9074

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Form 504						
U. S. COAST AND GEODETIC SURVEY						
DEPARTMENT OF COMMERCE						
DECCRIPTIVE DEDORT						
DESCRIPTIVE REPORT						
Type of Survey TOPOGRAPHIC						
T-9075 Field No. Ph-8(46)B Office No. T-9074						
Field No. 111-0407B Office No. 1-7074						
1001171						
LOCALITY						
StateALASKA						
State						
General locality BRISTOL BAY AREA						
Locality NUSHAGAK PENINSULA						
LOCAMY NUSHRUAK PENINSULA						
194 7						
CHIEF OF PARTY						
- · · · · · · · · · · · · · · · · · · ·						
A.N.Stewart, Chief of Field Party. W.H.Bainbridge. Photogrammetric Office. Washington, D.C.						
Washington, D.C.						
LIBRARY & ARCHIVES						
_						
DATE JUNE-10-1953						
B-1870-1 (I)						

DATA RECORD

T- 9074 and T-9075

West of Cape Constantine

(9074): NUSHACAK

Project No. (II): Ph=8 (46)B

Quadrangle Name (IV): (9075): NUSHLGAK - CAPE CON-

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

Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: W.H. Bainbridge

Wash. D. C. Louis J. Reed, Stereo. Mapping Section Instructions dated (II) (III): 19 March 1948 & 4 Feb. 49 (Office ppy filed in Division of 21 April 48, 25 Apr. 47 (Field) Photogrammetry (IV)

Office Files

Method of Compilation (III):

Shoreline: Graphic

Contours: Reading Plotter No. 1

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): 3-16-50 Date reported to Nautical Chart Branch (IV): 3-16-50

Applied to Chart No.

Date:

Date registered (IV): 4-7-55

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):

The difference between Unadjusted Patum and N.A. 1927 Datum is Lat. plus/ 3 m. and Long. The minus 5 m.

lat:

Long.:

Adjusted '

Plane Coordinates (IV):

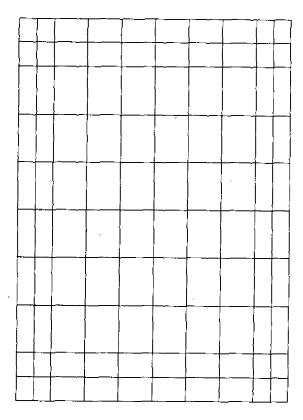
State:

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.



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

Contouring done jointly
on
Reading Plotter No. 1
by
Orvis N. Dalbey
Clarence E. Misfeldt
Louis Levin

DATA RECORD

T-9074

Field Inspection by (II): A. Mewton Stewart

Date: 1947 & 1948

None Planetable contouring by (II):

Date:

Completion Surveys by (II):

None

Date:

Mean High Water Location (III) (State date and method of location): High-water line was located on 1947 field photographs by the field party. This data was transferred to the office photographs, with the aid of the stereoscope and then compiled.

Projection and Grids ruled by (IV): Ruling Machine

Date: Unknown

Projection and Grids checked by (IV): Unknown

Date: Unknown

Control plotted by (III): Carita C. Wiebe (9075)

Date: July 1948

Control checked by (III): James L. Harris (9075)

Date: July 1948

From Unmounted Photographs Radial Ploton State Scopic from Metal Mounted Photographs Control Period States (III): J.L. Harris and J.E. Deal

Contours

10 Aug. 1948

Date: 25 Apr. 1949

delineation

manufactor Orvis N. Dalbey

Date:

Stereoscopic instrument com្បារាធិប្បតិស៊ី(III):

Louis Levin

C.E. Misfeldt

Date: 10 Feb. 1950

compilation

Manuscript delimeated by (III): Helen L. Laube (shoreline) (9074) John B. McDonald (contours)

Date: 1 Sept. 1948 20 Feb. 1950

Roy A. Davidson (shoreline) (9075)

16 Sept. 1948

Revised and

Photogrammetric Office Review by (III): Ree H. Barron (9074)

Date: 20 May 1949

Frank H. Elrod (9075)

25 Apr. 1949

Elevations on Manuscript

Date: 1 March 1950

checked by ## (III):

Louis J. Reed

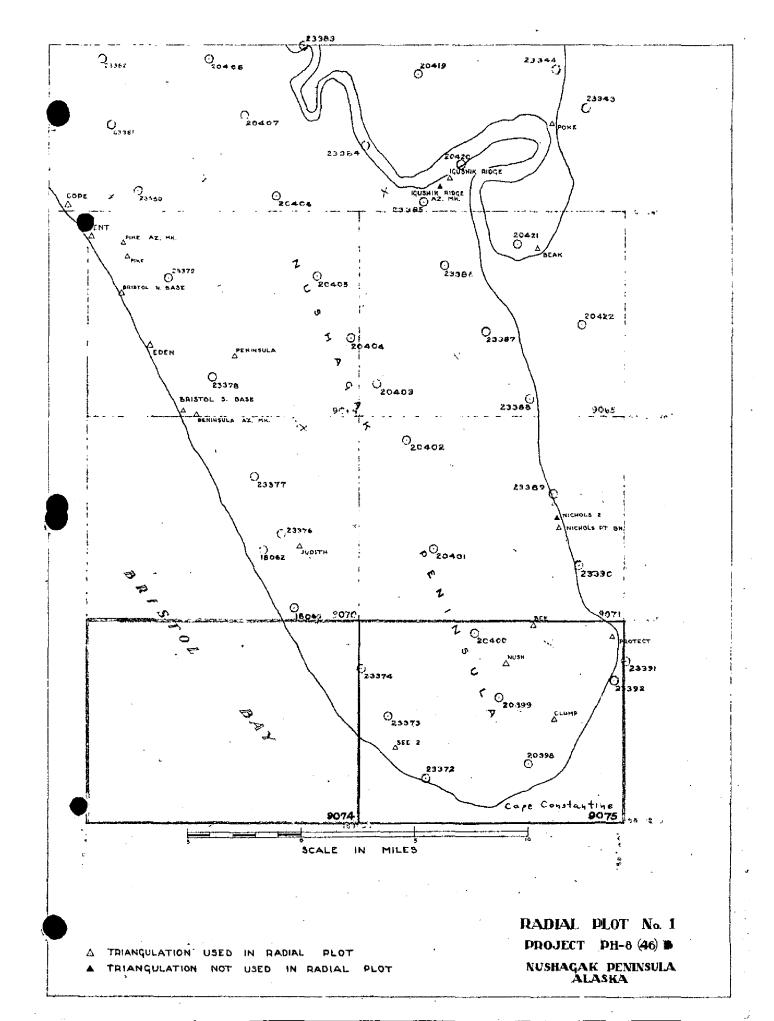
Camera (kind or source) (III): U.S.C. & G.S. 9 lens focal length 8.25 inches

		PHOTOGRAPHS (III))					
Number	Date	Time	Scale	Stage of Tide				
907 <u>4</u> 18060 9075	10/12/46	12:00	1:20,000	9.5	ft.	a.bove	M.S.L.	
18024 & 25	10/12/46	11:29	11	8.0	ft.	above	M.S.L.	
18056 - 60	10/12/46	11:55	1†	9.4	11	tt		
20398 - 400	8/23/47	10:58	İŦ	5.0	11	11	11	
23372 - 74	9/ 2/48	10:25	it .	5.5	11	17	11	
23391 & 92	9/2/48	10:43	li	6.0	11	17	11	

(Above stages checked by McKay of Tides & Currents, 20 Aug. 49)

Diurnal Tide (III) Ratio of Mean (25 pring.) Ranges | Range | Range Reference Station: Nushagak Bay (Clark Point) 0.8 12.5 17.0 Subordinate Station: Protection Point Subordinate Station: Washington Office Review by (IV): 10-2-50 Date: T-9074 Mrs M. Day Final Drafting by (IV): T-9075 Mrs M. Day Drafting verified for reproduction by (IV): Levi Vander Date: Proof Edit by (IV): Levi Vanaher Date: 10-11-52 10-17-52 Land Area (Sq. Statute Miles) (III): 12.0 (9074); 78.0 (9075) Shoreline (More than 200 meters to opposite shore) (III): 6.0 Statute Miles (9074);18.0(9075) Shoreline (Less than 200 meters to opposite shore) (III): None Control Leveling - Miles (II): Number of Triangulation Stations searched for (II): Recovered: Identified: Identified: Number of BMs searched for (II): Recovered: Number of Recoverable Photo Stations established (III): 2 (9074); 4 (9075) Number of Temporary Photo Hydro Stations established (III): 1 (9074); 5 (9075)

Remarks:



Ph-8(46), covering the north shore of Bristol Bay in Alaska, is divided in First A end B. Part A consists of 26 planimetric maps, and 2 shoreline surveys covering the area from Egegik Bay to Nushagak Bay including Kvichak Bay. The hydrography has been completed in this area.

Ph-8
Part B consists of 45 Topographic Maps covering the area from Nushagak Peninsula to Cape Newenham and north to Goodnews Bay including the offshore islands. The hydrography has not been completed in this area. Advance copies of the map manuscripts, prior to contouring, were supplied as base sheets for the hydrographic surveys now in progress at Nushagak Bay and west of Nushagak Peninsula.

Topographic maps T-9074 and T-9075 cover the southern part of Nushagak Peninsula and are the southeastern most maps in project Ph-8(=)B. The shoreline was compiled by graphic methods with interior detail and contours added by Reading Plotter from nine-lens photographs taken in 1946, 1947, and 1948. The field inspection, consisting of identification of control, selection of topographic and hydrographic station sites, establishment of vertical control and partial shoreline inspection, was accomplished in 1947 and 1948.

The map manuscripts consist of one sheet each, 7.5 min. in latitude by 20 min. in longitude, at a scale of 1:20,000. A cloth backed lithographic print of each map at the compilation scale will be registered with the combined Descriptive Report in the Bureau Archives. These maps will not be published.

FIELD INSPECTION REPORT - Map Manuscripts T-9074 and T-9075 Area of the 1st Radial Plot - Project Ph-8 (46)

1-20

There was no detailed field inspection in the area of these two map manuscripts. Pertinent data on photographic interpretation of planimetric details was obtained during various conferences between Lt. Comdr. Stewart and personnel of the compilation office during February and Warch 1948. During this period photographs were examined under the stereoscope, the character of the country was discussed and notes were made on the photographs to clarify the detail for the compilers.

The original field inspection in the area is discussed in the "Project Report, Aerial Photograph Control and Inspection, Bristol Bay, Alaska, Project Ph-8(46) May to September 1947" submitted by Lt. Comdr. A. Newton Stewart.

W. H. Bainbridge Comdr.-USC&G Survey

Chief of Party

COMPILATION REPORT Map Manuscripts Notd. T-9074 and T-9075 Project Ph-8(46)

Note: For items 26 to 37 inclusive, 39 and 44 to 46 inclusive refer to the descriptive report for T-9064 and T-9065 and substitute T-9074 for T-9064 and T-9075 for T-9065.

381 RECOVERABLE TOPOGRAPHIC STATIONS:

Form 524 is submitted for the following:

<u>In T-9074</u>	<u>In T-9075</u>
OPEN 1947	RAIN 1947
NOON 1947	SICK 1947
•	SOAP 1947
•	POLL 1947

Approved:

W. H. Bainbridge

Comdr.-USC&G Survey

Chief of Party

. Respectfully submitted:

J. Edward Deal, Jr.

Photogrammetric Engineer

1. Edward Deal Jr.

COMPILATION REPORT

Topography - Washington Office

28. Detailing:

Topography was compiled on the Reading Plotter
No. 1 and added to the planimetric manuscripts which
had been prepared in the Portland Photogrammetric
Office - see compilation report preceding this one.
3horeline detail and inland drainage systems were
not altered except to enlarge upon where omissions
were discovered. Hashures applied by the Portland
Office were removed before the contours were compiled.

During rectification considerable difficulty was encountered due to a scaracity of elevations. A variation of bridging vertical control was resorted to in order to contour areas lacking elevations. The bridging consisted of first rectifying a model where elevations existed, setting up the model in the Reading Plotter, and establishing elevations in the positions needed to rectify the succeding model, etc. This type of bridging was possible because of the unusual flatness and low elevation character of the terrain. Results are believed to be well within the limits dictated by the 50 ft. contour interval of the map.

All field-established elevations were employed and are shown on the manuscripts, except one, V-118 on T-9065. It was not possible to check this elevation during the rectification or instrument delineation procedures to less than 40 ft., and, therefore, it was considered to be in error and the instrument value for V-118 is shown in its place on the manuscript.

39. Junctions: Adequate

45. Comparison with Nautical Charts:

chart 9050 covers this area but it is to be superseded by a new compilation, 9052, which is being produced at this time based on the planimetry of the topographic quadrangles herein reported. Recent field surveys are not available for comparison purposes. See Review Report

The Radial Plat Report for T-9064-5; T-9070-1; T-9674-5 is a separate report and forms part of the Completion Report for Project Ph-8(44)

47. Contour Accuracy:

The contour interval was set at 50 ft. with 25 ft. supplementals where necessary to show the profile of the terrain. Contours on these quadrangles meet the standards of National Map Accuracy for a contour interval of 50 ft. Also, the supplemental 25 ft. contours are to be considered as meeting the 50 ft. interval standard even though they are thought to be very nearly up to standard for 25 ft. interval.

Louis J. Reed Chief, Stereoscopic Mapping Section

HYDROGRAPHIC SIGNAL SITES Project Ph-8(46) Shoots No'd. T-9074 and T-9075

<u>T-9074</u>

7401
Formerly # 153 The station is a sand dune probably
20' high (highest one) with exposed sand on
shore side with the rest covered by grass.

T-9075

7501
Formerly # 18 The station is the center of the mouth of the draw, on the elongation of the bluff lines at beach level.

7502
Formerly # 19 The station is the center of the mouth of the draw, on the elongation of the bluff lines at beach level.

7503

Formerly # 150. The station is the first point, grass covered and somewhat rounded, east of the point on the east side of the mouth of the river after it starts inland.

7504
Formerly # 151 The station is the highest grass covered sand dune in the area. Approximately 50' high and is 3200' (scaled) east of the mouth of a tidal river.

7505
Formerly # 152 The station is a grassy point on the western side of a small drainage stream.

gan (n. n. 1978)	GEOGRAPHIC NAMES Survey No. £-9074	/.	Char. Of	- Land of C	Tet John Co.	of deal ide	Or loca Mad	Q.O. Giride of	Most West of the State of the S	Trings	<i>\$</i> /
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Review Report T-9074 & T-9075 Topographic Maps October 2, 1950

62. Comparison with Registered Topographic Surveys .-

T-9074 - None T-9075 T-3090 1:20,000 1910

The map manuscript supersedes this survey for nautical charting purposes.

- 63. Comparison with Maps of other Agencies
 None
- 64. Comparison with Contemporary Hydrographic Surveys
 None
- 65. Comparison with Nautical Charts

Provisional Chart No. 9052 1:100,000 1950

The map manuscripts were partially applied to the nautical chart.

The elevations shown on the nautical chart are referred to the mean sea level datum contrary to the note shown in the chart legend. Nautical chart branch notified.

Several marsh and tidal flats areas, revised during review, should be corrected on the chart.

66. Adequacy of Results and Future Surveys.

Revisions in delineation and symbolization of tidal flats and marsh areas were necessary during review. The map manuscripts now comply with project instructions.

The offshore limits of tidal areas are shown as they appear at the time of the photographs. These areas are more extensive at MLLW.

Field instructions for this project were written in April, 1947. At that time, the intention was to draw 100 foot contours in the low areas and 200 foot contours in the rugged, mountainous areas. It was specified that elevations be spaced 3 - 5 miles where practical and never more than 8 miles apart. It was decided during the compilation of the relatively flat area on the lower Nushagak Peninsula (Radial Plot No. 1 area) that it would be necessary to reduce the contour interval to 50 feet with some 25 foot intermediate contours to properly express the relief.

Elevations provided for the contouring were checked vertical angle elevations at the main scheme triangulation stations and 9 supplementary checked and 5 unchecked vertical angle elevations with an average spacing of 6 miles. The supplementary elevations were obtained by vertical angle readings on triangulation stations and inland mountain peaks. Their horizontal positions were located by radial plot with satisfactory results using metal-mounted photographs.

The elevations for the main scheme triangulation stations in the area of Radial Plot No. 1 were closed into tide readings and are within approximately 6 feet of their true elevation. The inland mountain peak elevations were determined by vertical angles from the main scheme triangulation stations and are correct within approximately 9 feet. The average length of the shots to determine elevations for the supplementary vertical control was 20 miles and them were all in approximately the same direction, toward the northwest. Considering the possible error that might be introduced distances observed, these elevations could be in error as much as 40 feet.

All 6 quadrangles in the Radial Plot No. 1 area contain sea level elevations enabling the Nine-Lens Plotter operator to level the model along the shore and check into mean sea level. Numerous, large lakes were also an aid in levelling models. Field elevations were checked by the operator and one point that could not be held was discarded. Therefore, since no point on lower Nushagak Peninsula is more than 8 miles from the shoreline, the possibility of large errors in the field elevations was eliminated.

The 25 foot contour and all 50 foot contours are within the National Standards of Map Accuracy. All other halfinterval contours are approximate.

Reviewed by:

Approved:

Chief, Review Seption

Div. of Photogrammetry

Chief, Nautical Chart Branch

Division of Charts

Div. of Coastal Surveys

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	T-9041 thm T-904
9044 " 9047	9048 " 905
9054 " 9057	9058 " 906
9064,-9065,-9070	9066 " 906
9071,-9074,-9075	9072,-9073
9227 thru 9253	9076,-9078

Ph-8B(46), SHORELINE

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