

9577
=

Diag. Cht. No. 9302

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-53 (49) Office No. T-9577

LOCALITY

State ALASKA

General locality ST. LAWRENCE ISLAND

Locality PUNGOKOSIT SPIT

194 50

CHIEF OF PARTY

F.A.Riddell, Chief of Field Party.

H.A.Paton, Baltimore Photogrammetric Office.

LIBRARY & ARCHIVES

DATE

B-1870-1 (1)

2456
=

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 (Unadjusted)

Vertical Datum (III): Mean Sea Level

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (S) refer to sounding datum

i.e., ~~Mean lower low water~~ mean lower low water

shoreline at MHW

Reference Station (III): NASKOK EAST BASE, 1950

Lat.:

Long.:

Unadjusted

Adjusted

Plane Coordinates (IV): UTM grid

State: Alaska

Zone: 2

~~XX~~

NORTHING

~~XX~~

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

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

Date: June 1950

Planetable contouring by (II): None

Date: —

Completion Surveys by (II): None

Date: —

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.

Date: Nov. 1950

Projection and Grids checked by (IV): R.S.

Date: Nov. 1950

Control plotted by (III): R.S.

Date: Dec. 1950

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

Date: Dec. 1950

Horizontal and vertical

~~Horizontal and vertical~~ Stereoscopic

Control extension by (III): A. K. Heywood

Date: Feb. 1951

Planimetry A. K. Heywood

Date: Feb. 1951

Stereoscopic Instrument compilation (III):

Contours A. K. Heywood

Date: Feb. 1951

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

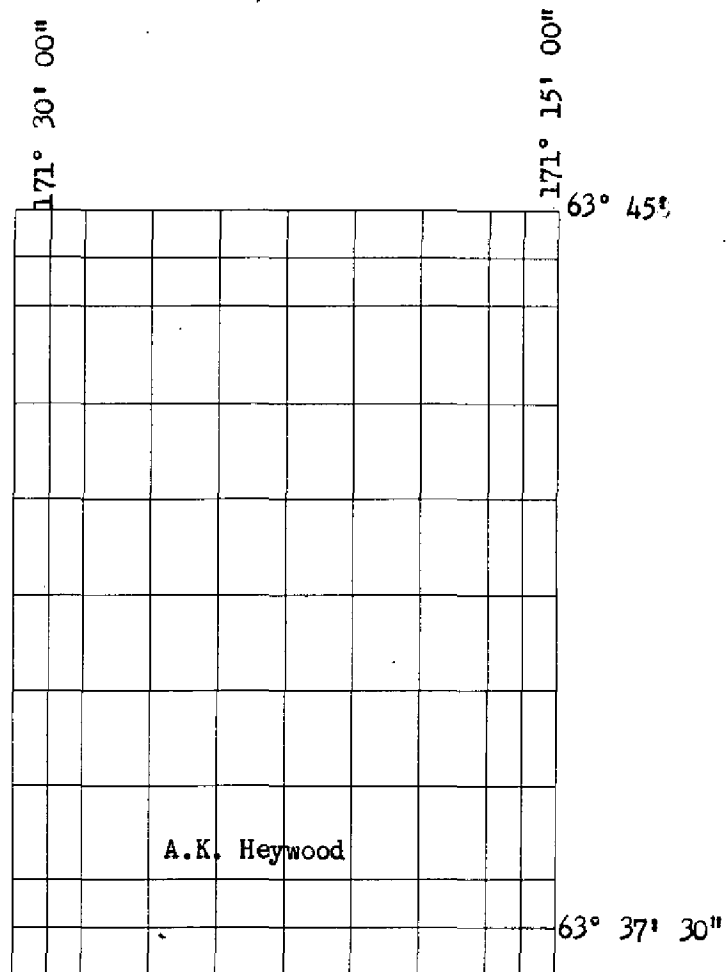
Date: March 1951

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

Date: April 1951

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

Date: April 1951



Areas contoured by various personnel
 (Show name within area)
 (II) (III)

4

Camera (kind or source) (III):

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
STL 11 - 101 - STL 11-105	8-24-48		1:20,000	(No time of photo available)

Tide (III)

From Predicted table of tides

Reference Station: DUTCH HARBOR
Subordinate Station: ST. LAWRENCE ID., ALASKA.
Subordinate Station:

Diurnal

Ratio of Ranges	Mean Range	Spring Range
	2.2	3.7
0.5	1.3	1.9

Washington Office Review by (IV): *Everett H. Ramey*

Date: *13 Aug 1952*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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):

Recovered:

* Identified: 1

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 0

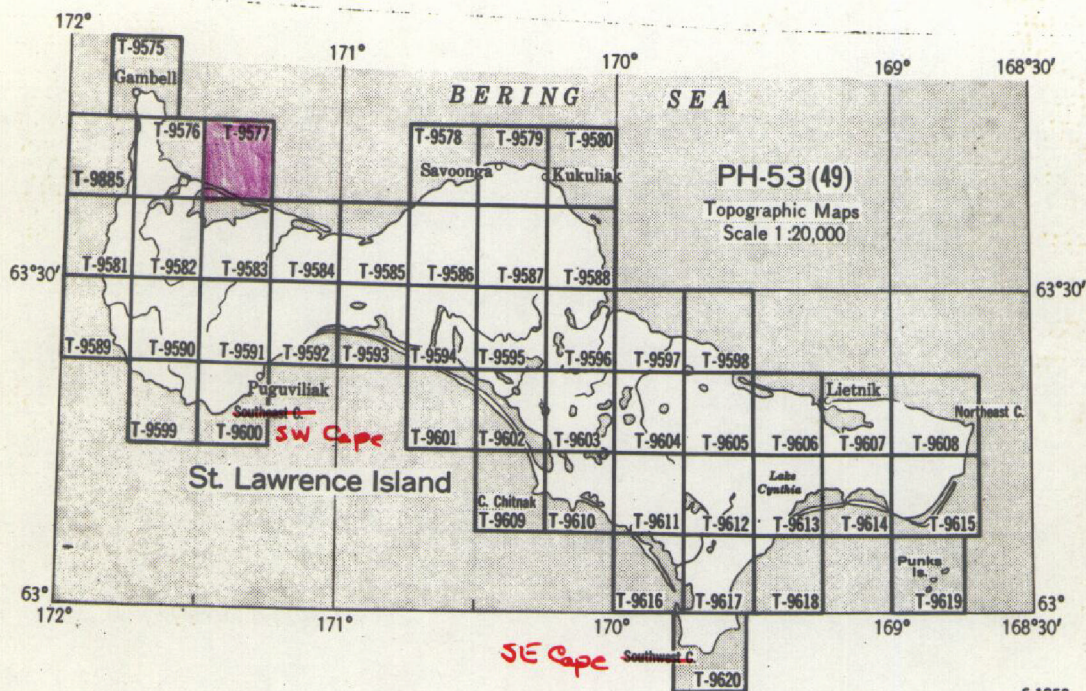
Remarks:

* 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)



6-1952

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles Area	Sheet No.	Sq. Miles Area	Sheet No.	Sq. Miles Area
T-9575.....	7	T-9590.....	67	T-9605.....	64
T-9576.....	39	T-9591.....	67	T-9606.....	49
T-9577.....	2	T-9592.....	52	T-9607.....	39
T-9578.....	16	T-9593.....	42	T-9608.....	33
T-9579.....	36	T-9594.....	56	T-9609.....	3
T-9580.....	7	T-9595.....	66	T-9610.....	40
T-9581.....	24	T-9596.....	64	T-9611.....	64
T-9582.....	63	T-9597.....	41	T-9612.....	66
T-9583.....	60	T-9598.....	16	T-9613.....	53
T-9584.....	56	T-9599.....	21	T-9614.....	38
T-9585.....	50	T-9600.....	28	T-9615.....	45
T-9586.....	67	T-9601.....	2	T-9616.....	12
T-9587.....	67	T-9602.....	31	T-9617.....	54
T-9588.....	53	T-9603.....	65	T-9618.....	5
T-9589.....	18	T-9604.....	65	T-9619.....	1
				T-9620.....	19
				T-9885.....	3

TOTAL 1836

⑥

SUMMARY FOR T-9577

This topographic survey is one of a series of 49 quadrangles, each $7\frac{1}{2}$ minutes in latitude and 15 minutes in longitude at 1:20,000 scale that cover ST. LAWRENCE ISLAND, ALASKA.

This BERING 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 Nome 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 49*

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:

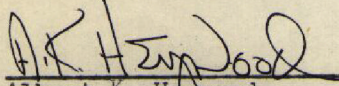
None.

Items to be carried forward:

None.

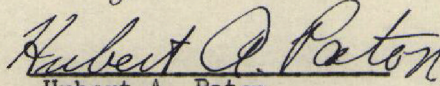
After completion of hydrographic surveys the map should supersede all previous charts.

Respectfully submitted


Albert K. Heywood
Cartographic Photo. Aid

Approved and forwarded

12 June 1951


Hubert A. Paton
Comdr., C&GS
Officer in Charge

NONTECHNICAL AIDS FOR CHARTS

STRIKE OUT ONE

Baltimore, Maryland

March 30 19 51

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts)~~ the charts indicated.

The positions given have been checked after listing by

Albert K. Heywood

Hubert A. Paton *Chief of Party.*

[illegible]

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

50 PHOTOGRAMMETRIC OFFICE REVIEW

T. 9577

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads AKH 28. Buildings AKH 29. Railroads AKH 30. Other cultural features AKH

BOUNDARIES

31. Boundary lines AKH 32. Public land lines AKH

MISCELLANEOUS

33. Geographic names AKH 34. Junctions AKH 35. Legibility of the manuscript AKH 36. Discrepancy overlay AKH 37. Descriptive Report AKH 38. Field inspection photographs AKH 39. Forms AKH 40. AKH Reviewer AKH Supervisor/Review Section or Unit AKH

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:

M.2623-12

48. GEOGRAPHIC NAME LISTBering SeaNiyrakpak LagoonPungokosit SpitSt. Lawrence Island

Names underlined in red
are approved. 8-11-52
L. Heck

12

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 524 for this station gives the position on the St. Lawrence Island (Gambell) Astrolabe datum. Position on registered copy on NA1927.

18

REVIEW REPORT
Topographic Map T-9577
13 August 1952

62. Comparison with Registered Topographic Surveys:

T-2337 ~~1:1,100,000~~ 1898

The above
~~This 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:

9302 1945 corrected 51-10/1 Scale 1:1,534,076
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

Everett H. Ramey

Approved:

S. V. Gifford 4/14/53

Chief, Review Section
Division of Photogrammetry

H. C. Edmonson

Chief, Nautical Chart Branch
Division of Charts CFI

J. B. Reading

Chief, Div. of Photogrammetry
pas

Earl O. Heaton

Chief, Div. of Coastal Surveys
RR 7