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Diag. Ch. 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-9648

LOCALITY

~~XXX~~ Territory of Alaska

General locality Seward Peninsula

Locality Point Spencer

— Port Clarence

1945

CHIEF OF PARTY

H. Arnold Karo - Ship EXPLORER - Field

Charles W. Clark - Portland Photogrammetric

Office

LIBRARY & ARCHIVES

DATE Nov 17 - 1954

DATA RECORD

T- 9648

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

Quadrangle Name (IV):

Point Spencer, 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

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

Geographic Datum (III): N.A. 1927

Vertical Datum (III): Mean High Water
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): CLARENCE ASTRONOMICAL, 1900

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 Sept. 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): James L. Harris

Date: 1/30/51

Control checked by (III): Harry J. Atkins

Date: 1/31/51

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

Date: 2/20/51

Stereoscopic Instrument compilation (III):

Planimetry }
Contours } None

Date:

Date:

Manuscript delineated by (III): Helen Laube

Date: 4/12/51

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

Date: 4/17/51

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
27951 to 27953 Incl.	7/31/50	11:00*	1:20,000	2.4 ft. above M.L.L.W.
27906 and 27907 Incl.	7/31/50	9:56*	1:20,000	2.8 ft. above M.L.L.W.
27908	7/31/50	10:04*	1:20,000	2.8 ft. above M.L.L.W.

* 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 Gazik

Date: 7-10-51

Final Drafting by (IV):

M. J. Day

Date: 11-5-51

Drafting verified for reproduction by (IV):

Wm O. Halluin

Date: 6-6-52

Proof Edit by (IV):

L. Martin Gazik

Date: 6-10-54

Land Area (Sq. Statute Miles) (III): 25

Shoreline (More than 200 meters to opposite shore) (III): 47

Shoreline (Less than 200 meters to opposite shore) (III): 2

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 15

Recovered: 15

Identified: 12

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): 10

Remarks:

SUMMARY FOR T-9648

This is one of a series of ~~16~~ planimetric ~~and 2 shore-~~
~~line~~ maps at 1:20,000 scale in project Ph-65(50), covering
the coastline of the SEWARD PENINSULA from CAPE DOUGLAS
northward to the IKPEK LAGOON at the 66° parallel.

The planimetric survey for NOME is separate 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.

FIELD INSPECTION REPORT
Map Manuscript T-9648
Project Ph-65(50)

Refer to the Descriptive Report for ^{Planimetric} ~~Shoreline~~ (Photogram-
metric) Survey ~~for sheets R.S. 389 to R.S. 392 inclusive, Pro-~~
~~ject CS 341 (1950). T-4647~~

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript T-9648
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.

2

COMPILATION REPORT
Map Manuscript No. T-9648
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.

3

35: SHORELINE AND ALONGSHORE DETAILS:

The mean high water line around Point Spencer and along the north shore of Port Clarence was, for the most part, located from measurements made in the field at hydrographic, topographic, and triangulation stations. Where measurements were not available the mean high water line was delineated by office examination of the photographs with the use of the stereoscope.

The field edit notes regarding alongshore details on a print of sheet RS-392 Project CS-341 were applied when compiling this map manuscript.

4

The approximate shoal lines shown on the original compilation of Sheet RS-392 Project CS-341 have not been detailed because a more recent hydrographic survey of the area has been completed.

36 and 37:

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

5

38: CONTROL FOR FUTURE SURVEYS:

The field party identified either directly or by sub station method 10 photo hydro stations to be located by radial plot. For five of these stations sextant fix locations were submitted which were used to verify the stations as located by radial intersections.

Minor discrepancies were noted in the sextant fix for photo hydro station NIT which were brought to the attention of Lt. Comdr. E.L. Jones by notes entered on the reverse side of a duplicate pricking card which also included the sextant fix. It is believed from remarks entered on this card by Lt. Comdr. Jones that station NIT is correctly shown on the map manuscript. The original and duplicate pricking cards for this station are being submitted with this map manuscript.

A sextant fix was also used to verify the radial intersection location of the Azimuth Mark for CLARENCE ASTRO 1943.

Forms 524 are being submitted for Azimuth Mark (Clarence Astro) 1943 and MAP, 1950. No Forms 524 were furnished by the field party for station KID, FOG, DIM, SAT, NUT, WAX, RUM, HOD, and BAR which are believed to be in the same category as station MAP. All are shown as 3rd order stations on the geographic position form submitted as field computations and have been shown with the triangulation symbol on the map manuscript.

Refer to side heading 11, "Other Control" of the Descriptive Report for shoreline sheets RS-389 to RS-392 incl., Project CS-341 (1950) for additional facts. 6

A list of photo hydro and recoverable topographic stations has been prepared and included in paragraph 49. No adequate descriptions were available for the photo hydro stations.*

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. 7

Approved:

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

Respectfully submitted:

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

* Hydrographic surveys for this area were completed before the review of this planimetric survey and photo hydro stations that are shown on the manuscript are not shown on the published maps.

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 No. 9385 which is attached to Descriptive Report RS-389, 390, 391 and 392.

Report on file - 854, L.H.

T-9648

Bering Sea
California River
Don River
Port Clarence
Point Jackson
Point Spencer

Alaska
Seward Peninsula

Names underlined in red
are approved. 7-6-51
L. Heck.

49: NOTES TO THE HYDROGRAPHER:

Photo hydro stations shown on this map manuscript are as follows:

BUM, DOG, GAL, HOP, JUG, LEM, NIT, PIE, PUP, and SOP.

Recoverable topographic station

Azimuth Mark, Clarence Astro, 1943

PHOTOGRAMMETRIC OFFICE REVIEW

T-9640

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. Res. H. Barron
ReviewerJ. Edward Neal 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-9648
Planimetric Map
July 10, 1951

62. Comparison with Registered Topographic Surveys

T-2523	1:40,000	1900
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Beyond the immediate shoreline, topographic features, ponds and drainage of the above survey are ~~===~~ sketchy and generalized for adequate comparison.

The horizontal datum difference has been noted.

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

64. Comparison with Contemporary Hydrographic Surveys

H-7837	1:20,000	1950
H-7838	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

(a) WATER FEATURES - Lakes, ponds and drainage not appearing on the first two above listed charts are shown on this survey beyond the lagoon on the north side of PORT CLARENCE. The CALIFORNIA RIVER and other drainage in the area have braided patterns rather than well-defined channels.

(b) VEGETATION - Although there are no forests in this sub-arctic region, some photographs with inspection notes for other surveys in this project would indicate that this area is covered with a growth of mosses, lichens and some thickets which, during the first of the thaw in June and July is essentially marsh. Only areas that are considered to be marsh during the entire period of the short summer season have been so delineated after office interpretation.

66. Miscellaneous

- (a) RS-391 and 392, partially controlled, were compiled as preliminary shoreline surveys for this project.
- (b) FIELD EDIT - was not a separate or complete operation and was more in the nature of a check of the compilation of RS-391 and 392. See Item 51 of the Photogrammetric Field Report included in the Descriptive Report T-9647.
- (c) TRIANGULATION - FORD, 1900, adjusted to N.A. 1927 datum was not searched for. However, it has been plotted and carried forward on this survey.

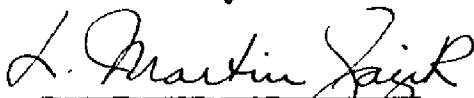
JACKSON, 1900, adjusted to N.A. 1927 datum was not searched for. This station, not carried forward on this survey, plots about 20 meters offshore and should be considered lost. It will be noted that shoreline differences exist in this area between T-2523 (1900) and this survey.

- (d) Information giving geographic positions has been classified "CONFIDENTIAL" and has been removed from this report. All other material of this survey has been classified "RESTRICTED".

67. Adequacy of Manuscript


This survey complies with project instructions and the National Standards of Map Accuracy.

Reviewed by:

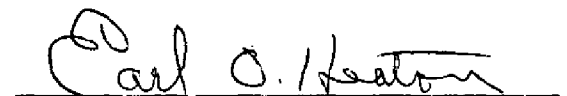

L. Martin Gazik

Approved:


Chief, Review Section
Div. of Photogrammetry


Chief, Nautical Chart Branch
Division of Charts


Chief, Div. of Photogrammetry


Chief, Div. of Coastal Surveys