

3987

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: S. E. Alaska

11-5813

○
DESCRIPTIVE REPORT.

Topographic Sheet No. 5 3987

LOCALITY:

Lynn Canal, Southern Part

Frontier Bay to
Pt. Retreat

19122

CHIEF OF PARTY:

J. H. Hawley

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 6.

Limits:

This sheet extends from north latitude $55^{\circ} 11' 30''$ to $55^{\circ} 24'$ and from west longitude $154^{\circ} 52' 30''$ to $155^{\circ} 07'$. On the eastern shore of Lynn Canal the topography at the northern limit connects with the previous work about $1/4$ mile north of Δ Lone and at the southern limit extends as far as Δ Don. On the western shore the topography connects at its northern limit at station Rave with Mr. Rigg's work of 1922, and on the mainland at its southern extremity with Mr. Quillian's work of 1913. Due to closing of the season the topography of Couverden I., did not connect with the previous work.

General Description of Shore:

The eastern shore from its northern limit to Clear Pt. at the entrance to Funtar Bay consists of alternate cliffs and boulder beaches with an occasional sandy beach. The entire shore is wooded with here and there patches of grass between the trees and high water line. The shore line of Funtar Bay, a large bight, consists principally of sand and boulder beaches; south of Funtar Bay to Δ Don the shore line is composed largely of cliffs.

The western shore from Δ Rave to Δ Earth is composed of boulder beaches with some cliffs. From Δ Earth to Δ Pulp the shore consists principally of cliffs, and south of Δ Pulp to Pt. Howard of boulder beaches. The mainland from Pt. Howard to the southern extremity of this shore is a series of bights, composed largely of sand and boulder beaches, with occasional cliffs. From the prominent point $1\frac{1}{2}$ miles S.W.(true) of Point Howard a chain of islands and reefs extends for about 4 miles in a southeasterly direction. All the larger islands are wooded and their shore lines consist about equally of cliffs and boulder beaches.

Landmarks:

A light on Pt. Retreat.

A beacon on the first prominent point south of Pt. Retreat.

A light on Naked I. (*in distant part of island*)

A light on Clear Pt.

A light on Rocky I.

For descriptions of above see Light List.

Anchorage:

Funter Bay, described in Coast Pilot.

An excellent anchorage for small boats may be found in the small bay N.E. of Couverden I.

Inshore Dangers:

A rock about 500 m. S. of Pt. Howard. This rock ^{bears} at about 1/4 tide. Only one out to the rock was obtained, so that the exact location could not be shown on the sheet.

A rock, bearing at 1/4 tide, 140 m. off shore at a point opposite the north end of the reef just north of Δ Hub.

A reef, bearing at 3/4 tide, 190 m. N. of the north point of Couverden I.

Survey Methods:

The following points of control were established by triangulation:

Stations Ret, Cen₂, Lone, Aid₂, Act₂, Hub₂, Clear, Funter₂, Don, Rave₂,

Earth₂, Rear₂, Pulp₂, List₂, Doc, Peach₂ (H.C. Warwick 1922).

The shore

The shore line was run in by traversing between triangulation stations with the following results:

Traversing Δ Rave₂ to Δ Earth₂, 4 miles - 8m. out at Δ Earth₂.

" " Earth₂ to Δ Rear₂, 1 mile - 3m. out at Δ Rear₂.

" " Rear₂ to Δ Pulp₂, 2 miles - 3m. out at Δ Pulp₂.

" Δ Aid₂ to Δ Lone, 1 1/2 miles - 8m. out at Δ Lone.

Error adjusted proportionally.

Traversing $\triangle \text{Pulp}_2$ to $\triangle \text{List}_2$, 8 miles - 27m. out at $\triangle \text{List}_2$. Error adjusted proportionally.

Traversing $\triangle \text{List}_1$ to $\triangle \text{Doc}$, 3 1/2 miles - 6m. out at $\triangle \text{Doc}$. Error adjusted proportionally.

Traversing $\triangle \text{Aid}_2$ to $\triangle \text{Act}_2$, 4 miles - exact check at $\triangle \text{Act}_2$.

" " Act_2 to " Clear , 5 miles - 27m. out at $\triangle \text{Clear}$. Error adjusted proportionally.

Traversing $\triangle \text{Don}$ to $\triangle \text{Funter}_2$, 1 1/2 miles - 4m. out at $\triangle \text{Funter}_2$.

On account of lack of time at the end of the season that part of the shore line of Funter Bay between points (a) and (b), including adjacent islands, was run by Mr. Hoskinson and transferred to sheet 6 by tracing.

Submitted by

Albert M. Weber

Jr. H. and G. E.

Approved by

J. H. Hawley
Comdg.

POST-OFFICE ADDRESS: 202 Burke Building, Seattle, Washington.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

U.S.C.&G.SURVEY

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Steamer EXPLORER

DEC 19 3 35 PM '22
DEC 14 1922 9 33 AM
OFFICE
LIBRARY
December 13 1922

CHARTS (3)

To: The Director, Coast and Geodetic Survey.
Through: Inspector, Seattle, Field Station.
From: Commanding Officer, Steamer EXPLORER.
Subject: Topographic Sheets.

Fred Reader

I am forwarding on this date the last of the 8 topographic sheets completed by this party during the past season. The appearance of some of these sheets is not all that could be desired but this is due to the fact that practically all of the work was done under very unfavorable weather conditions.

2. There was so much rain during the season that the sheets were subjected to much dampness and frequent unavoidable wetting which allowed the dirt to soak in and softened the paper so that satisfactory cleaning and inking was very difficult.

3. On sheet No. 6 covering Lynn Canal from Point Retreat south to and including Funter Bay the form lines could not be obtained on account of rain and low lying clouds. The hills on the part of Mansfield Peninsula covered by this sheet are low and appear to be about as charted. On the west side of the canal the form lines can be obtained on sheet 2566 when the revision of this sheet is taken up. A small amount of shoreline remaining to be done on Couverden Island can also be run on sheet 2566.

J. H. Hawley
J. H. Hawley

Commanding Officer.

*Hand letter for self
after sheets are received.
RHP*

*All 8 sheets have been received
and registered.
E.P.G.*

Files with

Des. Report.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON November 8, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3987

Funter Bay to Pt. Retreat, Lynn Canal, Alaska.

Surveyed in 1922

Instructions dated February 13, 1922.

Chief of Party, J. H. Hawley.

Surveyed and inked by A. M. Weber.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions. Five lights are listed as landmarks in the descriptive report, but only one was shown by symbol or name on the sheet. The omissions were added to the sheet in the office from descriptions of triangulation stations.
3. The plan and extent of the survey satisfy the specific instructions except for the omission of form lines, which was due to bad weather and lack of time.
4. The junctions with adjacent surveys are satisfactory.
5. The only additional surveying needed on this sheet are the formlines.
6. The character and scope of the surveying and field drafting are satisfactory.
7. Reviewed by E. P. Ellis, November, 1924.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3987

State S.E. Alaska

General locality Lynn Canal

Locality Funter Bay to Pt. Retreat to Rocky I.

Chief of party J.H. Hawley

Surveyed by A.M. Weber

Date of survey July, August, September 1922.

Scale 1/20000

Heights in feet above mean sea level

Contour interval feet.

Inked by A.M. Weber . . . Lettered by A.M. Weber

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: