U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: PLANIMETRIC PHOTOGRAPIOMETRIC

Field No.: Ph-65(50) Office No.: T-9653

LOCALITY
State: TERRITORY OF ALASKA
General locality: SEWARD PENINSULA
Locality: YORK

CHIEF OF PARTY
M.T. Paulson, Field Party
J.C. Lands, Washington, D.C. Photogrammetric Office

LIBRARY & ARCHIVES
DATE: March 1, 1954
DATA RECORD

T-9652

Project No. (II): Ph-65(50) Quadrangle Name (IV): York

Field Office (II): Shishmaref, Alaska Chief of Party: Marvin T. Paulson


Instructions dated (II) (III):
- 9 Nov. 1950 (office)
- 17 Mar. 1949 (Field)
- Ph-16(I;9) and Ph-28(I;7)

Copy filed in Division of Photogrammetry (IV) Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): 0

Scale Factor (III): 1.00

Date received in Washington Office (IV):
- May 26, 1952

Date reported to Nautical Chart Branch (IV):
- Date registered (IV): 2-7-53

Applied to Chart No.

Publication Scale (IV): 1:40,000

Geographic Datum (III): M. A. 1927

Reference Station (III): York, 1950

Lat.: Long.: Adjusted

Plane Coordinates (IV):
- State: Alaska Zone: 3
- 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 Hincly
Date: 6/22/49
to 9/22/49

Planetary contouring by (II): None
Date: -

Completion Surveys by (II): None
Date: -

Mean High Water Location (III) (State date and method of location):
No field inspection of SL Office interpretation only.

Projection and Grids ruled by (IV): W. O.
Date: 4/5/52

Projection and Grids checked by (IV): H. Wolfe
Date: 4/5/52

Control plotted by (III): No control in area of T-9688, see T-9645 & T-9646 for control on adjacent surveys.
Date: -

Control checked by (III): -
Date: -

Radial Plot or Stereoscopic:
Control Extension by (III): R. J. French
Date: 4/10/52

Stereoscopic Instrument compilation (III):
Contouring J. P. Battley
Date: May 1955

Manuscript delineated by (III): J. P. Battley
Date: 5/9/52

Photogrammetric Office Review by (III): R. J. French
Date: 5/12/52

Elevations on Manuscript checked by (II) (III):
None
Date: -
Camera (kind or source) (III):

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>27960</td>
<td>7/31/50</td>
<td>11:08</td>
<td>1/20,000</td>
<td>1.5' above MLW</td>
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<tr>
<td>27961</td>
<td></td>
<td>11:09</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27962</td>
<td></td>
<td>11:10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tide (III)
Reference Station: Dutch Harbor, Alaska
Subordinate Station: Fort Clarence, Cape Riley, Alaska

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2</td>
<td>3.7</td>
<td>1.2</td>
</tr>
</tbody>
</table>

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III): 1.1 miles
Shoreline (Less than 200 meters to opposite shore) (III): --
Control Leveling : Miles (II): --
Number of Triangulation Stations searched for (II): --
Recovered: Identified:
Number of BMs searched for (II): --
Recovered: Identified:
Number of Recoverable Photo Stations established (III): --
Number of Temporary Photo Hydro Stations established (III): --

Remarks:

Date: June 20, 1952
Date: 9-11-52
Date: 9-26-52
Date: 9-29-52

Form T-Page 4
Summary T-9653

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.
SPECIAL COMPILATION REPORT
Map Manuscript No. T-9646
Project Ph-65(50)

The mean high water line and details to illustrate the character of planimetry in the vicinity of station YORK, 1950 have been compiled for this map manuscript from the results of a tentative photogrammetric plot which is described and included in this descriptive report.

The projection of map manuscript T-9646 has been extended westerly to Longitude 167° 42' in order that a mean high water line could be compiled in an area for which no sheet number had been assigned. (T-9653) Junction was made with T-9645 and T-9647.

Due to this tentative radial plot the previously compiled mean high water line which was recently furnished to the Washington Office on T-9645 between Latitudes 65° 30' and 65° 31' 30" has been revised slightly.

For reasons stated in the tentative photogrammetric plot report for this area the mean high water line between Longitudes 167° and 167° 50' may probably be of sub-normal accuracy.

It is believed that accurate planimetry may be compiled for this area provided additional field identifications are made for stations YORK, 1950, LOST RIVER, 1944, PEAK "EAE", and either PEAK "E" or PEAK "FA".

Form 524 is being submitted showing the scaled position of MID, 1950 which was located by radial intersections in this tentative radial plot. The W.O. scaled the position from H-7838 and held to it in a final laydown. The 524 card shows the H-7838 position.

Approved:
Charles W. Clark
Officer-in-Charge

Respectfully submitted:
J. Edward Deal, Jr.
Cartographer
PHOTOMETRIC PLOT REPORT
Map Manuscript T-9635
Project Ph-65(50)

Refer to the Photogrammetric Plot Report for Map Manuscripts T-9615, T-9616 and T-9635 which is filed with T-9646

COMPILATION REPORT
Map Manuscript T-9653

For side headings 31, 32, 33, 34, 35, 36, and 37 refer to the Descriptive Report for Map Manuscript T-9646 Project-65(50)

33. Control for future surveys - none

39. Junctions -

Satisfactory junction was made with T-9645 to the North and T-9646 to the East.

40. Horizontal Accuracy -

This manuscript is midway in the laydown of the final radial plot from Tin City to Kid, and is considered of greater accuracy than the original work submitted as a tentative plot. The shoreline and planimetry are considered adequate.

41. thru 47. Not applicable

48. Geographic Name List - See next page.
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kamauguk River</td>
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<tr>
<td>York Mountains</td>
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<td>Bering Sea</td>
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<td>York</td>
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<tr>
<td>Amikovik River</td>
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</tbody>
</table>

Names underlined in red are approved 7/1/52. L. Healy
62. **Comparison with Registered Topographic Surveys:**

   T-9653 is the first large scale survey of this area and together with the other planimetric maps in this project should serve as a base for any new construction of 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.

   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.

   Steep bluffs that descend at precipitous angles directly into the sea at 65° 26.2' latitude and 167° 31.5' longitude would seem to preclude the existence of a coastal trail along this stretch of shore.

   There are no field inspection notes to verify the existence, or, the lack of such coastal trail.

   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:**

   None contemporary.

65. **Comparison with Nautical Charts:**

<table>
<thead>
<tr>
<th>Chart</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>9380</td>
<td>1:400,000</td>
<td>August, 1951</td>
</tr>
<tr>
<td>9302</td>
<td>1:1,534,076</td>
<td>December, 1950</td>
</tr>
<tr>
<td>9400</td>
<td>1:1,587,870</td>
<td>November, 1950</td>
</tr>
</tbody>
</table>

   A change of about -10° in azimuth of the position of the shoreline of this survey as compared to the shoreline found on Chart 9380 is to be noted. Also see Item 65 of the Review Report in the Descriptive Report for T-9646.

   This comment on the position of the shoreline also applies to the USGS TELLER map, Advance Proof 1951, listed under Item
With the change of shoreline there is also a change in the geographic positions of YORK and the mouth of the ANIKOVIK RIVER. In latitude these two features now are more nearly at 65° 29' than at 65° 30.5' as shown on Chart 9380.

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 them further sub-divided 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) SECURITY INFORMATION - geographic positions of triangulation in this area are "CONFIDENTIAL" and have been removed from this report to permit all the other data to carry the lower classification of "RESTRICTED."

(e) Upon the relaying of the second photogrammetric radial plot, with more and adequate control in the area of the adjacent sheets, further compilation inland was completed and the previous shoreline survey of this area was superseded by this planimetric map.

67. Adequacy of Manuscript:

T-9653 complies with project instructions and National Standards of Map Accuracy.

Reviewed by:

L. Martin Gazik

Approved by:

Chief, Review Section
Division of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

Chief, Div. of Photogrammetry
Chief, Div. of Coastal Surveys