

9649

Diag. Cht. No. 9380 & 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Ph-65 (50) Office No. T-9649

LOCALITY

State ALASKA

General locality SEWARD PENINSULA

Locality TELLER AND VICINITY

194/50

CHIEF OF PARTY

H. A. Kare, Field Party- Ship EXPLORER

C.W.Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE April - 1 - 1953

DATA RECORD

T - 9649

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

Quadrangle Name (IV): Teller, Alaska

Field Office (II): Ship "EXPLORER"

Chief of Party: H. Arnold Karo

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Charles W. Clark

Instructions dated (II) (III): 19 May 1950 (Field)
9 November 1950 (Office)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): MAY 23 1951

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 10-7-51

Publication Scale (IV): 1:20,000

Publication date (IV):
Date of issue June 1952

Geographic Datum (III): N.A. 1927

Vertical Datum (III): ~~Mean Sea Level~~ Mean High Water~~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): TELLER, 1943

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): E.L. Jones

Date: 5 July to
5 September 1950

Planetable contouring by (II): None

Date: —

Completion Surveys by (II): None

Date: —

Mean High Water Location (III) (State date and method of location): In general from measurements made in the field at triangulation, topographic, and hydrographic stations. Elsewhere as located on the field prints in numerous places and this interpretation carried forward on office photographs by analogy with use of the stereoscope. Field season of 5 July to 5 September 1950.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): Harry J. Atkins

Date: 2/1/51

Control checked by (III): James L. Harris

Date: 2/2/51

Radial Plot or Stereoscopic James L. Harris, Ree H. Barron
Control extension by (III): and J. Edward Deal

Date: 2/20/51

Planimetry

Date: —

Stereoscopic Instrument compilation (III):

Contours

Date: —

Manuscript delineated by (III): Carita C. Wiebe

Date: 4/12/51

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

Date: 4/23/51

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. Camera "0" single lens.

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
27913 to 27915 Incl.	7/31/50	10:21*	1:20,000	2.8 ft. above M.L.L.W.
27946 to 27950 Incl.	7/31/50	10:59*	1:20,000	1.8 ft. above M.L.L.W.
28017	7/31/50	13:08*	1:20,000	1.2 ft. above M.L.L.W.
Single lens				
50-0-1962	8/1/50	Unknown	1:20,000(ratio)	Unknown

* It is believed that the time in effect at Port Clarence, Alaska is based on the "Time Meridian 150° West" and it is assumed that the time indicated for each photograph is on this time zone. One hour has been subtracted from the photograph time listed above before determining the stage of tide from the tide curve which is based on the "Time Meridian 165° West".

Tide (III)

Reference Station: Dutch Harbor, Alaska (Time Meridian 165° West)

Subordinate Station: Port Clarence, Alaska (Time Meridian 150° West)

Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal
		Range
	2.2	3.7
	1.2	1.4

Washington Office Review by (IV):

L. Martin Gazik

Date: Aug 8, 1951

Final Drafting by (IV):

M. J. Day

Date: 11-7-51

Drafting verified for reproduction by (IV): W. M. O. Hallum

Date: 6-9-52

Proof Edit by (IV):

L. Martin Gazik

Date: 6-10-52

Land Area (Sq. Statute Miles) (III): 50

Shoreline (More than 200 meters to opposite shore) (III): 26

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 13

Recovered: 13

Identified: 5 field

Number of B.M.s searched for (II):

Recovered:

Identified: 2 office

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III):

Remarks:

Summary for T-9649

This series of 16 planimetric ~~and 2 shoreline~~ maps at 1:20,000 scale in project Ph-65(50) covers 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 in this project.

Much of this coastal area has not previously been covered by maps at this comparatively 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 and registration of all surveys in this project and will be filed in the Bureau Archives.

FIELD INSPECTION REPORT
Map Manuscript T-9649
Project Ph-65(50)

Refer to the Descriptive Report for ^{Planimetric}~~Shoreline~~ (Photogram-
metric) Surveys for ~~sheets R.S. 369 to R.S. 392 inclusive Pro-~~
~~ject CS 341 (1950). T-9647.~~

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript T-9649
Project Ph-65(50)

The photogrammetric plot report for this map manuscript is part of a combined report for T-9647 to T-9653 inclusive and is included in the Descriptive Report for T-9647.

COMPILATION REPORT
Map Manuscript No. T-9649
Project Ph-65(50)

31 to 34 Incl.:

Refer to side headings 31 to 34 inclusive of the Compilation Report for T-9650 which are applicable to this map manuscript.

35: SHORELINE AND ALONGSHORE DETAILS:

The mean high water line of the two narrow spits at the entrance to Grantley Harbor was located with the aid of measurements made in the field from several triangulation stations in the area. Elsewhere on this map manuscript the mean high water line has been located by office examination of the photographs with the use of the stereoscope and aided by the high water line originally drawn on Sheet RS-391 Project CS-341.

36 and 37:

Refer to side headings 36 and 37 of the Compilation Report for T-9650 which are applicable to this map manuscript.

38: CONTROL FOR FUTURE SURVEYS:

There were no photo hydro ~~or recoverable topographic~~ stations established in the area.

The field party has submitted Form 524 for station MIS recommending that the geographic position of former triangulation station TELLER MISSION, FLAGPOLE be assigned to this station which is now the southwest gable of the mission house.

39, 40, 46 and 47:

Refer to side headings 39, 40, 46 and 47 of the Compilation Report for T-9650 which are applicable to this map manuscript.

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:

Unless otherwise noted the following geographic names were obtained from recommendations by the Ship EXPLORER shown on a copy of Nautical Chart 9385 which is attached to Descriptive Report RS-389, 390, 391 and 392.

T-9649

Bay Creek
Dewey Creek
Four Mile Point
Grantley Harbor
Igloo Creek
McKinley Creek
Mountain Creek
Mukacharni Mountains
Offield Creek
Port Clarence
Shelman Creek
Six Mile Point
Slate Creek
Sunset Creek
Teller
Teller Mission
The Nook
Alaska
Seward Peninsula

Coyote CreekFrazier Creek (added) ✓Lombard Creek " ✓Red Mountains " ✓Star Creek

Names underlined in
 red are approved. 7-27-51
 L. Heck

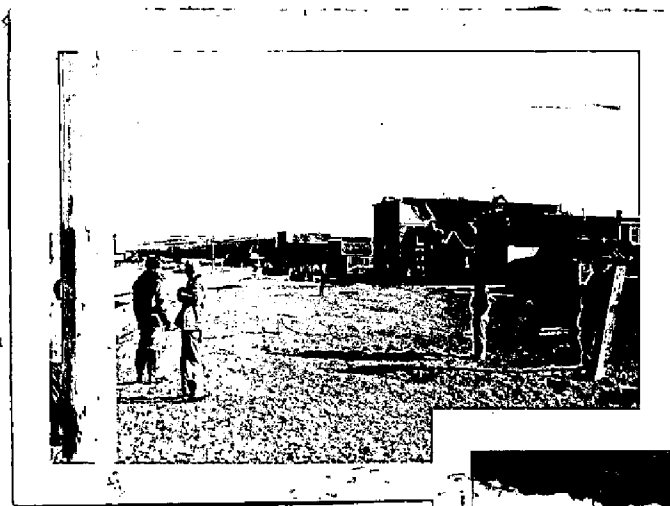
New names are from
 recent report for Project
 CS-341.

49: NOTES FOR THE HYDROGRAPHER:

There are no photo hydro stations shown in the area of this map manuscript.

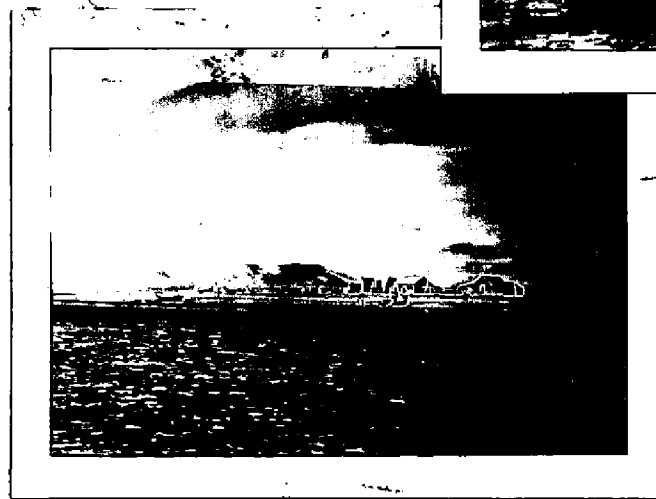
Recoverable Topographic Station

MIS, 1950



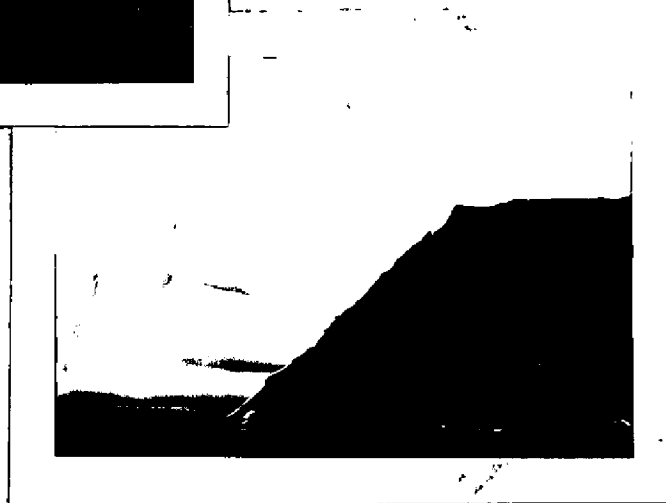
TELLER, ALASKA

TELLER MISSION with RED
MOUNTAINS in background



THE NOOK

CAPE RILEY



PHOTOGRAMMETRIC OFFICE REVIEW

T-9649

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. Rae H. Barron
ReviewerEdward Dean 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:

M-2623-12

REVIEW REPORT T-9649
Planimetric Map
August 8, 1951

62. Comparison with Registered Topographic Surveys.-

T-2525	1:10,000	1900
T-2529	1:40,000	1900

In addition to the horizontal datum difference in longitude, some new cultural features are to be noted - trails, roads, ditches, mining areas, cabins.

63. Comparison with Maps of Other Agencies.-

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

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

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

Not comparable due to vast difference in scale.

64. Comparison with Contemporary Hydrographic Surveys.

H-7837	1:20,000	1950
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Shoreline for H-7837 was obtained from this planimetric survey.

65. Comparison with Nautical Charts:

Charts 9385	1:80,000	January 1949
9380	1:400,000	September 1950
9382	1:1,534,076	December 1950
9400	1:1,587,870	November 1950

Many Trails, drainage, ditches and roads^{on T-9649} are features not appearing on Chart 9385.

The two inland lakes - one north and the other south of the two spits - have a somewhat different configuration than delineated on Chart 9385.

Only areas that are considered to be marsh during the entire period of the short summer season have been delineated as such after office interpretation. Although there are no forests in this subarctic region, this areas has a cover of mosses, lichens, and some thickets which during the first of the thaw in June and July is essentially marsh.

66. Miscellaneous.-

- (a) LANDING FIELD - although no landing strip has been laid out, light planes use the sand spit extending north from TELLER.
- (b) RS 391 at 1:20,000, partially controlled, ^{was} ~~were~~ compiled as preliminary shoreline survey~~s~~ for this project.
- (c) FIELD EDIT - was not more than a shoreline check of the compilation of RS 391.
- (d) CLASSIFICATION - geographic positions of stations in this area are classified "CONFIDENTIAL" and have been removed from this report. All other material of this survey has the classification "RESTRICTED".

67. Adequacy of Manuscript.- This survey complies with project instructions and with the National Standards of Map Accuracy.

Reviewed by:

L. Martin Gazik
L. Martin Gazik

APPROVED

S. V. Gifford 3/19/1953
Chief, Review Section
Div. of Photogrammetry

O. S. Reading
Chief, Div. of Photogrammetry

H. E. Edmonson
Chief, Nautical Chart Branch
Division of Charts *GFV*

Carl O. Heston
Chief, Div. of Coastal Surveys
CRF