DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: S.W. ALASKA

DESCRIPTIVE REPORT
Topographic Sheet No. "K" - 1937

Locality
SANAK ISLANDS
Salmon & Peterson Bays

1937

Chief of Party
Ray L. Schoppe
Appliance No. Obb 8841. March 1940 - N.D.S.
Applied to chart 6905 June 1942 L.F. Stigman
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.: "Lp. 1337"

REGISTER NO. T6406

State: S.W. ALASKA

General locality: SANAK I.D.

Locality: Salmon & Peterson Bays

Scale: 1 - 10,000  Date of survey: June, 1937


Chief of party: Ray L. Schoppe

Surveyed by: E. B. Lewey

Inked by: E. B. Lewey

Heights in feet above M.H.W. to ground: Form line interval 100 feet

Instructions dated: March 30, 1936; Supplemental Instructions

...
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "L" 1937 T-6636

SALMON AND PETERSON BAYS

SANAK IDS., S. W. ALASKA

* * * * * * *

RAY L. SCHOPPE, CHIEF OF PARTY

SEASON OF 1937
DESCRIPTION REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "L" 1937 T-6606
SALMON AND PETERSON BAYS
SANAK IS., S.W. ALASKA

INSTRUCTIONS:
The work done on this sheet was authorized by the Director's Instructions for Project H.T. - 208, dated March 30, 1936. Supplemental Instructions dated March 30, 1937.

LIMITS:
The area included on this sheet lies between Latitudes 54° 22.0' North and 54° 24.4' North; and between Longitudes 162° 33.7' West and 162° 39.4' West. The sheet includes Salmon and Peterson Bays.

This sheet makes a junction with Topographic Sheet "F", 1936, at Topographic Station END, Latitude 54° 23.27' North and Longitude 162° 34.6' West. It also makes a junction with Topographic Sheet "O", 1937, at Topographic Station ANY, Latitude 54° 22.98' North and Longitude 162° 39.37' West.

CONTROL:
The topography was controlled by the Scheme of triangulation executed by the DISCOVERER during the 1936 season.

The triangulation is based on the Unalaska Datum, field computations unadjusted.
SURVEY METHODS:
The usual planstable survey methods were used. A combination
traverse and resection method was used in locating topographic signals,
shoreline, and other topographic details. When possible, signals were
verified by cuts from triangulation stations.
All traverses closed satisfactorily.

FORM LINES:
All elevations for the control of form lines and the heights of
the higher offshore rocks were determined by standard planstable methods.
The heights of the smaller and lower offshore rocks were estimated by com-
paring their heights with the telemeter rod.

COMPARISON WITH PREVIOUS SURVEYS:
The only previous survey of this area was the Planstable Survey, Reg-
ister No. 2553, made in 1901. These surveys agree as satisfactorily as
could be expected considering the differences in scales and control. All
differences between the two surveys were carefully checked and verified in
the field.

There are some differences in the extent and shape of rocks and reefs
at the junction of this sheet with topographic sheet "E", 1936. The rocks
and reefs in question are those extending 0.9 mile southeastward from topo-
graphic signal END, Latitude 54° 23.27' North and Longitude 162° 34.6' West.
The detail shown on this sheet is correct, it was obtained at dead low water
and rodded in from topographic signal MULE, Latitude 54° 22.9' North and
Longitude 162° 34.1' West. The detail shown on Sheet "E", 1936, was cut in
since it was too rough to land on offshore rocks at that time.

GENERAL DESCRIPTION:
Except for the heads of Salmon and Peterson Bays, the shores within
the limits of this sheet are marked with rocky or grassy bluffs varying in
height from 24 feet to 130 feet. The high rocky bluffs on the north and
east sides of Salmon and Peterson bays are quite prominent from off-
shore. The head of Salmon Bay is low, sandy, and grass covered, and
has a large lagoon extending ½ mile inshore from the high water line.
A low area covered with grass and sand dunes extends from Peterson Bay
westward to Sandy Bay.

The beaches are, for the most part, composed of rocky ledges. The
beach at the N.W. end of Peterson Bay is composed of sand and gravel.
The beach at the head of Salmon Bay is flat and sandy.

The old settlement on the north side of Peterson Bay is no longer
in existence, only one small and broken down shack remains.

SPECIAL NOTES:
The instructions given in the Coast Pilot for entering and anchoring
in Peterson Bay are correct and sufficient.

Salmon Bay is not recommended as an anchorage. It is uncomfortable,
except after several days of northerly weather.

Fresh water, in small quantities, may be obtained from a small
spring just east of the old settlement in Peterson Bay.

DISTORTION:
A 24" x 31" aluminum mounted sheet was used and no distortion was
noted at any time.

MAGNETIC OBSERVATIONS:
Observations were made at Triangulation Stations PETE RSON MAGNETIC
STATION, 1901, and SON, 1938, with the declinometer. The results show
magnetic variations of 17° 08' E. at PETE RSON MAGNETIC STATION and 17°-
10' E. at SON.
GEOGRAPHIC NAMES:

SANAK ISLAND, SALMON BAY, and PETERSON BAY are names that are shown on Coast Survey Charts and are used locally.

REMARKS:

On this sheet there are three shoals that were reduced slightly in area after comparisons with the smooth hydrographic sheet. These shoals are located as follows:

(a) Sunken rocks in Lat. 54° 22.58' Long. 162° 38.8'
(b) Reef Lat. 54° 23.0' Long. 162° 34.2'
(c) Shoal and kelp Lat. 54° 22.5' Long. 162° 32.88'

In other respects, the topographic and hydrographic sheets seem to be in agreement.

Respectfully submitted,

Ernest B. Lewey,
Jr. H. & G. E.,
U.S.C. & G.S.S. DISCOVERER.

Approved and Forwarded,

Ray L. Schoppe,
H. & G. Engr. Commanding Ship DISCOVERER.
**STATISTICS**

TO ACCOMPANY TOPOGRAPHIC SHEET "L" 1937 7-4106

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Names underlined in red approved
by [Signature] on 5/27/38
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT
No. T-6606
received April 18, 1938
registered May 26, 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

\[Signature\]
Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 6606 (1937) FIELD NO. L

Salmon and Peterson Bays, Sanak Island, S. W. Alaska.
Surveyed in June 1937, Scale 1:10,000
Instructions dated March 30, 1936 & March 30, 1937 (DISCOVERER)

Plane Table Survey
Aluminum Mounted

Chief of Party - Ray L. Schoppe.
Surveyed by - E. B. Lewey.
Inked by - E.B. Lewey.

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.

a. The junction with T-6608 (1937) on the west is satisfactory.

b. The present survey joins T-6503 (1936) on the east and south east. The junction is satisfactory except that differences of as much as 80 m. are noted in the islet and reef details (portions common to both surveys) extending southeast of Signal END in lat. $54^\circ 23.3'$, long. $162^\circ 34.6'$. These differences are mainly attributed to the present survey details being rodded in on a larger scale at dead low water (See Descriptive Report, Page 2). The larger scale present survey details are considered the more accurate and should be used for charting purposes.

c. The junction on the southeast with T-6607 (1937) is satisfactory.


T-2553 (1901), Scale 1:40,000.

This small scale survey covers the entire area of the present survey. A comparison with the present survey shows considerable differences in details and among the more important being the 1901 shoreline in lat. $54^\circ 23.4'$, long. $162^\circ 36.6'$, which is shown 140 m. northeast of the present survey location. The north shore of the lagoon in lat. $54^\circ 24.2'$, long. $162^\circ 37'$ is 190 m. south of the present survey location.
The small lake shown just north of the lagoon on the present survey is only half the size of the one shown on the 1901 survey. Many of the lakes shown on the 1901 survey are not located on the present survey but have been covered by a general note. Agreement of formlines is also poor, the maximum difference noted being the 220 m. discrepancy in the 100 foot formline in Lat. 54°23.5', long. 162°35.2'.
In lat. 54°24.2', long. 162°36.0'; the present survey shows a 100 foot formline extending directly across the middle of a small lake 450 m. in length on the old survey. The settlement shown on the old survey on the north side of PETERSON BAY is no longer in existence, only one small broken down shack remaining (see Descriptive Report, page 3).
The small scale, meager control and lack of elevations on the old survey are sufficient to account for differences from the present survey. T-2553 therefore contains no information that need be retained, and should be superseded by the present survey in the common area in future charting.

5. Comparison with Chart 8860 (New Print dated Jan. 12, 1938).

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

6. Field Drafting.

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

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 survey for charting purposes:

T-2553 (1901) in part.


Inspected by E. P. Ellis,

Examined and approved:

Thos. B. Reed
Chief, Section of Field Records

K.T. Adams
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

Chief, Division of Hydrography and Topography.