9544 9545
9546 9547
9548 9549

Diag. Cht. NO. 8502-3.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey ~~Shoreline~~ Planimetric (Photogrammetric)

Field No. 6040 Office No. T-9544 thru T-9549

LOCALITY

State Alaska

General locality Bristol Bay, North Shore Alaska Peninsula

Locality From Cinder River

— to Cape Menshikof

1949

CHIEF OF PARTY

A. N. Stewart, Chief of Party

Fred Natella, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE MAY 15 1958

COMM-DC 61300

DESCRIPTIVE REPORT - DATA RECORD

T - 9544 thru T-9549

Project No. (II): 6040

Quadrangle Name (IV):

Field Office (II): Meshik, Alaska

Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Fred Natella

Instructions dated (II) (III): Nov. 29, 1954) Office
Sept. 14, 1955)

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): None

Date received in Washington Office (IV): AUG 15 1956

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 22 Oct 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.L.L.W.

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): See reverse side

Lat.:

Long.:

Adjusted
Unadjusted

Plane Coordinates (IV):

State:

Zone:

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.

T-9544 CINDER, 1949

Lat.	57°	23'	26.933"	(833.2m)
Long.	158°	00'	48.818"	(815.5m)

T-9545 BERT, 1949

Lat.	57°	28'	00.355"	(11.0m)
Long.	157°	51'	13.322"	(222.1m)

T-9546 DENNIS, 1949

Lat.	57°	24'	16.039"	(496.2m)
Long.	157°	27'	34.867"	(582.2m)

T-9547 (Same As T-9548)

T-9548 ROOST, 1949

Lat.	57°	18'	00.229"	(7.1m)
Long.	158°	15'	07.200"	(120.6m)

T-9549 JOHN, 1949

Lat.	57°	19'	08.835"	(273.3m)
Long.	157°	53'	44.476"	(744.4m)

FORM 181a
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): I. Zirple, R. B. Melby, B. Kurs — Date: Season 1949

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): In stable areas from field locations in 1949 and shown on 1943 nine lens photographs. In unstable areas from office interpretation from 1955 nine lens photographs.

Projection and Grids ruled by (IV): — Date:

Projection and Grids checked by (IV): — Date:

Control plotted by (III): D. N. Williams and J. L. Harris — Date: 4/23/56

Control checked by (III): J. L. Harris and J. E. Deal — Date: 4/27/56

Radial Plot or Stereoscopic Control extension by (III): J. L. Harris and J. E. Deal — Date: 5/3/56

Stereoscopic Instrument compilation (III): Planimetry — Date:

Contours — Date:

Manuscript delineated by (III): See reverse side — Date:

Photogrammetric Office Review by (III): J. E. Deal (all sheets) — Date: 7/1 thru 8/15/56

Elevations on Manuscript checked by (II) (III): C. C. Harris (all sheets) — Date: 7/9 thru 8/15/56

	Pencil Compilation	Date	Scribed	Date	Stick-up	Date
T-9544	L. L. Graves	5/29/56	C. C. Harris	7/11/56	C. C. Harris	7/31/56
T-9545	L. L. Graves	6/6/56	J. L. Harris	7/11/56	C. C. Harris	7/27/56
T-9546	J. L. Harris	6/8/56	J. L. Harris	7/6/56	C. C. Harris	7/18/56
T-9547	D. N. Williams	4/19/56	D. N. Williams	4/20/56	C. C. Harris	8/2/56
T-9548	L. L. Graves	5/28/56	C. C. Harris	7/10/56	C. C. Harris	8/13/56
T-9549	J. L. Harris	5/31/56	C. C. Harris	7/5/56	C. C. Harris	8/16/56

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): U.S.C.& G.S. 9 lens - focal length 8.25 inches

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
37367 thru 37369	6/9/52	15:55	1:20,000	0.4 ft. Above M.L.L.W.
51046 thru 51054	6/18/55	15:58	1:20,000	-3.4 ft. Below M.L.L.W.
51138 thru 51145	6/18/55	17:49	1:20,000	1.2 ft. Above M.L.L.W.

Note: The stages of tide are computed for Lat. 57 22' by proportioning the height and time differences between Pt. Moller and Egegik River Ent.

Tide (III)

Reference Station: Nushagak Bay
Subordinate Station: Port Moller
Subordinate Station: Egegik River Ent.
} Proportioned 60%

Ratio of Ranges	Mean Range	Diurnal Range
	15.3	19.5
0.92	13.8	18.2
0.55h	7.5	10.6
0.85L		

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): 364
Shoreline (More than 200 meters to opposite shore) (III): 104 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 48 " "
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 14 Recovered: 14 Identified: 14
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): 7 *
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
* All were located at compilation office as azimuth marks. One additional identification of an azimuth mark was beyond limits of office photography.

FIELD INSPECTION REPORT

Map Manuscripts T-9544 thru T-9549

Project 6040

Refer to Project Report, Aerial Photograph Control and Inspection, Alaska Peninsula, Alaska, Project Ph-40(49), July - Sept. 1949, A. Newton Stewart, Chief of Party.

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscripts T-9544 thru T-9549

Radial Plot "D"

Project 6040

21. Area Covered:

This radial plot covers an area approximately seven miles in width along the north shore of the Alaska Peninsula, or otherwise the southeast shore of Bristol Bay, from Cinder River to Cape Menshikof. It comprises Map Manuscripts No'd. T-9544 thru T-9549,

22. Method:

The methods described in the Photogrammetric Plot Report for T-9561, T-9562, T-9564, T-9565, T-9567 and T-9570 which is included in the combined Descriptive Report for T-9561 and T-9562, Project 6040 are applicable to the radial plot for T-9544 thru T-9549 except as follows:

The photography consists of two flights of nine lens photographs taken in 1955 of which one flight is located along the shoreline of Bristol Bay and the other flight is located about four miles interior to the shoreline of Bristol Bay. A third flight of nine lens photographs taken in 1952 and located about ten miles interior from the shoreline of Bristol Bay supplemented the 1955 photography. The locations of photograph flights are shown on the included sketch. Some difficulty was encountered when transferring sub points identified on 1943 photography to the 1952 and 1955 photography.

Except as stated in Item 23 of this report all horizontal control stations were held within the allowable tolerance and the resulting intersections for photogrammetric points were very good.

23. Adequacy of Control:

The identification of horizontal control stations was adequate. Stations which could not be held in the plot were as follows:

In T-9545 the sub points for station IRA, 1949 could not be identified on the 1955 photography. A direct pricking from hand held camera photography was very uncertain and could not be held.

The identified sub points for station V-151 were doubtful and since the station was not needed to control the plot the identifi-

cation was not used. The position of V-151 was computed at the Compilation Office and computation forms are being forwarded with this report.

In T-9546 station DENNIS, 1949 was beyond the limits of office photography. Also, because no control station was available at the eastern detail limits of the Ugashik River the orientation of photographs No'd. 37368 thru 37370 in this area, from which points were located, were subject to swing east of their flight line.

24. Supplemental Data:

None.

25. Photography:

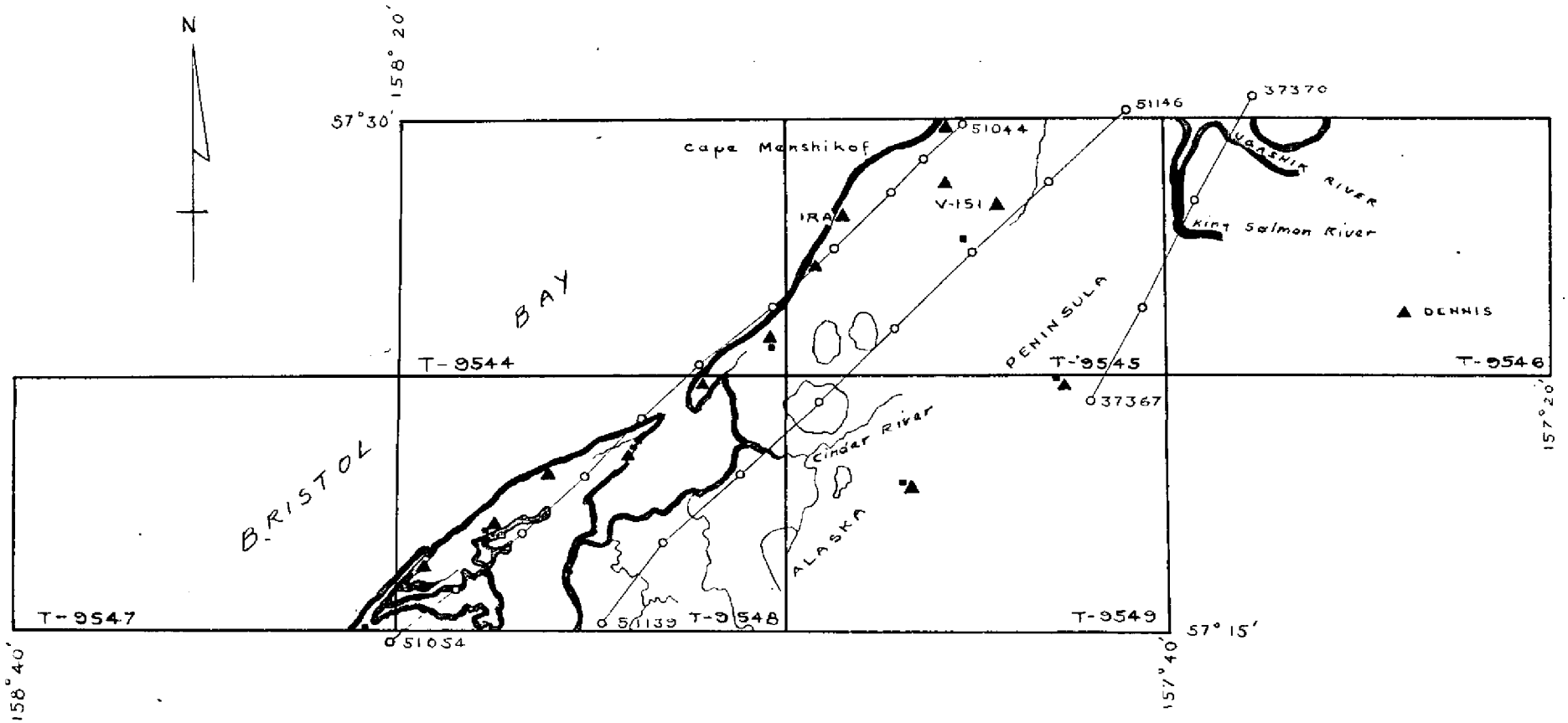
The photography was adequate.

Approved:

Fred Natella
Comdr., C&G Survey
Officer-in-Charge

Respectfully submitted:

J. Edward Deal
Cartographer
C&G Survey



LEGEND

▲ IDENTIFIED HORIZONTAL CONTROL STATION
▲ (NAME) HOR. CONTROL STA. MENTIONED IN DESC. REPORT
■ RECOVERABLE TOPOGRAPHIC STA. (LOCATED GRAPHICALLY)

SKETCH SHOWING
AREA OF PHOTOGRAMMETRIC PLOT "D"
PROJECT 6040
SCALE, 1:328,000 (Approx.)

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-9544 PROJECT NO. 6040 SCALE OF MAP 1:20,000 SCALE FACTOR None

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)
CINDER, 1949	G.9236 IV P.186	N.A.	57 23 26.933				833.2	(1023.0)		
		1927	158 00 48.818				815.5	(186.8)		

1 FT. = .3048006 METER

COMPUTED BY J.L.H. DATE 1/25/56 CHECKED BY L.F.V. DATE 1/25/56

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-9545 PROJECT NO. 6040 SCALE OF MAP 1:20,000 SCALE FACTOR None

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)
BERT, 1949	G.9236	N.A.	57 28 00.355				11.0	(1845.2)		
	P.186	1927	157 51 13.322				222.1	(778.1)		
IRA, 1949	DO	"	57 28 05.356				165.7	(1690.5)		
	P.192		157 56 02.664				44.4	(955.7)		
KIMY, 1949	DO	"	57 25 41.889				1295.9	(560.3)		
	P.192		157 58 15.383				256.7	(744.6)		
V-151	Office	"	57 27 26.834				830.1	(1026.0)		
	Comp.		157 48 43.608				727.1	(273.3)		
PETE, 1949	DO	"	57 29 54.000				1670.5	(185.6)		
	P.192		157 51 41.43				690.1	(309.3)		

1 FT. = .3048006 METER

COMPUTED BY: J.L.H. DATE 1/25/56 CHECKED BY: L.F.V. DATE 1/25/56

COMM-DC-57843

12.

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-9546 PROJECT NO. 6040 SCALE OF MAP 1:20,000 SCALE FACTOR None

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)
DENNIS, 1949	G.9236 IV P.186	N.A.	57 24 16.039				496.2	(1360.0)		
		1927	157 27 34.867				582.2	(419.7)		

13.

1 FT.=.3048006 METER

COMPUTED BY: J.L.H. DATE 1/25/56 CHECKED BY: L.F.V. DATE 1/25/56

COMM-DC-57043

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 9547 PROJECT NO. 6040 SCALE OF MAP 1:20,000 SCALE FACTOR None

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)
NONE										

14.

1 FT. = .3048006 METER

COMPUTED BY: DATE CHECKED BY: DATE

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-9548 PROJECT NO. 6040 SCALE OF MAP 1:20,000 SCALE FACTOR None

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)
YOKE, 1949	G.9236	N.A.	57	16	49.690				1537.2	(318.9)		
	P.193	1927	158	18	49.763				833.8	(171.5)		
ROOST, 1949	"	"	57	18	00.229				7.1	(1849.0)		
	P.190		158	15	07.200				120.6	(884.1)		
TUGG, 1949	"	"	57	19	29.668				917.8	(938.3)		
	P.192		158	12	23.932				400.5	(603.6)		
RIO, 1949	"	"	57	22	11.102				343.4	(1512.7)		
	"		158	04	28.148				470.5	(532.3)		
EDITH, 1949	"	"	57	20	03.331				103.0	(1753.1)		
	P.187		158	07	53.336				892.3	(111.5)		

15.

1 FT. = .3048006 METER

COMPUTED BY: J.E.D. DATE 11/7/55 CHECKED BY: D.N.W. DATE 11/7/55

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-9549 PROJECT NO. 6040 SCALE OF MAP 1:20,000 SCALE FACTOR None

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)
JOHN, 1949	G-9236	N.A.	57	19	08.835				273.3	(1582.8)		
	P.187	1927	157	53	44.476				744.4	(259.8)		
MILLY, 1949	"	"	57	22	12.283				380.0	(1476.2)		
	P.186		157	45	23.534				393.3	(609.5)		

16.

1 FT. = .3048006 METER

COMPUTED BY: J.E.D. DATE 11/7/55 CHECKED BY: D.N.W. DATE 11/7/55

COMM-DC-57843

COMPILATION REPORT

Map Manuscripts T-9544 thru T-9549

Project 6040

31. Delineation:

Remarks under this heading in the combined Descriptive Report for map manuscripts T-9561 and T-9562, Project 6040 are also applicable to the six manuscripts covered by this report.

32. Control:

Refer to Item 23 "Adequacy of Control" in the Photogrammetric Plot Report which is included in this Descriptive Report.

There were sufficient pass points located during the radial plot to control the orientation of photographs at the compilation table when locating minor pass points.

33. Supplemental Data:

None

34. Contours and Drainage:

Contours are not applicable. Drainage was delineated by office examination of the photographs.

35. Shoreline and Alongshore Details:

There are many places within the limits of these five manuscripts where extreme changes continually occur in the shape of the shoreline. Where this occurs the remarks contained under this heading in the combined Descriptive Report for T-9564 and T-9565 are applicable.

Approximate low-water lines have been delineated.

36. Offshore Details:

There are no offshore details.

37. Landmarks and Aids:

In T-9545, it is recommended that Cape Menshikof (Top of bluff, elevation) be charted as a landmark. From stereoscipic examination of the photographs it appears that the highest point is located at triangulation station IRA, 1949 and this location has been listed

on the Form 567. To correctly show the ridge extending interior, as recommended by the field unit, whould entail an intricate detailing of hachures which are not called for in the instructions for this project. Notes indicating the area have been entered on the manuscript and the elevations of all stations on the ridge are shown.

38. Control for Future Surveys:

No Forms 524 for Recoverable Topographic Stations were submitted by the field party. On the index map of this project in T-9548 station TUGG, 1949 is shown as a topographic station. Its position is shown in the geographic position lists of the area and it has been shown on the manuscript as a triangulation station. Seven Forms 524 for azimuth marks located at the Compilation Office are submitted and are listed in notes to the hydrographer.

No photo-hydro stations were recommended or located.

39. Junctions:

Satisfactory junctions have been made with all adjoining map manuscripts.

40. Horizontal and Vertical Accuracy:

Because of the lack of a horizontal control station in T-9546, in the Ugashik River area, the east half of the photographs were subject to swing and this area could be of subnormal accuracy. Elsewhere, the manuscripts are of normal horizontal accuracy.

Vertical accuracy is not applicable.

41. Vertical Control Stations:

Computations of zenith distances, submitted by the field unit, were made for V-151, V-1019a, V-1019b, V-1020a, V-1020b, V-1021a and V-1021b. All are located in T-9545. A check elevation of 357 ft. was obtained for V-151 and an elevation of 37 ft. which appears satisfactory was obtained for V-1020a and V-1020b. The elevations at V-1019a and b computed to be minus 8 ft. and from stereoscopic examination the water level appears above M.L.L.W. Different values were obtained for a and b at V-1021 and these were rejected. Vertical control station computations will be submitted for the entire project.

Items 46 and 47:

Refer to the combined Descriptive Report for T-9561 and T-9562.

Approved:

Fred Natella
Comdr., C&G Survey
Officer-in-Charge

Respectfully submitted:

J. Edward Deal
Cartographer
C&G Survey

48. Geographic Names:

Geographic names appearing on these six map manuscripts are as follows:

T-9544

Alaska Peninsula
Bristol Bay

T-9545

Alaska Peninsula
Bristol Bay
* Cape Menshikof

T-9546

Alaska Peninsula
King Salmon River
Ugashik River

T-9547

Alaska Peninsula
Bristol Bay

T-9548

Alaska Peninsula
Bristol Bay
Cinder River

T-9549

Alaska Peninsula Cinder River
Bristol Bay

* The location of Cape Menshikof is described in the Field Inspection Report in two places. The location shown on the Final Names Sheet appears to be in error with this description and also locates the cape on a low marshy neck of land. The name has been moved about 4 minutes s outh and out of T-9542 into T-9545. The area where the name has now been placed was also recommended as a landmark.

Names approved
5-20-57
L. Heck

49. Notes to the Hydrographer:

Recoverable topographic stations located are as follows:

In T-9544	CINDER AZIMUTH MARK, 1949
In T-9545	BERT AZIMUTH MARK, 1949
In T-9547	SHERRY AZIMUTH MARK, 1949
In T-9548	EDITH AZIMUTH MARK, 1949
	ROOST AZIMUTH AMRK, 1949
In T-9549	JOHN AZIMUTH MARK, 1949
	MILLY AZIMUTH MARK, 1949

Review Report of Planimetric Maps

T-9544 thru T-9549

July 1957

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

BRISTOL BAY, ALASKA	1:250 000	1951	USGS
UGASHIK, ALASKA	1:250 000	1948	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:

8502	1:969 761	1956	(8-13)
8802	1:1023 188	1956	(7-9)
9302	1:1534 076	1956	(12-24)

The considerable differences in scale do not permit an effective comparison

66. Adequacy of Results and Future Surveys:

Control and field inspection of these surveys appear adequate and no inaccuracies are indicated.

Reviewed by:

Josef J. Streifler

APPROVED:

L C Lande

Chief, Review and Drafting Sec.
Photogrammetry Division

Max B Ricketts

Chief, Nautical Chart Branch

J. Bruce

at Chief, Photogrammetry Division

Chief, Coastal Surveys

Summary

to accompany Planimetric Maps:

T-9544 thru T-9549

See index on page 10 of this report for position of subject manuscripts (6).

Field inspection was accomplished during the season of 1949 on photography of June 1943. Manuscripts were compiled from photography of June 1952 and June-July 1955. Frequent and extreme changes along the Bristol Bay shoreline made field inspection notes on earlier photography for that portion of little value.

This group of six planimetric maps was scribed in the Portland Office from pencil compilations. Limited additions and changes were applied directly to the submitted film positives by the reviewer. Contact film negatives and acceptable "Cronar" film positives will be obtained to be filed with the descriptive report in the Bureau Archives.