

9642

Diag. Cht. No. 9380

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-9642

LOCALITY

State ALASKA

General locality SEWARD PENINSULA

Locality LOPP LAGOON

194/ 49-50

CHIEF OF PARTY

M.T. Paulson, Field Party
C.W. Clark, Portland Photogrammetric Office

LIBRARY. & ARCHIVES

DATE March 30 - 1953

DATA RECORD

T - 9642

Project No. (II): Ph-65(50) Quadrangle Name (IV): Lopp Lagoon, 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) Copy filed in Division of
17 March 1949 (Field) Ph-46(49) and Ph-28(49) 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): 1:50,000

Publication date (IV):

Date of issue -

June 1952

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

The difference between Unadjusted Datum
and N.A. 1927 Datum is Lat. plus/minus 0.4 m.
and Long. plus/minus 0.4 m. G.B.W. 9-54Reference Station (III): *Not held in the Radial Plot*
POTATO MOUNTAIN, 1944
See Des. Rept. T-9639 G.B.W.

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** Date: **6/22/49 to 9/22/49**
Ship PIONEER (Topographic Surveys) ~~Season 1950~~

Planetable contouring by (II): **None** 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 & J.E. Deal** Date: **3/21/51**
Control extension by (III):

Planimetry Date: **—**
 Stereoscopic Instrument compilation (III): **None**
Contours Date: **—**

Manuscript delineated by (III): **F.H. Elrod** Date: **5/15/51**

Photogrammetric Office Review by (III): **Ree H. Barron** Date: **6/1/51**

Elevations on Manuscript checked by (II) (III): **None** Date: **—**

Camera (kind or source) (III): U.S.C. & G.S. 9-lens, Focal length 8.25 inches,
Navy Single-lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
27970	7/31/50	11:31	1:20,000	*1.5 ft. above M.L.L.W.
28008 to 28011	7/31/50	12:40	1:20,000	*1.0 ft. above M.L.L.W.

Single lens
SEW-67-V-047 7/31/50 Unknown 1:20,000 ratio Unknown

* 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

0-91	8-22-48	13:41	1:59,000	} - Field Inspection & control identification notes.
0-118	"	14:08	"	
0-119	"	14:09	"	
0-120	"	Tide (III): 1.0	"	
0-121	"	14:11	"	

Reference Station: Dutch Harbor, Alaska

Subordinate Station: Port Clarence, Cape Riley, Alaska

Subordinate Station:

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

Washington Office Review by (IV):

L. Martin Pazik

Date: 11-5-51

Final Drafting by (IV):

M. J. Day

Date: 1-25-52

Drafting verified for reproduction by (IV):

W. O. Halluin

Date: 5-27-52

Proof Edit by (IV):

L. Martin Pazik

Date: 5-27-52

Land Area (Sq. Statute Miles) (III): 67.5

Shoreline (More than 200 meters to opposite shore) (III): 43.3 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 1.3 statute miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 2

Recovered: 2

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:

SUMMARY for T-9642

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-9642
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-9642
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-9642
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).

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 when reference is made to the above report.

33: SUPPLEMENTAL DATA:

None.

38: CONTROL FOR FUTURE SURVEYS:

Form 524 is being submitted with this map manuscript for recoverable topographic station CHIP. It is 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

49: NOTES FOR THE HYDROGRAPHER: T-9642

^{Two}
~~One~~ recoverable topographic station, ^{ve} has been located by radial
plot, namely:

CHIP, 1949

PEAK EA, 1949

48: GEOGRAPHIC NAME LIST: T-9642

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 Bering Strait
Lopp Lagoon
Lynx Creek } B.G.N. decisions 1947
Potato Creek
Potato Mountain
Manna Creek (note change in application this name)
Boulder Creek (1947 B.G.N. decision)

Names underlined in
red are approved
11-2-51
L. Heck

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9642

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. Rev. 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:

M-2623-12

REVIEW REPORT T-9642
Planimetric Map
November 5, 1951

62. Comparison with Registered Topographic Surveys

This is the first large scale survey of the area.

63. Comparison with Maps of Other Agencies

Reconnaissance Map of SEWARD PENINSULA, U.S.G.S.
1:500,000 1918 Reprint 1935

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

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

TELLER, ALASKA, U.S.G.S.
1:250,000 Advance Proof 1951

Some of the features of the TELLER map vary as much as one mile in latitude (~~23° 45' - 24° 45'~~) with the same features of this planimetric map. Visual comparison can readily be made of the land area at 65°45' - 167°42'.

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

64. Comparison with Contemporary Hydrographic Surveys

H-7845 1:20,000 1950

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.

56. Miscellaneous

(a) FIELD INFORMATION - northeastward from CAPE PRINCE OF WALES shoreline 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 Marvin 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, 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".

*This map complies with Bureau Policy and
National Map Accuracy requirements.*

Reviewed by:

L. Martin Gazik
L. Martin Gazik

Approved:

S. J. Griffith 1/28/53
Chief, Review Section
Div. of Photogrammetry

H. E. Munson
Chief, Nautical Chart Branch
Division of Charts *GFJ*

O. S. Reading
Chief, Division of Photogrammetry

Carl O. Heaton
Chief, Div. of Coastal
Surveys *RT*

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 0.4 m.
and Long. plus/minus 0.4 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.