

6638

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 6638

State S.E. ALASKA

SUMNER STRAIT

LOUISE COVE, POINT ANELLIUS

~~AND VICINITY~~

~~SUMNER STRAIT, ALASKA~~

193 8

CHIEF OF PARTY

C. C. Jones

U. S. GOVERNMENT PRINTING OFFICE

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}Letter SS-AREGISTER NO. T 6638State S. E. AlaskaGeneral locality Sumner StraitsLocality Louise Cove and Point AmeliusScale 1:10,000 Date of survey September 1937 and 1938 *see page 2 of D.R.*Vessel U.S.C. & C.S.S. ExplorerChief of Party G. C. JonesSurveyed by E. C. Baum and Joseph E. Waugh, Jr.Inked by Joseph E. Waugh, Jr. *note on topo sheet*Heights in feet above M.H.W. to ground ~~to tops of trees~~ *Heights in feet above mean high water*Contour Approximate contour Form line interval 100 feet *Form line interval 100 feet*Instructions dated July 16, 1936

Remarks:

DESCRIPTIVE REPORT

TOPOGRAPHIC SHEET NO. 6638

LOUISE COVE, POINT AMELIUS AND VICINITY

SUMNER STRAIT, ALASKA

DESCRIPTIVE REPORT

TOPOGRAPHIC SHEET NO. 6638

LOUISE COVE, POINT AMELIUS AND VICINITY

SUMNER STRAIT, ALASKA

INSTRUCTIONS:

The topography on Sheet No. 6638 is a part of Project No. HT-211, the instructions for which were dated July 16, 1936.

LIMITS AND SCALE:

This sheet was surveyed on a scale of 1:10,000. It covers all of Louise Cove, the off-lying islands and that part of Kuiu Island between Latitude $56^{\circ}-09.75'$, Longitude $133^{\circ}-55.75'$ and Latitude $56^{\circ}-12.82'$, Longitude $133^{\circ}-53.60'$. The southern limit is Latitude $56^{\circ}-09.75'$, the northern limit, Latitude $56^{\circ}-12.82'$, the eastern limit, Longitude $135^{\circ}-52.0'$, the western limit Longitude $133^{\circ}-58.75'$.

CONTROL AND SURVEY METHODS:

The control consisted of five second-order triangulation stations, both main scheme and intersection. The triangulation was executed during the 1937 field season and is based on the North American 1927 Datum. It was not considered necessary to establish any recoverable topographic stations, the triangulation stations being numerous enough.

The usual plane table survey methods were used. The plane table positions were obtained by three point fix and resection methods. There are no traverses on this sheet. Louise Cove and the outer coast above Point Amelius was surveyed by running a scheme of plane table triangulation. Satisfactory checks were obtained by orienting on distant signals and carrying a check distance from previous located points.

No errors were found.

All of the off-lying features were rodded in. The low water line shown on the sheet was rodded in at low tide.

The work accomplished on this sheet was executed during two field seasons. Lieut. Baum in 1937 located signals and the high water line between topographic signal Lim and triangulation station ADEN; between topographic signals Post and Tom. He also executed the topography around the small island in Latitude $56^{\circ} - 10'$ to $11'$, Longitude $133^{\circ} - 56'$ to $57'$ and Latitude $56^{\circ} - 12'$, Longitude $133^{\circ} - 56'$ to $57'$ except for that on the east side of the last island mentioned between topographic signals Fin and Tall. The undersigned finished the sheet in 1938.

FORM LINES:

The form lines are drawn from elevations determined by cuts from the off-lying features.

The elevations shown on this sheet are ground elevations. Where the elevations of the top of trees were determined the estimated heights of the trees are shown in parentheses near the elevation concerned. The amounts deducted for the heights of trees are based on several actual measurements of the heights of trees in this area. These measurements gave varying heights from 60 feet on the smaller islands to 110 feet.

All elevations were determined by an elevation angle or depression angle on the feature concerned. Proper corrections were applied including the height of instrument which was determined in all cases by computing it from the actual stage of the tide. Those elevations whose position was determined by cuts with the alidade are a result of three or more closely agreeing elevations determined independently when each cut was taken. All elevations are referred to mean high water unless otherwise indicated directly on the sheet.

GENERAL DESCRIPTION OF TOPOGRAPHIC FEATURES:

This area conforms in general character to all of the country in this vicinity. It consists of irregular shaped hills, covered with evergreen trees throughout. The shoreline is rocky and rugged in nature with numerous indentations. There are many rocks and islets at variable distances off-shore.

The small islands and islets shown rise abruptly from the water and for the most part deep water extends very close to them.

Attention is called to the bare bluff on the hill just north of Point Amelius.

MAGNETIC MERIDIANS:

The magnetic meridians shown on this sheet are not accurate as they were observed on a board with iron screws. The standardization of the declinatoires used was also done on the same board. Therefore; since a small displacement of the declinaoire affects the value materially, the values were not scaled.

COMPARISON WITH PREVIOUS WORK:

An accurate comparison with Chart No. 8200 was impossible due to the difference in scale.

The topography in this area was surveyed on Sheet No. T-2355. ^{YH-1747} It is an 80,000 scale and ^{was} surveyed in 1886. An accurate comparison in the field between the two sheets was impossible.

No form lines are shown on the chart in this area.

TOPOGRAPHIC SIGNALS:

The following is a list of signals outside of the H.W.L.

HYDROGRAPHIC NAME	DESCRIPTION
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Buy	Whitewash on rock baring 8' at M.H.W.
-----	---------------------------------------

Dag	Whitewash on top of rock baring 6' M.H.W.
-----	---

End	Whitewash top of rock baring 3' at M.H.W.
-----	---

Ex	Whitewash on north face of rock bearing 2' at M.H.W. ✓
Milt	Standard triangulation station mark on north end of rock bearing 6' at M.H.W. ✓
Nine	Whitewash on top of rock bearing 5' at M.H.W. ✓
Noah	Whitewash on south face of rock bearing 9' at M.H.W. ✓
Ruth	Standard triangulation station mark on rock bearing 9' at M.H.W. ✓

JUNCTIONS:

This survey joins Sheet ^(T-6590) No. H-1937 (field number) on the south at topographic signal Lim. This junction was made in 1937 and topographic signal Lim was not recovered in 1938. It joins Sheet No. T-6664 at topographic signals Bob, Hip and Lap. ✓

The form lines shown on ^{T-6590} ~~H-1937~~ were transferred in the field and the ends are shown in pencil on this sheet. The elevation, 1015, was checked and a junction was obtained except on the 100-foot form line. The end should be rounded as shown on this sheet. On the others where a junction gave a sharp bend they were rounded off to conform to the appearance of the country as seen from offshore. *Butt junction checked satisfactorily in the prosector. L.S.S. 10/2/39.* ✓

LANDMARKS:

No landmarks are on this sheet. ✓

AIDS TO NAVIGATION:

Louise Cove Beacon is the only aid to navigation that falls on this sheet. *It is in agreement with the charted position.* ✓

GEOGRAPHIC NAMES:

All geographic names shown on this sheet are from Chart ✓

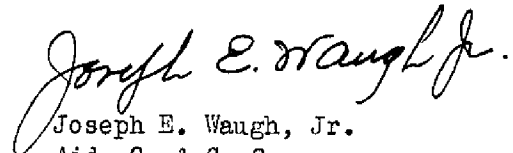
No. 8200. They should be retained.

STATISTICS:

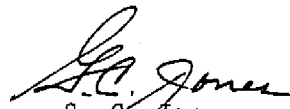
19.6 statute miles of shoreline

6.5 square statute miles of area.

Respectfully submitted,


Joseph E. Waugh, Jr.
Aid, C. & G. S.

APPROVED AND FORWARDED:


G. S. Jones,
Chief of Party, C. & G. S.

Remarks.

Decisions

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GEOGRAPHIC NAMES

Survey No. **2-6638**

Name on Survey	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>Louise Cove</u>									1
<u>Summer Strait</u>									2
<u>Kuiu Island</u>									3
<u>Point Amelius</u>									4
									5
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L. Heck 6/27/29

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } ~~Noted~~
~~PHOTOGRAPH~~ } No. T-6638

{ received April 29, 1939
 { registered June 22, 1939
 { 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
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✓ *TBR*

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6638 (1937-38) FIELD NO. SSA

Louise Cove and Point Amelius, Sumner Strait, Alaska
Surveyed in 1937 and 1938, Scale 1:10,000
Instructions dated July 16, 1936 (EXPLORER)

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Jones
Surveyed by - E. C. Baum and J. E. Waugh, Jr.
Inked by - J. E. Waugh, Jr.

1. Junctions With Surveys.

- a. The junction with T-6590 (1937) on the south is satisfactory.
- b. The junction with T-6664 (1938) on the north will be considered in the review of that survey.

2. Comparison with Prior Surveys.

H-1749 (1886) and T-2355 (1886)

These surveys each contain shoreline and formlines on a scale of 1:80,000, and cover the entire area of the present survey. They are actually one topographic survey but the details are slightly different, especially in the case of formlines which appear to have been drawn independently. None of the formlines in the area common to the present survey are accompanied by elevations, and for the most part are in poor agreement with the present work. A comparison shows that essential details are borne out by the present survey but that many differ in position and extent. The larger scale present survey with its greater detail and more rigid control should, within the common area, supersede the above old surveys.

3. Comparison with Charts 8152 (New Print dated Apr. 29, 1939)
8252 (New Print dated July 24, 1939)
8201 (New Print dated Apr. 29, 1939)

a. Topography

The topography shown on the chart originates entirely with surveys discussed in the foregoing paragraphs and no further consideration is necessary.

4. Condition of Survey.

- a. The descriptive report satisfactorily covers all items of importance.

- b. The field drafting is good, but the method of showing small islands, except when they are very small, by solid black areas is not desirable.
- c. The magnetic meridians shown on this survey are not accurate, according to a statement on page 3 of the Descriptive Report. The values shown, however, are within 2° of the charted value.

5. Compliance With Instructions for the Project.

Satisfactory.

6. Additional Field Work Recommended.

No additional field work is required.

7. Superseded Old Surveys.

H-1749 (1886) in part (contains topography)
T-2355 (1886) in part.

8. Reviewed by - Leo S. Straw, October 2, 1939.

9. Inspected by - H. R. Edmonston.

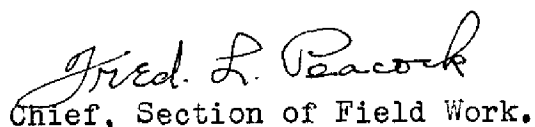
Examined & Approved:



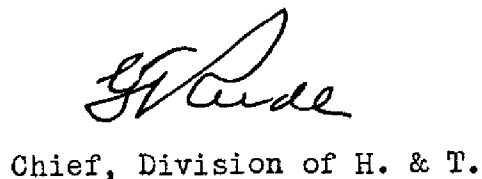
T. B. Reed,
Chief, Section of Field Records.



K. T. Adams
Chief, Division of Charts.



Fred. L. Peacock
Chief, Section of Field Work.



G. W. H. H. H.
Chief, Division of H. & T.