9046

ORIGINAL

Diag Chts. ORIGINAL Nos. 8802 and 850.	<u>.</u> -3			
Form 504				
U. S. COAST AND GEODETIC SURVEY				
DEPARTMENT OF COMMERCE				
DESCRIPTIVE REPORT				
Type of Survey Topographic	<u> </u> 			
Field No. Office No. T=2046				
LOCALITY				
State Alaska	İ			
General locality Nushagak Peninsula				
Locality MANOKOTAK				
194 7				
CHIEF OF PARTY A. Newton Stewart, Chief of Field Pa Charles W. Clark, Chief of Plot Offi Div. of Franciskammetry, W.Sh. U.C.				
LIBRARY & ARCHIVES DEC 281954				
DEG 20 1334 DATE				

B-1870-1 (1)

DATA RECORD

T-9046

Project No. (II): Ph-8(46)B Quadrangle Name (IV): NUSHAGAK-MANOKOTAK

Field Office (II): Nushagak Peninsula, Alaska Chief of Party: A. Newton Stewart

Photogrammetric Office (III):

Wash. D.C. (Compilation) Stereoscopic Mapping Section

Instructions dated (II) (III): 4 February 1949 (Radial Plots) Copy filed in Division of 21 April 1948 (Field) Photogrammetry (IV)

Method of Compilation (III): Reading Plotter

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): 7-24-50 Date reported to Nautical Chart Branch (IV): 7-26-50

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 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

Reference Station (III): The difference between Unadjusted Datum and N.A. 1927 Datum is Lat. plus/where m. and Long. plus/minus 8 m.

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unadju

Plane Coordinates (IV):

State:

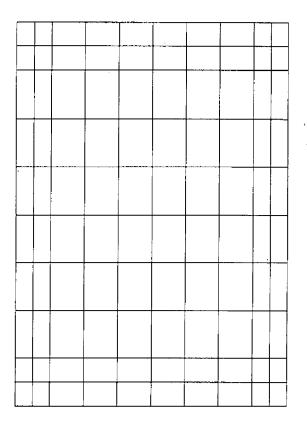
Zone:

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.



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

100% by:

Clarence E. Misfeldt and Louis Levin

DATA RECORD

Field Inspection by (II): A. Newton Stewart

Date: Season 1947

Planetable contouring by (II):

None

Date:

Completion Surveys by (II):

None

Date:

Mean High Water Location (III) (State date and method of location):

The shoreline is dated 1947 since it was delineated from 1947 photography; no shoreline inspection was accomplished in the field.

Projection and Grids ruled by (IV):

Projection and Grids checked by (IV): Wheatley E. Ward

Control plotted by (III):

Frank H. Elrod' (Portland)

Control checked by (III):

James L. Harris (Portland)

Date: April 1949

Radial Plot #251#26X#6EEEC

James L. Harris

Date: 15 July 1949

XCONTOLXXIONION by (III):

and

J. E. Deal (Portland)

Compilation

Planimetry C.E. Misfeldt

Stereoscopic Instrument compilation (III):

and

14 June 1950

Date:

Louis Levin Contours

Compilation

Clarence E. Misfeldt Manuscript deligibated by (III):

Date: 21 June 1950

Photogrammetric Office Review by (III):

Orvis N. Dalbey

Date: 30 June 1950

Elevations on Manuscript

checked by (#) (III):

Louis J. Reed

Date: 12 July 1950

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

			PHOTOGRAPHS (I	II)		
	Number	Date	Time	Scale	Stage o	of Tide
2	.8034 to 18036 20410 & 20411 20416 & 20417	incl. 10-12-46 8-23-47 8-23-47	11:37 11:10 11:13	1:20,000 3 1:20,000 1:20,000		bove M.L.W.

See remarks below.

Tide (III)

Nushagak Bay (Clark Pt.) Reference Station:

Subordinate Station: Subordinate Station:

Washington Office Review by (IV): Roscoe J. French

Final Drafting by (IV): My Day

Drafting verified for reproduction by (IV). Wo Hallum

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 103 sq. mi.

Shoreline (More than 200 meters to opposite shore) (III): None

Shoreline (Less than 200 meters to opposite shore) (III): 63 miles

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): None

Number of Temporary Photo Hydro Stations established (III):

Diurnal

Ratio of Ranges	Mean Range	Spring Range
	15.2	19.5

Date: Oct. 24, 1952

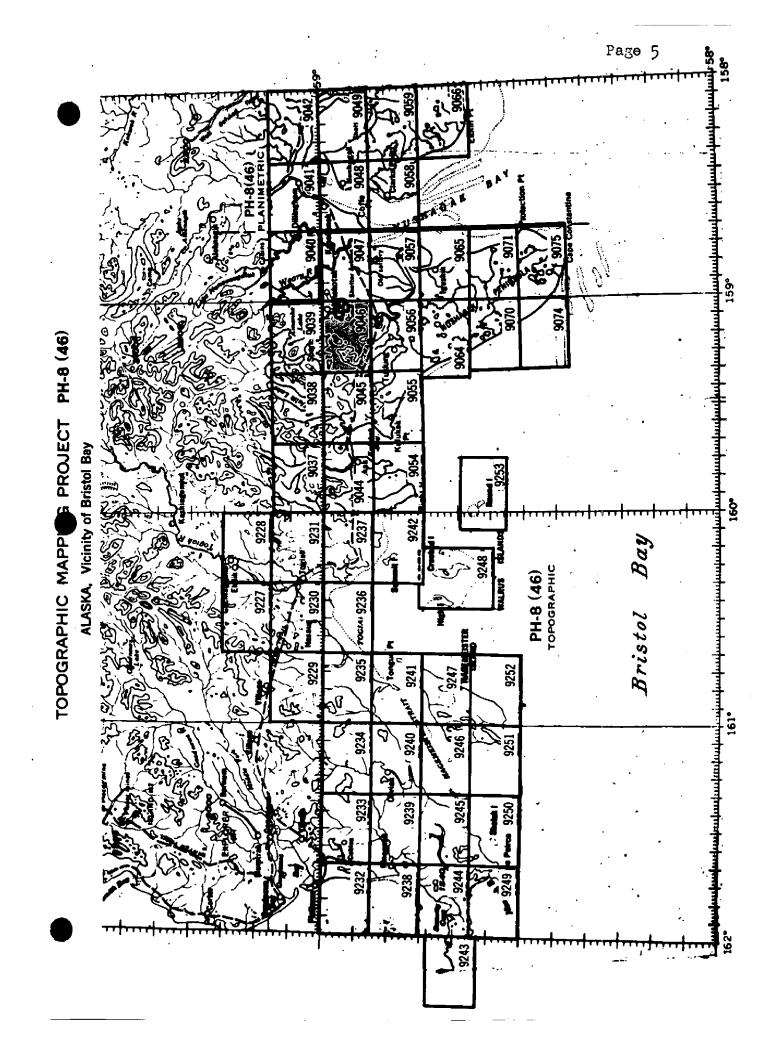
Date:

Recovered: Recovered:

Identified: One

Identified:

Remarks: The stage of tide given under "Photographs" is only approximate since there is not sufficient tidal data available to the compilation office to accurately determine the predicted tide in this area.



Summary to Accompany T-9046

Ph-8(46) covers the north shore of Bristol Bay in Alaska and extends from the Egegik River and Kvichak Bay on the east to Cape Newenham on the west.

It is divided into three parts as follows:

Ph-8(46) A planimetric includes 23 maps in the general area of Kvichak Bay and extends from Egegik Bay to Nushagak Bay.

Ph-8(46) B shoreline is composed of two shoreline maps on the Egegik River between Egegik Bay and Lake Becharof.

Ph-8(46) topographic includes 45 topographic maps which cover the area from Nushagak Peninsula westward to Cape Newenham and north to Goodnews Bay. It covers offshore islands to include Hagemeister and the Walrus Islands.

Advance copies of the map manuscripts prior to contouring were supplied as base sheets for hydrographic surveys in progress in the Nushagak Bay area.

Topographic map T-9046 includes a portion of the main valley of the meandering Igushik River, a portion of the Tuklung River, the adjoining range of mountains on the northern end of the Nushagak Peninsula and the village of Manokotak.

All topographic and drainage features were delineated with the Reading plotter simultaneously from nine-lens photographs taken in October 1946 and August 1947.

The vertical control was established by field methods using non-reciprocal vertical angles on the checked spot elevations, and reciprocal angles on the triangulation station which served as vertical as well as horizontal control.

Horizontal control consisted of but one triangulation station within the manuscript limits and the radial plot was extended to include perimeter control.

The map manuscript consists of one sheet 7.5 minutes in latitude and 20 minutes in longitude at a scale of 1:20,000 and with a 50 foot contour interval. A Cloth-backed lithographic print of the map at compilation scale will be registered with the Descriptive Report in the Bureau Archives.

This map will not be published by the Bureau.

FIELD INSPECTION REPORT

2-20:

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION

BRISTOL BAY, ALASKA

PROJECT Ph-8(46) May to September 1947

A. Newton Stewart Chief of Party

Lib. No. 138 (1947)

Refer to the above report for any information that would be covered in Side Headings 2 to 20 if the field inspection report had been written in accordance with the instructions in the Topographic Manual

PHOTOGRAM ETRIC PLOT REPORT Map Manuscript No. T-9046 Project Ph-8(46)B

Side Headings 21 to 27 inclusive:

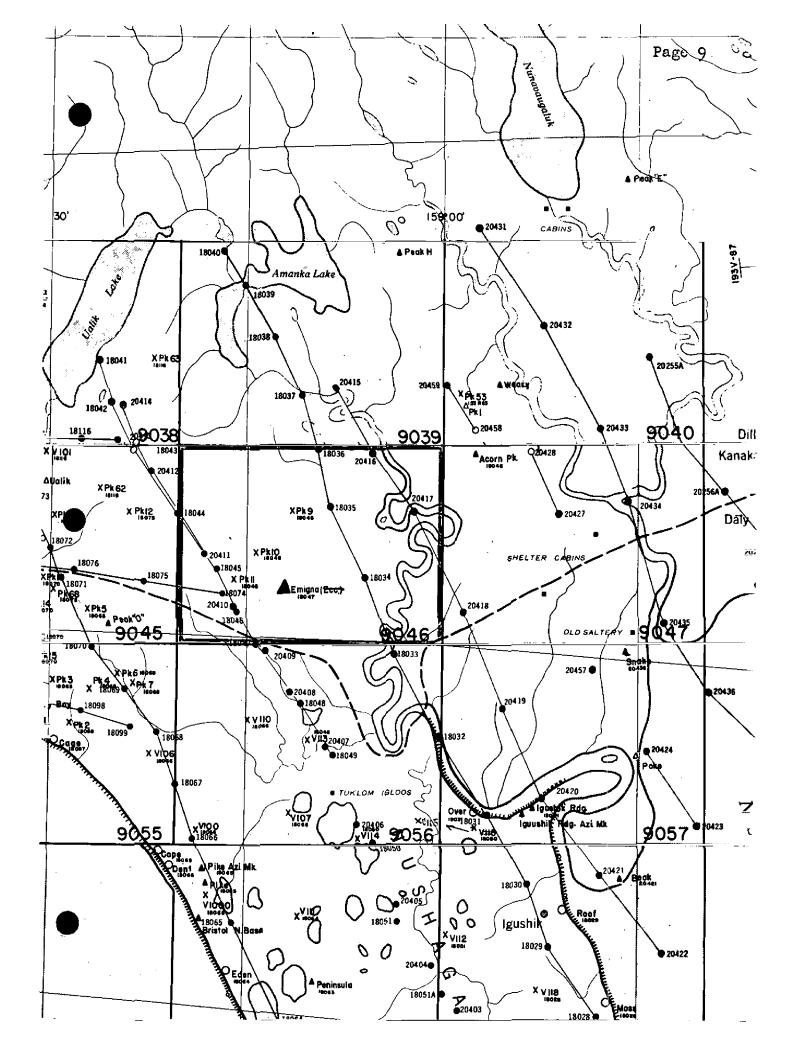
Refer to the Photogrammetric Plot Report, for "Radial Plot No. 2, Project Ph-8(46)B" Pages 8 to 22 inclusive of the Descriptive Report for T-9039 and to the Appendix of this Photogrammetric Plot Report, which is included as Page 23, of the above Descriptive Report.

Approved:

Charles W. Clark Chief of Party Respectfully submitted:

J. Edward Deal Jr.
J. Edward Deal, Jr.

Cartographer



COMPILATION REPORT

Washington Office

31. Delineation:

Contours and cultural features were delineated simultaneously on the Reading Plotter, Model "A". Photograph coverage was complete. No field inspection was available.

32. Control:

Reference side-heading No. 23 of the Radial Plot Report included in the Descriptive Report for quadrangle T-9039.

Both horizontal and vertical control were scarce in the area of this map; additional horizontal was established thru the radial plot and it was necessary to bridge during plotting instrument operation to secure elevations on which to base the contouring.

33. Supplemental Data:

a. Plotting instrument photographs:

20\;\delta\)5 thru 20\;\delta\)8 " 20\;\delta\)5 and 18038 23350 and 23352

b. Field inspection photographs: None

c. Graphic control surveys: None

34. Contours and Drainage:

Portions of the instrument photographs were objectionable for contouring purposes but by selecting pairs a complete coverage was effected. In detail, photo 18035 had one blank chamber, and 20415 thru 20418 were of poor definition.

35. Shoreline and Alongshore Details:

Mud flats have been located during instrument delineation. They are believed to bare at low water and are considered approximate.

36. OFFSHORE DETAILS: None

37. LANDMARKS AND AIDS:

The seasons reports of the PATHFINDER for 1947, 1948, and 1949, were examined and no reference to landmarks

or aids could be found. Make reference for any to project report by A. N. Stewart, 1947, entitled, "Aerial Photograph Control and Inspection, Bristol Bay, Alaska."

Lib. No. 138. (1947)

- 38. Control for Future Surveys: None
- 39. Junctions:

Details on this manuscript, both planimetric and topographic, are matched satisfactorily with adjoining quads, T-9039 to the north, T-9047 to the east, and T-9056 to the south. To date no quadrangle has been compiled to the west (T-9045). Now complete. 4 jet. ox.

- 40. Horizontal and Vertical Accuracy: Standard
- 46. Comparison with Existing Maps:

Nushagak Bay, Alaska, Reconnaissance Topographic Series, Third Judicial Division, USGS, 1:250,000, 19493.

47. Comparison with Nautical Charts:

No. 9050, 1:1:150,000 23 June 1946 No. 8802, 1:1;023,188 7 Nov. 1947 No. 9052 1:100,000 4 Apr. 1950

- 48. Geographic Name List: See separate page attached.
- 49. Notes for the Hydrographer: None
- 50. Compilation Office Review: See T-2 form following.

Submitted:

Orvis N. Dalbey
Cartographer - Photogrammetric

Approved and forwarded:

Louis J. Reed, Chief, Stereoscopic Mapping Section

	GEOGRAPHIC NAMES Survey No.		/	de de la constante de la const	D D D	or indi	Mage	G G G	Mac Pay	J. 18 13 18 18 18 18 18 18 18 18 18 18 18 18 18	5
Q-	T-9046 Name on Survey	A	No. Or	VO. Or	D Mar	E E	F F	G	H	5.5. K	
	IGUSHIK RIVER										1
	MANOKOTAK										2
	NUSHAGAK PENINSULA										3
	TUKLUNG RIVER										4
	Alaska										5
											6
			/	ames	under	lines in	red				7
				ars	appro	ved					8
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PHOTOGRAMMETRIC OFFICE REVIEW

T-9046

1. Projection and grids
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)
9. Plotting of sextant fixes 10. Photogrammetric plot report 11. Detail points
ALONGSHORE AREAS $M = non-expision$ (Nautical Chart Data)
ALONGSHORE AREAS $M = non enhistron$
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Alds
to navigation
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
instrument contours 24. Cantours In general 25. Spot elevations 26. Other physical
features
CULTURAL FEATURES
27. Roads 28. Buildings 29. Railroads 30. Other cultural features
POUNDARIES
BOUNDARIES
31. Boundary lines 32. Public land lines
MACCO LANGOVO
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy
overlay
Reviewer Supervisor, Review Section or Unit
Lereoscapic Mapping Lection
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

Review Report Topographic Map T-9046 October 24, 1952

62. Comparison with Registered topographic surveys .-

T-3085

1:100,000

1939

The map supersedes this survey for nautical charting purposes.

63. Comparison with Maps of other Agencies.-

Nushagak Bay, Alaska 1:250,000 1943 USGS

T-9046 supersedes this map in all respects.

- 64. Comparison with contemporary hydrographic surveys .- None
- 65. Comparison with Nautical Charts .-

See paragraph 47 Page 11

More detail is now available at this scale and an attempt has been made to better classify the valley floor features such as is peculiar to a large meandering river of this kind. The chart can now be compiled with much more detail, and since the 1946 photographs were taken at nearly low tide the limits of the mud flats are presumed to be very nearly the approximate low water lines.

66. Adequacy of results and Future Surveys. - No field inspection is available to serve as a basis for interpreting interior or shoreline details. Marsh limits and the extent to which the mud and sand deposits have been shown were determined entirely by office interpretation.

The limits of the mud flat areas in the foreshore areas and on the inside of meanders are shown as they appear on the October 1946 photography which was taken at about 1/3 tide. It is not believed the tide has as much range this far back from Nushagak Bay as the tide tables would indicate, but that the nature of this large, sluggish, meandering river would seem to substantiate the office classification of areas adjacent to the shoreline to be as indicated, and that the velley floor should be shown with a marsh symbol.

It is doubtful whether this map complies with the National Map Accuracy standards, but it is presumed that the horizontal error in position of planimetry does not exceed 1.0 mm. at compilation scale and that the vertical accuracy is accurate to within one contour interval.

Reviewed by:

Approved:

Chief, Review Section Div. of Photogrammetry

Div. of Photogrammetry

Chief, Nautical Chart Branch Div. of Charts

HORIZONTAL DATUM ADJUSTMENT

Bristol Bay, Alaska

The subject maps were radial plotted on unadjusted (Field) datum which was subsequently adjusted to the North American 1927 datum by the Division of Geodesy. The datum correction has been computed for each sheet, and stamped into the Descriptive Report on page 1, and on the manuscripts and registered cloth-backed copies near the title block. However, as the title block of each clothback sheet contains the note, "1927 North American Datum", it was necessary to stamp the word, "(Unadjusted)" beside this datum note in the title block of each sheet.

See the special report, Horizontal Control Datum, Ph-8(46), Ph-8A(46), and Ph-8B(46), filed with the Completion Report for the project for details and lists of the maps, reports, and registration copies marked with this adjustment. The following is a list of the maps in the projects:

Ph-8(46), TOPOGRAPHIC

Ph-8A(46), PLANIMETRIC

T-9038	thru	T-9040	
40[1]	11	9047	
9054	11	9057	•
9064	,-9065	-9070	
9071	, - 907l	+ ,- 9075	•
9227	thru	9253	

T-9041	thru	T-9043
904.8	f#	9053
9058	11	9063
9066	11	9069
	, - 9073 , - 9078	

Ph-8B(46), SHORELINE

T-8873 (E&W) and T-8874