

# 9651

Diag. Cht. Nos 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-9651

#### LOCALITY

State TERRITORY OF ALASKA

General locality SEWARD PENINSULA

Locality PORT CLARENCE TO TUKSUK CHANNEL

194 50

#### CHIEF OF PARTY

H.A.Karo-Ship EXPLORER- Field Party

C.W.Clark, Portland Photogrammetric Office

#### LIBRARY & ARCHIVES

DATE March -1 - 1954

B-1870-1 (1)

# 9651

## DATA RECORD

T - 9651

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

Quadrangle Name (IV): Port Clarence to TuksoK Channel

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): 10-7-52

Publication Scale (IV): 1:20,000

Publication date (IV):  
(Date of Issue June 1952)

Geographic Datum (III): N.A. 1927

Vertical Datum (III): 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): WILLOW, 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 the use of the stereoscope. Field season 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 LL Harris

Date: 2-1-51

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

Date: 2-20-51

Stereoscopic Instrument compilation (III):

Planimetry	} None
Contours	

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Manuscript delineated by (III): F.H. Elrod

Date: 4-20-51

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

Date: 4-25-51

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
27916 to 27919 Incl.	7/31/50	10:25*	1:20,000	2.7 ft. above M.L.W.
28019	7/21/50	13:09*	1:20,000	1.1 ft. above M.L.W.
Single lens				
50-0-1963 to 1966 Incl.	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 165° West)  
Subordinate Station:

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

Washington Office Review by (IV): *L. Martin Bazik*

Date: 8-18-51

Final Drafting by (IV): *M. J. Day*

Date: 3-19-52

Drafting verified for reproduction by (IV): *W. M. Halluin*

Date: 6-10-52

Proof Edit by (IV):

*L. Martin Bazik*

Date: 6-11-52

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

51

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

24

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

3

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

10

Recovered: 10

Identified: 2 field

Number of BMs searched for (II):

Recovered:

Identified: 3 office

Number of Recoverable Photo Stations established (III):

1

Number of Temporary Photo Hydro Stations established (III):

Remarks:

SUMMARY T-9651

This series of 1<sup>6</sup> 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 aspect 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 T-9651  
Project Ph-65(50)

Refer to the Descriptive Report for ~~Sherolline~~ ~~Photogram-~~  
~~metric~~ ~~Survey~~ for ~~sheets R.S. 389 to R.S. 392 inclusive Pre-~~  
~~ject CS 341 (1950). T-9647.~~

PHOTOGRAMMETRIC PLOT REPORT  
Map Manuscript T-9651  
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-9651  
Project Ph-65(50)

31 to 34 Incl.:

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

35: SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and alongshore details in the area of this map manuscript was delineated entirely by office examination of the photographs with the use of the stereoscope.

Refer to last sentence, Paragraph 2 of Side Heading 53 "Map Accuracy" of the Descriptive Report for Sheets RS-389 to RS-392 incl., Project CS-341 (1950) for a statement which is the subject of the following comment.

A comparison between the mean high water line shown on RS-391 and that shown on Map Manuscript T-9651 in the vicinity of Cape Riley indicates a general disagreement. Because RS-391 is not drawn on a projection the actual differences in the high water lines between the two maps cannot be truly determined. It is believed that, provided the assumption made at stations LANCE and SPEAR during the running of the radial plot are correct, the mean high water line shown on the map manuscript in the vicinity of Cape Riley is located well within the required limits of accuracy.

There are no low water or shoal lines shown on the map manuscript.

36 and 37:

Refer to side heading 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 stations radially plotted in the area of this map manuscript. One recoverable topographic station was located which is listed in side heading 49.

39, 40, 46 and 47:

Refer to side heading 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 NAMES LIST:

Unless otherwise noted the following geographic names were obtained from recommendations by the Ship EXPLORER shown on a copy of Nautical Chart No. 9385 which is attached to Descriptive Report RS-389, 390, 391 and 392.

T-9651

✓ Bluestone River  
 ✓ Cape Riley  
 ✓ Coyote Creek  
 ✓ Dese Creek  
 ✓ Fox Creek  
 ✓ Grantley Harbor  
 ✓ Offield Creek  
 ✓ Port Clarence  
 ✓ Tuksuk Channel  
 ✓ Willow Creek  
 ✓ Yellowstone Creek

✓ Coyote Creek Dome  
 ✓ Dese Creek Dome

Names underlined in  
 red are approved.  
 8-16-51  
 L. Heck

49: NOTES TO THE HYDROGRAPHER:

Recoverable topographic station:

Azimuth Mark, WILLOW, 1943

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 9651

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 J. 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-9651  
Planimetric Map  
August 16, 1951

62. Comparison with Registered Topographic Surveys

T-2529                      1:40,000                      1900

In addition to the horizontal datum difference in longitude, new features - road and trails, and a more complete drainage pattern are to be noted.

It is recommended that the above survey be superseded for charting purposes.

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.

*No comprehensive comparison possible because of scale difference.*

64. Comparison with Contemporary Hydrographic Surveys

H-7836                      1:20,000                      1950

65. Comparison with Nautical Charts

Charts 9385	1:80,000	January 1949
9380	1:400,000	September 1950
9302	1:1,534,076	December 1950
9400	1:1,587,870	November 1950

Some new features not appearing on Chart 9385 - trails, road and drainage. The islands at the mouth of the BLUESTONE RIVER have a somewhat different configuration than presently shown on the same chart.

Although there are no forests in this subarctic 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) RS 391 at 1:20,000, partially controlled, was compiled as a preliminary reconnaissance survey for this project.

(b) FIELD EDIT - was not more than a shoreline check of the compilation of RS 391

(c) CLASSIFICATION - <sup>DECLASSIFIED 3/2/84 *luc*</sup> 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 Bureau standards, project instructions and with National Standards of Map Accuracy.

Reviewed by:

*L. Martin Gault*  
L. Martin Gault

Approved:

*L. V. Gifford 11/23/53*  
Chief, Review Section  
Div. of Photogrammetry

*M. B. Edmonson*  
Chief, Nautical Chart Branch  
Division of Charts *671*

*O. S. Reading*  
Chief, Div., Photogrammetry  
*luc*

*Carl O. Heaton*  
Chief, Div. of Coastal Surveys  
*SR7*