

9599

9600

9600

9599

Diag. Cht. No. 9302

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Topographic

T-9599

Field No. Ph-53 (49) Office No. T-9600

## LOCALITY

State AlaskaGeneral locality St. Lawrence IslandLocality Southwest Cape19~~4~~ 51

## CHIEF OF PARTY

Fred A. Riddell, Chief of Field Party

Louis J. Reed, Div. of Photogrammetry,

Washington, D.C.

LIBRARY &amp; ARCHIVES

DATE MARCH 25, 1955

B-1870-1 (1)

## DATA RECORD

T-9599 &amp; 9600

Project No. (II): Ph-53(49)      Quadrangle Name (IV): T-9599 -  
T-9600 -

Field Office (II): St Lawrence Island, Alaska Chief of Party: Fred A. Riddell

Photogrammetric Office (III): Washington, D.C.      Officer-in-Charge: Louis J. Reed, Chief,  
Stereoscopic Mapping Section

Instructions dated (II) (III):

Copy filed in Division of  
Photogrammetry (IV)

Office Files

(II) = 4 May 50, supplemented  
by letter dated 29 March 1951 from Acting  
Director to Comdr. Hubert A. Paton

Method of Compilation (III): Control extension by stereoplanigraph and  
detailing by stereoplanigraph and Kelsh Plotter "A"

Manuscript Scale (III): 1:20,000

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

Scale Factor (III): 1:1

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV): 1:25,000

Publication date (IV):

Geographic Datum (III): ~~St Lawrence Island~~

NA 1927 (Unadjusted)

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

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

Shoreline at MHW

Reference Station (III):

Lat.:

Long.:

Adjusted  
Unadjusted

Plane Coordinates (IV):

State: Alaska

Zone: 2

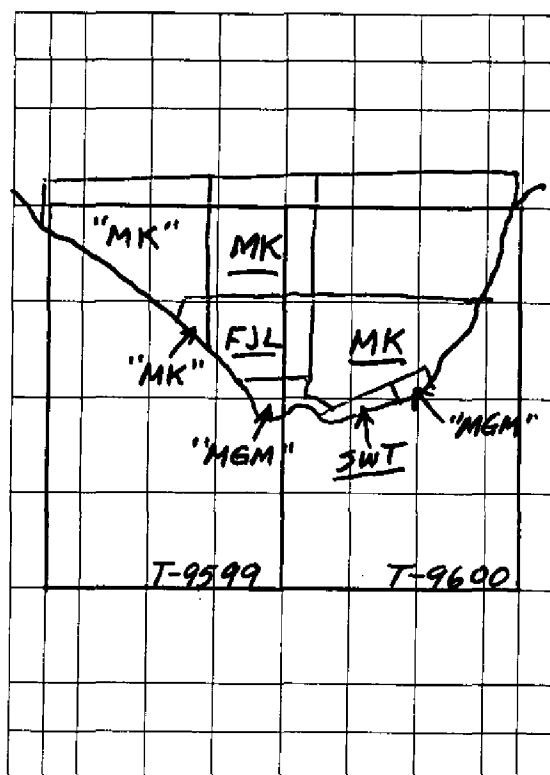
Y=

X=

Grid = UTM, Zone 2

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.



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

1. Control extended 100% on Stereoplanigraph
2. Simultaneous detailing of culture and contours as follows, with reference to diagram above:
  - MK = Morton Keller on the Kelsh Plotter "A"
  - FJL = Frank J. Lesslie on the Kelsh Plotter "A"
  - SWT = Stanley W. Trow on the Kelsh Plotter "A"
  - "MK" = Morton Keller on the Stereoplanigraph
  - "MGM" = Michael G. Misulia on the Stereoplanigraph

## DATA RECORD

Field Inspection by (II):	Fred A. Riddell	Date:	1950
Planetable contouring by (II):	None	Date:	—
Completion Surveys by (II):	None	Date:	—
Mean High Water Location (III) (State date and method of location):			
1950 field inspection of shoreline used as a guide during instrument delineation of the MHWL.			
Projection and Grids ruled by (IV):	Theodore L. Janson on the Reading Ruling Machine	Date:	15 Nov 50
Projection and Grids checked by (IV):	Howard D. Wolfe	Date:	16 Nov 50
Control plotted by (III):	Stanley W. Trow	Date:	8 Dec 50
Control checked by (III):	Robert L. Sugden	Date:	8 Dec 50
<del>Radial Plot</del> or Stereoscopic Control extension by (III):	Michael G. Misulia	Date:	14 Sep 51
	Planimetry	Date:	
Stereoscopic Instrument compilation (III):	See data Page 2	Date:	16 Oct 51
	Contours	Date:	
Manuscript delineated by (II):	Henri Lucas	Date:	20 Jan 52
Photogrammetric Office Review by (III):	None	Date:	—
Elevations on Manuscript checked by (II) (III):	None	Date:	—



Camera (kind or source) (III): U.S. Navy (VPP-1), Photographic Squadron One

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
St1-6		Time of photo exposure not available	10,000	Not computable without time of photo exposure
60 thru 70				
80 thru 81				
St1-5	Aug 48			
88 thru 90				
St1-12				
140 thru				
159				

## Tide (III)

Reference Station: Dutch Harbor, Alaska  
 Subordinate Station: St. Lawrence Island, Alaska  
 Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 36  
 Shoreline (More than 200 meters to opposite shore) (III): 30  
 Shoreline (Less than 200 meters to opposite shore) (III): None  
 Control Leveling - Miles (II): None  
 Number of Triangulation Stations searched for (II):  
 Number of BMs searched for (II): None  
 Number of Recoverable Photo Stations established (III): 12 7  
 Number of Temporary Photo Hydro Stations established (III): None 9

Remarks:

## Diurnal

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

Date: 12-12-52

Date:

Date:

Date:

Identified: 12 8

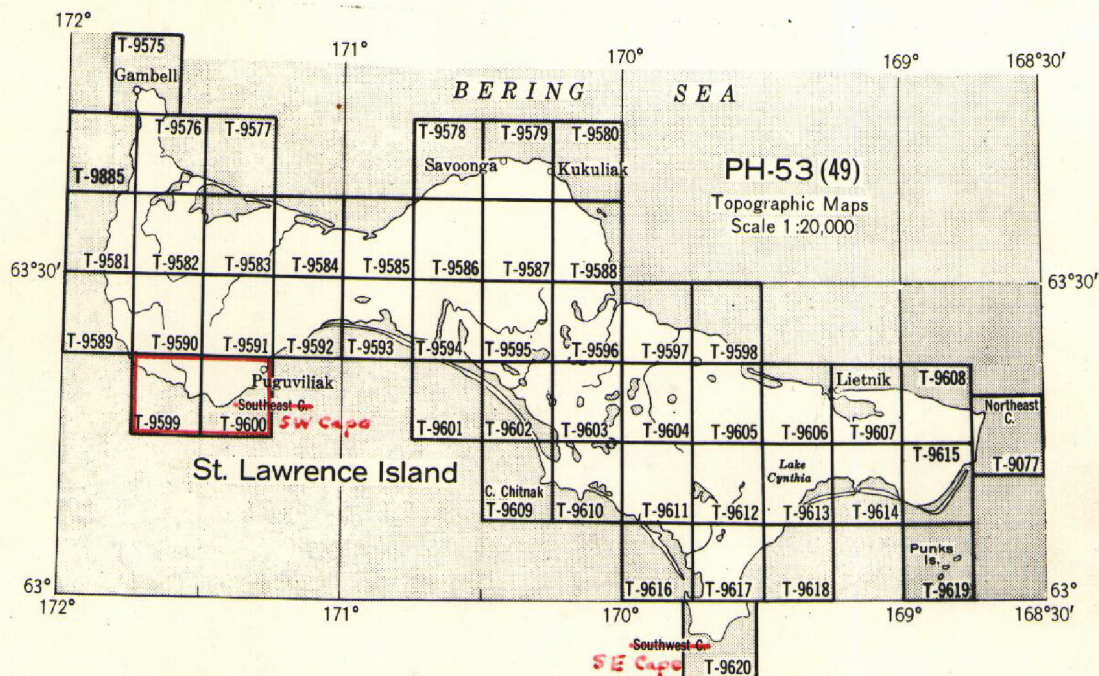
Identified:

TOPOGRAPHIC MAPPING PROJECT PH-53  
ALASKA - Bering Sea, St. Lawrence Island

## 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)



## OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles Area	Sheet No.	Sq. Miles Area	Sheet No.	Sq. Miles Area
T-9077.....	6	T-9590.....	67	T-9606.....	49
T-9575.....	7	T-9591.....	67	T-9607.....	39
T-9576.....	39	T-9592.....	52	T-9608.....	28
T-9577.....	2	T-9593.....	42	T-9609.....	3
T-9578.....	16	T-9594.....	56	T-9610.....	40
T-9579.....	36	T-9595.....	66	T-9611.....	64
T-9580.....	7	T-9596.....	64	T-9612.....	66
T-9581.....	24	T-9597.....	41	T-9613.....	53
T-9582.....	63	T-9598.....	16	T-9614.....	38
T-9583.....	60	T-9599.....	21	T-9615.....	44
T-9584.....	56	T-9600.....	28	T-9616.....	12
T-9585.....	50	T-9601.....	2	T-9617.....	54
T-9586.....	67	T-9602.....	31	T-9618.....	5
T-9587.....	67	T-9603.....	65	T-9619.....	1
T-9588.....	53	T-9604.....	65	T-9620.....	19
T-9589.....	18	T-9605.....	64	T-9885.....	3

TOTAL	1836
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SUMMARY FOR T-~~9599~~ <sup>are two</sup> 9600

These topographic surveys ~~is one~~ <sup>are two</sup> 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 NORE 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-~~9599~~ <sup>combined</sup> 9600 will include = cloth-mounted lithographic prints of the map manuscripts at 1:20,000 scale together with = cloth-mounted published color prints at 1:25,000 scale and the original <sup>combined</sup> descriptive report.

FIELD INSPECTION REPORT

2-20:

Refer to two separate reports entitled as follows:

PRELIMINARY REPORT

project Ph-53(49)

FIELD WORK - 1950 SEASON

and

PROJECT REPORT

ST. LAWRENCE ISLAND, ALASKA

Project Ph-53(49)      June -September 1950

Fred A. Riddell, Chief of Party

Part 1 = Written Report

Part 2 = Identification Photos



COMPILATION REPORT~~20-30. Radial Plot Report:~~

~~There is no radial plot, as such, since the control for this compilation was extended on the Stereoplanigraph without unusual difficulties.~~

31. Delineation:

Delineation was accomplished on the Stereoplanigraph and the Kelsh Plotter "A" as outlined on page 2 of the Data Records. Photo coverage was complete and the entire areas of the two manuscripts of this report have been compiled. The field inspection along the shoreline was complete and satisfactory.

32. Control:

Both horizontal <sup>and</sup> vertical control were adequate for this survey ~~because they~~ were office selected before field operations; In general, office selections of control sites — were followed closely. *by*

33. Supplemental Data: None34. Contours and Drainage:

The ~~photographic~~ quality of the photographs for instrument use in contouring was only average, but satisfactory. No particular difficulties were encountered during the bridging-of-control operation. There remain no areas of questionable contours.

35. Shoreline and Alongshore Details:

Shoreline inspection was adequate. No low-<sup>a</sup>water or shoal lines were located, field or office.

36. Offshore Details: There is nothing unusual to report.37. Landmarks and Aids:

No nautical or aeronautical aids exist, but <sup>one</sup> ~~three~~ landmarks in the area were recommended for showing on ~~large~~ large scale charts; refer to form 567 included in this report.

38. Control for Future Surveys:

A total of 9 hydro stations and <sup>7</sup> ~~4~~ topo stations were selected and named in the field. They were also field identified for use during delineation, at which time they were positioned. Each is shown in proper name and symbol on the two manuscripts. Details regarding these points are listed in the Field Inspection Report and in the "Notes for the Hydrographer" page included in this report.



39. Junctions:

All junctions are in agreement. ~~since they/compiled simultaneously~~ <sup>were</sup>

40. Horizontal and Vertical Accuracy:

Accuracy in both respects is considered to meet map standards requirements. The horizontal scale of these quads is 1:20,000 and the contour interval is 50ft.

46. Comparison with existing maps:

ST. LAWRENCE, ALASKA, Alaska reconnaissance Topographic Series, Second Judicial Division, USGS, 1:250,000, 1943 compilation printed in 1949. ~~Because of the scale and poor quality of this map, a true comparison is not made.~~  
*See Item 62 of the Review Report on p. 15.*

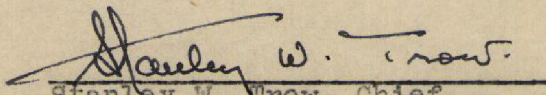
LMG.

47. Comparison with Nautical Charts:

BEARING SEA, EASTERN PART, Alaska, West Coast, USC & GS, scale 1:1,534,076, July 1945 (16th edition), 1/c 11 Jan 52. This chart is the only one covering this area but it is of such small scale that no worthwhile comparison is possible.

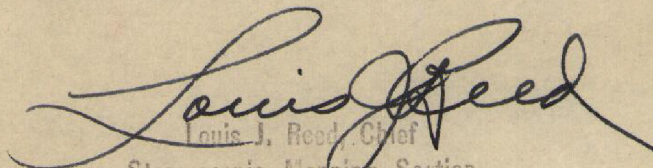
48. Geographic Name List: See next page.49. Compilation Office Review: Not executed. *Why not?*50. Notes for the Hydrographer: See separate page included.

Submitted by



Stanley W. Trow, Chief,  
 Single Lens Plotting Instrument Unit

Approved By



Louis J. Reed, Chief  
 Stereoscopic Mapping Section  
 Photogrammetric Engineer

# GEOGRAPHIC NAMES

Survey No. T - 9599

GEOGRAPHIC NAMES										
Survey No. T - 9599										
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		
Alaska									1	
Bering Sea									2	
Second Judicial Div.									3	
St. Lawrence Island									4	
Iwoonut Point									5	
Boxer Bay									6	
Boxer River									7	
Wanmavee Creek (nwly trib. Boxer R.)									8	
Taveeluk Point									9	
Siteeluk Bay									10	
Evghinak Point									11	
									12	
									13	
									14	
									15	
									16	
									17	
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									20	
									21	
									22	
									23	
									24	
									25	
									26	
									27	

M 234

Names underlined in red are approved.

11-12-52. /s/ L. Heck

## GEOGRAPHIC NAMES

Survey No.

T-9600

Name on Survey

	A	B	C	D	E	F	G	H	K	
Alaska										1
St. Lawrence Island										2
Bering Sea ✓										3
										4
Southwest Cape ✓										5
Koonangoomuk Creek ✓										6
Oongayuk Hill ✓										7
Oklighiat Hill ✓										8
Okok River ✓										9
Singikpak Point ✓										10
Poowoiliak Point ✓										11
Poowoiliak Camp ✓										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27
										28

(Not permanent village but summer and occasional camp site)

Names underlined in red are approved, 11-12-52  
/s/ L. Heck



50. Notes for The Hydrographer:

T-9599

a Hydro Stations:

Aim	identified on photo	No 68, STL-6
* Wit	" " "	No 68, STL-6
Min	" " "	No 88, STL-5
Pop	" " "	No 91, STL-5

b Topo Stations (\*add)

CELT, 1950 identified on photo No 91, STL-5

T-9600

a Hydro Stations:

Zoo	identified on photo	No 92, STL-5
Saw	" " "	No 73, STL-5
Pip	" " "	No 95, STL-5
Tor	" " "	No 147, STL-12
Gam	" " "	No 147, STL-12

b Topo Stations:

JACK, 1950	identified on photo	No 92, STL-5
GAIN, 1950	" " "	No 94,95, STL-5
DUST, 1950	" " "	No 94, STL-5

Descriptions of all Topo Stations will be found on forms 524, one for each station. They are marked with standard disks.

Hydro stations are described on the field identification photos listed above, and can be better identified in the field by use of Part II of the field inspection report where "620" photos of these points are filed.

\* See Form 567, dated Nov 10, 1957, included as p.12 herein.

* Nero, 1950	identified on photo	No. 6-067
Cold, 1950	" " "	No. 12-159
Zemo, 1950	" " "	No. 5-089

## INNOVATING AND SETTING LANDMARKS FOR CHARTS

Stereoscopic Plotting Section,  
Div of Photogrammetry,  
Washington, D.C.

**STRIKE OUT ONE**

**TO BE CHARTED**

**TO BE CHARGED  
TO BE DELETED**

10 Nov 52. 19

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by KRM.

**Chief of Party.**

[illegible]

**This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating***



15

Review Report  
T-9599 and T-9600  
Topographic Manuscripts  
December 12, 1952

62. Comparison with Registered Topographic Surveys.-

T-2337

1898

The above is without scale or projection. It was drawn by an Eskimo and is included in the Bureau Archives as a record of native geographic names and for historical reasons.

T-9599 and T-9600 are the first large scale surveys of this area.

63. Comparison with Maps of Other Agencies.-

St. Lawrence, Alaska, USGS, 1:250,000, 1949

Although contours, drainage and other features generalized at the scale of the above reconnaissance survey preclude detailed comparison, one particular difference is to be noted. In the area between the OKOK RIVER and POOWOOLIAK POINT, T-9600 shows no elevations exceeding 250 feet, while on the above listed survey this area shows several contours exceeding 250 feet with the highest elevations indicated by an index contour at 1000 feet.

~~The differences in the~~ Spelling of the geographic names and the addition of many new ones for this island have been approved by the Board of Geographic Names, Decision List No. 5102 of March 1951.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

Chart 9302 1:1,534,076, October 1951

Changes in elevations and geographic names for St. Lawrence Island should be noted for inclusion in any new printings or revisions of this chart.

66. Miscellaneous.-

(a) DATUMS - the original compilations were based on the St. Lawrence Island (Gambell) Astrolabe Datum.

After review and during final drafting these compilations will be transferred to North American 1927 Datum.

(b) CONTOURS - the original compilation instructions for this project required supplementary contours at 25-foot intervals in addition to the regular contours at 50-foot intervals.

After examination of several completed compilations, it was decided to show only such supplementary contours as would give significant information or express certain topographic features not otherwise evident. The first 25-foot contour in from the shoreline, except along steep rocky bluffs where contours tend to merge, is shown throughout the island.

(c) FIELD EDIT and ACCURACY TESTS - since there was no field edit for any of the surveys in this project, there was no opportunity to run accuracy tests usually included in that field operation.

(d) SECURITY INFORMATION - geographic positions of triangulation stations in this area are "CONFIDENTIAL" and Form M-2388-12 listing such information have been removed from this report to permit all other data for T-9599 and T-9600 to carry the lower classification "RESTRICTED".

67. Adequacy of Manuscripts.- Except for the limitations noted in Item 66(c) above, no discrepancies were apparent in the usual field and office operations and procedures and there is sufficient horizontal and vertical control in the area to indicate probable conformance to the National Standards of Map Accuracy.

Reviewed by:

L. Martin Gazik  
L. Martin Gazik

APPROVED

L. C. Landy  
Chief, Review Section  
Div. of Photogrammetry

Max G. R. Kott  
Chief, Div. of Photogrammetry

W. E. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts 6FV

Carl O. Hutton  
Chief, Div. of Coastal Surveys