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Diag. Cht. No. 9400

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-29 (47) Office No. T-9751

LOCALITY

State Alaska

General locality North Arctic Coast

Locality West of Admiralty Bay and North of Inaru River

1924 51

CHIEF OF PARTY

Max G. Ricketts, Chief of Party Fred A. Riddell, Portland, Oregon Photo-

grammetric Office

LIBRARY & ARCHIVES

DATE May 5, 1955

B-1870-1 (I)

31 October 1952

To: Comdr. Fred A. Riddell U. S. Coast and Geodetic Survey Swan Island Postal Station Portland 18, Oregon

Subject: Examination of map manuscripts T-9747, T-9751, and T-9754

The drawings are excellent and provide good reproduction copies and the manuscripts seem to be complete in every respect.

Referring to the lake at latitude 70° 58', longitude 156° 16' on T-9751, should not the grass in water be shown by the same symbol, outside the shoreline, as used at the southwest corner of T-9747 and in the central part of T-9751.

The symbolization of marsh and "low tundra" or low ground areas on these manuscripts is excellent, but I believe that this can be done more cheaply by stickup in the Washington Office. Consequently, on future manuscripts these areas may be outlined with a blue dash line as called for in Section 5431D of the Manual. This will relieve your office of a rather considerable amount of drafting which we can handle by stickup methods.

0. S. Reading, Chief, Div. of Photogrammetry

High Water

T - 9751

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

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

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

Instructions dated (II) (III):1/13/48, 3/8/50, 2/6/51, 3/16/51, (fiel@opy 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

OCT 1 0 1952

DET 2 2 1952 Date reported to Nautical Chart Branch (IV): Date received in Washington Office (IV):

Date registered (IV): 19 July, 1957 Applied to Chart No. Date:

Publication Scale (IV):

Publication date (IV):

Vertical Datum (III): Mean Sea Level Geographic Datum (III): Point Barrow correction figures to NA 1927 are now available Mean sea level except as follows: Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum LTS, Jan. 1953 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 /Lcl.

40 m. and Long. ptus/minus /5/ m.G.B.W. 9/54

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

X=

Lat.: Long.:

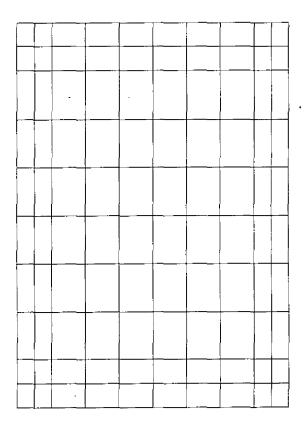
Unadjusted

Zone: Plane Coordinates (IV): State:

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.

Adjusted



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

DATA RECORD

rield inspection by (II): Lec	Date: 2nd Sept. 1951	
Planetable contouring by (II):	:	Date:
Completion Surveys by (II):		Date:
tide water inle	il) (State date and method of location): Matterior, and shoreline of interior otographs with the aid of the	ean high-water line of Inaru River or lakes delineated by office ex- e stereoscope.
Projection and Grids ruled by	(iV):	Date:
Projection and Grids checked	by (IV):	Date:
Control plotted by (III): Non	e ·	Date:
Control checked by (III): No	ne	Date:
Radial Plot or Stereoscopic Control extension by (III):	J. L. Harris & J. E. Deal	Date: 4/9/52
•	Planimetry	Date:
Stereoscopic Instrument comp	olation (III): Contours	Date:
Manuscript delineated by (III):	Carita C. Wiebe	Date: 9/24/52
Photogrammetric Office Review	w by (III): J. E. Deal	Date: 9/30/52
Elevations on Manuscript N	one	Date:

PHOTOGRAPHS (III)

Number 20005 thru 20007

Date 7/20/47

Time 17:44

Scale 1:20000

Stage of Tide 0.3 ft. above M.L.L.W.

Diurnal

Range

Mean | STATION

6.6 | 8.5

Date: 14 Jan. 1953

Date: 10 Sept 1953

Date: 9-24-5.3

Range

Tide (III)

Reference Station: Kodiak, Alaska Subordinate Station: Point Barrow

Subordinate Station:

Washington Office Review by (IV): Lena T. Star

Final Drafting by (IV): Bucese

Drafting verified for reproduction by (IV): U.O. Hallin

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 41.0

Shoreline (More than 200 meters to opposite shore) (III): 73.9 (includes largest lakes)

Shoreline (Less than 200 meters to opposite shore) (III): none

Control Leveling - Miles (II):

Number of BMs searched for (II):

Number of Triangulation Stations searched for (31):

Recovered:

Identified:

Date:

(Ratio of

Ranges

0.1

Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

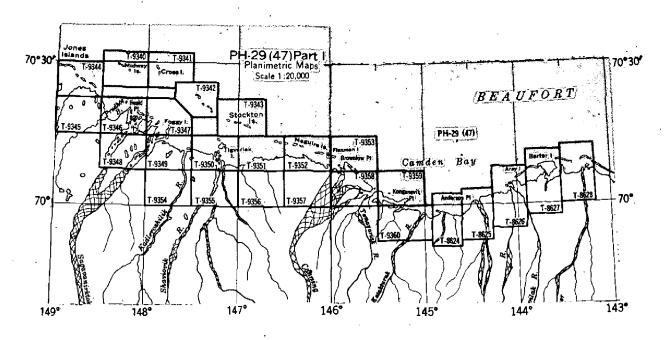
Form T-Page 4

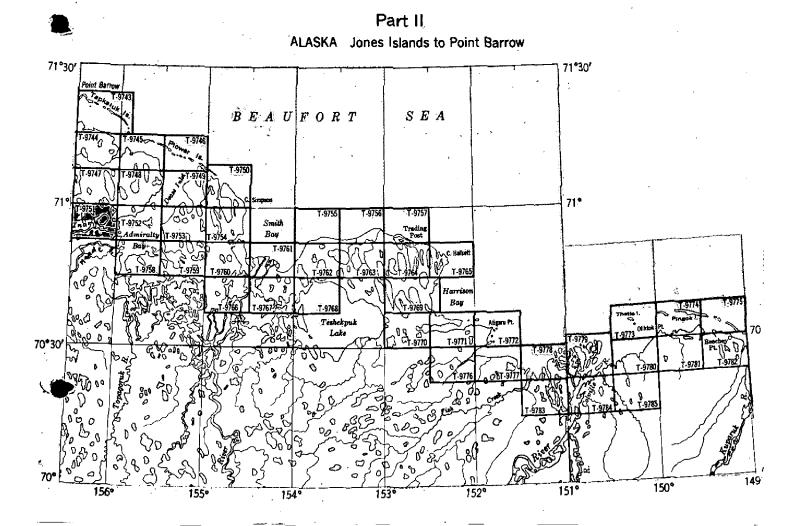
M-2618-12(4)

PLANIMETRIC MAPPING PROJECT PH-29 (47)

Photographs taken July 1947 Scale 1:20,000

Part I
ALASKA Barter Island to Jones Islands





Summary to Accompany Descriptive Report T-9751

Planimetric project Ph-29(47) consists of 69 maps, scale 1:20,000, - 26 in Part I (Barter Island westward to Jones Island) 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-9751 is one of the four most westerly maps in the Part II group. It is a delinestion of the interior area west of Admiralty 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-9751 Project Ph-29 (47) II

Refer to Descriptive Report "Shoreline - Photogrammetric, 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 Manuscript T-9751 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) 11, (1951)

COMPILATION REPORT Map Manuscript T-9751 Project PH-29 (47) II

This map manuscript portrays the planemetric details of an area approximately four miles in latitude north from the lnaru River and eleven miles in longitude beginning just west of Admiralty Bay.

Side headings 31, 32, 33, 34, 36, 37, 38, 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 and to mean high-water and low-water lines.

35: Shoreline and alongshore details:

The mean high-water line of the Inaru River and of the several tidal inlets was delineated by office examination of the photographs with the aid of the stereoscope as was also the shoreline of the interior lakes.

Approximate low-water lines have been detailed where they were believed visible on the photographs

39: <u>Junctions</u>:

Satisfactory junctions have been made on the north and east.

To the west the planimetry of T-9006, Project Ph-27 (47) has not been completed to the junction with T-9751 and no junction could be made.

There is no contemporary survey to the south.

AO: Horizontal and vertical accuracy:

There are no horizontal control stations within the limits of this map manuscript and the planimetric features have been detailed solely from pass points located during the running of the radial plot.

Vertical accuracy is not applicable.

Approved:

Fred A. Riddell

Officer in Charge

Portland Photogrammetric Office

Respectfully Submitted:

Edward Deal

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:

Admiralty Bay Inaru River

Sources:

Nautical Charts No's. 9400, 9445, 9495

Various Aeronautical Charts of Area

Field Inspection Notes

Descriptions of Stations

GEOGRAPHIC NAMES Survey No.	,	Trois .	Design of Oct.	S. Model	or individual services	Mod Color	O Guide of	Mag Michael	J.S. J.	<i>></i> /
Name on Survey	/d A	Char of	C	D /46	E E	or [®] / «	,° / ,	A H	v.2, K	
Alaska				ļ						1
Arctic Coast		<u></u>					<u> </u>	<u> </u>	<u> </u>	2
Admiralty Bay	• -			 						3
Inaru River		_		<u> </u>	-		ļ			4
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Review Report T-9751 Planimetric Map 14 January 1953

- 62. Comparison with Registered Surveys .- There are no earlier surveys for this area.
- 63. Comparison with maps of other Agencies.
- 64. Comparison with Contemporary Hydrographic Surveys .- None This is an interior area.
- 65. Nautical Charts .-

1:1,587,870 at 70°, May 1947, rev. June 1952 **9**1700

No record is attached to the descriptive report to indicate that this map manuscript has been applied to charts prior to review.

No details are shown on the chart in the area covered by T-9751, which is for the interior west of Admiralty Bay.

66. Accuracy .- Though no control falls within the area of T-9751, an arc of control north, northeast, and east in adjacent map areas insures the accuracy of the eastern half of T-9751 and makes the western half fully adequate for interior charting purposes.

Reviewed by:

APPROVED

Div. of Photogrammetry

Chief, Div. of Photogrammetry was

Chief, Nautical Chart Branch

Division of Charts 61

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 1946, 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 te-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: Flammen 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

m. and Long. plus/minus 2 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.