAMES
Survey No. **T6763**

GEOGRAPHIC NAMES											
Survey No. T6763											
Name on Survey											

Names underlined in red approved
by L. Heck on 8/18/41

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOGRAPH~~

~~Moore~~

No. T **T6763**

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
20			
22			
24			
25	✓	<i>HW</i>	<i>Pages 1 to 4</i>
26			
30			
40			
62			
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82			
83			
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90			

RETURN TO

82	T. B. Reed
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✓ *2030*

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6763 (1940)

FIELD NO. D-40

Southeast Alaska; Dry Bay; Doan River
Surveyed in August 1940, Scale 1:20,000
Instructions dated February 2, 1940 (SURVEYOR)

Sextant Survey

Aluminum Mounted

Chief of Party - R. L. Schoppe
Surveyed and inked by - G. W. Moore
Reviewed by - J. A. McCormick, September 18, 1941
Inspected by - H. R. Edmonston

1. Adjoining Surveys

A satisfactory junction was effected with T-6762 (1940) on the southeast. Form lines between the present survey and T-4958 (1940) on the east will be determined when the project is resumed on the west and north.

2. Previous Surveys

The Alaska-Canada Boundary Survey, T-2846 (1906), covers this area on a scale of 1:80,000. The area is undoubtedly changeable outside the tree line (Descriptive Report, page 2), but, at the southeastern end of the present survey, T-2846 shows the high water line approximately 1/2 mile inside that of 1940. The sand spits at the entrance to Doan River differ by the same amount but in the opposite direction. Differences in the area of fast ground are probably due to inaccuracies in the phototopographic methods used on T-2846.

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

Topography in this area is charted from T-2846 (1906).

4. Condition of Survey

Satisfactory.

5. Compliance with Project Instructions

Excellent.

6. Additional Field Work Recommended

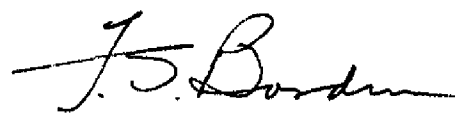
None.


7. Superseded Surveys


T-2846 in part.

Examined and Approved:


Chief, Surveys Section


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of Coastal
Surveys