

9752

9753

Diag. Cht. No. 9400

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey PlanimetricField No. Ph-29(47) II Office No. T-9752 & T-9753

## LOCALITY

State AlaskaGeneral locality Beaufort Sea, North Arctic CoastLocality Oarlock Island, Wright Point, DeaseInlet, Admiralty Bay1951

## CHIEF OF PARTY

Max G. Ricketts, Chief of Party

Fred A. Riddell, Portland, Oregon, Photo-  
grammetric Office

LIBRARY &amp; ARCHIVES

DATE May 5, 1955

B-1870-1 (1)

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## DATA RECORD

T-9752 and T-9753

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

Field Office (II): Arctic Field Party (West Unit)      Chief of Party: Max G. Ricketts

Photogrammetric Office (III): Portland, Oregon      Officer-in-Charge: Fred A. Riddell

Instructions dated (II) (III): 1/13/48, 3/8/50, 2/6/51, 3/16/51 (Field) Copy filed in Division of  
12/14/49, 1/27/50, 11/9/50, 11/23/51 (Office)      Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): SEP 16 1952      Date reported to Nautical Chart Branch (IV): SEP 25 1952

Applied to Chart No.

Date:

Date registered (IV): 25 June, 1954

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): Point Barrow

Vertical Datum (III): ~~Mean Sea Level~~ <sup>High Water</sup>*Correction figures & NAD 1927  
now available Jan. 1953*

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*The difference between Point Barrow, 1945 Datum  
and preliminary N.A. 1927 Datum is Lat. plus/minus  
40 m. and Long. plus/minus 151 m. G.B.W. 8/54 ✓ Rel.*Reference Station (III): (See paragraph 12 of Office Instructions Project 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)

## DATA RECORD

Field Inspection by (II): **Leo W. Eason II**Date: **2 Sept. 1951**

Planetable contouring by (II): \_\_\_\_\_

Date:

Completion Surveys by (II): \_\_\_\_\_

Date:

Mean High Water Location (III) (State date and method of location): **Delineated by stereoscopic examination of photographs with the aid of spot locations shown on reverse side of field photographs.**

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): **L.L. Graves, R.O. Risvold**Date: **3-20-52**Control checked by (III): **R.O. Risvold, & R.H. Barron**Date: **3-24-52**

Radial Plot or Stereoscopic **J.L. Harris & J.E. Deal**  
Control extension by (III):

Date: **4-9-52**

Planimetry  
Stereoscopic Instrument compilation (III):

Date:

Contours

Date:

Manuscript delineated by (III): **T-9752 L.L. Graves**  
**T-9753 J.L. Harris**

Date: **7-2-52**  
**8-7-52**

Photogrammetric Office Review by (III): **T-9752 J.E. Deal**  
**T-9753 J.E. Deal**

Date: **7-18-52**  
**7-22-52**

Elevations on Manuscript **J.E. Deal**  
checked by (II) (III):

Date: **7-22-52**

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
19972	7/20/47	16:45	1:20000	0.5 ' above M.L.L.W.
19975 thru 19978	7/20/47	16:54	1:20000	0.45' above M.L.L.W.
19992 thru 19997	7/20/47	17:20	1:20000	0.4 ' above M.L.L.W.
20003 thru 20005	7/20/47	17:42	1:20000	0.3 ' above M.L.L.W.

## Tide (III)

Reference Station: Kodiak, Alaska  
 Subordinate Station:  
 Subordinate Station:

## Diurnal

Ratio of Ranges	Mean Range	Spring Range
	6.6	8.5
0.1	0.4	0.5

Washington Office Review by (IV):

Date: 19 Jan. 1953

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 85.5

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

51.1

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

3.5

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

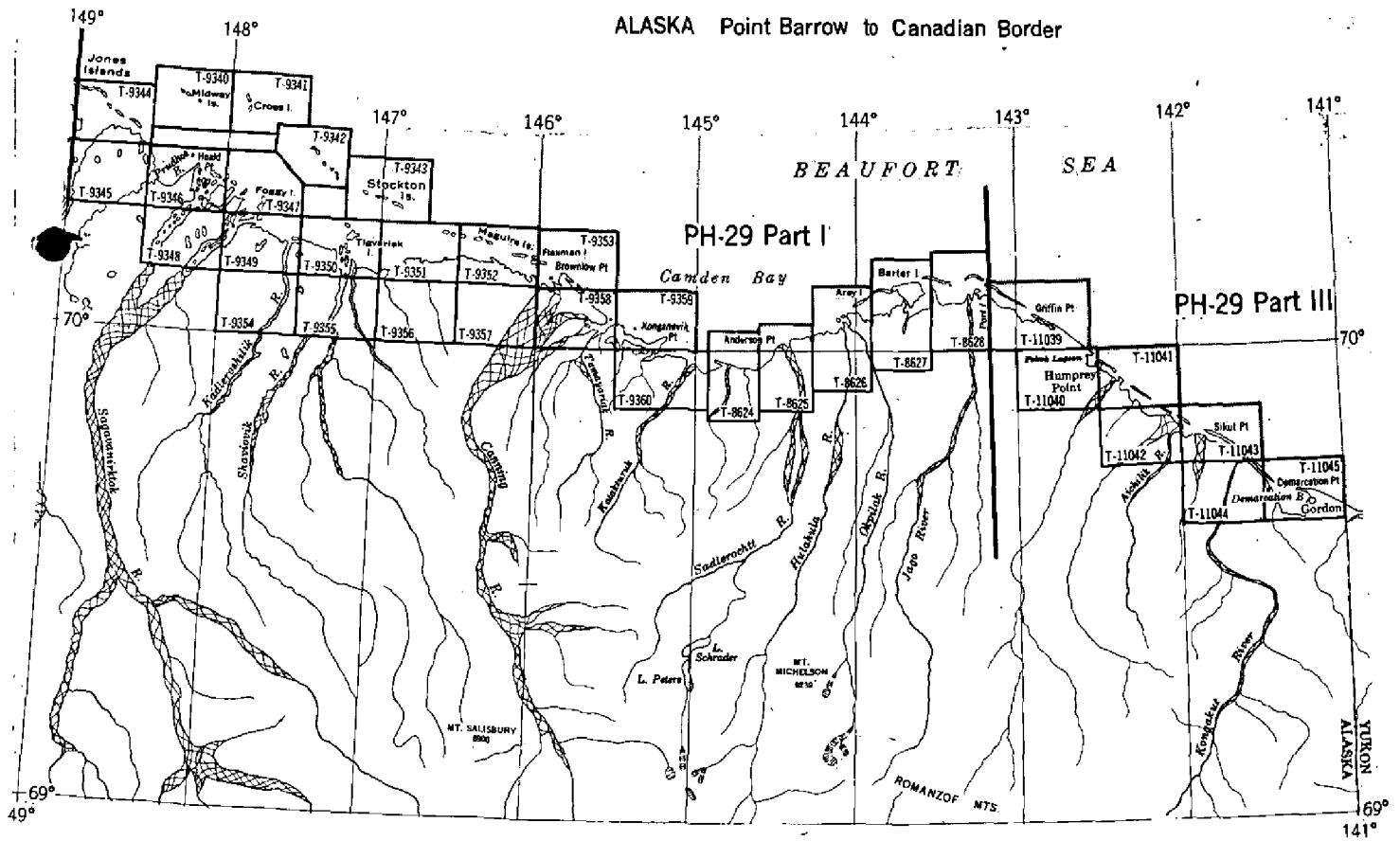
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

# PLANIMETRIC MAPPING PROJECT PH-29 I-II-III

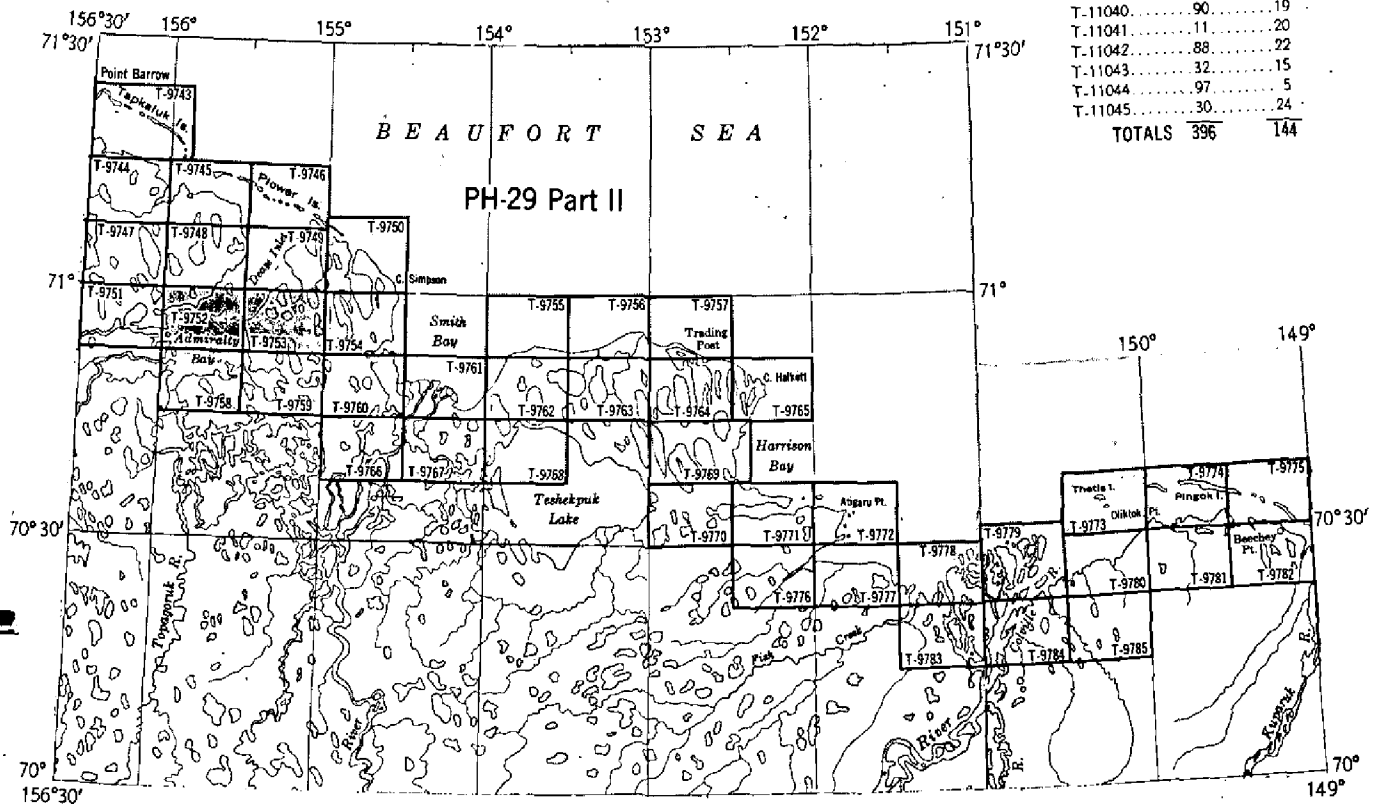
ALASKA Point Barrow to Canadian Border



PH-29 Part III

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles Area	Lin. Miles Shoreline
T-11039	48	39
T-11040	90	19
T-11041	11	20
T-11042	88	22
T-11043	32	15
T-11044	97	5
T-11045	30	24
<b>TOTALS</b>	<b>396</b>	<b>144</b>



Photographs taken July 1947 Scale 1:20,000

Summary to Accompany  
Descriptive Report T-9752-53

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 to Point Barrow). The project covers that part of the Arctic Ocean coastal area (Beaufort Sea) which extends from  $143^{\circ} 10'$  to  $156^{\circ} 30'$  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-9752-53 includes Admiralty Bay and the interior to the east of the bay.

When all the map manuscripts in this project have been reviewed, smooth drafted, 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 Manuscripts T-9752 and T-9753  
Project Ph-29(47) II

Refer to Descriptive Report "Shoreline - Photogrammetric,  
Alaska, North Arctic Coast, Point Barrow to Cape Halkett, 1951"  
Max G. Ricketts, Chief of Party.

*To be filed in Archives with Completion Report*

PHOTOGRAMMETRIC PLOT REPORT  
Map Manuscripts T-9752 and T-9753  
Project Ph-29(47) II

Refer to the combined Photogrammetric Plot Report for  
T-9743 thru T-9754 and T-9758 which is included in the Descriptive  
Report for T-9743 thru T-9746 Project Ph-29(47) II (1951).

COMPILATION REPORT  
Map Manuscripts T-9752 and T-9753  
Project Ph-29(47) II

These two map manuscripts portray the shoreline and planimetric details of a strip of land south of Cape Simpson, about 8 miles wide, from Smith Bay to Admiralty Bay.

Side headings 31, 32, 33, 34, 35, 36, 37, 38, 40, 46, and 47 of the Descriptive Report for T-9743 thru T-9746 are in general applicable except for remarks pertaining to offshore barrier island.

39. Junctions.

Satisfactory junctions have been made between all map manuscripts included in this compilation report and with all other adjoining map manuscripts.

Approved:

*Fred A. Riddell*

Fred A. Riddell  
Officer in Charge  
Portland Photogrammetric Office

Respectfully Submitted:

*J. Edward Deal, Jr.*

J. Edward Deal, Jr.  
Cartographer

48. Geographic Names List.

The geographic names report, side heading XIV of the field inspection report was not furnished the compilation office.

The following were from sources listed below:

T-9752

- Admiralty Bay
- Dease Inlet
- Kikiktak Islands\*
- McLavish Point
- Mende River
- Carlock Island
- Tiny Island
- Wright Point

Inaru River (into Admiralty Bay just north of delta of Mende R)

T-9753

- Admiralty Bay
- Dease Inlet

Names underlined in red are approved  
1-22-53  
L. HECK

Sources:

Nautical Chart Nos. 9400 - 9445 - 9495

Various Aeronautical Charts of Area

Field Inspection Notes

Descriptions of Stations

\* This name is o.k., but project names report recommends its deletion, since the group is so small, and the individual islands are named.  
L. H.

Review Report T-9752-53  
Planimetric Maps  
19 January 1953

62. Comparison with Registered Surveys.-There are no earlier surveys for this area.

63. Comparison with Maps of other Agencies.- None

64. Comparison with Contemporary Hydrographic Surveys.-

H-7920 1:40,000 1951-2  
Not available for comparison

65. Comparison with Nautical Charts.-

9400 1:1,587,870 at 70°, May 1947, rev. June 1952  
No record is attached to the descriptive report to indicate that these map manuscripts have been applied to charts prior to review.

66. Accuracy.-These map manuscripts fell within a well controlled area. The delineation meets the National Standards of Accuracy.

67. Junctions.-T-9759 joins T-9753 on the south. It was not yet compiled at the time of this review.

Reviewed by:

Lena T. Stevens  
Lena T. Stevens

APPROVED BY:

L. C. Lande  
Chief, Review Section  
Div. of Photogrammetry

W. Swanson  
Chief, Div. of Photogrammetry

3 May 1955

W. H. Mendenhall  
Chief, Nautical Chart Branch  
Division of Charts

Carl O. Heston  
Chief, Div. of 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 (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 II

#### Point Barrow to Jones Island, Alaska

#### T-9743 thru T-9785

T-9743 thru T-9772: Point Barrow 1945 Datum, correction to Preliminary N.A. 1927 Datum in Latitude is +1.30 sec. on all the maps, and in Longitude, ranges from -14.93 sec. on T-9743 to -15.26 sec. on T-9772. These corrections were converted into meters, and stamped on page T-2 of each Descriptive Report, and near the title block of each manuscript and registered cloth-backed map, with the following stamp:

T-9773 thru T-9785: Flaxman Island Datum, correction to Preliminary N.A. 1927 Datum use ranges from -1.26 sec. on T-9777 to -3.00 sec. on T-9782, and in Longitude from plus 8.95 sec. on T-9777 to plus 9.90 sec. on T-9782. These corrections were stamped on page T-2 of each Descriptive Report, and near the title block of each manuscript and cloth-backed registered map, with the exception that the cloth-backed maps have not been completed for T-9777, T-9779 thru 9782, and T-9784-9785. When these maps are completed they should be stamped the same as have been their descriptive reports, with the following stamp:

The difference between Point Barrow, 1945 Datum  
and preliminary N.A. 1927 Datum is Lat. plus/minus  
~~X~~ m. and Long. ~~plus/minus~~ ~~X~~ 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.