

9360

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Diag. Cht. No. 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Ph-29 (47) Office No. T-9360

LOCALITY

State ALASKA

General locality BEAUFORT SEA (ARCTIC COAST)

Locality KATAKIURAK RIVER-SIMPSON COVE

1945

CHIEF OF PARTY

R.A. Earle, Chief of Field Party

C.W. Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE June 16 - 1953

DATA RECORD

T-9360

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

Field Office (II): Tigvariak Island, Alaska

Chief of Party: R.A. Earle

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Charles W. Clark

Supplemental Instructions

Instructions dated (II) (III): 4 Feb. 1948 Field
 15 Feb. 1949 Project C.S.320
 8 Mar. 1950

Copy filed in Division of
 Photogrammetry (IV)

14 Dec. 1949 Office
 9 Nov. 1950

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): JUL 16 1951 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

24 Dec 1952

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): ~~N.A. 1927~~
Flaxman Island

Planimetry = Mean High Water
 Vertical Datum (III): Mean Lower Low
 Elevations = Water (Ice Surface) *

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

153 m. and Long. plus/minus 118 m. G.S.N.-10-54.

* Note: Difference in elevation between
 mean sea level and level of sea ice not obtained.

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): (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.

Areas contoured by various personnel
(Show name within area)
(II) (III)

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
20164 & 20165	7/29/47	12:28	1:20,000	0.6 ft. above M.L.L.W.
20182 thru 20186	7/29/47	12:57	1:20,000	0.5 ft. above M.L.L.W.

Tide (III)

Reference Station: Kodiak, Alaska
 Subordinate Station: Flaxman Island, Alaska
 Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal Spring
		Range
	6.6	8.5
0.1	0.5	0.7

Washington Office Review by (IV): L.T. Stevens

Date: 9-18-51

Final Drafting by (IV): *Berto. J. J. J.*

Date:

Drafting verified for reproduction by (IV): *G.M. Breene*

Date: 7/23/52

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 95

Shoreline (More than 200 meters to opposite shore) (III): 36

Shoreline (Less than 200 meters to opposite shore) (III): 13

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): 4*

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

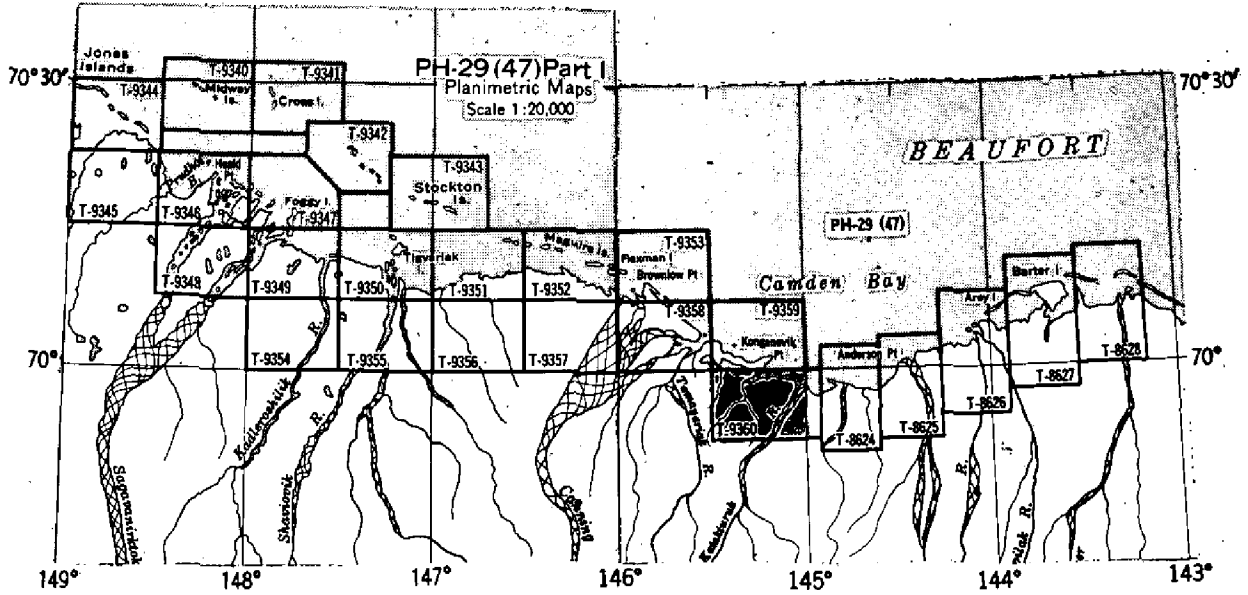
*Positions for the above recoverable topographic stations are listed under Geographic Positions Accession #G-8699, page 2, Field Computations CAMDEN BAY, and it is assumed that forms 524 have been submitted by the Arctic Party.

The forms 524 were submitted to Geodesy together with forms 525 and 526. Second, third and fourth order stations in this project received field computation.

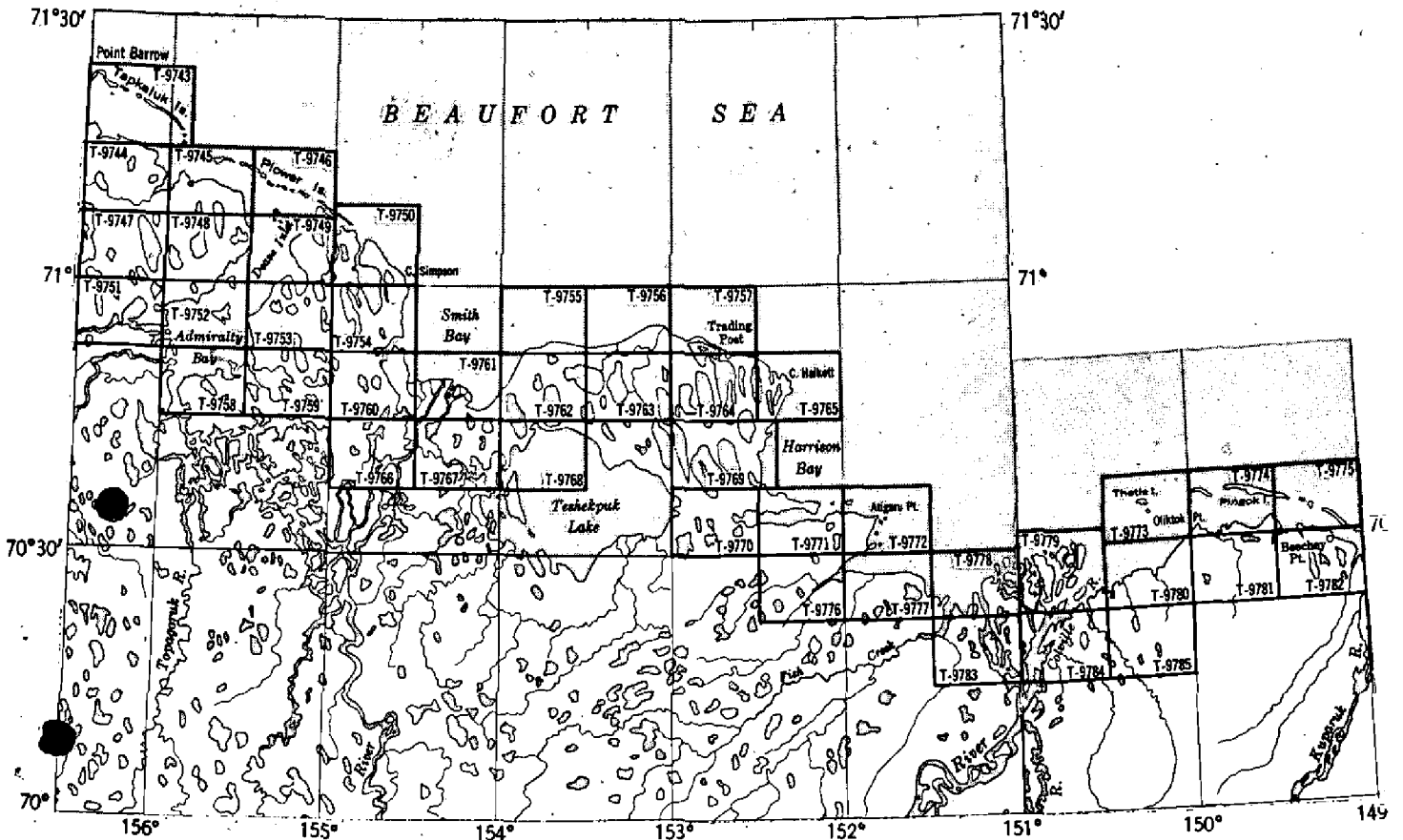
PLANIMETRIC MAPPING PROJECT PH-29(47)

Photographs taken July 1947 Scale 1:20,000

Part I ALASKA Barter Island to Jones Islands



Part II ALASKA Jones Islands to Point Barrow



SUMMARY TO ACCOMPANY T-9360

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

This project was designed as surveys for new nautical charts at a much larger scale than the present regional chart, and to furnish bases to the U. S. Geological Survey for projected topographic maps.

T-9360 is one of the Part I group. It includes KATAKIURAK RIVER and other drainage into Camden Bay.

* * * * *

When all the map manuscripts in this project have been reviewed, smooth-drafted, reproduced, and registered, a Completion Report will be filed in the Bureau Archives. This report will describe the project in its entirety.

FIELD INSPECTION REPORT
Map Manuscript T-9360
Project Ph-29(47)

Refer to:

FIELD INSPECTION REPORT
Brownlow Point to Camden Bay
Arctic North Coast of Alaska
Project CS-320
1950
R.A. Earle, Chief of Party

*Filed in Archives with
Completion Report*

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript T-9360
Project Ph-29 (47)

ca
Facts relative to the radial plot for this map manuscript are contained in Photogrammetric Plot Report for T-9353 (revision), T-9358 (revision), T-9359 and T-9360 which is included with the descriptive report for T-9358 (revision), 1950

COMPILATION REPORT
Map Manuscript T-9360
Project Ph-29(47)

31: DELINEATION:

Paragraphs 2 to 4 incl. of side heading 31: "Delineation" and side headings 32 to 37 incl. of the Compilation Report for T-9358(1950)(Revision) are applicable to this map manuscript.

38: CONTROL FOR FUTURE SURVEYS:

Not applicable to the compilation work. There are four recoverable topographic stations plotted on the map manuscript which were located by the 1950 Arctic Party.

Side headings 39 to 41 incl. and 47 of the Compilation Report for T-9358 (Revision) are applicable to this map manuscript.

Approved:

Charles W. Clark
Charles W. Clark
Chief of Party

Respectfully submitted:

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

48: GEOGRAPHIC NAMES LIST:

- ✓ Camden Bay
- ✓ Collinson Point
- ✓ Katakturak River
- ✓ Simpson Cove

Names approved
9-18-51
A. J. W.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9360

- 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. Reed H. Barron 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-9360
Planimetric Map
18 September 1951

61. General Statement

There is a marked difference in terrain between the area of this map manuscript and those to the westward. The plains are more grassy. They are also wet for two or three miles inward from the shore, but no ponds occur, except in a small flat area at $69^{\circ} 57'$ latitude, $145^{\circ} 30'$ longitude. The plains rise gradually toward the mountains south of the mapped area, and deep valley drainage assumes a pattern with hills between stream tributaries.

In the southeastern portion of the map manuscript a series of parallel ridges dip seaward, indicating a much higher and rougher terrain to the south.

62. Comparison with Registered Topographic Surveys

No earlier surveys have been made for this area.

63. Comparison with Maps of Other Agencies

None

64. Comparison with Contemporary Hydrographic Surveys

H-7853 1:20,000 1950 (Boat Sheet ARN 2250)

No off-shore bars occur in this area, so that no boat sheet data was transferred to T-9360.

65. Comparison with Nautical Charts

9400 1:1,587,870 (at $70^{\circ} 00'$) ed. May 1947, rev. Nov. 1950.

No discrepancies noted.

66. Accuracy

The shoreline area on T-9360 meets the requirements of the National Standards of Accuracy. The interior is not ^{so} well controlled, but picture centers and radial cuts are so placed that the delineation is adequate for charting purposes.

67. Geographic Names

The names in this project from "Geographic Names Report, Alaska Arctic Coast, Demarcation Point to Cross Island, Project CS-320", submitted by the hydrographic party (no signature), September 1948. Supplementary and Additional Names, same area, was submitted October 1949.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

Approved by:

S. V. Griffith
Chief, Review Section
Div., Photogrammetry

W. Edmister
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div., Photogrammetry

Carl O. Heston
Chief, Div., Coastal Surveys

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 (IBG 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:

2001-55

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

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.