9569 9571

9571

Diag. Cht. No. 8802.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric)Photogrammetric)

Field No. Ph-40 Office No. T-9569 T-9571

LOCALITY

State Alaska

General locality Port Moller

Locality Entrance Point to Cape Kutuzof

1942-50

CHIEF OF PARTY

J.H.Brittain, Chief of Field Party
E.H.Kirsch, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE June 19, 1958

8-1870-1 (1)

9569

DATA RECORD

T-9569
T-9571

Project No. (II): Ph-40 Quadrangle Name (IV):

Field Office (II): Chief of Party: J.H. Brittain

Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: E.H. Kirsch

Instructions dated (II) (III):
Office: 12-16-52
11-29-54

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

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

Scale Factor (III): 1.000

Date received in Washington Office (IV): MAR 22 1956 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 18 Sept 1957

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III): MHW

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

Reference Station (III): JULIA, 1950

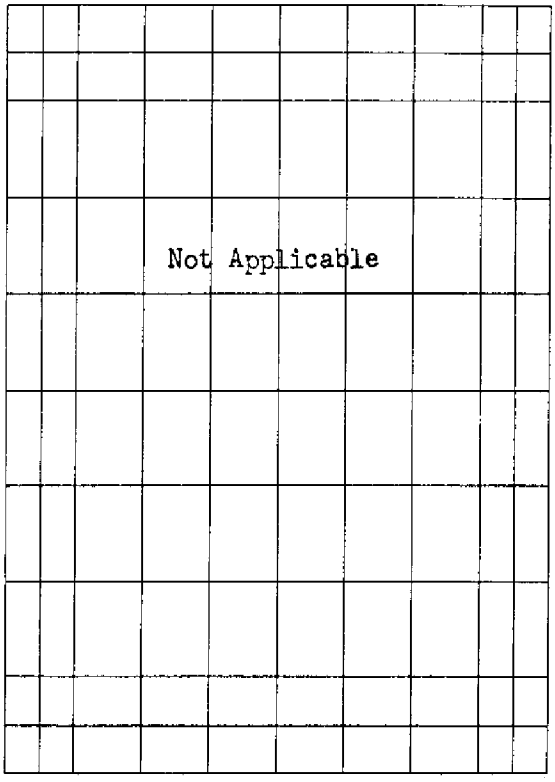
Lat.: 56° 07' 31.847" (985.0m) Long.: 160° 26' 47.835" (826.4m) Adjusted ~~Unadjusted~~

Plane Coordinates (IV): State: Zone: U.T.M.- Zone 4

Y= X=

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)
(II) (III)

DATA RECORD

Field Inspection by (II): I. Zirpel,Jr. Date: June to Sept. 1950

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 1950 field inspection on 1942 photography. Office interpretation on 1954 photographs.

Projection and Grids ruled by (IV): A. Riley Date: 12-6-54

Projection and Grids checked by (IV): A. Riley Date: 12-6-54

Control plotted by (III): John J. Schleupner Date: 12-16-54
Joseph Steinberg 2-1-55

Control checked by (III): Harry R. Rudolph Date: 12-23-54
Leroy A. Senasack 2-16-55

Radial Plot or ~~Stereoscopic~~ Control extension by (III): Leroy A. Senasack Date: 2-23-55

Stereoscopic Instrument compilation (III): Planimetry Date:

Contours Date:

Manuscript delineated by (III): Frank M. Wisiecki Date: 3-14-55

Photogrammetric Office Review by (III): R. Glaser Date: 3-18-55

Elevations on Manuscript checked by (II) (III): Date:

Camera (kind or source) (III): U.S.C.& G.S. nine lens camera
U.S. Navy single lens camera

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
10815 - 10818	9-2-42 ✓	1318 (approx)	1:20,000	6.6 (above MLLW)
14284	6-9-43 ✓	1458	"	6.6 "
45922 - 45926	8-25-54 ✓	1439	"	0.9 "
38473	7-23-52	1723	"	2.1 "
38393 & 38394	7-23-52 ✓	1520	"	2.3 "
0081[illegible]& 0082	6-24-53 ✓	1336	"	-0.8 (below MLLW)

Tide (III)

From predicted tables

Ratio of Ranges	Mean Range	Spring Range
	15.2	19.5
*	7.5	10.6

Reference Station: NUSHAGAK BAY
Subordinate Station: Port Moller (Entrance Point)
Subordinate Station:

Washington Office Review by (IV): Date:

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 6 sq. miles
Shoreline (More than 200 meters to opposite shore) (III): 28 mi.
Shoreline (Less than 200 meters to opposite shore) (III): 8 mi.
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): Recovered: Identified: 5**
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): 1

Remarks:

* Ratio of Ranges at Port Moller:
0.6 high tide
0.9 low tide

** 5 stations established in 1950

PHOTOGRAMMETRIC PLOT REPORT
PROJECT PH-40
SURVEYS T-9569 & T-9571

31. AREA COVERED

This radial plot covers the area of surveys T-9569 and T-9571. These are shoreline surveys along the north shore of the Alaska Peninsula in the area of Bristol Bay from Port Moller northward to Cape Kutuzof.

22. METHOD - RADIAL PLOT

Map Manuscripts:

Vinylite sheets with polyconic projections in black and U.T.M. Alaska Grids in red, at a scale of 1:20,000, were furnished by the Washington Office.

All control stations and substitute points were plotted using the beam compass and meter bar method except for sub. pt. BOAT , 1950 which was plotted graphically.

A sketch showing the layout of surveys, distribution of control and photograph centers, is attached to this report.

Photographs:

Nine (9), nine-lens photographs were used in this radial plot, and are numbered as follows:

45921 thru 45927
38470 and 38471

Templets:

Vinylite templets were made from all photographs using master templets to correct for errors due to film and paper distortion, and chamber displacements.

Closure and adjustment to control:

Vinylite sheets with 2,000 meter grids were used as base sheets. All identified control was transferred to the base sheets by matching common grids. Pass points from a previous plot at the south end were also transferred.

The radial plot was started at the south end and extended northward. It was noted that sub. pt. BOAT, and sub. pt. "A" for BEAUTY and flight lines did not hold. The plot was then rerun from the north, this time holding the azimuth lines. At this point it was noted that there were radial plotted positions for both sub. pts. for station BEAUTY, and that most pass points north of station MOLLER NORTH BASE moved. The radially plotted positions were transferred to the map manuscripts. Both sub. pts. for BEAUTY, 1950 were misidentified in the field.

22. METHOD - RADIAL PLOT (cont'd)

Transfer of Points:

The positions of all photogrammetric points were pricked directly on the map manuscript by superimposing the manuscript on the completed plot and matching common grid lines.

23. ADEQUACY OF CONTROL

The density and distribution of control was adequate for a normal radial plot for shoreline compilation. The shoreline points in this radial plot between stations BEAUTY and JULIA are considered weak because of the proximity of the flight line to the shoreline.

Sub. pts. "A" and "B", BEAUTY, 1950 could not be held. The radially plotted position for sub. pt. "A" falls approximately 1.2mm SSE of the geographic position. The radially plotted position for sub. pt. "B" falls approximately 3.1mm east of the geographic position. The photographs were studied with the aid of a stereoscope and it was noted that sub. pt. "A" could be repricked to hold the geographic position.

24. SUPPLEMENTARY DATA

No supplementary data was used in this radial plot.

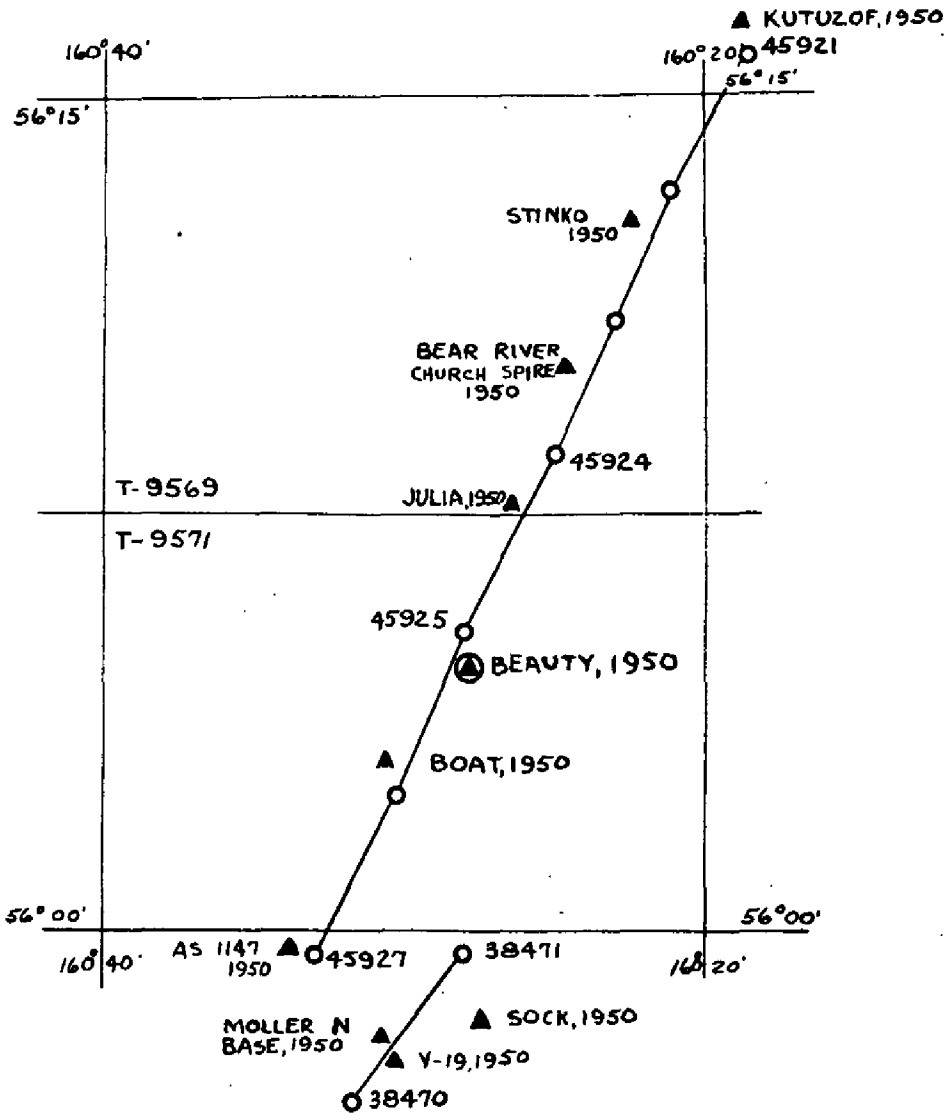
25. PHOTOGRAPHY

The photographic coverage and definition of the photographs were adequate.

Respectfully submitted
23 February 1955

Leroy A. Senasack

Leroy A. Senasack
Carto. Photo. Aid



LAYOUT SKETCH

Surveys T-9569 & T-9571

Project PH-40

o Nine lens photographs

▲ Control stations (Identified)

Ⓐ Control stations (Not held in plot)

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-9569 PROJECT NO. Ph-40 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET: OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LIN IN METERS FORWARD (BACK)
JANIE, 1950	G-10049 Pg. 287	N.A. 1927	56 19 30.593	N of survey		946.2 (909.6)	
			160 15 27.226			467.9 (563.3)	
STINKO, 1950	"	"	56 12 28.453			880.1 (975.7)	
			160 24 16.445			283.5 (750.8)	
Sub Pt. STINKO, 1950	comp.	"	56 12			1042.9 (812.9)	
			160 24			93.8 (940.5)	
BEAR RIVER CHURCH SPIRE, 1950	G-10049 Pg. 290	"	56 10 10.074			311.6 (1544.2)	
			160 25 42.910			740.5 (294.9)	
JULIA, 1950	G-10049 Pg. 281	"	56 07 31.847			985.0 (870.7)	
			160 26 47.835			826.4 (210.2)	
Sub Pt. "A" JULIA, 1950	comp.	"	56 07			1059.8 (795.9)	
			160 26			786.6 (250.0)	
Sub Pt. "B" JULIA, 1950	comp.	"	56 07			1056.5 (799.2)	
			160 26			808.8 (227.8)	

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 12-16-54 CHECKED BY: H.R. Rudolph DATE 12-22-54

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 9571 PROJECT NO. Ph-40 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
BOAT, 1950	G-10049 Pg. 290	N.A. 1927	56 02 28.484			881.0 (974.7)	
			160 31 20.496			354.9 (684.0)	
Sub Pt. BOAT, 1950				Plotted Graphically			
				" "			
BEAUTY, 1950	G-10049 Pg. 281	"	56 04 02.836			87.7 (1768.0)	
			160 28 34.045			589.0 (449.1)	
Sub Pt. "A" BEAUTY , 1950	COMP.	"	56 04			33.6 (1822.1)	
			160 28			355.6 (682.5)	
Sub Pt. "B" BEAUTY, 1950	comp.	"	56 04			497.6 (1358.1)	
			160 28			740.6 (297.5)	

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 12-16-54 CHECKED BY: H.R. Rudolph DATE 12-23-54

COMM-DC-57843

COMPILATION REPORT
PROJECT PH-40
T-9569 & T-9571

A 1953 Descriptive Report is available for delineation in the vicinity of Port Moller done previously to 1955.

For the field report, refer to Project Report, Aerial Photograph Control and Inspection, North Shore, Alaska Peninsula; Project Ph-40(49) June-September 1950.

31. DELINEATION

Graphic methods were used to delineate these manuscripts.

The 1955 work comprises all delineation southwest from Sandy River on T-9569 and the entire sheet of T-9571.

32. CONTROL

Refer to the radial plot report item No. 23 regarding the adequacy of control.

To strengthen the positions of detail points on the shoreline between BEAUTY and JULIA, photograph 38473 was used to get additional cuts. The two control stations and several pass points were transferred to this photo and the approximate position of the photo center established by holding these points. The center was shown by a dashed circle.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable
Drainage: No comment

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate. The MHW line was delineated from the 1954 photos applying the information from the 1950 field inspection on the 9 lens photographs dated 1942-49.

The peninsulas around the mouths of Bear River (T-9569), Franks Lagoon and King Salmon River(T-9571) were sketched on the 9 lens photographs by the field party. Using the sketch of the MHW line as a guide, the MHW line of the newly formed peninsulas as seen on the 1954 photographs was delineated.

No field inspection of low water line was made by the field party. An office interpretation of the approximate low water line was made from the most recent photographs having the lowest computed tides.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Form 567 is being submitted for two landmarks recommended by the field party within the area delineated.

38. CONTROL FOR FUTURE SURVEYS

The list of recoverable topographic stations and hydrographic stations within the area delineated is included in paragraph 49.
Form 524 is submitted for azimuth mark BEAUTY, 1950.

39. JUNCTIONS

Junction between the manuscripts within the area delineated are in agreement. The project layout shows surveys Nos. T-9572 and T-9570 to the east and T-9567 northeast of T-9569 and T-9571. No manuscripts were prepared for these surveys because they fall outside the area required by the present compilation instructions.

40. HORIZONTAL AND VERTICAL ACCURACY

See photogrammetric plot report.

41.-45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

None available.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8833 scale 1:79,798 published Feb. 1917 and corrected to 6-11-54.

Items to be applied to Nautical Charts immediately:
None

Items to be carried forward:
None

Respectfully submitted
15 March 1955

Frank M. Wisiecki
Frank M. Wisiecki
Carto. Photo. Aid

Approved and Forwarded

E.H. Kirsch.
E.H. Kirsch, Comdr. U.S.C. & G.S.
Officer in Charge
Baltimore Photo. Office

T-9569 & T-9571

48. GEOGRAPHIC NAME LIST

T-9569

Alaska Peninsula
Bear River
Bear River Village
Bristol Bay
Sandy River

T-9571

Alaska Peninsula
Bristol Bay
Franks Lagoon
Franks Lagoon Creek
King Salmon River

Names approved
5-20-57
L. Heck

49. NOTES FOR THE HYDROGRAPHER

One photo-hydro station was established:
T-9571: 215 - NE gable of main building of sod covered cabin.

One recoverable topographic station was established:
T-9571: BEAUTY AZ MK, 1950

21 March 1955

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-9569 & T-9571

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

4a. Classification label ✓

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

(Nautical Chart Data)

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. ~~Planetable 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. ~~Discrepancy overlay~~ _____ 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. R. Ilsen
Reviewer

_____
Supervisor, 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:

M-2623-12

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ } STRIKE OUT ONE

Baltimore, Maryland March 2, 1955

I recommend that the following objects which ~~are~~ *(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 R. Glaser

E.H. Kirsch
E.H. Kirsch *Chief of Party.*

STATE Alaska

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CABIN	N.E. Gable of main building of sod covered cabin	Hydro 215	56 05	37.44 1158	160 28	10.99 190	N.A. 1927	Rad plot T-9571	1950			X	8802
SPIRE	Cupola on church in Bear River Village(Triang. BEAR RIVER CHURCH SPIRE, 1950)	SPIRE	56 10	10.074 311.6	160 25	42.910 740.5	"	Triang. T-9569	1950			X	8802

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 individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

M-2836-3

Review Report of Planimetric Maps

T-9569 and T-9571

July 1957

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

CHIGNIK, ALASKA 1:250 000 1951 USGS

Agreement is as good as scale difference permits.

64. Comparison with Contemporary Hydrographic Surveys:

There are no contemporary hydrographic surveys of this area.

65. Comparison with Nautical Charts:

8802	1:1023 188	1956	(7-9)
9302	1:1534 076	1956	(12-24)

Scale differences with above-listed charts do not permit an effective comparison.

66. Adequacy of Results and Future Surveys:

Control and field inspection appear adequate and no inaccuracies are indicated.

Reviewed by:

Josef J. Streifler

APPROVED:

L C Lande

Chief, Review and Drafting Section
Photogrammetry Division

Chief, Nautical Chart Branch

Chief, Photogrammetry Division

Chief, Coastal Surveys

1956

Summary

to accompany Planimetric Maps

T-9569 and T-9571

These two surveys are in the vicinity of BEAR RIVER (north of Port Moller), Bristol Bay, Alaska Peninsula, Alaska. Photography of Sept. 1942 and June 1943 was used during field inspection in the season of 1950. Compilation of manuscripts was done from photography of July 1952, June 1953 and Aug. 1954. Shoreline changes having occured during this interval could be recognized and interpreted readily.

T-9569 and T-9571 are the only two sheets of the planimetric maps of this project to be submitted to the Washington Office from Portland as inked manuscripts. All other planimetric compilations were done in pencil and scribed by the Portland Photogrammetric Office. Consequently these two surveys will be scribed in the Washington Office for uniformity. A final "Cronar" film positive along with the descriptive report will be filed in the Bureau Archives.