## DESCRIBITIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-53 (49)</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-9577</td>
</tr>
</tbody>
</table>

## LOCALITY

<table>
<thead>
<tr>
<th>State</th>
<th>ALASKA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>ST. LAWRENCE ISLAND</td>
</tr>
<tr>
<td>Locality</td>
<td>FUNGOKOSIT SPIT</td>
</tr>
</tbody>
</table>

| 19450               |

## CHIEF OF PARTY

- P.A. Riddell, Chief of Field Party.
- H.A. Paton, Baltimore Photogrammetric Office

## LIBRARY & ARCHIVES

<table>
<thead>
<tr>
<th>DATE</th>
<th></th>
</tr>
</thead>
</table>
DATA RECORD

T - 9577

Project No. (II): Ph-53(49) Quadrangle Name (IV):

Field Office (II): Portland, Oregon Chief of Party: Fred A. Riddell
Photogrammetric Office (III): Baltimore, Md. Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III): 4 May 1950, supplemented by letter dated 29 March 1951 from Acting Director to Comdr. Hubert A. Paton
Copy filed in Division of Photogrammetry (IV) Office Files

Method of Compilation (III): Air photographic (Multiplex)

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 5-22-51 Date reported to Nautical Chart Branch (IV): May 29, 1951

Applied to Chart No. Date: Date registered (IV): 1-30-53

Publication Scale (IV): 1:25,000 Publication date (IV):

Geographic Datum (III): NA 1927 (Adjusted) Vertical Datum (III): Mean Sea Level

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (0) refer to sounding datum
i.e., Mean Lower Low Water shoreline at MLLW

Reference Station (III): NASKOK EAST BASE, 1950

Lat.: Long.: Unadjusted

Plane Coordinates (IV): UTM grid State: Alaska Zone: 2

\( X^E = \) NORTTHING \( X^W = \) EASTING

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
DATA RECORD

Ray H. Skelton II
Field Inspection by (II): Jack S. Chamberlain
 Victor E. Serena
 Sheridan D. Jones
 Robert S. Tibbetts

Planetale contouring by (II): None

Completion Surveys by (II): None

Mean High Water Location (III) (State date and method of location):
Sept. 24, 1948 (Same as date of photography)

Projection and Grids ruled by (IV): T.L.J.
Projection and Grids checked by (IV): R.S.
Control plotted by (III): R.S.

Control checked by (III): S.W.Trow

Horizontal and vertical
Stereoscopic
Control extension by (III): A. K. Heywood

Planimetry A. K. Heywood
Contours A. K. Heywood

Stereoscopic Instrument compilation (III):

Manuscript delineated by (III): C. A. Lipscomb

Photogrammetric Office Review by (III): A. K. Heywood

Elevations on Manuscript
cHECKED by (II) (III): A. K. Heywood

Date: June 1950

Date: Nov. 1950

Date: Dec. 1950

Date: Dec. 1950

Date: Feb. 1951

Date: Feb. 1951

Date: March 1951

Date: April 1951

Date: April 1951
Areas contoured by various personnel
(Show name within area)
(I) (III)
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>STL 11 - 101 - STL 11-105</td>
<td>8-24-48</td>
<td>1:20,000</td>
<td>(No time of photo available)</td>
</tr>
</tbody>
</table>

Tide (III)

From Predicted table of tides

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2</td>
<td>3.7</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>1.3</td>
<td>1.9</td>
</tr>
</tbody>
</table>

Date: 13 Aug 1952

Land Area (Sq. Statute Miles) (III): 2
Shoreline (More than 200 meters to opposite shore) (III): 5
Shoreline (Less than 200 meters to opposite shore) (III): 5
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
Number of BMs searched for (II): Recovered: * identified: 1
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:
* This figure given by compilation office
TOPOGRAPHIC MAPPING PROJECT PH-53
ALASKA: Bering Sea, St. Lawrence Island
Compiled by the U. S. Coast and Geodetic Survey at scale of 1:20,000 from U. S. Navy 1:20,000 scale single-lens photographs taken August 1948.
(Refer to U. S. Navy mosaic index)
SUMMARY FOR T-9577

This topographic survey is one of a series of 49 quadrangles, each 7½ minutes in latitude and 15 minutes in longitude at 1:20,000 scale that cover ST. LAWRENCE ISLAND, ALASKA.

This MERING SEA island is approximately 100 miles long and averages 20 miles in width and has not been previously mapped at this large scale.

ST. LAWRENCE ISLAND is within the CAPE HOME DISTRICT of the SECOND JUDICIAL DIVISION.

The maps of this island are to be published at 1:25,000 scale by the Army Map Service.

For information concerning the project in its broader aspects see the project completion report which will include, among other items, two detailed field reports - a preliminary report dated 21 September 1950 and a project report dated June-September 1950 - both submitted by Fred A. Riddell.

The registered data to be permanently filed in the Bureau Archives under T-9577 will include a cloth-mounted lithographic print of the map manuscript at 1:20,000 scale together with a cloth-mounted published color print at 1:25,000 scale and the original descriptive report.
COMPILATION REPORT FOR T-9577

FIELD INSPECTION REPORT

Refer to project report, part 1, bound under separate cover.

PHOTOGRAMMETRIC PLOT REPORT

This report was submitted with the descriptive report for Survey T-9575, filed as part of that report and covers Surveys T-9575 to T-9577.

31. DELINEATION

Refer to photogrammetric plot report for quadrangles T-9575 to T-9577, item 22. See above.

32. CONTROL

Refer to photogrammetric plot report for quadrangle T-9575 to T-9577, item 23. See above.

33. SUPPLEMENTAL DATA

None. See sub-heading 43

34. CONTOURS AND DRAINAGE

Complete.

35. SHORELINE AND ALONGSHORE DETAILS

The MHW line was delineated by the multiplex with the aid of "ticks" furnished by the field party on the contact photographs.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.
38. CONTROL FOR FUTURE SURVEYS

1 Form 524 is submitted with this report.

This station was located by multiplex

A list of recoverable topographic stations is included in paragraph 49 of this report.

39. JUNCTIONS

Junctions have been made to the west with Survey T-9576 and to the south with Survey T-9583. There are no contemporary surveys to the north and east.

40. HORIZONTAL AND VERTICAL ACCURACY

This subject is fully discussed in the photogrammetric plot report for T-9575 - T-9577 inclusive, filed as part of Descriptive Report for T-9575

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS map, scale 1:250,000, printed in 1949.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 9302, scale 1:534,076 at Lat. 60° 00', published in July 1945 and corrected to August 29, 1949.

Items to be applied to nautical charts immediately:

None.

Items to be carried forward:

None.

After completion of hydrographic surveys the map should supersede all previous charts.

Respectfully submitted

Albert A. Heywood
Cartographic Photo. Aid

Approved and forwarded

12 June 1951

Hubert A. Paton
Comdr., C&GS
Officer in Charge
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

Albert K. Heywood

Hubert A. Paton
Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CABIN</td>
<td>Northeast gable of cabin (westerly of two)</td>
<td>PUK</td>
<td>63 39</td>
<td>241 17</td>
<td>292</td>
<td>St. Law. Ild. Photo Astrolabe</td>
<td>1950</td>
<td>9302</td>
</tr>
</tbody>
</table>

Corrections to N.P. 1977 datum:

- Latitude: -4.19
- Longitude: -70.60

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by
PHOTOGRAVMETRIC OFFICE REVIEW

1. Projection and grids
2. Title
3. Manuscript numbers
4. Manuscript size

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)
7. Photo-hydro stations
8. Bench marks
9. Plotting of sextant fixes
10. Photogrammetric plot report
11. Detail points

ALONGSHORE AREAS
12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

MISCELLANEOUS
33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Simplicity
37. Descriptive report
38. Field inspection photographs
39. Forms

Reviewer
Supervisor or Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler
Supervisor

43. Remarks:
GEOGRAPHIC NAME LIST

- Bering Sea
- Niyrakpak Lagoon
- Fungokosit Spit
- St. Lawrence Island

Names underlined in red are approved. 8-11-52
L. Healy
49. NOTES FOR THE HYDROGRAPHER

The following is a list of recoverable topographic stations:

SAND, 1950.

Special attention is called to the special volume part 2 of the Project Report containing "jumbo" size prints of topographic and hydrographic stations prepared for the use of the hydrographic party.

Form 5a-4 for this station gives the position on the St. Lawrence Island (Gambell) Astrolabe station. Position on registered copy on NA/527.
REVIEW REPORT
Topographic Map T-9577
13 August 1952

62. Comparison with Registered Topographic Surveys:

T-2337 1:1,100,000 1898

The above is a copy of a sketch by an Eskimo. There were no prior surveys by this Bureau.

63. Comparison with Maps of Other Agencies:

St. Lawrence, Alaska 1:250,000 1949
(Reconnaissance quadrangle, USGS)

Comparison satisfactory considering difference in scale.

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

2302 1945 corrected 51-10/1 Scale 1: 1,536,076

Scale difference precludes detailed comparison.

66. Adequacy of Results and Future Surveys:

No accuracy tests were run for T-9577. This survey meets the National Standards of Map Accuracy and complies with the project instructions.

Reviewed by:

Everett H. Ramey

Approved:

J.W. Griffith 4/14/53
Chief, Review Section
Division of Photogrammetry

Earl O. Keaton
Chief, Div. of Coastal Surveys