# Descriptive Report

**Type of Survey:** Planimetric

**Field No.:** Ph-29 (47)

**Office No.:** 9356 & 9357

**Locality**

- **State:** Territory of Alaska

- **General Locality:** Beaufort Sea (Arctic Coast)
  - An area about 5 miles wide located 0 to 9 miles interior from the south shore of Beaufort Sea between Kukak Bay and Canning River.

**Chief of Party:**

- A. Earle, Chief of Party
- W. Clark, Portland, Oregon Photogrammetric Office

**Library & Archives**

**Date:** Nov. 6, 1953
DATA RECORD

T-9354 to T-9356 Incl.

Project No. (II): Ph-29(47) Quadrangle Name (IV):


Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: C.W. Clark

Instructions dated (II) (III): 4 February 1948 - Field

14 December 1949 - 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): 7-20-50 Date reported to Nautical Chart Branch (IV): 7-24-50

Applied to Chart No. Date: Date registered (IV): 25 Sept. 1953

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): FLAXMAN ISLAND

(Conversion figures to N.A., 1927 available, Jan. 1953)

* Difference between "level of sea ice" and mean sea level not obtained

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
I.e., mean low water or mean lower low water

See reverse side of this sheet for Corrections to Preliminary N.A., 1927 Datum.

G.B.W., 10-54

Reference Station (III): (See Sub-heading 12 of Office Instructions Ph-29(47) dated 14 December 1949.)

Lat.: Long.: Adjusted Unadjusted

Plane Coordinates (IV):

State: Zone:

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.
The difference between Flaxman Island Datum and preliminary N.A. 1927 Datum is Lat. plus/minus 120 m. and Long. plus/minus 104 m.

The difference between F.I. Datum and preliminary N.A. 1927 Datum is Lat. plus/minus 185 m. and Long. plus/minus 111 m.

The difference between F.I. Datum and preliminary N.A. 1927 Datum is Lat. plus/minus 133 m. and Long. plus/minus 112 m.

The difference between Flaxman Island Datum and preliminary N.A. 1927 Datum is Lat. plus/minus 139 m. and Long. plus/minus 113 m.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DATA RECORD

Field Inspection by (II): C.A.J. Pauw and L.M. Ganoung  Date: Season 1949

Planetary contouring by (II):  Date:

Completion Surveys by (II):  Date:

Mean High Water Location (III) (State date and method of location): From 1949 Field Inspection Data; Shoreline indicated on boat sheets; examination of the photographs with the aid of the stereoscope, and by conference with personnel of the Arctic Party in Seattle, Washington on 1 March 1950.

Projection and Grids ruled by (IV): Washington Office (2nd ruling)  Date: February 1950

Projection and Grids checked by (IV): Washington Office (2nd ruling)  Date: February 1950

Control plotted by (III): R.A. Davidson and Carita Wiebe  Date: 10 March 1950

Control checked by (III): R.A. Davidson, and Carita Wiebe  Date: 10 March 1950

Radial Plot or Stereoscopic Control extension by (III): James L. Harris and J.E. Deal  Date: 13 March 1950 (Final)

Planimetry

Stereoscopic Instrument compilation (III):

Contours

T-9354 - F.H. Elrod
T-9355 - Carita Wiebe

Manuscript delineated by (III):

T-9356 - R.A. Davidson (Final)  Date: 17 March 1950 to 3 April 1950
T-9357 - M.B. Elrod
T-9358 - Helen Laube

Photogrammetric Office Review by (III):  Date: 27 March 1950 to 4 April 1950

Ree H. Barron (all sheets)
(Final)

Elevations on Manuscript checked by (II) (III):  Date: 27 April 1950 to 4 April 1950

Ree H. Barron
PHOTOGRAPHS (III)

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<td>12:12/13</td>
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<td>20186 to 20192</td>
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<td>20225 to 20235</td>
<td>7 - 29 - 47</td>
<td>14:36/46</td>
<td>1:20,000</td>
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</table>

Note: Date and time of above photography was not furnished the photogrammetric office.

Reference Station: Kodiak
Subordinate Station: Flaxman Island, Arctic Ocean

Tide

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<thead>
<tr>
<th>Ratio of Ranges</th>
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<th>Diurnal Range</th>
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<tr>
<td>0.4</td>
<td>0.5</td>
<td>0.7</td>
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</table>

Land Area (Sq. Statute Miles) (III): 390
Shoreline (More than 200 meters to opposite shore) (III): 25.0 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 128.0 statute miles
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 2 Recovered: 2 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:
Summary to Accompany T-9354 to T-9357

Planimetric project Ph-29(47) consists of 69 maps, scale 1:20,000, 26 in Part I (Martin Point westward to Jones Islands), and 43 in Part II (Jones Islands westward to Point Barrow). The project area extends from 143° 10' to 156° 30' west longitude, Arctic Ocean coastal area (Beaufort Sea).

The project was designed to furnish basic surveys for special nautical charts.

T-9354 to T-9357 form part of the Part I group which covers the interior south of Beaufort Sea. They include portions of Kadleroshilik, Shaviorik, and Canning Rivers.
The photogrammetric office was not furnished a detailed field inspection report for Project Ph-29(47).

There are certain field inspection data included in a report submitted by the Arctic Party entitled: "Photogrammetric Control Station Identification, Return Island to Brownlow Point, Arctic Coast, Alaska, Project CS 320, 1949".
Facts relative to the radial plot for these map manuscripts are contained in a Photogrammetric Plot Report for Map manuscripts T-9344 to T-9358 Incl., (1949) which is included in the Descriptive Report for T-9344 to T-9348 Incl., (1949).

T-9353 and T-9358 were later made a part of a radial plot for T-9359 to T-9360. The map manuscript for T-9358 was found to be in error, and it was completely redrawn. (See Descriptive Report T-9358, Revision.)
31: **DELINEATION:**

Map Manuscripts T-9354 to T-9357 incl., include an area about 5 miles wide located approximately 4 to 9 miles interior from the south shore of the Beaufort Sea, between Kadleroshilik River and an upstream area of Canning River. T-9358 includes a shoreline area at the mouth of the Canning River.

Facts contained in paragraphs 2, 3, 4, 5 and 7 of sub-heading 31: "DELINEATION" of the Descriptive Report for T-9340 to T-9343 incl (1949) are in general applicable to these five map manuscripts.

Paragraphs 1, 3, 5 and 6 of sub-heading 31: "DELINEATION" of the Descriptive Report for T-9344 to T-9348 incl. (1949) are applicable to these five map manuscripts.

Paragraph 4 of sub-heading 31 of this report is also applicable if the following river names are substituted for those listed in that paragraph. The Shaviovik, Kadleroshilik, and the Canning. The threaded streams in the upstream areas of two unnamed rivers have also been shown.

The planimetry for all five of these map manuscripts was compiled directly on the correct projections ruled in the Washington Office.

Planimetry for the entire manuscript areas of T-9354 to T-9357 incl. could not be compiled because of insufficient photograph coverage.

32: **CONTROL:** See Descriptive Report T-9358 (Revision).

There are only two horizontal control stations within the area of these five map manuscripts. One of these was identified by the selection of two sub-points and these were held in the radial plot.

Sub-headings 33 to 39 incl. of the Descriptive Report for T-9344 to T-9348 incl. (1949) are applicable to map manuscripts No's. T-9354 to T-9358 incl.

40: **HORIZONTAL AND VERTICAL ACCURACY:**

There is a probability that the planimetry shown on map manuscripts T-9354 to T-9358 incl. is not of the accuracy of that shown on T-9344,
T-9346, T-9347 and T-9349 to T-9353 because of the lack of identified control stations in their areas.

Sub-headings 46 and 47 of the Descriptive Report for T-9344 to T-9348 incl. (1949) are applicable to map manuscripts No's. T-9354 to T-9358 incl.

Approved:
Charles W. Clark
Officer-in-Charge

Respectfully submitted:
J. Edward Deal, Jr.
Cartographer
43: GEOGRAPHIC NAME LIST:

T-9354
  Kadleroshilik River

T-9355
  Shavvik River (old B.S.N. decision: use pending possible revision; hold decision)

T-9356
  No Names

T-9357
  Canning River

T-9358
  Canning River
  Tamajariak Creek (use this spelling pending B.S.N. decision)
  Beaufort Sea

Names underlined in red are approved.

9-10-57
L. Heck

Recommended for title:

Arctic Coast
  Alaska
  Beaufort Sea
PHOTOGRAHMATIC OFFICE REVIEW

T. 9354, R. 9355, T. 9356, T. 9357 & T. 9358


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

ALONGSHORE AREAS
(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines  32. Public land lines

MISCELLANEOUS


40. [Signature] Reviewer

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-9354 to T-9357
Planimetric Maps
10 September 1951

T-9354 Beaufort Sea Coastal Plain, Kadleroshilik River, Alaska
T-9355 " " " " Shaviovik " "
T-9356 " " " "
T-9357 " " " " Canning River "
(Western distributary)

61. These map manuscripts cover interior areas beginning from 1 mi. to 8 mi. from Beaufort Sea.

62. Comparison with Registered Surveys

No previous surveys were made in this area.

63. Comparison with Maps of other Agencies.

None.

64. Comparison with Contemporary Hydrographic Surveys

Not applicable in this series.

65. Comparison with Nautical Charts:

9400 1:1,587,870 (at 70°) ed. May 1947, rev. Nov. 1950

The great difference in scale between T-9354 to T-9357 and the chart affords a basis for only superficial comparison.

66. Control

The only control station within this group falls near the northern limit of T-9355, so that the accuracy of the map manuscripts from T-9354 to T-9357, inclusive, is dependent upon the control held in areas immediately to the north (T-9349 to T-9353).

67. Geographic Names in the area of Part I were reported in "Investigation of Geographic Names, Arctic Coast, Demarcation Point to Anderson Point, Project CS-320, Sept. 1948, and by a supplementary and additional report of the same title, Oct. 1949, submitted by the hydrographic parties.

68. Accuracy

These map manuscripts are adequate for charting purposes.
HORIZONTAL DATUM ADJUSTMENT

ARCTIC OCEAN AREA, ALASKA

Corrections to Preliminary N.A. 1927 Datum from the various independent horizontal datums on the north coast of Alaska have been determined by the Division of Geodesy, being computed from field positions, allowing for closure in azimuth and length. This procedure was started from adjusted N.A. 1927 Datum stations at about the 63rd Parallel on the Canadian Boundary, followed the 141st Meridian (IGC Datum) to Beaufort Sea (Arctic Ocean), thence westward through the Barter Island 1948, Flaxman Island and Point Barrow 1945 Datums to a connection with adjusted N.A. 1927 Datum in the area of Kotzebue Sound, off Chukchi Sea. The position of the stations in this area is subject to further adjustment after more geodetic field work.

PLANIMETRIC MAPPING PROJECT

Ph-29(47) PART I

Jones Islands to vicinity of Barter Island, Alaska

T-9340 thru T-9360 and T-8624 thru T-8628

T-9340 thru T-9360: Flaxman Island Datum, correction in Latitude ranging from minus 3.15 sec. on T-9344 to 4.99 sec. on T-9359, and in Longitude from plus 9.95 sec. on T-9344 to 11.16 sec. on T-9359.

T-8624 thru T-8628: Barter Island 1948 Datum, correction of -1.29 sec. in Latitude and -20.41 sec. in Longitude.

These corrections were converted into meters, and stamped on Page T-2 in each descriptive report and near the title block on each manuscript and cloth-backed recorded map, with the exception that the cloth-backed maps for T-8624 and T-8626 thru 8628 have not been completed. When these maps have been completed, they should be stamped the same as have been their descriptive reports, with the following stamp:

The difference between Flaxman Island Datum and preliminary N.A. 1927 Datum is Lat. minus m. and Long. plus m.

See the Special Report on HORIZONTAL DATUM ADJUSTMENT for Ph-29(47) PARTS I, II, & III, filed with the Completion Report for a project index showing the correction for each map.
# NAUTICAL CHARTS BRANCH

## SURVEY NO. 79356-7

### Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>9474</td>
<td>J. W. Walker et al.</td>
<td>Before After Verification and Review</td>
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.