

9640

Diag. Cht. Nos. 9380 & 9400

Form 804

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC (PHOTOGRAMMETRIC)

Field No. Ph-65(50) Office No. T-9640

LOCALITY

State TERRITORY OF ALASKA

General locality SEWARD PENINSULA

Locality MITLETUKERUK

194 9

CHIEF OF PARTY

M.T. Paulson, Field Party

C.W. Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE May 20, 1953

DATA RECORD

T- 9640

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

Quadrangle Name (IV): Mitletakeruk

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 29 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

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

~~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/minus 0.3 m.
and Long. plus/minus 0.3 m. G.B.W. 9-54

Reference Station (III): LYNX, 1949

Lat.:

Long:

~~Adjusted~~Unadjusted ☒

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
Ship "PIONEER" (Topographic Surveys)

Date: 6/22/49 to 9/22/49
~~Season 1950~~

Planetable contouring by (II):

Date:

Completion Surveys by (II):

None

Date:

Mean High Water Location (III) (State date and method of location): Spot located on field photographs during 1949 field season and spot located by Ship "PIONEER" on topographic surveys by plane table during 1950 season.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): H.J. Atkins

Date: 3/6/51

Control checked by (III): J.L. Harris

Date: 3/8/51

Radial Plot or Stereoscopic
Control extension by (III):

James L. Harris & J.E. Deal

Date: 3/21/51

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): C.C. Wiebe

Date: 5/8/51

Photogrammetric Office Review by (III): 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, Navy Single lens

Number	Date	Time	Scale	Stage of Tide
27971 thru 27974	7/31/50	11:35 (150° W)	1:20,000	*1.5 ft. above M.L.L.W.

Single lens	Date	Time	Scale	Stage of Tide
SEW-67-V-026	7/31/50	Unknown	1:20,000 ratio	Unknown
SEW-67-V-027	"	"	" "	"
SEW-67-V-048	"	"	" "	"

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

U.S.C. & G.S. Camera "O", single-lens, focal length - 6 inches

0-87	8-22-48	13:37	1:59,000	} Field inspection and control identification notes.
-88	"	13:38	"	
-89	"	13:39	"	
-90	"	13:40 Tide (III)	"	

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

Ratio of Ranges	Mean Range	Diurnal Range
	2.2	3.7
	1.2	1.4

Washington Office Review by (IV):

L. Martin Zajik

Date: Oct 14, 1951

Final Drafting by (IV):

M. J. Day

Date: 12-7-51

Drafting verified for reproduction by (IV):

W. O. Halluin

Date: 5-22-52

Proof Edit by (IV):

L. Martin Zajik

Date: 5-26-52

Land Area (Sq. Statute Miles) (III): 12.9

Shoreline (More than 200 meters to opposite shore) (III): 37.9 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 3.8 statute miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 2 Recovered: 2 Identified: 2

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

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

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

Remarks:

* NOTE: In addition 3 stations established by Ship PIONEER by planetable have also been plotted.

Summary for T-9640

This series of 16 planimetric maps at 1:20,000 scale of project Ph-65(50) covers the coastline of the SEWARD PENINSULA from CAPE DOUGLAS northward around CAPE PRINCE OF WALES 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 in this project.

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

Information concerning the project in the 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-9640
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-9640
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-9640
Project Ph-65(50)

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

33: SUPPLEMENTAL DATA:

Topographic Survey PI-C-50, Scale, 1:20,000, dated 8-7-50 was used to supplement the photographs when delineating the mean high-water line.

38: CONTROL FOR FUTURE SURVEYS:

Forms 524 are being submitted with this map manuscript for two recoverable topographic stations, namely: BERT and DANA. These are also 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-9640

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.

Chukchi Sea-
Lopp Lagoon
Mitletokeruk
Mugisitokiwik

Names approved

10-11-51

a-j.w.

49: NOTES FOR THE HYDROGRAPHER: T-9640

Two-recoverable topographic stations have been located by radial plot as follows:

BERT, 1949

DANA, 1949

Three ~~One~~ recoverable topographic stations were located by planetable:

DUG, 1950

LYNX AZ MK, 1950

LOPP AZ MK, 1950

PHOTOGRAMMETRIC OFFICE REVIEW

T-9640

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. Re. H. Barron 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-9640

Planimetric Map

October 12, 1951

62. Comparison with Registered Topographic Surveys

This is the first large scale survey of this area.

Graphic control, principally hydrographic, was established by planetable PI-B, C and D-50. Shoreline, located at intervals, is in agreement with that compiled for this survey.

63. Comparison with Maps of Other Agencies

Reconnaissance Maps 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 - a source of geographic names.

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

The coastal trail indicated on the TELLER and NOME DISTRICT maps above was not visible on the photographs for office compilation.

64. Comparison with Contemporary Hydrographic Surveys

H-7845	1:20,000	1950
H-7846	1:20,000	1950
Shoreline, located at intervals, is in agreement with that compiled for this survey.		

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

Although there are no forests in this sub-arctic tundra region this area has a cover of mosses, lichens and thickets which during the first of the thaw in June and July is essentially marsh. However, only areas that are marsh during the entire period of the short summer season as determined by office interpretation are so delineated.

66. Miscellaneous

(a) FIELD INFORMATION - Northeastward from CAPE PRINCE OF WALES, field inspection and establishment and identification of horizontal control was accomplished and originally included in

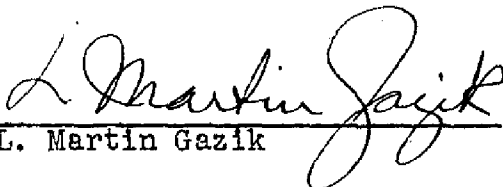
Ph-46(49). See Season Report for Ph-46(49) dated 1 March 1950
by Marwin T. Paulson

(b) FIELD EDIT - None for surveys in this project.


(c) POLITICAL BOUNDARIES - The Territory of Alaska is divided into four judicial divisions and these are then further subdivided into 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.


(d) CLASSIFICATION - 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".

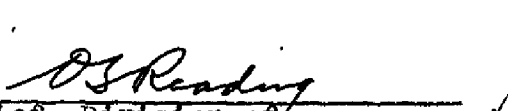
Reviewed by:

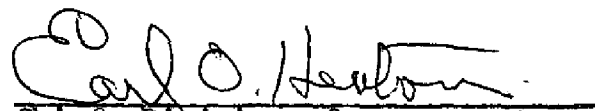

L. Martin Gazik

Approved:


Chief, Review Section
Division of Photogrammetry


Chief, Nautical Chart Branch
Division of Charts GFD


Chief, Division of
Photogrammetry


Chief, Division of
Coastal Surveys



T-9640

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 0.3 m.
and Long. plus/minus 0.3 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.