

9643

Diag. Cht. Nos. 9380 & 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-65(50) Office No. T-9643

LOCALITY

State TERRITORY OF ALASKA

General locality SEWARD PENINSULA

Locality MINT RIVER

194 9

CHIEF OF PARTY

M. T. Paulson, Field

C.W.Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE Mar 1 - 1953

B-1870-1 (1)

9643

DATA RECORD

T - 9643

Project No. (II): Ph-65(50)

Quadrangle Name (IV): Mint River, Alaska

Field Office (II): Shishmaref, Alaska

Chief of Party: Marvin T. Paulson

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Charles W. Clark

Instructions dated (II) (III): 9 November 1950 (Office)
17 March 1949 (Field) Ph-46(49) and Ph-28(47)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): JUN 13 1951

Date reported to Nautical Chart Branch (IV): JUN 20 1951

Applied to Chart No.

Date:

Date registered (IV): Aug 8, 1951

Publication Scale (IV): 1:20,000

Publication date (IV):

Date of issue - June 1951
Mean High Water

Geographic Datum (III): N.A. 1927

Vertical Datum (III): Mean Sea Level

~~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 waterThe difference between Unadjusted Datum
and N.A. 1927 Datum is Lat. plus/minus 0.2 m.
and Long. plus/minus 0.6 m.

Reference Station (III): MINT, 1949

Lat.

Long.

Adjusted
Unadjusted X

Plane Coordinates (IV):

State: Alaska

Zone: 3

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)
 (II) (III)

DATA RECORD

Field inspection by (II): J. Andrew Hinely

Date: 6/22/49 to 9/22/49

Planetable contouring by (II):

None

Date: —

Completion Surveys by (II):

None

Date: —

Mean High Water Location (III) (State date and method of location): No field inspection. High-water line of Lopp Lagoon delineated by office inspection 1950 photographs.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III):

H.J. Atkins

Date: 3/7/51

Control checked by (III):

J.L. Harris

Date: 3/8/51

Radial Plot or Stereoscopic
Control extension by (III):

J.L. Harris & J.E. Deal

Date: 3/21/51

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): M.B. Elrod

Date: 4/3/51

Photogrammetric Office Review by (II): Ree H. Barron

Date: 5/31/51

Elevations on Manuscript
checked by (II) (III):

Date:

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
28007	7/31/50	12:36	1:20,000	*1.0 ft. above M.L.L.W.

* NOTE: Tide information is very meager for this area and above stage of tide is only an approximation.

* USC & GS Camera "O", single-lens, focal length - 6 inches

0-122	8-22-48	14:12	1:59,000	} field inspection & control identification notes.
123	"	14:13	"	
121	"	14:11	"	

Tide (III)

Reference Station: Dutch Harbor, Alaska
 Subordinate Station: Port Clarence, Cape Riley, Alaska
 Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
	2.2	3.7
	1.2	1.4

Washington Office Review by (IV):

L. Martin Jazik

Date: 11-8-51

Final Drafting by (IV):

M. J. Ray

Date: 1-31-52

Drafting verified for reproduction by (IV):

W. O. Halluin

Date: 5-22-52

Proof Edit by (IV):

L. Martin Jazik

Date: 5-26-52

Land Area (Sq. Statute Miles) (III): 20.8

Shoreline (More than 200 meters to opposite shore) (III): 1.6

Shoreline (Less than 200 meters to opposite shore) (III): 9.8

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 1

Recovered: 1

Identified: 1

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 1

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

Remarks:

The position of MINT AZ. MARK was computed in the Portland Photogrammetric Office.

Summary T-9643

This is one of 16 planimetric maps at 1:20,000 scale of project Ph-65(50) covering the coastline of the SEWARD PENINSULA from CAPE DOUGLAS northward to the IKPEK LAGOON at the 66° parallel.

The planimetric survey for NOME is on the southern side of the peninsula and does not adjoin the other maps of this project.

Much of this coastal area has not been previously covered by maps at this large scale.

Information concerning the project in its broader aspects will be included in a project completion report to be compiled at the conclusion of the review of all surveys in this project and will be filed in the Bureau Archives.

FIELD INSPECTION REPORT
Map Manuscript No. T-9643
Project Ph-65(50)

Refer to "Project Report Aerial Photograph Control and Inspection, North Shore Seward Peninsula, Alaska Ph-46(49), Marvin T. Paulson, Chief of Party."

~~Refer to Descriptive Reports for Topographic Surveys PI-B, C, and D-50 (1950), Thos. B. Reed CDR. USC&GS Comdg. Ship PIONEER.~~

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-9643
Project Ph-65(50)

The photogrammetric plot report for this map manuscript is part of a combined photogrammetric plot report for Map Manuscripts T-9639 to T-9645 incl. and is included in the Descriptive Report for T-9639 (1949) Project Ph-65(50).

COMPILATION REPORT
Map Manuscript No. T-9643
Project Ph-65(59)

For side headings 31, 32, 34, 37, 39, 40, 46, and 47 refer to the Descriptive Report for Map Manuscript T-9639 (1949) Project Ph-65(50).

Note: There was no topographic survey by the Ship PIONEER furnished for the area of this Map Manuscript. Delete data relative to such a survey where reference is made to the above report.

33: SUPPLEMENTAL DATA:

None

35: SHORELINE AND ALONGSHORE DETAILS:

The waters within the limits of this map manuscript are probably not navigable. The narrow stream bed of Mint River was delineated by office examination of the photographs.

36: OFFSHORE DETAILS:

Not applicable.

38: CONTROL FOR FUTURE SURVEYS:

The position of MINT AZ. MARK was computed from data contained on the pricking card. Form 524 is being submitted for this station and it also is listed under side heading 49: "Notes to the Hydrographer".

Approved:

Charles W. Clark
Charles W. Clark
Officer-in-Charge

Respectfully submitted:

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

48: GEOGRAPHIC NAME LIST: T-9643

The geographic names listed below were obtained from sources as follows:

Nautical Chart No. 9380
World Aeronautical Chart (76) Seward Peninsula
U.S.G.S. Reconnaissance Map of Seward Peninsula

For this part of the project neither a geographic names report nor final names sheets were furnished the Photogrammetric Office.

Lopp Lagoon
Mint River

Names approved

5-22-52

A.J.W.

49: NOTES TO THE HYDROGRAPHER: T-9643

The position of one recoverable topographic station has been computed at the Portland Photogrammetric Office from data on the pricking card, namely:

MINT AZ. MARK

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9643

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)

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. Rea H. Brown Edward Deal Jr.
Reviewer Supervisor, Review Section or Unit

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:

Review Report T-9643
Planimetric Map
November 8, 1951

2. Comparison with Registered Topographic Surveys.

This is the first large scale survey of this area.

63. Comparison with Maps of Other Agencies

Reconnaissance Map of SEWARD PENINSULA, USGS,
1:500,000, 1918 Reprint 1935.

TELLER, ALASKA, USGS, 1:250,000 Advance Proof 1951

Map of SEWARD PENINSULA, Lomen Commercial Company,
1:500,000, no date.

NOME DISTRICT, Alaska Road Commission,
1:500,000, 1923 corrected to 1943.

64. Comparison with Contemporary Hydrographic Surveys

None.

65. Comparison with Nautical Charts.

Charts 9380	1:400,000	August 1951
9302	1:1,534,076	December 1950
9400	1:1,587,870	November 1950

66. Miscellaneous

(a) FIELD DATA - northeastward from CAPE PRINCE OF WALES, field inspection and establishment and identification of horizontal control was accomplished and originally included in project Ph-46(49). There was no field edit in this area.

(b) POLITICAL BOUNDARIES - The Territory of Alaska is divided into four judicial divisions and these are then further subdivided into recording districts. All of project Ph-65(50) is within the SECOND JUDICIAL DIVISION, and with the exception of T-9654 (NOME DISTRICT), all of the surveys are within the PORT CLARENCE DISTRICT.

(c) CLASSIFICATION - ^{DECLASSIFIED 3/2/5V LUS.} Geographic positions of stations in this area are "CONFIDENTIAL" and have been removed from this report. All other material of this survey has the classification "RESTRICTED".

Reviewed by:

L. Martin Gazik
L. Martin Gazik

Approved by:

S. V. Gifford "125/53"
Chief, Review Section,
Div. of Photogrammetry

H. W. Johnston
Chief, Nautical Chart Branch
Division of Charts *65*

O. J. Reading
Chief, Div. of Photogrammetry
Reb

Carl O. Henton
Chief, Div. of Coastal Surveys
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SPECIAL REPORT

Ph-65(50)

Planimetric Mapping Project

Nome to Cape Prince of Wales, Bering Sea, Alaska

Correction from field (unadjusted) datum to North American 1927 was computed for T-9639 through T-9643, as these maps north of Cape Prince of Wales were radial plotted on unadjusted field datum. The correction was computed by converting the old and new positions of the latitude and longitude of the reference station for each map, and was recorded to the nearest one-tenth of a meter, on each registered clothbacked map and its manuscript near the title block, and in each descriptive report near the datum note on page T-1, with the following stamp:

The difference between Unadjusted Datum
and N.A. 1927 Datum is Lat. plus/minus 0.2 m.
and Long. ~~plus~~/minus 0.6 m.

However, as the title block of each registered map contained the note, "1927 North American Datum", it was necessary to stamp the word "(Unadjusted)" beside this datum note in the title block of these registered maps.

No correction was necessary for maps T-9644 through T-9654, as they were radial plotted on adjusted N. A. 1927 Datum. Each report lists the name of the Reference Station on that map, but as this area was Classified during review, the positions of these stations are not shown. Since registration, it has been Declassified.

See the Special Report filed with the Completion Report of this project for more details and a project index showing the correction for each map.