9564 9565

Diag. Cht. No. 8802

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric) T-9564

Field No. 6040 Office No. T-9565

LOCALITY

State Alaska

General locality Bristol Bay, North Shore Alaska Peninsula

Locality Cape Seniavin

1948-55

CHIEF OF PARTY

A. N. Stewart, Chief of Party

Fred Natella, Portland Photo. Office

LIBRARY & ARCHIVES

DATE January 9, 1958

B-1870-1 (1)

9564 9565

DATA RECORD

T- 9564 and T-9565

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): 29 Nov. 1954) Office
14 Sept. 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): MAR 22 1956 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 24 Oct 1957

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

Geographic Datum (III): N.A 1927

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

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.

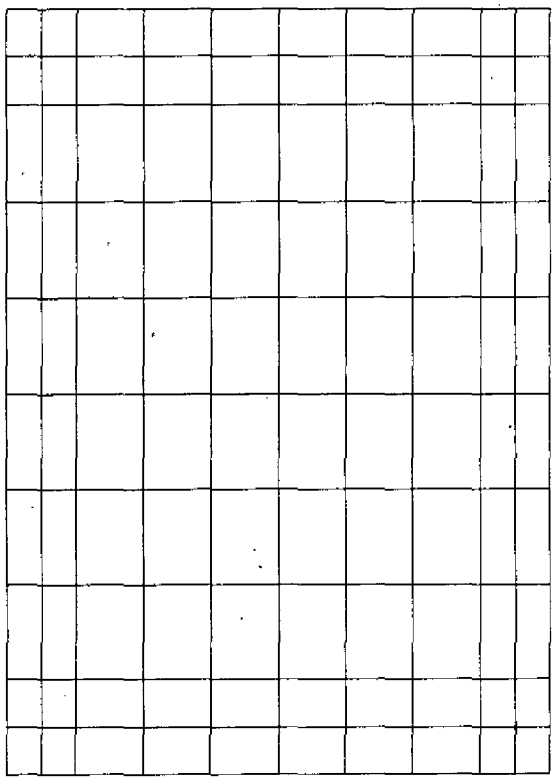
When entering names of personnel on this record give the surname and initials, not initials only.

T-9564 SENIAVIN, 1950

Lat. 56° 23' 54.492"(1685.5) Long. 160° 08' 28.221"
(484.1)

T-9565 STEAM, 1950

Lat. 56° 27' 22.771"(704.3) Long. 159° 58' 36.451"
(624.3)



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

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): J. L. Harris Date: 27 Sept. 1955

Control checked by (III): J. E. Deal Date: 29 Sept. 1955

Radial Plot or Stereoscopic Control extension by (III): J. L. Harris Date: 9 Nov. 1955

Stereoscopic Instrument compilation (III): Planimetry Date:

Contours Date:

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

Photogrammetric Office Review by (III): C. C. Harris Date: 27 Feb. 1956

Elevations on Manuscript checked by (II) (III): C. C. Harris Date: 23 Feb. 1956

	Pencil Compilation	Date	Scribed	Date	Stick-up	Date
T-9564	L. L. Graves	12/19/55	L. L. Graves	12/21/55	L. L. Graves	2/3/56
T-9565	L. L. Graves	1/13/56	L. L. Graves	1/31/56	L. L. Graves	2/7/56

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
51078 thru 51082	6/18/55	16:25	1:20,000	2.0 ft. above M.L.L.W.
51091 and 51092	6/18/55	15:40	1:20,000	2.0 ft. above M.L.L.W.

Tide (III)

			Ratio of Ranges	Mean Range	Diurnal Range
Reference Station:	Nushagak Bay	)		15.3	19.5
Subordinate Station:	Port Moller	) Proportioned	0.92	13.8	18.2
Subordinate Station:	Egegik River Ent.	)	0.55h 0.85L	7.5	10.6

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): 117

Shoreline (More than 200 meters to opposite shore) (III): 15.0

Shoreline (Less than 200 meters to opposite shore) (III): 3.0

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 4 Recovered: 4 Identified: 3

Number of BMs searched for (II): Recovered: Identified: 5 *

Number of Recoverable Photo Stations established (III): 2 **

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* Spot elevation vertical control points

** 3 were established but one was made a triangulation station by subsequent observations.

FIELD INSPECTION REPORT

Map Manuscripts T-9564 and T-9565

Project 6040

Refer to PROJECT REPORT, "AERIAL PHOTOGRAPH CONTROL AND INSPECTION, ALASKA PENINSULA, ALASKA PROJECT Ph-40(49) July to Sept. 1949", A. Newton Stewart, Chief of Party.

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscripts T-9564 and T-9565

Project 6040

Refer to the "PHOTOGRAMMETRIC PLOT REPORT" for Map Manuscripts 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.

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-9564 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)
SENIAVIN, 1950	G-10049	N.A.	56 23 54.492				1685.5	(170.3)		
	P. 282	1927	160 08 28.221				484.1	(545.1)		
CAPE SENIAVIN	G-10049	"	56 24 00.682				21.1	(1834.7)		
LIGHT, 1950	P. 289		160 08 39.671				680.4	(348.7)		

-8a-

9

1 FT. = .3048006 METER

COMM-DC-57843

COMPUTED BY: D.N.W. DATE 19 Sept. 1955 CHECKED BY: C.C.H. DATE 22 Sept. 1955

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-9565 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)
LIME, 1950	G-10049	N.A.	56 29 41.532				1284.6	(571.2)		
	P. 289	1927	159 54 23.835				407.8	(618.9)		
STEAM, 1950	G-10049	"	56 27 22.771				704.3	(1151.6)		
	P. 286		159 58 36.451				624.3	(403.3)		
V-12, 1949	Office	"	56 26 43.068				1332.2	(523.6)		
	Comp/		159 41 33.563				575.0	(452.9)		
V-13, 1949	"	"	56 26 37.394				1156.6)	(699.2)		
			159 40 39.854				682.8	(345.2)		

1 FT. = .3048006 METER

COMPUTED BY: D.N.W. DATE 19 Sept. 1955 CHECKED BY: C.C.H. DATE 22 Sept. 1955

COMM-DC-57843

COMPILATION REPORT

Map Manuscripts T-9564 and T-9565

Project 6040

Items 31 thru 34

Refer to Descriptive Report for Map Manuscripts T-9561 and T-9562.

35. Shoreline and Alongshore Details:

The remarks contained under this heading in the Descriptive Report for Map Manuscripts T-9561 and T-9562 are applicable to T-9565.

Extreme changes continually occur, at certain locations, in the shape of the Bristol Bay shoreline in Map Manuscript T-9564. This condition is clearly evident when comparisons are made between the 1943 field inspection photographs, the 1952 photography and the 1955 photography. At these places the field inspection of the mean high-water line made in 1949 on the 1943 photographs could not be correlated to the 1952 or 1955 photographic detail. Where this occured the field inspection was disregarded and an office interpretation of the mean high-water line was made on the 1955 photography. These extreme changes in shoreline are located at the mouths of small bays into which a general drainage system empties. Here are found grass covered sand spits and small isles of the same material that either disappear entirely or are of a different shape on each successive photograph coverage. Because of these extreme changes the mean high-water line is these places has been shown as an apparent shoreline although the character of the abuting land at the time of the 1955 photography was firm.

36. Offshore Details:

There are no offshore details.

37. Landmarks and Aids:

There is one landmark and aid to navigation in T-9564 namely:

CAPE SENIAVIN LIGHT and the location entered on form 567 was established by triangulation in 1950.

38. Control for Future Surveys:

Forms 524 are submitted with these map manuscripts for SEED, 1949 and YORK, 1949 in T-9564 and these are also listed in Item 49,

"Notes to the Hydrographer".

Items 39 and 40

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

41. Computation of Vertical Control Stations:

In T-9565 are several vertical control stations. The names and accepted computed elevations are as follows:

V-12	511 ft.	V-1027A	66 ft.
V-13	495 ft.	V-1027B	66 ft.
Peak 280	400 ft.		

The elevations are not shown on the map manuscript. An elevation could not be computed for Peak 281 because there was no photograph coverage with which to locate its position.

A separate report will be submitted along with computations and field data for the computations of elevations for vertical control stations for the entire project.

Items 46 and 47

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

Approved:

Fred Natella

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

Respectfully submitted:

J. Edward Deal

J. Edward Deal
Cartographer

48. Geographic Names:

Geographic names appearing on T-9564 are:

Alaska Peninsula
Bristol Bay
Cape Seniavin

Banyou Creek (see T-9567)

Geographic names appearing on T-9565 are:

Alaska Peninsula
Bristol Bay
Fracture Creek

Names approved
5-20-57.
L. Heck

49. Notes to the Hydrographer:

Recoverable topographic stations located are:

In T-9564

SEED, 1949
YORK, 1949

No photo hydro stations were located.

Review Report of Planimetric Maps

T-9564 and T-9565

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 are inadequate for conclusive comparison.

66. Adequacy of Results and Future Surveys:

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

Reviewed by:

Josef J. Streifler

Josef J. Streifler

APPROVED:

L C Lande

Chief, Review and Drafting Sec.
Photogrammetry Division

Max B Pickett

Chief, Nautical Chart Branch

R W Swanson

Chief, Photogrammetry Division

18 Dec 1957

Chief, Coastal Surveys

Summary

to accompany Planimetric Maps

T-9564 and T-9565

The two subject surveys are in the vicinity of CAPE SENIAVIN, BRISTOL BAY, ALASKA PENINSULA, ALASKA.

Field inspection was accomplished during the season of 1949 with photography of Sept. 1942 and June 1943. Manuscripts were compiled from photography of June 1955. Consequently notations by the field inspector pertaining to the frequently and extremely changing shoreline along BRISTOL BAY could not be followed entirely. Most of this shoreline was delineated by office interpretation.

These two planimetric maps were 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