DESRIPTIVE REPORT

Topographic

Hydrographic

Sheet No. "D - 1937"

State S. E. Alaska

LOCALITY

Sumner Strait

Affleek Canal & Bear Harbor

1937

CHIEF OF PARTY

G. G. Jones

U. S. GOVERNMENT PRINTING OFFICE
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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. "D. - 1937"

REGISTER NO. T6586

State S. E. Alaska

General locality Summer Strait

Locality Afleck Canal, Bear Harbor

Scale 1:20,000 Date of survey August 31, 1937

Vessel U.S.C.  G.S.S. EXPLORER

Chief of party G. C. Jones

Surveyed by H. C. Applequist

Inked by E. C. Applequist

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

Contour Approximate contour, Form line interval 100 feet

Instructions dated July 16, 1936

Remarks: 

____________________________________________________
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET FIELD NO. "D" T-4586

1937

APPLEOK CANAL -- KUIU ISLAND

SOUTHEAST ALASKA

*****

G. C. JONES, CHIEF OF PARTY, C. & G. S.,

COMMANDING SHIP EXPLORER
DESCRIPTION REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET FIELD NO. "D" 74586

1937

APPLECK CANAL -- KUTU ISLAND

SOUTHEAST ALASKA

AUTHORITY:

Authority for this survey is contained in the Director's Instructions dated July 16, 1936, Project No. H.T.-211.

SCALE:

The scale of this survey is 1:20,000.

LIMITS:

This sheet covers that part of Affleck Canal, including Bear Harbor, north of Latitude 56° 15' 3".

CONTROL:

This survey is based on triangulation executed in 1936 and 1937 by the "WESTDAHL" and by the "EXPLORER". The North American 1927 Datum was used.

SURVEY METHODS:

Enough triangulation was available, excepting in Bear Harbor, to make it unnecessary to traverse. Topographic stations were cut in from triangulation stations and planestable setup positions were determined by means of three-point fixes. All detail was roded in.

No control was available in the upper part of Bear Harbor. Plane table triangulation, checked by traverse was used to maintain the accuracy of the survey.

GENERAL DESCRIPTION OF AREA:

This area is in general hilly and excepting the higher peaks, heavily wooded with evergreen trees. A few of the higher peaks are rocky and bare. The shoreline is rocky, with either rocky reefs or gravel between the high and low water lines.
FORM LINES AND ELEVATIONS:
The form line interval is 100 feet. All elevations are ground elevations and were taken with the plane table alidade. In those places where the ground was obscured by the trees, elevations were taken to the tops of trees and reduced to ground elevations by the estimated heights of the trees. The estimated heights of the trees are shown in parenthesis under the elevations. An appropriate note placed on sheet.

LOW WATER LINE:
The low water line shown on this sheet was surveyed by the topographer. Where no low water line is shown, the low water area is so narrow that it could not be shown on this scale.

JUNCTIONS:
A satisfactory junction was made to the south with Topographic Sheet Field No. "C-1937". Junctions of form lines in the other directions could not be made as no old surveys were available.

GEOGRAPHIC NAMES:
No new names are suggested for any of the features in this area. Only names already used on the charts have been shown on this sheet.

TOPOGRAPHIC SIGNALS:
All signals outside the high water line are whitewashes on high water rocks.

COMPARISON WITH CHART NO. 8201:
Comparison with Chart No. 8201 was impracticable due to the difference in scale.

COMPARISON WITH HYDROGRAPHIC SHEET:
A comparison was made between this sheet and Hydrographic Sheet No. "4-1937", which covers this area. No discrepancies, excepting in the position of some rocks awash, was noted. The differences in position of these rocks awash were small and probably due to errors in estimating distance and direction by the hydrographer. Topo sheet positions accepted.
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Names underlined in red approved by [Signature] on 5/25/38
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT
PHOTOGRAPH
No. T-6586

received April 26, 1938
registered May 7, 1938
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.

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RETURN TO

82  T. B. Reed

✓
Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6586 (1937) FIELD NO. D

Affleck Canal and Bear Harbor, Summer Strait, S.E. Alaska.
Surveyed in August 1937, Scale 1:20,000
Instructions dated July 16, 1936.

Plane Table Survey. Aluminum Mounted.

Chief of Party - G. C. Jones.
Surveyed by - H. C. Applequist.
Inked by - H. C. Applequist.

1. Condition of Survey.

The survey is neat and legible and conforms to the requirements of the Topographic Manual.

The Descriptive Report is clear and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.

3. Junctions with Contemporary Surveys.

The junction on the south with T-6565 (1937) is satisfactory.


H-1749 (1886) and T-2355 (1886), scale 1:80,000.

Each of these surveys contain shoreline and formline details and cover the entire area of the present survey. They are actually one topographic survey of the same area but the details are slightly different in many areas especially in the case of formlines which appear to have been plotted independently. None of the formlines falling within the limits of the present survey are accompanied by elevations.

Because of the small scale and sparseness of detail, an adequate comparison cannot be made. It is noted, however, that the present survey bears out the essential features except that differences in position of identical features exist. The most outstanding is the shoreline and formline details in the vicinity of lat. 56°17' which are displaced 3/4 mile northward on H-1749 and 3/4 mile northward on T-2355 of the present survey locations. The present survey should supersede these surveys in the common area in future charting.
5. Comparison with Chart 8201 (New Print dated April 7, 1938).

Topography shown on the chart originates entirely with surveys discussed in previous paragraphs and no further consideration is necessary.

6. Field Drafting.

The inking of the shoreline, topographic features and lettering is very good.

7. Additional Field Work Recommended.

This is an excellent survey and no additional field work is required.

8. Superseded Prior Surveys.

Within the area covered, the present survey supersedes the following surveys for charting purposes:

- H-1749 (1886) In part (topography only)
- T-2355 (1886) In part.


Inspected by E. P. Ellis.

Examined and approved:

Thos. E. Reed
Chief, Section of Field Records

K. T. Adams
Chief, Division of Charts

Fred. R. Peacock
Chief, Section of Field Work

Chief, Division of Hydrography and Topography