

9359

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Diag. Cnt. 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-9359

LOCALITY

State TERRITORY OF ALASKA

General locality BEAUFORT SEA (ARCTIC COAST)

Locality KANGIGIVIK POINT

19A 50

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-9359

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 Copy filed in Division of
 15 Feb. 1949 Field Photogrammetry (IV)
 8 Mar. 1951 Project C.S. 320
 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): 7/16/51 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): Flaxman Island

The difference between Flaxman Island Datum
 and preliminary N.A. 1927 Datum is Lat. ~~plus~~/minus
155 m. and Long. ~~plus~~/minus 118 m. G.B.W. 10-54

Vertical Datum (III): Mean High Water
 Elevations: (Ice Surface)*
 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

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

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.

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
20162 & 20163	7/29/47	12:25		1:20,000	0.6 ft. above M.L.L.W.
20276	7/29/47	16:11		1:20,000	0.3 ft. above M.L.L.W.

Tide (III)

Reference Station: Kodiak, Alaska $H @ 111.32 = 5.6$
 $L " 101.73 = 3.4$
 Subordinate Station: Flexman Island, Alaska $101.52 = 0.278$
 $110.42 = 0.224$
 Subordinate Station: -0.40

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): *Bulto. yfrie*

Date:

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

Date: 7/22/52

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 8

Shoreline (More than 200 meters to opposite shore) (III): 15

Shoreline (Less than 200 meters to opposite shore) (III): 1

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): 8*

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

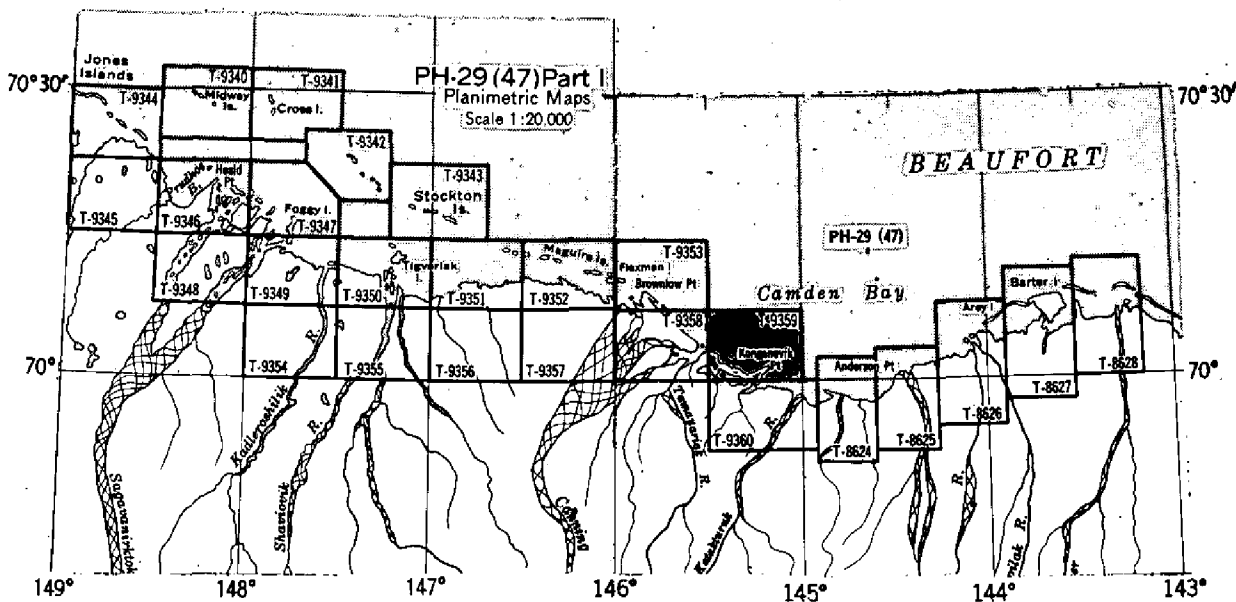
Remarks:

*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.

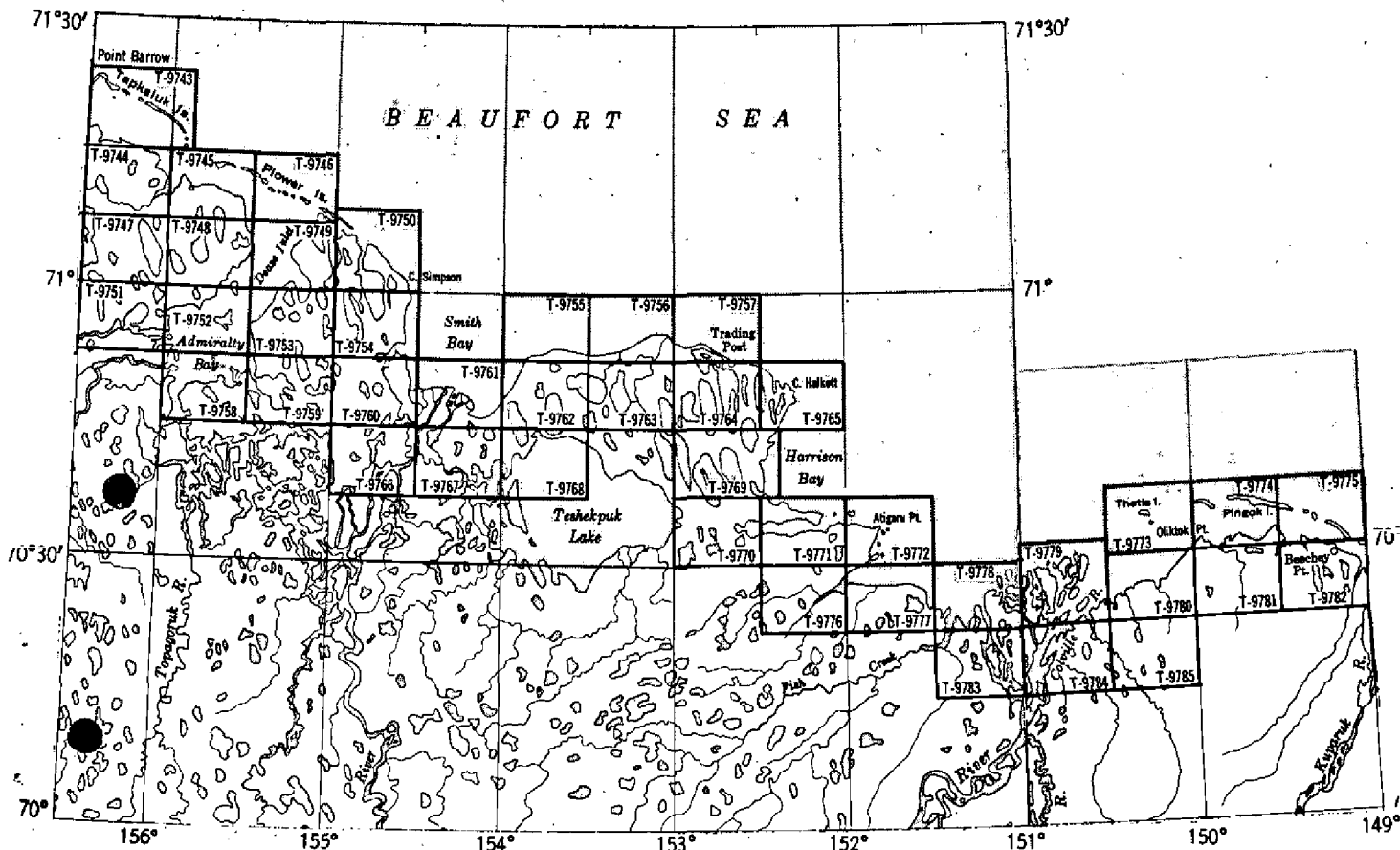
PLANIMETRIC MAPPING PROJECT PH-29(47)

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-9359

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 nautical chart, and to furnish bases to the U. S. Geological Survey for projected topographic maps.

T-9359 is one of the Part I group. It includes Kangigivik Point, the western boundary for 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-9359
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

*Library & Archives
with Completion Report*

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript T-9359
Project Ph-29(47)

Facts relative to the radial plot for this map manuscript are contained in a 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-9359
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 eight 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:

Beaufort Sea

Camden Bay

~~Kangigivek Point~~

Konganevik Pt.

Kangigivek Pt

LA
7-24-52

Names approved

9-18-51

a. d. w.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9359

- 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
 Reviewer

J. Edward Deal 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:

Review Report T-9359
Planimetric Map
18 September 1951

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 2250a)

The barrier islands were delineated from the 1947 photographs, without benefit of field inspection. This delineation resulted in leaving control in the water area.

In compliance with project instructions (Dec. 14, 1949) these off-shore bars were redelineated during review, by using the boat sheet. This redelineation brings the bars in proper relationship to the control. A note was added giving the source of the information.

65. Comparison with Nautical Charts:

9400 1:1,587,870 (at 70°00') ed. May 1947, rev. Nov. 1950
Scale difference precludes a detailed comparison.

66. Accuracy:

This map manuscript meets the National Standards of Map Accuracy. Five 2nd order, one 3rd order, and seven 4th order control stations fall within the delineated area. The off-shore bars are correct as of August 1950.

67. Geographic Names:

The names in this project are 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

J. C. Swenson
Chief, Nautical Chart Branch
Div. of Charts *BFJ*

Approved by:

S. V. Griffith
Chief, Review Section *B*
Division of Photogrammetry

Carl O. Henton
Chief, Division of Coastal
Surveys *CRF*

O. S. Reading
Chief, Div. of Photogrammetry

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 (IBC 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:

RBN. 1-55
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.