9778 THRU 9785

9731 \$ 9782 - FOR OFFICIAL USE

Diag. Cht. No. 9400

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

T-9778 to

Field No. Ph-29 (47) 11 Office No. T-9785 Incl.

LOCALITY

Territory

3\$D06

Alaska

General locality Beaufort Sea (Arctic Coast)

Locality North Arctic Coast from Sakonowyak

River to Harrison Bay

194 51

CHIEF OF PARTY

Max GO Ricketts, Field

Fred A. Riddell, Portland, Ore., Photo.

LIBRARY & ARCHIVES

DATE JUNE 28, 1955

25 July 1952

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

Subject: Inspection of the compilation of planimetric map manuscript T-9778, Project Ph-29(47)

The subject map manuscript has been received and inspected in this office. This map appears to be very well prepared and the enclosed reproduced copies are easily legible. However, the placement of the name Harrision Bay will be shifted on the map manuscript to a more appropriate place in the bay and the name Beaufort Sea will be added to the map manuscript.

O. S. Reading Chief, Div. of Photogrammetry

DATA RECORD

T-9778 to T-9785 Incl.

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

Field Office (II): Arctic Field Party (East 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): 1:20,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): 6.30-57 Date reported to Nautical Chart Branch (IV): 7-8-52

Applied to Chart No.

Date:

Date registered (IV): 7 Jan. 1955

Publication Scale (IV):

Geographic Datum (III): Flaxman Island 1912

Correction figures to NA. 1927 ore are now available.

LTS HOP, 1953 See-reverse side of this Page.

G.B.W., Sept, 1954

Publication date (IV):

High Water Vertical Datum (III): 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)

Lat .: Long .:

Adjusted Unadjusted

Plane Coordinates (IV):

State:

Zone:

Y=

X=

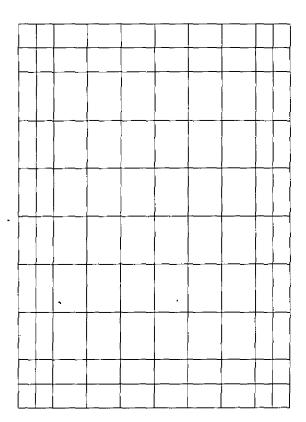
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

0900338 ATAB

The difference between FLAXMAN ISLANDDatum T-9778 and preliminary N.A. 1927 Datum is Lat. htts/minus 46m. and Long. plus/minus 94m. /lcl. T-9779 and preliminary N.A. 1927 Datum is Lat. http://mlnus 63m. and Long. plus/minus 98m. / Le.L. The difference between 2/778 Oand preliminary N.A. 1927 Datum is Lat. placyminus
75m. and Long. plus/pines 100m. Vkck The difference between Diffo 7-978/and preliminary N.A. 1927 Datum is Lat. plus/minus
79m. and Long. plus/minus 102m. / Lc L The difference between Diffo Datum 9782 and preliminary N.A. 1927 Datum is Lat. plan/minus
93m. and Long. plus/minus 103m. / Lc.L. The difference between Diffo Datum and preliminary N.A. 1927 Datum is Lat. American Son. and Long. plus/minus 98m. Lc.l. T-9784
The difference between Ditto and preliminary N.A. 1927 Datum is Lat. plus/minus

Sm. and Long. plus/minus 100m. / Lc.L. The difference between and preliminary N.A. 1927 Datum is Lat. pha/minus 67m. and Long. plus/minus 10 m. lel



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

DATA RECORD

Field Inspection by (II): Cornelius A.J. Pauw Date: Field season 1951 Planetable contouring by (II): Date: Completion Surveys by (II): Date: Mean High Water Location (III) (State date and method of location): Location for the most part determined by stereoscopic examination of the photographs. Projection and Grids ruled by (IV): Date: Projection and Grids checked by (IV): Date: Control plotted by (III): Roy A. Davidson, J.L. Harris & R.H. Barron Date: 1-11-52 to 1-15-52 Control checked by (III): Roy A. Davidson, J.L. Harris & R.H. Barron Date: 1-11-52 to 1-15-52 Date: 1-22-52 Radial Plot ansmarancome J.L. Harris & J.E. Deal Control extension by (III); Planimetry Date: Stereoscopic Instrument compilation (III): Contours Date: Manuscript delineated by (III): See reverse side Date: Photogrammetric Office Review by (III): See reverse side Date: Elevations on Manuscript Date: checked by (II) (III):

Form T-Page 3

M-2618-12(4)

Manuscript	Delineated by:-	Shoreline	Date	Interior	Date .
	T-9778 T-9779 T-9780 T-9781 T-9782 T-9783 T-9784	L.L. Graves C.H. Bishop C.C. Wiebe C.C. Wiebe C.C. Wiebe J.L. Harris R.A. Davidson None	1/30/52 2/5/52 1/30/52 1/21/52 1/22/52 1/30/52 1/30/52	J.L. Harris L.L. Graves C.C. Wiebe R.A. Davidson J.L. Harris R.H. Barron L.L. Graves C.C. Wiebe	5/20/52 6/5/52 5/12/52 5/2/52 5/15/52 5/21/52 5/14/52 4/29/52
Manuscript 1	Reviewed By:-				
	T-9778 T-9779 T-9780 T-9781 T-9782 T-9783 T-9784 T-9785	J.E. Deal J.E. Deal R.H. Barron R.H. Barron R.H. Barron R.H. Barron None	1/31/52 2/6/52 1/31/52 1/28/52 1/23/52 2/6/52 2/4/52	R.H. Barron R.H. Barron R.H. Barron R.H. Barron J.E. Deal R.H. Barron R.H. Barron	5/26/52 6/6/52 5/14/52 5/13/52 5/28/52 5/23/52 6/3/52 5/7/52
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		PHOTOGRAPHS (I	H)	
Number	Date	Time	Scale	Stage of Tide
20041 to 20043 Incl. 20092 to 20105 Incl. 0120 to 20123 Incl. 20128 to 20133 Incl.	7/25/47 7/25/47	11:53 12:07 13:12 13:24	1:20,000 1:20,000 1:20,000 1:20,000	0.15 above M.L.L.W. 0.02 above M.L.L.W. 0.08 above M.L.L.W. 0.10 above M.L.L.W.

Tide (III)

Ratio of Mean x spctog
Ranges Range Range

6.6 8.5

Reference Station: Kodiak, Alaska

Subordinate Station: Flaxman Island, Alaska

Subordinate Station:

Washington Office Review by (IV): Leve J. Stevens

Final Drafting by (IV): JHFRAZIER - 9783 Robinson ATA 780 3/14/54

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

4712

Land Area (Sq. Statute Miles) (III): 526.3

Shoreline (More than 200 meters to opposite shore) (III): 310.3 statute miles

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

Control Leveling - Miles (II):

Number of BMs searched for (II):

Number of Triangulation Stations searched for (II):

tion Stations searched for (II): Recovere

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Recovered: Identified:

Recovered:

ldentified:

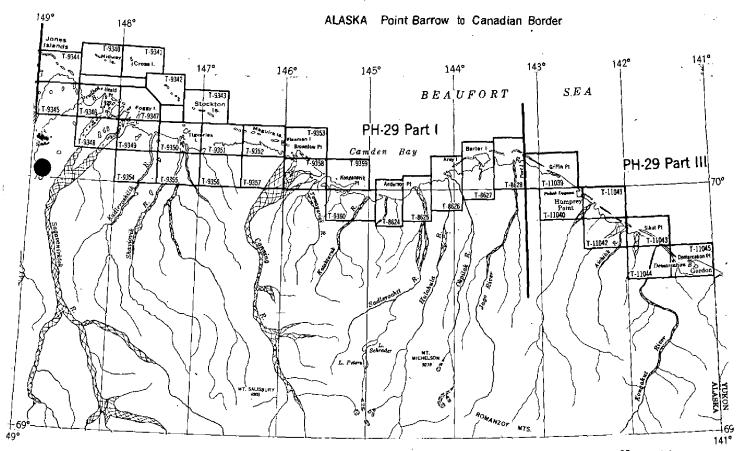
Date:

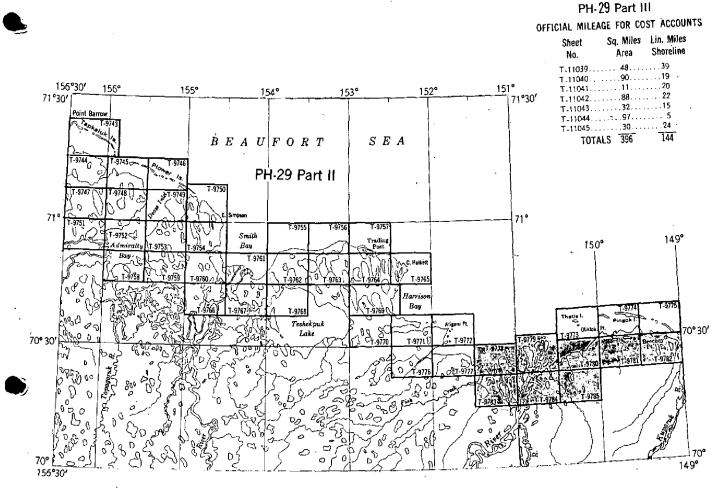
Date:

Date: 25 Har. 1953

Remarks:

PLANIMETRIC MAPPING PROJECT PH 29 1-11-111





Photographs taken July 1947 Scale 1:20,000

Summary to Accompany Descriptive Report T-9778 to 85, inc.

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 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.

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-9778 to T-9785 Incl.
Project Ph-29(47) II

Refer to Field Inspection Report "Arctic North Coast of Alaska, Kuparuk River to Fish Creek", CS-320 (1951), Max G. Ricketts, Chief of Party.

PHOTOGRAMMETRIC PLOT REPORT Map Manuscripts Nos. T-9778 to T-9785 Incl. Project Ph-29(47) II

These eight map manuscripts are part of a combined radial plot comprising Map manuscripts Nos. T-9773 to T-9775 Incl. and T-9778 to T-9785 Incl.

The Photogrammetric Plot Report is included with the Descriptive Report for T-9773 to T-9775 Incl. (1951).

COMPILATION REPORT Map Manuscripts T-9778 to T-9785 Incl. Project Ph-29(47) II

Delineation.

Graphic methods were used for the compilation of these map manuscripts.

The field inspection data were not as complete as is usually desired but in general the data were adequate and enabled the compiler to satisfactorily interpret the photographic detail in the interior areas. Assistance was given the personnel of this office in this part of the work by Lt. (j.g.) Dale E. Fisher who served several assignments in the field with the North Arctic Coast party, and who was assigned to the Portland Photogrammetric Office while the compilation work on this project was in progress.

For the most part the location of the mean high-water line was not definitely indicated by the field inspection party and it was determined in the office by stereoscopic examination of the photographs.

Side headings 32, 34, 35, 36, 37, 38, 39, 40, 46, and 47 of the Compilation Report for T-9773 to T-9775 Incl. are in general applicable to T-9778 to T-9785 Incl.

Supplemental Data. 33.

None were furnished for the areas of these eight map manuscripts.

Approved:

Fus a. Einell Fred A. Riddell

Officer in Charge

Portland Photogrammetric Office

Respectfully submitted

J. Edward Deal Jr.

J. Edward Deal Jr.

Cartographer Cartographer

* T-9778 was returned to Portland (8-10-53) after review.

The original delineation was revised at its junction with the survey on the west (T-9777) which was part of another radial plot.

48. Geographic Names List.

The geographic names report mentioned in side heading 18 of the field inspection report was not furnished the compilation office. The following names were from sources listed below:

T-9778 T-9782 Colville River (West Prench) - Beechey Point · Beechey/Hound ovik Cottle Island -Fish Creek (East Branch) Pink Orenz Jones Islands --Harrison Bay Long Island -Sakonowyak River Tamayayak T-9779 T-9783 Milwerch Kiver-Fish Creek (East Branch Beaufort Sea Colville River Fich Crock (West Branch) teletoresch Ela Harrison Bay Machelik River (Deen River Harrison Bay Kulpigruak Chan 16 Nanuk Narivanga (Bear Lake) Tolaktovut Point Sakoonowg River Ublutuoch Tamayayax T-9784 Colville River Anachlik Anajuk Point Kupigrunk Kalubik Harcreev Kulpigruak Amer Channel Colville River Nichelikuut (Brant Island) Vigalikuut I. Kachemach Mound Nuekshat Ioland (shift application to sw. The Teach Milly reach River · Nachelik Biver Channel · Nanuk Narivanga (Lake -<u>T-9781</u> Pikonik Mound Sakoonowg River Thetis Mound Ugnuravik R Jones Mound Sources Nautical Chart No. 9400 Various Aeronautical Charts of area Field Inspection Notes Descriptions of stations Names approved 3-13-53.

The numerous changes in the above names are based on the 1957 Project Names Report.

GEOGRAPHIC NAMES

T-9778

Colville River
Fish Creek
Tingmeachsiovik River
Harrison Bay
Tamayayak Channel

T-9779

- · Beaufort Sea
- · Colville River
- · Miluveach River
- Elaktoveach Channel
- · Harrison Bay
- · Sakoonawg River
- Kupigruak Channel
- · Tolaktovut Point
- Tamayayak Channel

<u>T-9780</u>

Colville River (Main Channel)

Anachkik Island
Anachlik Lake
Kalubik Creek
Kupigruak Channel
Nigaliknut Island
Nuekshat Island

T-9781

Thetis Mound Ugnuravik River Jones Mound

T-9782

Beachey Point
Cottle Island
Jones Islands
Long Island
Beechey Mound
Sakonowyak River

T-9783

- · Fish Creek
- Tingmeachsiovik River
- · Harrison Bay
- · Nechelik Channel
- ' Nanuk Narivanga Lake
- Sakoonawg River
- <u>Ublutuoch River</u>

T-9784

Anajuk Point
Colville River
Kupigruak Channel
Kachemach Mound
Kachemach River
Miluweach River
Nechelik Channel
Nanuk Narivanga Lake
Pikonik Mound
Sakoonawg River
Tamayayak Channel

T-9785

Miluveach River Kalubik Creek

These names are based on the 1951 Project Names Report.

Names approved:

Signed: L. Heck
3-23-53

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9778 to T-9785 Incl.

CONTRO	L STATIONS
5. Horizontal control stations of third-order or higher acc	uracyX6. Recoverable horizontal stations of les
than third-order accuracy (topographic stations)X	_7. Photo hydro stationsX8. Bench marks
9. Plotting of sextent fixes10. Photogrammetr	ic plot reportX 11. Detail pointsX
ALONGS	HORE AREAS
(Nautical	Chart Data)
.2. Shoreline X13. Low-water line 14.	Rocks, shoals, etc15. Bridges16. Aids
o navigation <u>X</u> 17. Landmarks <u>X</u> 18. Oth	er alongshore physical features X 19. Other along –
shore cultural featuresX	
PHYSICAL	FEATURES
20. Water features <u>X</u> 21. Natural ground cover	X 22. Planetable contours23. Stereoscopic
instrument contours 24. Contours in general	25. Spot elevations X 25. Other physical
CULTURA	L FEATURES
27. Roads 28. Buildings X 29. Railroa	ds 30. Other cultural features
BOUT	NDARIES
31. Boundary lines 32. Public land lines	
MISCEL	LANEOUS
33. Geographic names X 34. Junctions X	35. Legibility of the manuscriptX 36. Discrepancy
overlay 37. Descriptive Report X 38. F	ield inspection photographs X 39. Forms X J.Edward Deal Jr.
Reviewer	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 com manuscript is now complete except as noted under item	pletion survey have been applied to the manuscript. The 43.
Compiler	Supervisor

Review Report T-9778 to 85, incl. Planimetric Maps 25 March 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 .-

T-9778 and T-9779 fall within the area of the 1952 hydrographic surveys which are not available for comparison.

T-9780:

H-9718 1:20,000, 1951, East arm Colville R - Spy Id.

T-9781:

H-9717 1:20,000, 1951, Pingok Id to Thetis Id.

T=9782:

H-7916 1:20,000, 1951, Cottle Id. to Pingok Id.

T-9783, 84, 85: are inland surveys.

There is no conflict between the hydrographic surveys and the topographic surveys.

65. Comparison with Nautical Charts .-

9400 1:1,587,870 at 70°, May 1947, rev. June 1952 The small scale of the chart affords little basis for comparison.

66. Accuracy. - The delineation complies with project instructions and meets Bureau standards. for little making

Reviewed by:

Lena T. Stevens

APPROVED

Chief, Review Section

Div. of Photogrammetry

Chief, Nautical Chart Branch

Division of Charts GFV

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Survey

June 27, 1957

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 Scund, 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:

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.

T-9718 } applied to Clit. 9403 Hun. Clit 9469. HELL. apr. 55-T-9783 } T-9778 } T-9779 } applied to Clit. 9403 Hum Clit. 9476. HELL. apr. 1955. T-9780 }

T.9780 } applied to clut. 9403 Hum Clet. 9471. Helle. apr. 55 T-9782)

T-9784 ? Examined + compared to ch. 9403. No important differences PAB set 1958
T-9785