# 9760 9759 9761

Dizgram Chart No. 9400

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

#### DESCRIPTIVE **REPORT**

Type of Survey Planimetric Field No. Office No. T-9759 thru

#### LOCALITY

Territory Szaze Alaska

General locality Beaufort Sea, North Arctic Coast

Locality Chipp River, Ikpikpuk River,

Smith Bay.

1924 51

CHIEF OF PARTY

Max G. Ricketts, Arctic Party Fred A. Riddell, Portland, Oregon Photogrammetric Office

LIBRARY & ARCHIVES

B-1870-1 (1)

#### T - 9759 thru T-9761

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)py 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): FEB - 6 1053 Date reported to Nautical Chart Branch (IV): FEB 17 1953

Applied to Chart No.

Date:

Date registered (IV): 25 June, 1954

Publication Scale (IV):

Publication date (IV): -

Elevations shown as (25) refer to mean high water Elevations shown as  $(\underline{b})$  refer to sounding datum

Mean sea level except as follows:

Vertical Datum (III): Mean Sea Level

Geographic Datum (III): Point Barrow

Correction figures to N.A. 1927

L.T.S. April, 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 153 m. G.B.W. 8/54 / Lc.L.

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

dated 14 December 1949)

Long .:

Adjusted Unadjusted

High Water

Plane Coordinates (IV):

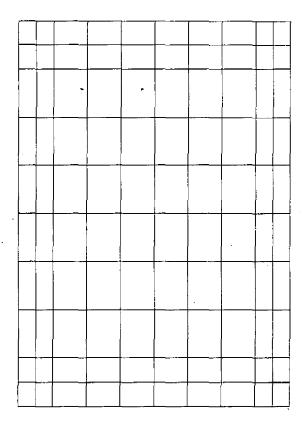
State:

Zone:

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric 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)

Field Inspection by (II): Leo W. Eason II		Date:	2 September 1951
ند در در در	, ,	•	
	• •		-
Planetable contouring by (II):		Date:	
	Na.		
Completion Surveys by (II):		Date:	
	• •		-
Mean High Water Location (III) (State date and mether examination of photographs with the side of field photographs	nod of location): Delineated he aid of spot locations s	y ste hown	reoscopic on reverse
Projection and Grids ruled by (IV):		Date:	
Projection and Grids checked by (IV):		Date:	
Trojuction and arius checked by (14).			•
Control plotted by (III): Fred A. Riddell		Date:	9/22/52
•			
·			
Control checked by (III): C.C. Wiebe		Date:	9/26/52
,			20/0/20
Radial Plot or Stereoscopic James L. Harris Control extension by (III):		Date:	10/9/52
Planimetry	,	Date:	
Stereoscopic Instrument compilation (III):		ъ.	
Contours		Date:	
Manuscript delineated by (III): See reverse s	idė	Date:	
Photogrammetric Office Review by (III): See rev	erse side	Date:	
Elevations on Manuscript		Date:	
checked by (II) (III):		Pale.	

	Manuscript Delineated by:	Date
٠	T-9759 J.L. Harris T-9760 L.L. Graves T-9761 C.C. Wiebe	11-18-52 1-6-53 11-18-52
	Manuscript Reviewed by:	Date
	T-9759 C.C. Wiebe T-9760 C.C. Wiebe T-9761 J.E. Deal	12-11-52 1-15-53 1-19-53
	t et	
	· · · · · ·	
	•	

Diurnal

Range

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
9891 thru 19894	7/20/47	14:13	1:20,000	0.8 ft. above M.L.L.W.
19904	7/20/47	14:43	1:20,000	0.8 ft. above M.L.L.W.
19942 thru 19944	7/20/47	15:52	1:20,000	0.7 ft. above M.L.L.W.
19997 thru 20002	7/20/47	17:41	1:20,000	0.3 ft. above M.L.L.W.
20140 thru 20142	7/25/47	14:02	1:20,000	0.1 ft. above M.L.L.W.

Tide (III)

Reference Station: KODIAK, ALASKA Subordinate Station: POINT BARROW

Subordinate Station:

Washington Office Review by (IV):

59-Robinson A.T.

Final Drafting by (IV): 60 - RobinsonAT

Drafting verified for reproduction by (IV): ZOO. Hallum

Date:

Date:

Ratio of Mean Ranges

Range

" Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 200

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (il): 13

Recovered: 13

Identified: 8

Recovered: Identified:

Number of BMs searched for (II): Number of Recoverable Photo Stations established (III): 2

(computed field positions)

Number of Temporary Photo Hydro Stations established (III):

Remarks:

## PLANIMETRIC MAPPING PROJECT PH-29 1-11-111 149° ALASKA Point Barrow to Canadian Border 148° T-9340 144° . 146° 145° BEAUFORT S.E.APH 29 Part I Camden Bay PH-29 Part III 7-11039 T-1104 -169°

OFFICIAL MILEAGE FOR COST ACCOUNTS Sq. Miles Lin. Miles Sheet Shoreline Агеа No. .T-11039.......48......39 T-11040......90......19 156°30′ 151° T-11041......11......20 T-11042 88 22 T-11043 32 15 71°30′ 71°30′ T-11044. 97. 5 T-11045. 30. 24 TOTALS 396 144  $\dot{B} E A U F O R T$ S E APH-29 Part II 71° T-9752<\$ 149° 150° Admiralt Bay Teshekouk 70°30′ 70° 30' 149°

Photographs taken July 1947 Scale 1:20,000

141°

PH-29 Part III

# Summary to Accompany Descriptive Report T-9759 to 61, incl.

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 Manuscripts T-9759 thru T-9761 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-9759 thru T-9761 and T-9766 thru T-9768 Project Ph-29 (47) II

This combined radial plot comprises map manuscripts T-9759 thru T-9761 and T-9766 thru T-9768

In general Items 21 thru 25 of the Photogrammetric Plot Report for Map Manuscripts No's. T-9743 thru T-9754 and T-9758, Project Ph-29 (47) II which is included in the Descriptive Report for Map Manuscripts T-9743 thru T-9746, are applicable. The following exceptions are noted:

References to damaged map manuscripts do not apply,

It was not necessary to extend any projection.

The sub-stations as computed from field data for station SMITH, 1951 could not be held. The station was located by the arc method from measurements contained in the field data and description of station and this identification held, indicating errors in the angles listed on the control station identification form.

The radial plot could not be completed for small areas at the southwest limits of T-9759 and T-9760, the west limits of T-9766, the southeast limits of T-9767 and for most of the area of T-9768 because of insufficient photograph coverage.

Approved:

Fund G. K.

Fred A: Riddell

Comdr., USC&G Survey

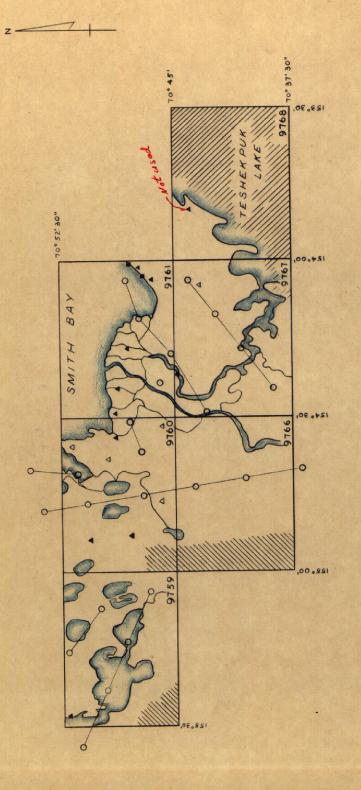
Officer in Charge

Respectfully submitted:

J. Edward Dent Jr.

J. Edward Deal, Jr.

Cartographer



RADIAL PLOT Nº 4 PROJECT PH-29(47) II

TRIANGULATION STATIONS (IDENTIFIED) O-O-PHOTOGRAPH CENTERS & FLIGHTS

(UNIDENTIFIED)

NOT RADIALLY PLOTTED, INSUFFICIENT PHOTOGRAPH COVERAGE. TOPOGRAPHIC STATIONS (IDENTIFIED)

# COMPILATION REPORT Map Manuscripts T-9759 thru T-9761. Project Ph-29 (47) II

These three map manuscripts portray the planimetric details along the North Arctic Coast in the vicinity of IKPIKPUK RIVER DELTA and CHIPP RIVER.

In general Items 31 thru 47 of the Compilation Report for Map Manuscripts T-9743 thru T-9746 Project Ph-29 (47) II are applicable. The following exceptions are noted:

#### 31. Delineation:

Drawing of the "Low area or area of Seasonal Inundation" symbol was discontinued on No. 10, 1952 while compilation was in progress in accordance with instructions contained in letter 711-aal dated 31 October 1952 Subject:- "Examination of Map Manuscripts T-9747, T-9751, and T-9754." Since that date these areas have been enclosed with a dashed line in blue acetate ink and labelled "fls" as indicated in Topographic Manual Part II, page 429.

#### 39. Junctions:

Delete references to small projection.

Approved:

Fred A. Riddell

Comdr., USC&G Survey

Officer in Charge

Respectfully submitted:

J. Edward Deal Js.

J. Edward Deal, Jr.

Cartographer

#### 48. Geographic Name 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-9759

Brower's Caribou Ranch Chipp River Pittalukrøøk Lake Alaktak River T-9760

Ikpikpuk River Delta Smith Bay West Channel Ikpikpuk River

Piasuk River

T-9761

Ikpikpuk River Delta Smith Bay

#### Sources:

Nautical Charts Nos. 9400 and 9495 Various Aeronautical Charts of the Area Field Inspection Notes Descriptions of Stations.

> Names approved 4-9-53 a.j.w.

### PHOTOGRAMMETRIC OFFICE REVIEW

T- 9759

1. Projection and grids 2. Title 3. Manuscript numbers 4. Manuscript size
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline 13. Low-water line 14. Rocks, shoals, etc. 15. Bridges 16. Aids
to navigation17. Landmarks18. Other alongshore physical features19. Other along -
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
features
CULTURAL FEATURES
27. Roads 28. Buildings 29. Railroads 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Public land lines
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms
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 completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
. Compiler Supervisor
A3 Pamarke:

### PHOTOGRAMMETRIC OFFICE REVIEW

## T- 9760

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size	
CONTROL STATIONS	
5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less	
than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks	
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points	
ALONGSHORE AREAS	
(Nautical Chart Data)	
12. Shoreline 13. Low-water line 14. Rocks, shoals, etc. 15. Bridges 16. Aids	
to navigation 17. Landmarks 18. Other alongshore physical features 19. Other along -	
shore cultural features	
PHYSICAL FEATURES	
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic	
Instrument contours 24. Contours in general 25. Spot elevations 26. Other physical	
features	
CULTURAL FEATURES	
27. Roads 28. Buildings 29. Railroads 30. Other cultural features	
BOUNDARIES	
31. Boundary lines 32. Public land lines	
MISCELLANEOUS	
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy	
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms	
40. Carita le Wieke	
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 completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.	
Compiler Supervisor	
43 Demorker	

### PHOTOGRAMMETRIC OFFICE REVIEW

### T- 9761

1. Projection and grids
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline 13. Low-water line 14. Rocks, shoals, etc 15. Bridges 16. Aids
to navigation 17. Landmarks 18. Other alongshore physical features 19. Other along -
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
features
CULTURAL FEATURES
27. Roads 28. Buildings 29. Railroads 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms 40. loante lo. Wiehe Ledward Deitl h
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 completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
Compiler Supervisor
43. Remarks: M-2623-12

# Review Report T-9759 - 61, incl. Planimetric Maps 9 April 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-7921 1:40,000 1951 Vic.Pitt Pt. to Cape Simpson

No shoreline is drawn on H-7921. A check of the most southern sounding figures reveals that depths of 2 to 3 feet consistently parallel the eastern shore of Smith Bay and the eastern side of the Ikpikpuk River delta about 650 feet from the MHW line. These depths are from 4900 to 8000 feet from the northern shore of the delta as delineated on T-9760-61. This delta shoreline was drawn without benefit of field inspection and probably depicts a stage lower than MHW at the date of Photography (July 20, 1947). The MHW line has undoubtedly advanced during the five years between photography and delineation, because deposition must be rapid at the mouth of the Ikpikpuk, so that the shoreline as delineated is a good representation of the delta conditions.

65. Comparison with Nautical Charts .-

9495 1:125,000 at 71° 08' May 1950

The names Alaktak River, Alaktak Ranch, and Piasuk River are not on the chart. The name Chipp River is placed on the wrong stream. \* Noted for revision on Chart Standard - A.K.

The shoreward part of the Ikpikpuk River delta has been changed to "inundated" on T-9760 and T-9761.

T-9760 and T-9761 were applied to chart 9495 before review.

66. Accuracy. The shoreline area (Smith Bay) was well controlled and is of standard accuracy. The southern portions of T-9759 and T-9760 had no control and photographic coverage was inadequate for a full delineation, and is probably of subnormal accuracy.

Reviewed by:

Lena T. Stevens

Approved by:	1
La Lando	HAEdmonston
Chief, Review Section	Chief, Nautical Chart Branch Division of Charts (F)
Divoof Photogrammetry	Division of Charts (F)
Chief, Division of Photogrammetr 3 Way 1955	y Chief, Div. of Coastal Surveya

#### HORIZONTAL DATUM ADJUSTMENT



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 light 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.

PLANTMETRIC MAPPING PROJECT

Ph-29(47) PART II

Point Earrow 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 1s+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: Flamman 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 0.95 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

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.

