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Diagram Chart No. 9700 Form 604	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric
Field No.	Office No. T-9748 thru T-9750
LOCALITY	
Territory	
State	Alaska
General locality	Beaufort Sea, North Arctic Coast.
Locality	Cape Simpson, Dease Inlet
194/ 51	
CHIEF OF PARTY	
Max G. Ricketts, Chief of Party	
Fred A. Riddell, Portland, Oregon	
Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	MAY 4, 1955

## DATA RECORD

T -9748 thru T-9750

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  
Photogrammetry (IV)

12/14/49, 1/27/50, 11/9/50, 11/23/51 (Office)

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): 19 July, 1954

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): Point Barrow

*Correction figures to N.A. 1927  
now available**Jan. 1953**The difference between Point Barrow, 1945 Datum  
and preliminary N.A. 1927 Datum is Lat. plus/minus 40 m.  
and Long. plus/minus 150 m. *G.B.W. 854**Vertical Datum (III): *High Water*  
Mean Sea Level

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 paragraph 12 of Office Instructions Ph-29(47)  
dated 14 December 1949) *No form No. 2382-12*

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.

[illegible]

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):  
Contours

Date:

Date:

Manuscript delineated by (III): **See reverse side**

Date:

Photogrammetric Office Review by (III): **See reverse side**

Date:

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

Date: **8-21-52**

Manuscript delineated by:-	Shoreline	Date	Interior	Date
		52		
T-9748	V. Serena	4/15/52	C. Wiebe	8/5/52
T-9749	I. Zirple	4/11/52	J.L. Harris	7/11/52
T-9750	C. Wiebe	4/14/52	R.H. Barron	7/11/52

Manuscript reviewed by :-	Shoreline	Date	Interior	Date
T-9748	R.H. Barron	4/17/52	J.E. Deal	8/7/52
T-9749	R.H. Barron	4/18/52	J.E. Deal	7/21/52
T-9750	R.H. Barron	4/22/52	J.E. Deal	7/24/52

Camera (kind or source) (III): U.S.C. &amp; G.S. - 9 lens - focal length 8.25 inches

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
19380 thru 19883	7/20/47	13:48	1:20000	0.8 ' above M.L.L.W.
1947 " 19949	7/20/47	15:58	1:20000	0.65' above M.L.L.W.
19967 and 19968	7/20/47	16:40	1:20000	0.5 ' above M.L.L.W.
19970 and 19971	7/20/47	16:43	1:20000	0.5 ' above M.L.L.W.
19979 thru 19981	7/20/47	16:58	1:20000	0.45' above M.L.L.W.
19991	7/20/47	17:16	1:20000	0.4 ' above M.L.L.W.

## Tide (III)

Reference Station: Kodiak, Alaska  
 Subordinate Station: Point Barrow  
 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:

Final Drafting by (IV): *Robinson A.J.*Date: *8-24-53*Drafting verified for reproduction by (IV): *W.O. Hallum*Date: *8-26-53*  
*8-28-53*  
*9-14-53*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **115.7**Shoreline (More than 200 meters to opposite shore) (III): **82.4**Shoreline (Less than 200 meters to opposite shore) (III): **9.2**

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):

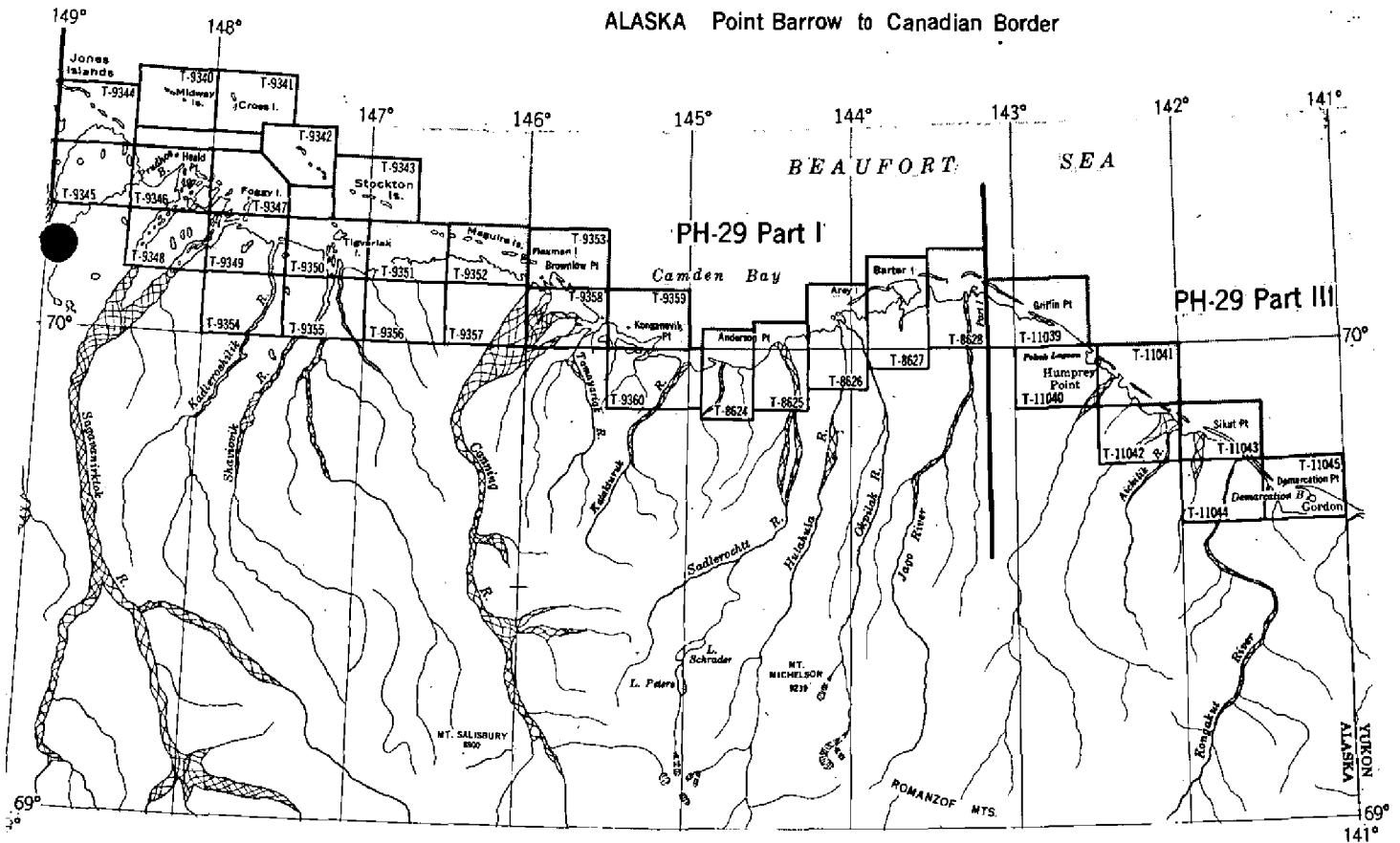
Number of Temporary Photo Hydro Stations established (III):

Remarks:



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

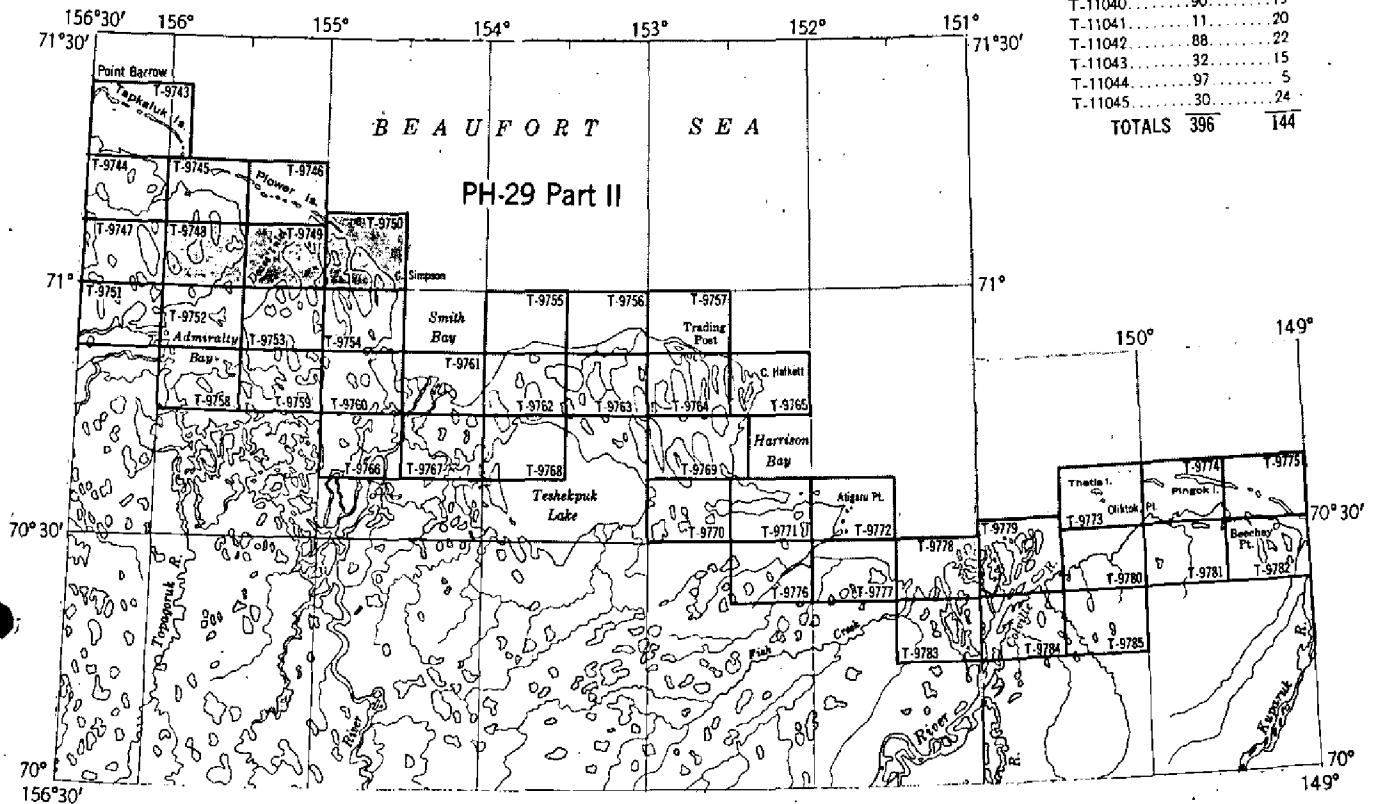
ALASKA Point Barrow to Canadian Border



## 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>



Summary to Accompany  
Descriptive Report T-9748-50

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  $143^{\circ} 10'$  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.

Manuscripts T-9748 to 50 extend from  $156^{\circ} 00'$  eastward to  $154^{\circ} 30'$ , that is, from the land area on the west side of Dease Inlet eastward to Cape Simpson on Smith 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.



FIELD INSPECTION REPORT  
Map Manuscripts T-9748 thru T-9750  
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-9748 thru T-9750  
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-9748 thru T-9750  
Project Ph-29(47) II

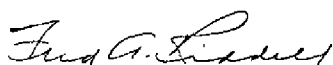
These three map manuscripts portray the shoreline and planimetry adjacent to Beaufort Sea from Cape Simpson to Dease Inlet and both shores of Dease Inlet from Elson Lagoon to Tiny Island.

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 islands.

39. Junctions.

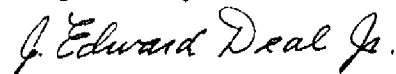
Satisfactory junctions have been made between all map manuscripts included in this compilation report and with all other adjoining map manuscripts.

Approved:



Fred A. Riddell  
Officer in Charge  
Portland Photogrammetric Office

Respectfully Submitted:



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-9748

Dease Inlet ✓  
Tiny Island

T-9749

Dease Inlet ✓  
Mackay Inlet ✓

T-9750

Beaufort Sea ✓  
Mackay Inlet ✓  
Tulimanik Island ✓  
Tulimanik (Ruins) ✓

*Names underlined in  
red are approved. 1-12-53  
- Heck*

Sources:

Nautical Charts Nos. 9400 - 9445 - 9495

Various Aeronautical Charts of Area

Field Inspection Notes

Descriptions of Stations



## 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 (IEC 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.



Review Report T-9748-50  
Planimetric Maps  
9 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 1951 Plover Islands to Cape Simpson  
This survey was not completed in 1950. It was returned to the field in 1952 for additional work, and was not available for review of T-9748-50.

65. Comparison with 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 manuscripts have been applied to the chart prior to review.

The scale of the chart affords little basis for shoreline comparison, and it shows no interior detail.

66. Accuracy.- Effective control in this group was well distributed, and delineation was well executed, so that the maps meet the National Standards of Accuracy.

The control in this area has not yet been adjusted from Point Barrow datum to NA 1927. (see p. 2 data record)

Reviewed by:

Lena T. Stevens  
Lena T. Stevens

APPROVED BY:

H. C. Landy  
Chief, Review Section  
Div. of Photogrammetry

W. E. Swanson  
Chief, Div. of Photogrammetry

3 May 1953

H. C. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts

Carl O. Heston  
Chief, Div. of Coastal Surveys

T.9748 } applied to clst 9403 thru clst 9465. HELM. abs. 53  
T.9749 }  
T.9750 }

T.9750 applied to clst 9403 thru clst 9466. HELM. abs. 1953