Original copy

[redacted]
9758

Diagram Chart No. 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. ..... *Office No.* T-9758

LOCALITY

Territory ~~State~~ Alaska

General locality Beaufort Sea, North Arctic Coast.

Locality Admiralty Bay

1951

CHIEF OF PARTY

Max G. Ricketts, Chief of Party

Fred A. Riddell, Portland, Oregon Photogrammetric Office

LIBRARY & ARCHIVES

DATE MAY 4 1955

8-1870-1 (1)

9758 [redacted]

DATA RECORD

T-9758

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 12/14/49, 1/27/50, 11/9/50, 11/23/51 Office Copy filed in Division of 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): 19 July, 1954

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): Point Barrow Vertical Datum (III): Mean ~~Sea Level~~ High Water

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

Correction figures to N.A. 1927 are now available.
LTS, Mar. 1953

The difference between Point Barrow, 1945 Datum and preliminary N.A. 1927 Datum is Lat. plus/~~minus~~ 40 m. and Long. ~~plus~~/minus 153 m. G.B.W., 8/54 rcl.

Reference Station (III): (See paragraph 12 of Office Instructions Project Ph-29(47) dated 14 December 1949)

Lat.: Long.: ~~Adjusted~~ Unadjusted

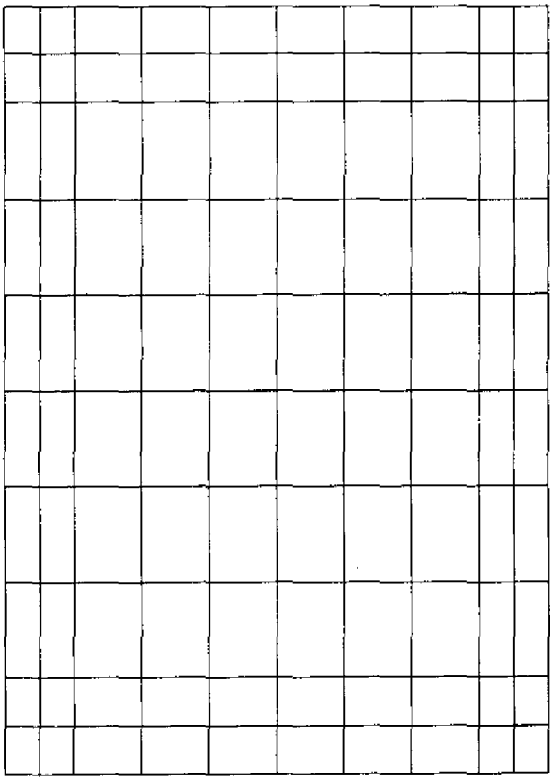
Plane Coordinates (IV): State: Zone:

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.

M-2618-12(4)



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

DATA RECORD

Field Inspection by (II): Leo W. Eason II Date: 2nd 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 in compilation office.

Projection and Grids ruled by (IV): Date:

Projection and Grids checked by (IV): Date:

Control plotted by (III): L.L. Graves Date: 3-20-52

Control checked by (III): R.O. Risvold Date: 3-24-52

Radial Plot or Stereoscopic Control extension by (III): J.L. Harris & J.E. Deal Date: 4-9-52

Stereoscopic Instrument compilation (III): Planimetry Date:

Contours Date:

Manuscript delineated by (III): R.H. Barron, Fred A. Riddell Date: 7-17-52

Photogrammetric Office Review by (III): J.E. Deal Date: 8-5-52

Elevations on Manuscript checked by (II) (III): None Date:

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
20002	7/20/47	17:41	1:20000	0.4 ft. above M.L.L.W.

Tide (III)

Diurnal

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

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

Washington Office Review by (IV): Lena T. Stevens Date: 27 Nov, 1953

Final Drafting by (IV): M P Taylor Date: 10-12-53

Drafting verified for reproduction by (IV): W W Hallin Date: 10-13-53

Proof Edit by (IV): Date:

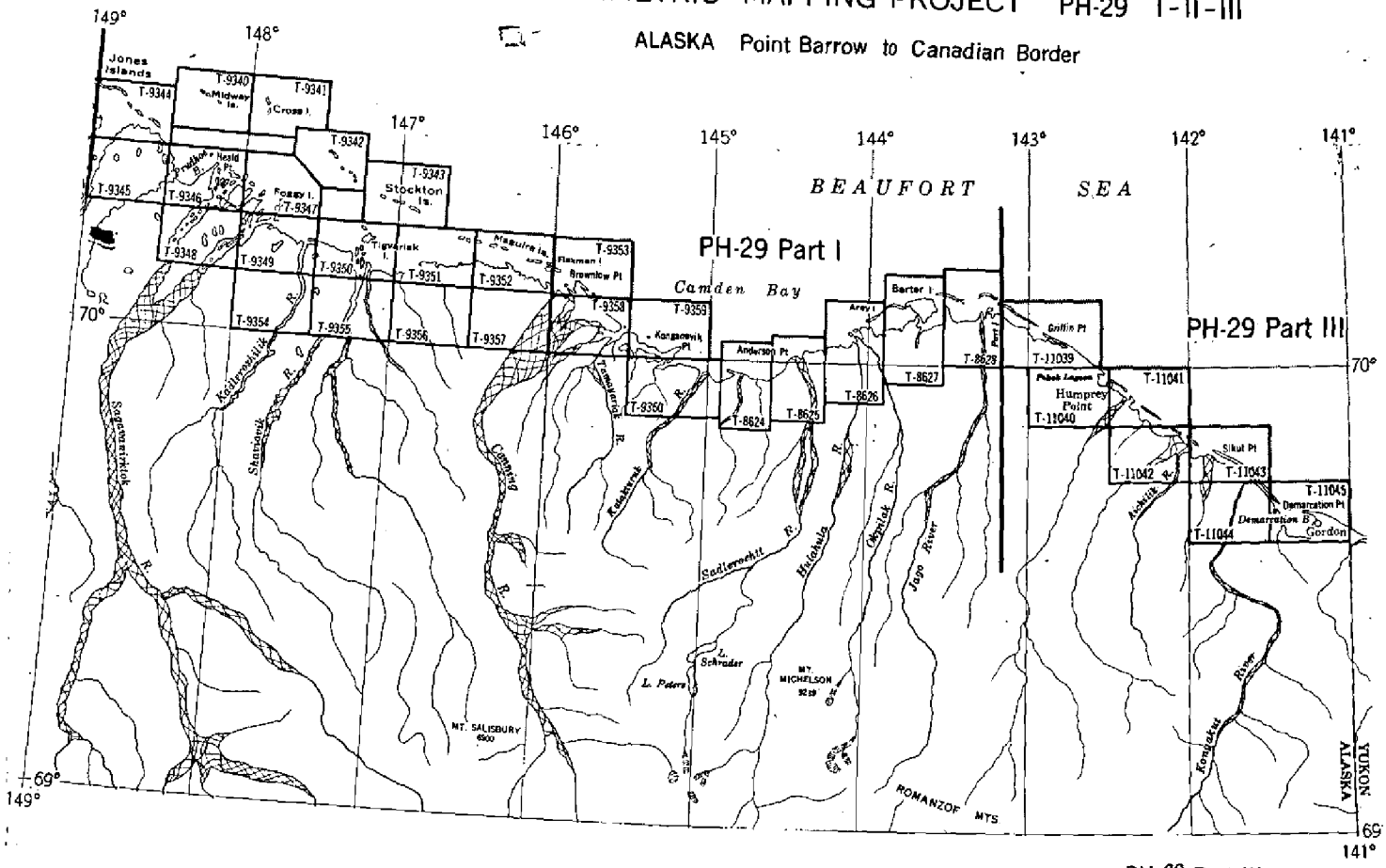
Land Area (Sq. Statute Miles) (III): 7.8
Shoreline (More than 200 meters to opposite shore) (III): 23.4
Shoreline (Less than 200 meters to opposite shore) (III): 5.4
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): Recovered: Identified:
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

M-2618-12(4)

PLANIMETRIC MAPPING PROJECT PH-29 I-II-III

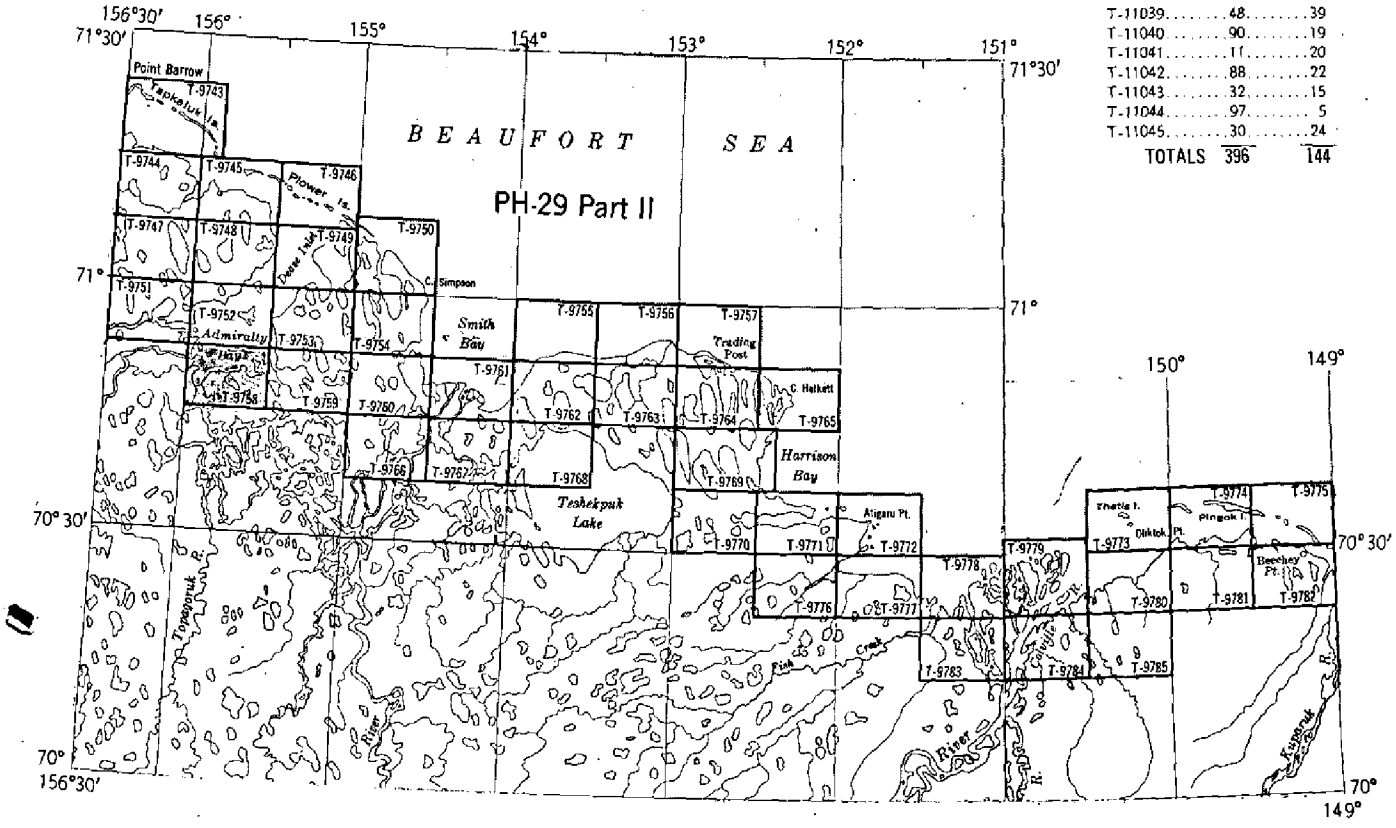
ALASKA Point Barrow to Canadian Border



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
TOTALS	396	144



Photographs taken July 1947 Scale 1:20,000

Summary to Accompany
Descriptive Report T-9758

Planimetric project Ph-29(47) consists of 76 maps, scale 1:20,000, - 26 in Part I (Jago River westward to Jones Islands); 43 in Part II (Jones Islands westward to Point Barrow); 7 in Part III (Canadian boundary, westward to Jago River). Part III was added to the project in 1952.

This project was designed to furnish 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.

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

FIELD INSPECTION REPORT
Map Manuscript T-9758
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.

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript T-9758
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 Manuscript T-9758
Project Ph-29(47) II

This map manuscript portrays a portion of the shoreline and adjacent planimetric details at the head of Admiralty Bay. Because of insufficient photograph coverage only the north portion of the map manuscript could be compiled.

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 on the north with T-9752 and on the east with T-9759. There are no contemporary surveys to the west and south.

Approved:

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-9758

Admiralty Bay
Meade River
Chipp River
Topagoruk River

Names approved
3-27-53
L. Heck

Sources:

Nautical Chart Nos. 9400 - 9445 - 9495

Various Aernoautical Charts of Area

Field Inspection Notes

Descriptions of Stations

Review Report T-9758
Planimetric Map
27 March 1953

61. General.-An addition to delineation of shoreline in the northwest corner of the map manuscript was made during review in order to show that Meade River enters Admiralty Bay here, but the gap between 155° 49' and 155° 57' could not be bridged because no photograph included the area.

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.- No hydrographic survey extends to this part of Admiralty Bay.

65. Comparison with Nautical Charts.-

9400 1:1,587,870 at 70°, March 1947, rev. June 1952

The small scale of this chart affords little basis for comparison of shoreline. No interior detail is charted.

66. Accuracy.-Control immediately north of this map area makes the shoreline of standard accuracy as delineated from office interpretation of 1947 photographs.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

Approved by:

L C Landy
Chief, Review Section
Div. of Photogrammetry

H C Edmonston
Chief, Nautical Chart Branch
Div. of Charts

H H Swanson
Chief, Div. of Photogrammetry
3 May 1955

Earl O. Heaton
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 stamps:

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.