

9056

ORIGINAL

Diag Chts. Nos. 8502-3 & 8802

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Tonographic

Field No. _____ Office No. T-9056

LOCALITY

State Alaska

General locality Nushagak Peninsula

Locality Tuklung

1947

CHIEF OF PARTY

A. Newton Stewart, Chief of Field Party

Charles W. Clark, Chief of Plot Office

W. A. P. [unclear], [unclear], [unclear]

LIBRARY & ARCHIVES

DATE December 23, 1954

9056

DATA RECORD

T-9056

JCT. IGUSHIK-

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

Quadrangle Name (IV): ~~NUSHAGAK~~-TUKLUNG RIVERS

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

Photogrammetric Office (III): Portland, Oregon (Photogrammetric Office) Officer-in-Charge: Charles W. Clark
Wash., D. C. (Compilation) Louis J. Reed, Chief,
Stereoscopic Mapping Section
Instructions dated (II) (III): Copy filed in Division of
Photogrammetry (IV)

4 February 1949 (Radial Plots)
21 April 1948 (Field)

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): 7-25-50 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

The difference between Unadjusted Datum
and N.A. 1927 Datum is Lat. plus ~~6~~ 6 m.
and Long. ~~plus~~ minus 5 m.
✓ led

Reference Station (III):

Lat.: Long.:

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.

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 photographs; no field inspection was accomplished.

Projection and Grids ruled by (IV): Ruling Machine Date: 21 July 1948

Projection and Grids checked by (IV): Wheatley E. Ward Date: 21 July 1948

Control plotted by (III): Frank H. Elrod (Portland) Date: 1 April 1949

Control checked by (III): James L. Harris (Portland) Date: 1 April 1949

Radial Plot ~~or Stereoscopic~~ Control extension by (III): James L. Harris and J. E. Deal (Portland) Date: 15 July 1949

delineation Planimetry C.E. Misfeldt
Stereoscopic Instrument ~~compilation~~ (III): and and
Contours Louis Levin Date: 14 June 1950

Manuscript ~~delineated~~ ^{compilation} by (III): Louis Levin Date: 21 June 1950

Photogrammetric Office Review by (III): Orvis N. Dalbey Date: 30 June 1950

Elevations on Manuscript checked by (II) (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 (III)					
Number	Date	Time	Scale	Stage of Tide	
18032 & 18033	10-12-46	11:31	1:20,000	8.0 ft. above M.L.	L.W
18066 & 18067	10-12-46	12:01	1:20,000	9.5 ft.	" " "
20406 to 20409 Incl.	8-23-47	11:03	1:20,000	5.0 ft.	" "
23380 to 23383 Incl.	9- 2-48	10:30	1:20,000	13.0 ft.	" "

See remarks below

Tide (III)

Diurnal

Reference Station: Nushagak Bay (Clark Point)
 Subordinate Station:
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	15.2	19.5

Washington Office Review by (IV):
Roscoe J. French
 Final Drafting by (IV): *M. J. Day*
 Drafting verified for reproduction by (IV): *W. H. Halluin*
 Proof Edit by (IV):

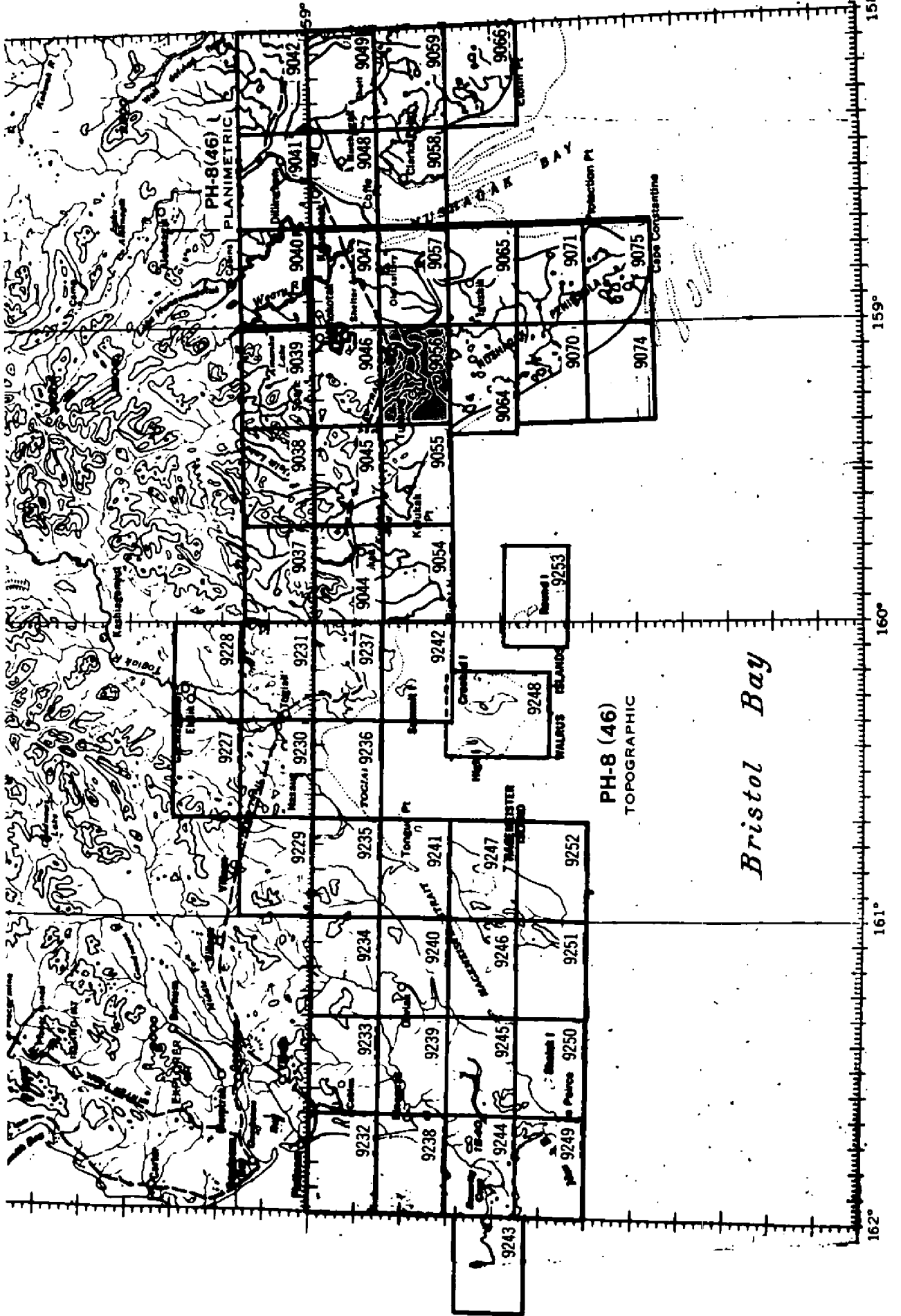
Date: *Oct. 14, 1952*
 Date: *8/12/53*
 Date: *8-18-53*
 Date:

Land Area (Sq. Statute Miles) (III): 100 square miles
 Shoreline (More than 200 meters to opposite shore) (III): 80 miles
 Shoreline (Less than 200 meters to opposite shore) (III): 35 miles
 Control Leveling - Miles (II): None
 Number of Triangulation Stations searched for (II): Recovered: Identified:
 Number of BMs searched for (II): None Recovered: Identified:
 Number of Recoverable Photo Stations established (III): None
 Number of Temporary Photo Hydro Stations established (III): None

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.

TOPOGRAPHIC MAPPING PROJECT PH-8 (46)

ALASKA, Vicinity of Bristol Bay



Summary to Accompany T-9056

Ph-8(46) covers the north shore of Bristol Bay in Alaska and extends from the Egegik River and Kvichak Bay on the east and 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-9056 falls almost entirely on the west side of Igushik River and includes the junctions with the Tunuing and Tuklung rivers, and the village of Tuklung.

The shoreline and interior drainage were compiled by graphic methods. The contours and spot elevations were plotted with the Reading Plotter from nine-lens photographs taken in August 1947 and September 1948. The vertical control was established by photo-trig, non-reciprocal vertical angle methods. Horizontal control was bridged by a nine-lens radial plot laid on perimeter control on adjoining quadrangles.

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 has been written in accordance with the instructions in the Topographic Manual.

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-9056
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
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". Photo coverage was complete. No field inspection was available.

32. Control:

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

33. Supplemental Data:

- a. Plotting instrument photographs:
 - 20407 thru 20409
 - 23379 " 23381
 - 23383 " 23386
- b. Field inspection photographs: None
- c. Graphic control surveys:
 - T-3085, Mountain Peaks Northwest of Nushagak Bay, 1:100,000, 1909

34. Contours and Drainage:

The quality of the photographic detail was satisfactory for contour delineation. However, photographs 20407 thru 20409 were not of the best photographic quality.

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: None37. 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".

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38. Control for Future Surveys: None
39. Junctions:
 Details on this manuscript, both planimetric and topographic, are matched satisfactorily with adjoining quads, T-9046 to the north, T-9057 to the east, and T-9064 to the south. ~~To date no quadrangle has been compiled to the west (T-9055).~~ Also T-9055. *Det. OK.*
40. Horizontal and Vertical Accuracy: Standard
See # 66
46. Comparison with Existing Maps:
 Nushagak Bay, Alaska, Reconnaissance Topographic Series, Third Judicial Division, USGS, 1:250,000, 1943.
47. Comparison with Nautical Charts:
 No. 9050, 1:150,000, 23 June 1946
 No. 8802, 1:1,023,188, 7 November 1947
 No. 9052 1:100,000 4 April 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
 Orvis N. Dalbey
 Cartographer - Photogrammetric

Approved and forwarded:

Louis J. Reed
 Louis J. Reed, Chief,
 Stereoscopic Mapping Section

PHOTOGRAMMETRIC OFFICE REVIEW

T-9056

- 1. Projection and grids
- 2. Title
- 3. Manuscript numbers
- 4. Manuscript size

CONTROL STATIONS

- 5. Horizontal control stations of third-order or higher accuracy
- 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)
- 7. Photo hydro stations
- 8. Bench marks
- 9. Plotting of sextant fixes
- 10. Photogrammetric plot report
- 11. Detail points

ALONGSHORE AREAS
(Nautical Chart Data)

v = checked
n = non-existent

- 12. Shoreline
- 13. Low-water line
- 14. Rocks, shoals, etc.
- 15. Bridges
- 16. Aids to navigation
- 17. Landmarks
- 18. Other alongshore physical features
- 19. Other along-shore cultural features

PHYSICAL FEATURES

- 20. Water features
- 21. Natural ground cover
- 22. Planetable contours
- 23. Stereoscopic instrument contours
- 24. Contours in general
- 25. Spot elevations
- 26. Other physical features

CULTURAL FEATURES

- 27. Roads
- 28. Buildings
- 29. Railroads
- 30. Other cultural features

BOUNDARIES

- 31. Boundary lines
- 32. Public land lines

MISCELLANEOUS

- 33. Geographic names
- 34. Junctions
- 35. Legibility of the manuscript
- 36. Discrepancy overlay
- 37. Descriptive Report
- 38. Field inspection photographs
- 39. Forms

40. Ervin M. Dalby
Reviewer

Louis Reed, Chief
Supervisor, Review Section or Unit
Stereoscopic Mapping Section

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:

GEOGRAPHIC NAMES

Survey No.

T-9056

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
Igushik River										1
Nushagak Peninsula	(for title only)									2
Tuklung										3
Tuklung River										4
Tunuing River										5
<u>Alaska</u>										6
										7
										8
										9
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										27

Names underlined in red are approved
10-9-52 L Heck

Review Report T-9056
Topographic Map
October 15, 1952

62. Comparison with Registered Topographic Surveys.-

T-3085 1:100,000 1909

The map manuscript supersedes this survey for nautical charting purposes.

63. Comparison with Maps of other Agencies.-

Nushagak Bay, Alaska, 1:250,000 1943, USGS
T-9056 supersedes this map in all respects.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

See paragraph 47, page 11

The map can now be applied to the chart to show more detail in the marsh and the drainage pattern, the foreshore areas, and interior features.

66. Adequacy of Results and Future Surveys.-No field inspection was available to serve as a basis for the interpretation of interior and shoreline details. Marsh limits and the shoreline were determined entirely by stereoscopic inspection and office interpretation.

The limits of the mud flats in the foreshore areas and inside meanders of the rivers are shown as they appear on the 1947 photographs which were taken at about 1/3 tide.

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 1 contour interval and better.

Reviewed by:

Rescoe J. French
Rescoe J. French

Approved

S. V. Huggins
Chief, Review Section 9/27/54
Div. of Photogrammetry

W. E. Swanson
Chief, Nautical Chart Branch
Division of Charts

W. E. Swanson
Chief, Div. of Photogrammetry
12/20/52

Carl O. Heaton
Chief, Div. of Coastal Surveys

HORIZONTAL DATUM ADJUSTMENT

Bristol Bay, Alaska

The subject maps were radial plotted ^{and compiled} 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

T-9038 thru T-9040
9044 " 9047
9054 " 9057
9064, -9065, -9070
9071, -9074, -9075
9227 thru 9253

Ph-8A(46), PLANIMETRIC

T-9041 thru T-9043
9048 " 9053
9058 " 9063
9066 " 9069
9072, -9073
9076, -9078

Ph-8B(46), SHORELINE

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