

6585

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Rev. April 1935  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**DESCRIPTIVE REPORT**

*Topographic* }  
*Hydrographic* } Sheet No. "C-1937"

State S. E. Alaska

LOCALITY

Sumner Strait

Affleck Canal and Kell Bay

1937.

CHIEF OF PARTY

G. C. Jones.

U. S. GOVERNMENT PRINTING OFFICE

6585

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. C - 1937

REGISTER NO. **T6585**

State S. E. Alaska

General locality Sumner Strait

Locality Affleck Canal and Kell Bay

Scale 1:20,000 Date of survey June & July, 19 37.

Vessel U.S.C. & U.S.S. EXPLORER

Chief of party G. C. Jones

Surveyed by Edwin C. Baum

Inked by Edwin C. Baum

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,, 19 36.

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

DESCRIPTIVE REPORT

T-6585  
TO ACCOMPANY TOPOGRAPHIC SHEET "C - 1937"

AFFLECK CANAL AND KELL BAY

SOUTHEASTERN - ALASKA

1 9 3 7

- o -

G. C. JONES, H. & G. E.,

CHIEF OF PARTY

COMMANDING SHIP EXPLORER

- o -

DESCRIPTIVE REPORT  
TO ACCOMPANY TOPOGRAPHIC SHEET "C - 1937" T-6585  
SOUTHEASTERN ALASKA.

AUTHORITY:

Survey was executed in accordance with Director's Instructions, dated July 16, 1936. Project H.T.-211.

LIMITS:

The area of this survey includes a central part of Affleck Canal and all of Kell Bay. The northern limits begin approximately one mile south of Bear Harbor and the southern limits begin approximately three and three-quarters miles inside and north of entrance to Affleck Canal.

GENERAL DESCRIPTION:

The entire area, rugged in appearance, consists of irregular shaped hills, of varying heights, covered with evergreen trees.

The delineation of the shoreline is rocky, giving away to numerous bays and inlets of varying depths.

An unusually large number of islets, rocks and foul areas present themselves.

CONTROL:

Triangulation control points executed during the field seasons of 1936 and 1937 and based on the North American 1927 datum were used.

SURVEY METHODS:

Standard Plane Table Survey methods were used. Topographic signals were cut in from triangulation stations on the opposite shore, where possible, and checked by traversing between control points.

No errors were found.

All off-lying features were rodded in.

CONTOURS:

All elevations were determined from the opposite shore, off-

lying rocks and islets. The accepted methods in accordance with Special Publication No. 144, were followed. All elevations are to the ground. Unusual caution was exercised in estimating tree heights, varying up to approximately 150 feet in height.

COMPARISON WITH CHART 8201:

Several differences were revealed between Chart No. 8201 and this survey, particularly in the delineation of shoreline in Kell Bay. The general shape and size, together with the omission of several islets, was discovered.

A comparison of contours was prohibited as the area under consideration shows no form lines.

TOPOGRAPHIC SIGNALS:

All topographic signals shown outside of the high water line are targets attached to stumps, fallen trees, etc., and are not of a permanent nature except white washes on rocks and islets identified by their proper symbols.

ROCKS AND LOW WATER LINE:

All off-lying rocks and islets were rodded in by the topographer.

The Low Water Line was determined by the topographer.

JUNCTURES:

This survey joins Field Sheet <sup>T-6586</sup> "D - 1937", on the north and Field Sheet <sup>T-6584</sup> "B - 1937", on the south.

CHANGES OF COAST LINE:

The character of the shoreline is free from erosion. No evidence was found as to recession, growth, subsidence or emergence of shoreline.

STATISTICS:

47 Statute miles of shoreline.  
21 Statute square miles of area.

DECLINATOIRE OBSERVATIONS:

A Declinatoire Observation was observed at Triangulation Station "BUSH-1936", on June 25, 1937 at 2:35 P.M., and was found to be  $30^{\circ}30'$ . Time based on 135th Meridian.

TIDE GAGE:

Tide gage in Kell Bay was located and shown at Latitude  $56^{\circ}08.93'$ , Longitude  $134^{\circ}08.04'$ .

PERMANENT TOPOGRAPHIC MARKS:

No permanent topographic marks were established since the triangulation stations in this area are well within the required spacing limits.

GEOGRAPHIC NAMES *GHE*

| CHART NAME    | LOCAL NAME    | SOURCE FROM WHICH INFORMATION WAS OBTAINED | RECOMMENDED NAME |
|---------------|---------------|--|------------------|
| Affleck Canal | Affleck Canal | Chart No. 8201                             | Affleck Canal    |
| Kell Bay      | Kell Bay      | Chart No. 8201                             | Kell Bay         |
| Kuiu Island   | Kuiu Island   | Chart No. 8201                             | Kuiu Island      |



Respectfully submitted,



Edwin C. Baum,  
Jr. H. & G. E., C. & G. S.,  
U.S.C. & G.S.S. EXPLORER.

APPROVED AND FORWARDED:



G. C. Jones,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER.

## Remarks.

## Decisions

|       |                       |                      |
|-------|-----------------------|----------------------|
| 1     |                       | <i>USGB decision</i> |
| 2     |                       |                      |
| 3     |                       |                      |
| 4     |                       |                      |
| 5     | <i>For Title Only</i> | <i>see T-6584</i>    |
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| M 234 |                       |                      |



# GEOGRAPHIC NAMES

Survey No. T-6585

| GEOGRAPHIC NAMES                 |   | Survey No. T-6585 |    |   |   |   |   |   |   |    |  |
|----------------------------------|---|-------------------|----|---|---|---|---|---|---|----|--|
| Name on Survey                   | <div>On Chart<br/>No. 8200, 8252</div> <div>On previous survey<br/>No. H-1749</div> <div>On U. S. quadrangle<br/>Maps</div> <div>From local<br/>information</div> <div>On local Maps -<br/>Baker Dict</div> <div>P. O. Guide or Map</div> <div>Rand McNally Atlas</div> <div>U. S. Light List</div> |                   |    |   |   |   |   |   |   |    |  |
|                                  | A,  | B,                | C, | D | E | F | G | H | K |    |  |
| ✓ <u>Kuiu Island</u>             | ✓   |                   | ✓  |   |   |   |   |   |   | 1  |  |
| ✓ <u>Kell Bay</u>                | ✓   | ✓                 | ✓  |   | ✓ |   |   |   |   | 2  |  |
| ✓ <u>Affleck Canal</u>           | ✓   |                   | ✓  |   | ✓ |   |   |   |   | 3  |  |
| ✓ <u>Bush Islets</u>             | 8200  | Bush Id.          | ✓  |   | ✓ |   |   |   |   | 4  |  |
| <u>Sumner Strait</u>             | ✓   |                   |    |   |   |   |   |   |   | 5  |  |
|                                  |   |                   |    |   |   |   |   |   |   | 6  |  |
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|                                  |   |                   |    |   |   |   |   |   |   | 25 |  |
| Names underlined in red approved |   |                   |    |   |   |   |   |   |   | 26 |  |
| by JHE on 5/25/38                |   |                   |    |   |   |   |   |   |   | 27 |  |

M 234

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT } ~~xxxxxx~~  
 PHOTO STAT OF } No. T -6585

{ received April 26, 1938  
 { registered  
 { 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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RETURN TO

|    |            |
|----|------------|
| 82 | T. B. Reed |
|----|------------|

✓ JBR

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6585 (1937) FIELD NO. C

Affleck Canal and Kell Bay, Summer Strait, S. E. Alaska  
Surveyed in June - July 1937, Scale 1:20,000  
Instructions dated July 16, 1936 (EXPLORER)

Plane Table Survey.

Aluminum Mounted.

Chief of Party - G. C. Jones.  
Surveyed by - Edwin C. Baum.  
Inked by - Edwin C. Baum

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 junctions on the north with T-6586 (1937) and on the south with T-6584 (1937) are satisfactory.

4. Comparison with Prior Surveys.

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 but the details are slightly different in many areas and especially in the case of formlines which appear to have been plotted independently. None of the formlines common to the present survey are accompanied by elevations.

A comparison shows that the essential details are borne out by the present survey but that many differ in position and extent. On lat.  $56^{\circ}09.6'$ , long.  $134^{\circ}10.7'$ ; the present survey shows a rounded point. On the old surveys, the shoreline is shown 550 m. inland and shows no evidence of a point. The peak with an elevation of 1675 feet on the present survey in lat.  $56^{\circ}11.7'$ , long.  $134^{\circ}07.8'$  is about 830 m. S.W. of the one shown on the old surveys.

In addition, its maximum elevation as determined from the formlines appears to be between 1400 and 1500 feet. The small hump enclosed by the 300 foot formline on the present survey in lat. 56°08.4', long. 134°07.1' is approximately 300 feet less in elevation and at least 8 times smaller in area than that shown on the old surveys which is enclosed by the 2,3,4,5 and 600 foot formlines. Because of the smaller scale and lack of strong control on the old surveys the present survey should supersede these surveys in the common area in future charting.

5. Comparison with Chart 820 (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 excellent. It is preferable, however, that a mechanical lettering set be used for lettering wherever practicable.

7. Additional Field Work Recommended.

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                   |

9. Reviewed by Harold W. Murray, November 3, 1938.

Inspected by E. P. Ellis,

Examined and approved:

*Thos. B. Reed*  
Thos. B. Reed

Chief, Section of Field Records

*K.T. Adams*  
K.T. Adams  
Chief, Division of Charts

*Fred. R. Peacock*  
Fred. R. Peacock  
Chief, Section of Field Work

*George D. Conner*  
George D. Conner  
Chief, Division of Hydrography  
and Topography.