Diag. Cht. Nos. 8802 & 8502-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)

Field No. 6040 Office No. T-9555 thru

LOCALITY

State Alaska

General locality Bristol Bay, North Shore
Alaska Peninsula. Locality Ilnik to Port Heiden

1949-55

CHIEF OF PARTY A.N.Stewart, Chief of Field Party F.Natella, Portland Photo. Office

LIBRARY & ARCHIVES

DATE June 5, 1958

B-1870-1 (I)

T- 9555 thru T-9559

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 JUN 25 1956 Date reported to Nautical Chart Branch (IV): 12 156 Date received in Washington Office (IV) Applied to Chart No. Date: Publication date (IV): Publication Scale (IV): Vertical Datum (III) Geographic Datum (III): N.A. 1927 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.: Adjusted Long.: Unadjusted Plane Coordinates (IV): State: Zone; 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.

2.62

T-9555 LILAC, 1949

Lat. 56° 48' 40.753" (1260.6m) Long. 159° 01' 27.863" (472.7m)

T-9556 STRONG, 1949

Lat. 56° 52° 17.619" (545.0m) Long. 158° 54° 07.669" (129.9m)

T-9557 RAKE, 1949

Lat. 56° 46° 51.335" (1587.9m) Unadjusted Long. 158° 37° 16.817" (285.6m)

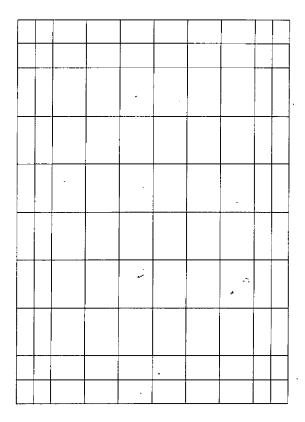
T-9558 CHIEF, 1949

Lat. 56° 38' 45.131" (1396.0m) Long. 159° 23' 17.049" (290.5m)

T-9559 NEGRO, 1949

Lat. 56° 44° 58.803" (1818.9m) Long. 159° 11' 20.647" (350.9m)

3.



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

Form T- Page 2

M·2618-12 ('4)

3

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 hine lens photographs.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): J. L. Harris

Date: 11/16/55

Control checked by (III): J. E. Deal

Date: 11/29/55

Radial Plot or Stereoscopic J. L. Harris & J. E. Deal

Date: 1/9/56

Control extension by (III):

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): See reverse side

Date:

Photogrammetric Office Review by (III): J. E. Deal (all sheets)

Date: 4/2 thru 4/16/1956

Elevations on Manuscript J. E. Deal

Date: 4/13/56

checked by (II) (III):

. . . .

Date 3/27/56 4/12/56 3/26/56 2/27/56 4/12/56	
Stick-up D. N. Williams C. C. Harris D. N. Williams C. C. Harris D. N. Williams	
Date 3/5/56 3/28/56 3/15/56 1/25/56 2/27/56	
Scribed D. N. Williams C. C. Harris D. N. Williams C. H. Bishop D. N. Williams	
Date 1/26/56 3/20/56 2/9/56 1/23/56 1/26/56	
Pencil Compilation J. C. Lajoye C. C. Harris C. H. Bishop C. H. Bishop L. L. Graves	
1-9555 T-9555 T-9558 T-9558	

PHOTOGRAPHS (III) Number Date Time Scale Stage of Tide 51098 thru 51131 6/18/55 17:00 1:20,000 1.0 ft. above M.L.L.W. 8/14/52 38715 10:20 1:20,000 1.2 ft. above M.L.D.W. 38724 thru 38728 8/14/52 10:30 1.2 ft. above M.L.L.W. 1:20,000 38812 thru 38820 8/14/52 1.0 ft. below M.L.L.W. 13:17 1:20,000

Note: The stages of tide are computed for Lat. 560°45° by proportioning the height and time differences between Pt. Moller and Egegik River Ent.

Tide (III)	Diurnal
Reference Station: Nushagak Bay Subordinate Station: Port Moller Subordinate Station: Egegik River Ent.) Prop	portioned	Ratio of Range Ran
Final Drafting by (IV):		Date:
Drafting verified for reproduction by (IV):		Date: . ·
Proof Edit by (IV):		Date: .
Land Area (Sq. Statute Miles) (III): 267 Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III): Control Leveling - Miles (II): Number of Triangulation Stations searched for (II): 10 Number of BMs searched for (II): none Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III)	96.8 70.9 Recovered: 10 Recovered: 14 *	Identified: 10

Remarks:

- * 10 Forms 524 were submitted by field Party
 - 1 of these is now probably destroyed
 - 1 of these was located by theodolite fix
 - 4 additional Forms 524 were submitted by compilation office for Azimuth Marks.

FIELD INSPECTION REPORT

Map Manuscripts T-9555 thru T-9559

Project 6040

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

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscripts T-9555 thru T-9559

Radial Plot "B" 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 Ilnik to Port Heiden. Also included is the south shore of Port Heiden from Bristol Bay to Meshik River and the east shore of Port Heiden from Meshik Village to Meshik River. It comprises map manuscripts No'd. T-9555 through T-9559.

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 Descriptive Report for T-9561 and T-9562 Project 6040 are applicable to this radial plot except as follows:

Along the Bristol Bay shoreline the photography consists of one flight of nine lens photographs made in June 1955 and flown parallel to the shoreline. These are supplemented by two nine lens photographs made in June 1955 whose principal points are located farther offshore and also by one flight of nine lens photographs made in August 1952 and also flown parallel to the shoreline but about three miles inshore. Along the south shore of Port Heiden there is one flight of nine lens photographs made in June 1955 and flown parallel to the shoreline. These are supplemented by a flight of nine lens photographs made in August 1952 and also flown parallel to the shoreline but about three miles inshore. Along the east shore of Port Heiden is one flight of nine lens photographs made in August 1952 and flown parallel to the shoreline and about one mile inshore. Also a flight of nine lens photographs made in June 1955 and flown about one mile farther inshore than the 1952 nine lens photographs. Photograph difficulties described for the previous radial plot "A" are the same for this radial plot "B".

All horizontal control stations were held within the allowable tolerance and the resulting intersections of radials for photogrammetric points were very good but the accuracy of much of the area is based on remarks contained in Item 23 of this report.

Adequacy of Control:

The horizontal control stations available and identified along the Bristol Bay shoreline were adequate. The horizontal accuracy of pass points located in the mud flat areas of Port Heiden; in the south area of T-9556 and also in the west area of T-9557 depends entirely on the location of RAKE, 1949 which was determined by a three point theodolite fix. This condition is more specifically described when it is stated that the accuracy of the entire extension made in this radial plot from the Bristol Bay shoreline southeasterly into T-9557 is based on station RAKE, 1949 which we consider to be of less than 3rd order accuracy. Computations of the position of this station, which were made at this office, are submitted with this report There was no office photograph coverage for stations V-11, 1949, TEXAS, 1949, PEAK, 282, 1949 and WITCH 1949.

Remarks made under this heading in the photogrammetric plot report for radial plot "A" relative to certain recoverable topographic stations located from observations made in the field are also applicable for several stations in radial plot "B".

Supplemental Data:

None

25. Photography:

Refer to remarks in Item "22", Methods.

Approved:

Fred Natella Comdr., C&G Survey

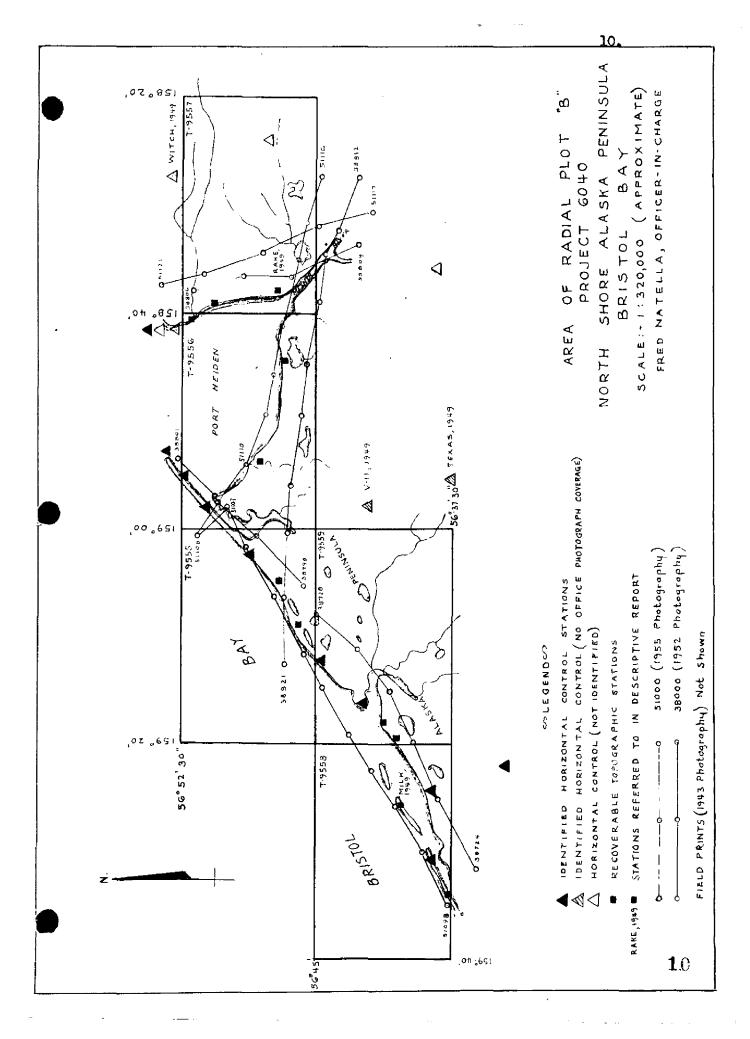
Officer-in-Charge

Respectfully submitted:

J. Edward Deal

Cartographer

* neither the field observations now the computations can be fund in any of the files of Phulipsametry or guesting of this time - 11/14/57 or guesting of this time - 11/14/57



FORM **164** (4-23-54)

MAP T.9555

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

PROJECT NO. 6040

ONTROL RECORD

COAST AND GEODETIC SURVEY

SCALE FACTOR None

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) 11. FORWARD DATE 9/21/55 N.A. 1927 - DATUM

DISTANCE

FROM GEID OR PROJECTION LINE
IN METERS 1260,6 (595.4) (545,3) (BACK) FORWARD 472.8 DATUM SCALE OF MAP 1:20,000 CHECKED BY. C.C.H. OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, (BACK) FORWARD LONGITUDE OR x. COORDINATE LATITUDE OR W-COORDINATE 40.753 27,863 DATE 9/19/55 87 디 26 159 DATUM N.A. 1927 SOURCE OF INFORMATION (INDEX) G-9236 P. 188 COMPUTED BY. D.N.W. 1 FT. = .3048006 METER STATION LILAC, 1949 11

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

N.A. 1927 - DATUM
DISTANCE
FROM GRID OR PROJECTION LINE
IN METERS
IN METERS COMM- DC - 57843 (BACK) 14 None FORWARD 9/21/55 SCALE FACTOR (311.5)348.2) (1310.9)886.5) (BACK) DATE FORWARD 1544.5 6.899 545.0 129.9 DATUM SCALE OF MAP 1,20,000 CHECKED BY C.C. C. C. H. OR PROJECTION LINE IN MÉTERS DISTANCE FROM GRID IN FEET, (BACK) FORWARD LONGITUDE OR x COORDINATE LATITUDE OR V.COORDINATE 17,619 07,669 39.46 19.93 9/19/55 MAP T-9556 PROJECT NO. 6040 2 57 52 54 2 158 56 158 DATE DATUM 1927 N.A. N.A. 1927 SOURCE OF INFORMATION (INDEX) G-9236 P. 193 G-9236 P. 188 ! FT.=.3048006 METER STATION STRONG, 1949 MIME, 1949 12



U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

FORM **164** (4.23.54)

COAST AND GEODETIC SURVEY
ONTROL RECORD

FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) None FORWARD 9/21/55 SCALE FACTOR (1.964) 710.7) 268.0) 733,3) (BACK) N.A. 1927 - DATUM DATE FORWARD 285.6 1419.9 308.2 1587.9 DATUM SCALE OF MAP 1:20,000 C.C.H. OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, (BACK) CHECKED BY:... FORWARD LONGITUDE OR x. COORDINATE LATITUDE OR # . COORDINATE 18,151 15.903 51,335 16.817 MAP T. 9557 PROJECT NO. 6040 9/19/55 97 56 91 37 56 158 56 158 DATE DATUM 1927 N.A. N.A. 1927 SOURCE OF INFORMATION (INDEX) Office G-9236 P. 193 Comp. COMPUTED BY. D.N.W. PEAK No. 282, 1949 RAKE, 1949 (topo) 1 FT.=.3048006 METER STATION 13

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY ONTROL RECORD

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) 14 SCALE FACTOR None FORWARD 9/21/55 N.A. 1927 - DATUM DISTANCE FROM GELD OR PROJECTION LINE IN METERS 831.5) 732.0) (459.9) 626,8) (BACK) FORWARD 290,5 395,8 1396,0 1024.4 DATUM SCALE OF MAP 1:20,000 CHECKED BY C.C.H. DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS (BACK) FORWARD LONGITUDE OR x.COORDINATE LATITUDE OR y.COORDINATE 17,049 33,118 23.222 45-131 MAP T. 9558 PROJECT NO. 6040 DATE 9/19/55 38 38 n 23 56 159 26 159 DATUM 1927 1927 N.A. N.A. SOURCE OF INFORMATION (INDEX) P. 189 6-9236 6-9236 P. 191 COMPUTED BY: D.N.W. 1 FT. = .3048006 METER STATION CHIEF, 1949 SNIPE, 1949 14

DATE...



DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

ONTROL RECORD

COAST AND GEODETIC SURVEY

COMM- DC-57843 FROM GAID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS SCALE FACTOR None. (BACK) FORWARD 9/21/55 37.0) (8,899) (1308.3)(706,2) (BACK) N.A. 1927 - DATUM DATE FORWARD 350.9 547.6 614.7 1818,9 DATUM SCALE OF MAP 1:20,000 CHECKED BY: . C.C.H. OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD LATITUDE OR "COORDINATE LONGITUDE OR "-COORDINATE 36,128 58,803 20.647 17,704 MAP T- 9559 PROJECT NO. 6040 3/16/55 15 7 # H 56 159 56 159 DATE... DATUM N.A. 1927 N.A. 1927 SOURCE OF INFORMATION (INDEX) 6-9236 P- 189 G-9236 P. 191 D.N.W. 1 FT = 3048006 METER COMPUTED BY:..... STATION NEGRO, 1949 SHAKE, 1949 15

FORM 164 (4-23-54)

COMPILATION REPORT

Map Manuscripts T-9555 thru T-9559

Project 6040

31. Delineation:

Remarks under this heading in the Descriptive Report for map manuscripts T-9561 and T-9562 Project 6040 are applicable to these five map manuscripts.

Refer to remarks in the Photogrammetric Plot Report, Item 22, "Method" for photograph inadequacies.

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 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:

There were none recommended within the limits of these five map manuscripts.

38. Control for Future Surveys:

Fourteen Forms 524 are submitted with these five map manuscripts. Ten of these were submitted by the field party and four are submitted for Azimuth Marks located at the compilation office. One station, RAKE, 1949 was located from a theodolite fix. One station, MILK, 1949 is now probably destroyed due to extreme changes in the sand spit on which it was located. Also the sextant fix furnished for the location of this station could not be held to all four stations. A note of explanation has been entered on the Form 524. All stations are listed in Item 49, "Notes to the Hydrographer".

39. Junctions:

Satisfactory junctions have been made with all adjoining map manuscripts.

40. Horizontal and Vertical Accuracy:

There are no areas of sub-normal horizontal accuracy provided that the limitations of the horizontal control described in the Photogrammetric Plot Report under Item 23, "Adequacy of Control" are not considered inadequate.

Vertical accuracy is not applicable and no vertical control stations were located within the limits of these five map manuscripts. Elevations given for triangulation stations in the lists of geographic positions have been shown along with the Station name.

Items 46 and 47:

Refer to the Descriptive Report for T-9561 and T-9562, Project 6040.

Approved:

Fred Natella

Comdr., C&G Survey

Officer-in-Charge

Respectfully submitted:

J. Edward Deal Cartographer

48. Geographic Names:

Geographic Names appearing on these five map manuscripts are as follows:

T-9555

Alaska Peninsual Bristol Bay

T-9556

Alaska Peninsula Bristol Bay Port Heiden Birthday Creek

T-9557

Alaska Peninsula Birthday Creek Meshik River Port Heiden

T-9558

Alaska Peninsula Bristol Bay Seal Islands

T-9559

Alaska Peninsula Blueberry Creek Bristol Bay Seal Islands

Hames approved 5-20-57

49. Notes to the Hydrographer:

Recoverable topographic stations located are:

In T-9555

FEAR, 1949 NEAT, 1949 LILAC AZ. MARK, 1949

In T-9556

GENE, 1949 JULY, 1949 PEAR, 1949 STRONG AZ. MARK, 1949

In T-9557

OPEN, 1949 RAKE, 1949

In T-9558

MIIK, 1949 (no location submitted, refer to note on Form 524)
CHIEF AZ, MARK 1949

In T-9559

YELP, 1949 ZONE, 1949 SHAKE AZ. MARK, 1949

No photo-hydro stations were located.

Review Report of Planimetric Maps

T-9555 thru T-9559

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

In consideration of the scale difference, there is good agreement between these surveys.

Comparison with Contemporary Hydrographic Surveys: 64.

There are no contemporary hydrographic surveys of this area.

65. Comparison with Nautical Charts:

8502	1:969 761	1956	(8-13)
8502 8802	1:969 761 1:1023188	1956 1956	(8-13) (7-9) (12-건년)
9302	11:1534 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.

APPROVED:

Chief, Review and Drafting Sec. Photogrammetry Division

Chief, Coastal Surveys

Chief, Nautical Chart Branch

Photogrammetry Division

Summary

to accompany Planimetric Maps:

T-9555 thru T-9559

The five planimetric map manuscripts extend from SEAL ISLANDS to PORT HEIDEN, Bristol Bay, Alaska Peninsula, Alaska (see page 10 of this report for index of this group of maps).

Photography of June 1943 was used during field inspection in the season of 1949. Compilation of these planimetric maps was accomplished from photography of August 1952 and June 1955. Many of the field inspector's notations pertaining to the main shoreline (along Bristol Bay) were of little value; this shoreline being subject to frequent and extreme changes.

This group of five planimetric maps was scribed in the Portland Office from pencil compilations. Minor 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.