

9641



Diag. Cht. Nos. 9380 & 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC (PHOTOGRAMMETRIC)

Field No. Ph-65(50) Office No. T-9641

LOCALITY

State TERRITORY OF ALASKA

General locality SEWARD PENINSULA

Locality PINGUK RIVER

1949

CHIEF OF PARTY

M.T. Paulson, Field Party

C.W. Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE May 20 - 1953

9641



DATA RECORD

T - 9641

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

Quadrangle Name (IV): Pinguk River

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 21 1952

Publication Scale (IV): 1:20,000

Publication date (IV): June 1952
Date of issue: 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 water

Reference Station (III): DAVID, 1949

The difference between Unadjusted Datum
and N.A. 1927 Datum is Lat. plus/minus 0.6 m.
and Long. plus/minus 0.1 m. G.B.W. 9-54

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 planetable during 1950 season.**

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): **J.L. Harris**

Date: **3/6/51**

Control checked by (III): **H.J. Atkins**

Date: **3/7/51**

Radial Plot or Stereoscopic **James L. Harris and J.E. Deal**
 Control extension by (III):

Date: **3/21/51**

Planimetry
 Stereoscopic Instrument compilation (III):
Contours

Date:

Date:

Manuscript delineated by (III): **Marie B. Elrod**

Date: **5/4/51**

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 inches

Number	Date	Time	Scale	Stage of Tide
27975	7/31/50	11:36	1:20,000	*1.5 ft. above M.L.L.W.
28004 thru 28006	7/31/50	12:34	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.

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

0-85	8-22-48	13:35	1:59,000	} Field inspection and control identification notes.
-86	"	13:36	"	

Tide (III)

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

Diurnal		
Ratio of Ranges	Mean Range	Range
	2.2	3.7
	1.2	1.4

Washington Office Review by (IV):

L. Martin Sajik

Date: 10-2-51

Final Drafting by (IV):

M. J. Day

Date: 12-29-51

Drafting verified for reproduction by (IV):

W. H. H. H.

Date: 5-21-52

Proof Edit by (IV):

L. Martin Sajik

Date: 5-16-52

Land Area (Sq. Statute Miles) (III): 96.2
Shoreline (More than 200 meters to opposite shore) (II): 14.8
Shoreline (Less than 200 meters to opposite shore) (III): 25.3
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 2 (X)
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Recovered: 2 (X) Identified: 2 (X)
Recovered: Identified:

Remarks:

1 additional to east of sheet beyond 9-lens photograph coverage. Identified on tri-metrogen photograph.

* Navy, Single-lens, focal length 153.42 mm. (Not used in plot).

Sew-27-07	} 9-8-49	No time available	1:20,000 (ratio)	No tide computable
08				
09				
27-35	} "	"	"	"
36				
37				
27-44	} "	"	"	"
45				
46				

Summary for T-9641

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-9641
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-9641
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-9641
Project Ph-65(50)

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

38: CONTROL FOR FUTURE SURVEYS:

Form 524 is being submitted with this map manuscript for recoverable topographic station CHOP. It is also listed under side heading 49: "Notes to the Hydrographer". See Item 49.

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-9641

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
Ikpek Lagoon
Lopp Lagoon
Pinguk River

For title:
Seward Peninsula

Alaska

Names underlined in red
are approved. 9-12-57
L. HECK

49: NOTES FOR THE HYDROGRAPHER: T-9641

One recoverable topographic station has been located by radial plot, namely:

CHOP, 1949

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9641

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. Ree 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:

M-2623-12

Review Report T-9641
Planimetric Map
October 2, 1951

62. 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, U.S.G.S.,
1:500,000, 1918 Reprint 1935.

TELLER, ALASKA, U.S.G.S., 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

W-7846 1:20,000 1950
Shoreline, located at ~~intervals~~ on the above, is in agreement

65. Comparison with Nautical Charts with that compiled on T-9641.

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 subarctic
tundra region, this area has a cover of mosses, lichens,
and some 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 have been 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 March 1, 1950. There was no field
edit for surveys in this project.

(b) 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.

(c) 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
L. Martin Gazik

Approved by:

S. V. Lippitt #1/14/53
Chief, Review Section
Division of Photogrammetry

H. C. Edmundson
Chief, Nautical Chart Branch
Division of Charts GFS

B. S. Reading
Chief, Division of Photogrammetry
RUB

Carl O. Heaton
Chief, Division of Coastal
Surveys
RRF

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 0.6 m.
and Long. plus/minus 0.1 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.