

9645

Diag. Cht. No. 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-9645

LOCALITY

State ALASKA

General locality SEWARD PENINSULA

Locality TIN CITY

194 9

CHIEF OF PARTY

M. T. Paulson, Field Party.

C.W. Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE April 1 - 1953

B-1870-1 (1)

9645

DATA RECORD

T - 9645

Project No. (II): Ph-65(50) Quadrangle Name (IV): Tin City, 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 3 1951 Date reported to Nautical Chart Branch (IV): JUN 29 1951

Applied to Chart No.

Date:

Date registered (IV): 7-25-53

Publication Scale (IV): 1:20,000

Issue
Publication date (IV): Oct 1952

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

Shoreline at MHW

Reference Station (III): TIN CITY, 1944

Lat:

Long:

Adjusted ☒ X
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

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.

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):

J.L. Harris & J.E. Deal
R.J. French *

Date: 3/21/51

Stereoscopic Instrument compilation (III):

Planimetry

Date: —

Contours

None

Date: —

Manuscript delineated by (III): Ree H. Barron

Date: 5/24/51

Photogrammetric Office Review by (III): J.E. Deal

Date: 5/28/51

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

None

Date: —

* A second radial plot was laid on additional AMS control which supersedes the Portland work, and it
RJF

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
27962 to 27964 Incl.	7/31/50	11:12	1:20,000	@1.5 ft. above M.L.L.W.

Single lens

Number	Date	Time	Scale	Stage of Tide
SEW-67-V-033 and 034	7/31/50	Unknown	1:20,000 ratio	Unknown
SEW-67-V-042 and 043		"	"	"
SEW-67-V-057		"	"	"

Field inspection on 1948 photos

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

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: 7-14-52

Final Drafting by (IV):

M. Webber

Date: 9-8-52

Drafting verified for reproduction by (IV):

W.O. Holliman

Date: 9-29-52

Proof Edit by (IV):

L. Martin Sajik

Date: 9-29-52

Land Area (Sq. Statute Miles) (III): 29.6

Shoreline (More than 200 meters to opposite shore) (III): 10.1

Shoreline (Less than 200 meters to opposite shore) (III): 2.2

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): None

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

Remarks:

topographic

- There are three stations which have been plotted on the map manuscript which were located with planetable by Ship PIONEER in 1950.

Summary T-9645

This is one of 16 planimetric maps at 1:20,000 scale in project Ph-65(50) which covers the coastline of the SEWARD PENINSULA northward from CAPE DOUGLAS 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 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-9645
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-9645
Project Ph-65(50)

This map manuscript was first included in a radial plot for map manuscript No. T-9639 to T-9645 incl. Later the radial plot was slightly revised in the southeastern part of the map when it was included in a tentative radial plot for an area along the Bering Sea, between Longitude $167^{\circ} 00'$ and Longitude $167^{\circ} 56'$.

Refer to the Photogrammetric Plot Report for Map Manuscripts T-9639 to T-9645 incl. which is included with the Descriptive Report for T-9639 (1949) Project Ph-65(50).

Refer to a Special Photogrammetric Plot Report which is included in the Special Descriptive Report for Map Manuscript T-9646(1949), Project Ph-65(50).

Approved:

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

Respectfully submitted:

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

✓ Further work was done in W.D. on AMS control,
and a more rigid plot was concluded.

RJF
5/20/52

COMPILATION REPORT
Map Manuscript No. T-9645
Project Ph-65(50)

For side headings 31, 32, 34 to 37 incl., 39, 46 and 47 refer to the Descriptive Report for Map Manuscript No. T-9639(1949) Project Ph-65(50).

33: SUPPLEMENTAL DATA:

Topographic Survey PI-D-50, Scale, 1:20,000, dated 8/15/50 was used to supplement the photographs when delineating the mean high-water line.

38: CONTROL FOR FUTURE SURVEYS:

None Form 524 is submitted for: PK EAE
PK FA
PK EA

40: HORIZONTAL AND VERTICAL ACCURACY:

Vertical accuracy is not applicable.

There is a probability that the mean high water line southeast from Longitude 167° 50' is of sub-normal accuracy. Refer to Special Photogrammetric Plot and Compilation reports for T-9646(1949) Project Ph-65(50). *The area has been reworked in W.D. and is considered good.*
R.J.F.

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-9645

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.

Baituk Creek ✓
Bering Sea ✓
Cape Creek ✓
Lagoon Creek ✓
Ocean Creek ✓
Pelazuk (Abandoned) retained as name of locality
Tin City ✓ village
Anikovich River ✓
Manna Creek ✓
Boulder Creek ✓
Seward Peninsula (title)

Names underlined in
red are approved.
7-17-52
L. Heck

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9645

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. Barron
Reviewer

Edward Deal Jr.
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-9645
Planimetric Map
July 14, 1952

62. Comparison with Registered Topographic Surveys:

T-9645 is the first large scale survey of this area and together with the other planimetric maps in this project may serve as a base for the construction of any new nautical charts in the area of the SEWARD PENINSULA.

63. Comparison with Maps of Other Agencies:

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

Map of SEWARD PENINSULA, Lomen Commercial Company, 1:500,000, no date - a source of geographic names

USAF Pilotage Chart (76D) Nome, 1:500,000, August 1949

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

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

Examination of the photographs reveals no sign of the coastal trail shown on the latter three maps. There are no field notes to verify or negate the existence of this feature.

Drainage, lakes and other features are shown in greater detail than is possible at the scale of the above surveys.

64. Comparison with Contemporary Hydrographic Surveys:

PI-D-50(planetable)	1:20,000	1950
H-7849	1:20,000	1950

Both of the above carry information eastward only as far as TIN CITY.

Two short dashes indicating the position of the shoreline are approximately .5mm further seaward on the above two surveys than they are on the survey under review. The most easterly of these has a questionable direction and since this survey was well controlled by triangulation to give a strong position for the compiled shoreline it is recommended that shoreline information of this survey be accepted as correct.

65. Comparison with Nautical Charts:

Charts 9380	1:400,000	August 1951
9302	1:534,376	December 1950
9400	1:587,870	November 1950

The name of the village of PELAZUK has ~~not~~ been shown on this survey, ~~as a locality~~ ^{although} there are no signs of any habitation in the area. *Name omitted on chart 9369 and reconstruction of ch. 9380 3ma*

The village is shown on the TELLER map listed under Item 63 above as well as on the above charts.

66. Miscellaneous:

(a) FIELD INFORMATION - this area and northwestward to and around CAPE PRINCE OF WALES, shoreline inspection and the establishment and identification of horizontal control was accomplished and originally included in Ph-46(49).

(b) FIELD EDIT - none for surveys of 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) AIRSTRIP - no field information was furnished for the airstrip shown about 3 miles north of TIN CITY on the TELLER map, listed under Item 63 above. Examination of photographs in this general area yields no evidence of the airstrip although the sand and gravel area running N-S at about 65° 35.3 latitude and 167° 54.0 longitude seems to be ^{sufficient} level enough to ^{handle} support light craft..

(e) SECURITY INFORMATION - geographic positions of triangulation in this area are "CONFIDENTIAL" and have been removed from this report to permit all other data for this survey to carry the lower classification "RESTRICTED."

(f) PHOTOGRAPHIC COVERAGE - lack of coverage is the reason for the holiday in the NE portion of this survey. It is to be noted that while double line streams, such as MANNA CREEK, are evidently incomplete, the incompleteness of single line drains bordering the holiday is not at all evident.

67. Adequacy of Manuscript:

T-9645 complies with project instructions and National Standards of Map Accuracy.

Reviewed by:

L. Martin Gazik
L. Martin Gazik

Approved:

L. J. Griffith 3/19/73
Chief, Review Section
Division of Photogrammetry (M)

J. H. Edmonson
Chief, Nautical Chart Branch
Division of Charts (C/F)

O. S. Reading
Chief, Div. of Photogrammetry

Earl O. Heaton
Chief, Div. of Coastal Survey (M)