8625

[redacted]

Diag. Cht. No. 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Ph-29(47) *Office No.* T-8625

LOCALITY

State TERRITORY OF ALASKA

General locality ARCTIC COAST, BEAUFORT SEA, CAMDEN BAY

Locality ANDERSON POINT

194 50

CHIEF OF PARTY

H.A.Paton- Chief of Party
C.W.Clark-Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE Sept. 1 - 1954

8-1870-1 (1)

8625 [redacted]

DATA RECORD

T-8625 ~~(Revision)~~

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

Field Office (II): Tigvariak Island, Alaska Chief of Party: R.A. Earle

Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: Charles W. Clark

Instructions dated (II) (III): Supplemental Instructions
4 Feb. 1948 Field
15 Feb, 1949 Project C.S.320
8 Mar. 1950

Copy filed in Division of Photogrammetry (IV)

14 Dec. 1949
9 Nov. 1950 Office

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): JUL 16 1951 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 28 April, 1954

Publication Scale (IV): Prelim. The difference between Barter Island datum and N.A. 1927 Datum is Lat. ~~plus~~/minus 40 m. and Long. ~~plus~~/minus 217 m. G.B.W. 8-54 Publication date (IV):

Geographic Datum (III): ~~N.A. 1927~~ Barter Island

Planimetry:
Vertical Datum (III): Mean ~~Lower~~ Low ~~Water~~ High Water (Ice Surface)*

Elevs. W. of 144° 28' -
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

Elevs. east of 144° 28': Mean Sea Level *

(Flaxman Island projection also, in order to plot Flaxman Island datum control (1950), and to tie this map manuscript to those on the west.)

* Difference between "level of sea ice" and mean sea level was not obtained.

See page 4.

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

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

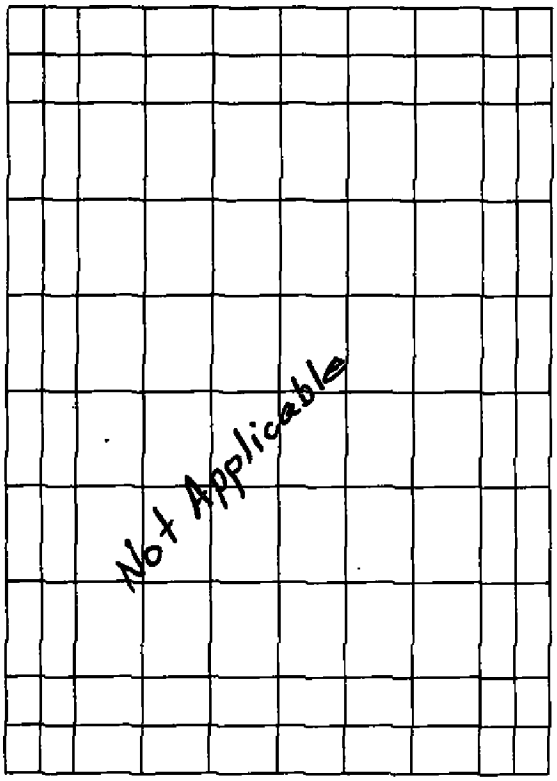
Plane Coordinates (IV): State: Zone:

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.

M-2618-12(4)



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

DATA RECORD

Field Inspection by (II): Hubert A Paton, Chief of Party Date: Summer 1948

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): Spot located in field on field photographs and this location used to delineate the mean high water line on office photographs, by use of the stereoscope, and then compiled.

Projection and Grids ruled by (IV): Date:

Projection and Grids checked by (IV): Date:

Control plotted by (III): M.B. Elrod Date: 3/15/51

Control checked by (III): Dale Fisher Date: 4/19/51

Radial Plot or Stereoscopic Control extension by (III): Dale Fisher Date: 5/18/51

Stereoscopic instrument compilation (III): Planimetry Date:

Contours Date:

Manuscript delineated by (III): M.B. Elrod Date: 5/31/51

Photogrammetric Office Review by (III): R.H. Barron Date: 6/11/51

Elevations on Manuscript checked by (II) (III): 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
20168 & 20169	7/29/47	12:33	1:20,000	0.6 ft. above M.L.L.W.
20176 thru 20178	7/29/47	12:49	1:20,000	0.5 ft. above M.L.L.W.

Tide (III)

Reference Station: Kodiak, Alaska
Subordinate Station: Flaxman Island, Alaska
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal Spring Range
	6.6	8.5
0.1	0.5	0.7

Washington Office Review by (IV): Lena T. Stevens Date: 2 October, 1951

Final Drafting by (IV): Anna L. Berry Date: 7/7/53

Drafting verified for reproduction by (IV): W O Halbin Date: 7-8-53

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 80
Shoreline (More than 200 meters to opposite shore) (III): 12
Shoreline (Less than 200 meters to opposite shore) (III): 33
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): 3*
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

*The position of recoverable topographic station, DEN, 1950, is listed under Geographic Positions Accession #G-8699, page 4, Field Computation, Camden Bay. The positions of stations TRIPOD, 1948, and HOUSE, 1948, are shown on Forms 524 executed in the Washington Office. (Also fm 567, attached)

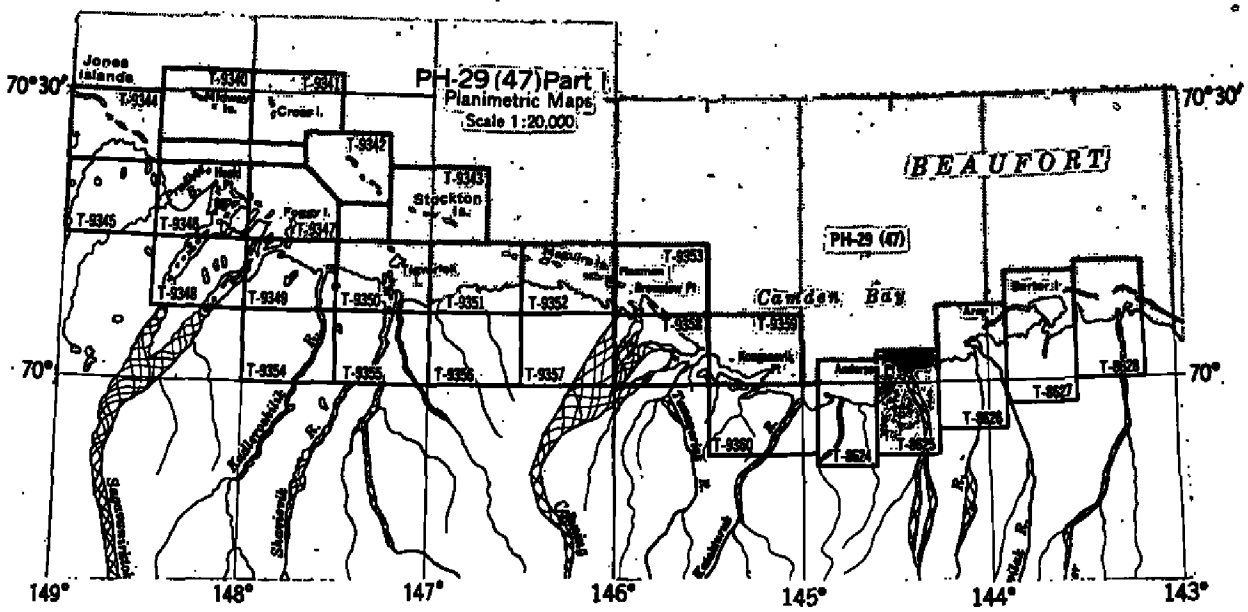
M-2618-12(4)

PLANIMETRIC MAPPING PROJECT PH-29(47)

Photographs taken July 1947 Scale 1:20,000

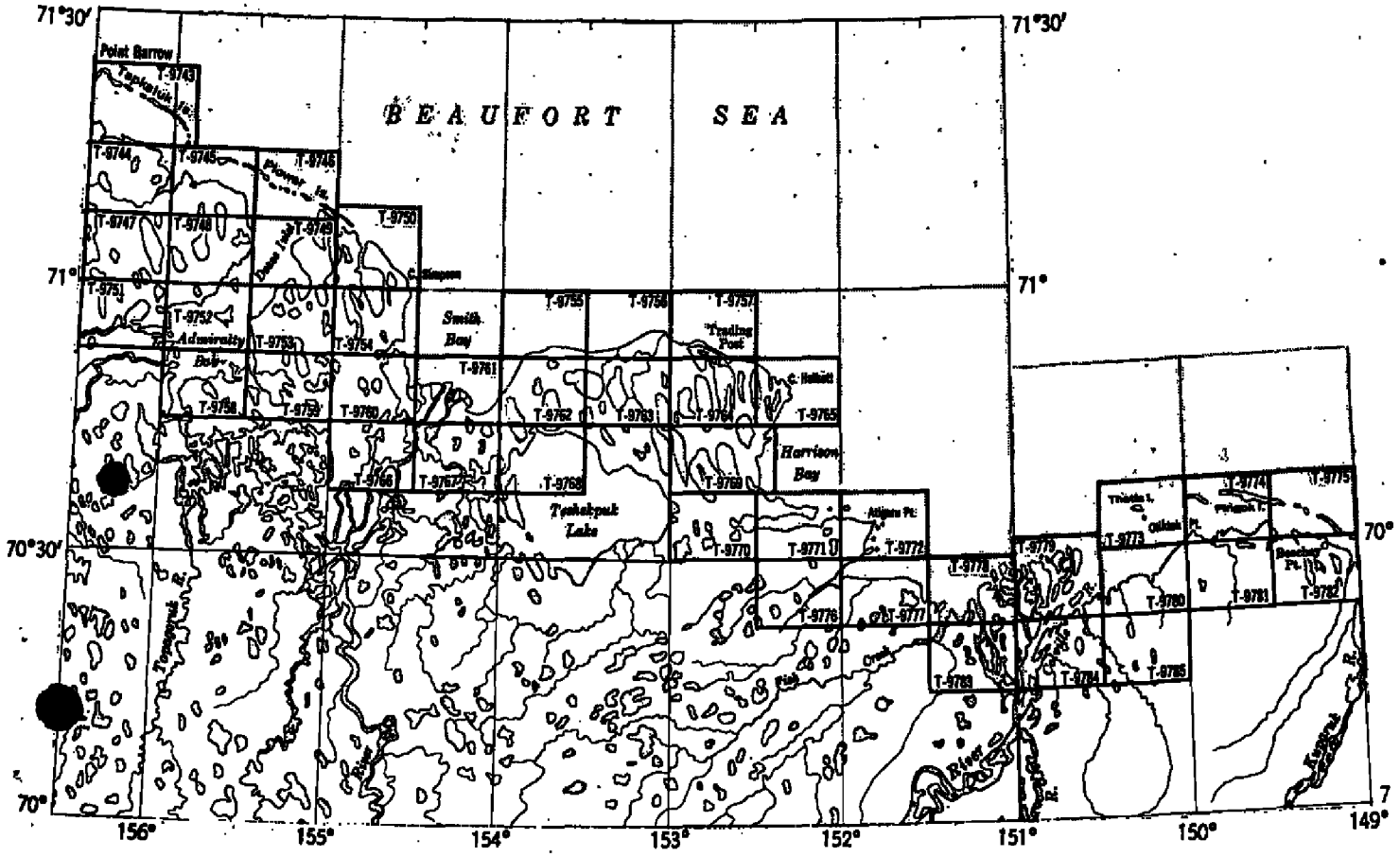
Part I

ALASKA Barter Island to Jones Islands



Part II

ALASKA Jones Islands to Point Barrow



Summary to Accompany T-8625

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° 10' to 156° 30' west longitude.

This project was designed as surveys for new nautical charts at a much larger scale than the present regional chart ~~and to furnish bases to the U. S. Geological Survey for projected topographic maps~~.

T-8625 is one of the part I group. It includes the Saligochit River, Anderson Point at the eastern extremity of Camden Bay, and Kajutakrok Creek.

* * * * * * * * *

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 as a whole, and will list the materials received, with a statement of their disposition.

FIELD INSPECTION REPORT
Map Manuscript T-8625
Project Ph-29(47)

Refer to:

FIELD INSPECTION REPORT
Brownlow Point to Camden Bay
Arctic North Coast of Alaska
Project CS-320
1950
R. A. Earle, Chief of Party.

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript T-8625 ~~(Revision)~~
Project Ph-29(47)

Facts relative to the radial plot for this map manuscript are contained in ~~a~~ Photogrammetric Plot Report for T-8624 and T-8625 ~~(Revision)~~ which is included with the Descriptive Report for T-8624. ~~(Revision).~~

COMPILATION REPORT
Map Manuscript T-8625 ~~(Revision)~~ *
Project Ph-29(47)

See Compilation Report for T-8624.
All facts relative to map manuscript T-8624 are applicable to map manuscript T-8625 except as follows:

38: CONTROL FOR FUTURE SURVEYS:

Not applicable to the compilation work. There is one recoverable topographic station, namely, DEN, 1950, which was located by the 1950 Arctic Party, and two others, namely, HOUSE, 1948 and TRIPOD, 1948, for which positions were furnished on Forms 524 by the Washington Office, plotted on the map manuscript.

39: JUNCTIONS:

A junction has been made to the ~~east~~ west with T-8624. No map manuscript was furnished this office in order to make a junction on the ~~west~~ east. This can easily be made since only very slight changes were made at this junction in the revision compilation.

Approved:
Charles W. Clark
Charles W. Clark
Chief of Party

Respectfully submitted:
J. Edward Deal Jr.
J. Edward Deal, Jr.
Cartographer

* This map was recompiled after it had been originally compiled. However, since the map was recompiled before Registration this additional work is not regarded as a revision.

Photogrammetry

MAP T-8625 PROJECT NO. Ph-29(47) SCALE OF MAP 1:20,000 SCALE FACTOR

PRELIMINARY GEOGRAPHIC POSITIONS
Alaska No. 89 - BARTER ISLAND AREA, ALASKA

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
		Barter Island 1948	70 01 46.953	1455.1	404.3					
ARGUS 1948			144 17 11.720	124.2	511.4					
			69 59 31.339	971.2	888.2					
SCORPIO 1948		"	144 18 05.126	54.4	582.3					
			70 01 36.218	1122.4	737.0					
HYDRA 1948		"	144 20 37.264	394.8	240.8					
			70 00 56.089	1738.2	121.2					
ANDERSON 1948		"	144 28 46.263	490.3	145.6					
			69 58 26.081	808.3	1051.2					
BRADLEY 1948		"	144 27 17.890	190.0	447.3					
			69 57 45.089	1397.3	462.1					
CANIS 1948		"	144 28 27.763	241.9	395.7					
			69 59 09.178	284.4	1575.0					
KOGANAK 1949		"	144 33 33.581	356.5	280.4					

1 FT. = .3048006 METER

COMPUTED BY: C. H. DATE 28 Dec. 1948 CHECKED BY: DATE

M-2388-12

Photogrammetry

MAP T- 8625 PROJECT NO. Ph-29(47) SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
Sub Pt. "a" Koganak 1948	M-2500 -11	Barter I.1948	69 59	323.6	1535.8					
			144 33	296.7	340.2					
Sub Sta. "How" ARGUS 1948	"	"	70 01	1816.7	42.7					
			144 17	329.0	306.5					
(3 Pt. Fix, n.m. n.d.) KYT 1948	"	"	70 01	1560.8	298.6					
			144 23	501.1	134.4					
Sub Pt "a" KYT 1948	"	"	70 01	1543.5	315.9					
			144 23	594.7	40.9					

1 FT. = .3048006 METER

COMPUTED BY: DATE CHECKED BY: DATE

M-2388-12

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ STRIKE OUT ONE

Washington, D. C. 29 Aug. 1950

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by S. J. Hathorn

~~L. C. Lende~~ *Chief of Party.*

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Tripod	Wood, 16' high (legs of 2" x 4" 12' high with 3" x 3" center pole)	Kyt	70 01	1560.8	144 23	47.3	I.1948	Barter Transit H-7656	1948		x		9400
House	Log	How	70 01	1816.7	144 17	329.0	"	"	"		x		9400

The above were not recommended as landmarks by the field parties (according to Lew Evans), but are shown on Arctic Coast Chart No. 8, corrected to 3-13-50.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* ... and not by

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~XXXXXXXXXXXXXXXX~~ } STRIKE OUT ONE

Arctic Shore Party 30 Nov., 1948

I recommend that the following objects which have ~~[illegible]~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by Horace G. Conerly

Hubert A. Paton *Chief of Party.*

STATE Alaska

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.S. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Pole	30 ft. log braced in upright position on top of bluff(n.d.)	Large	70 00	1818.5	144 29	449.7	Barter I.1948	Trieng.	May '48			x	9400
	Above info. abstracted by S.J.H. from Form 567 by H.A.P., Dec. 1948 in Chart Division - June 1950.												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* [illegible] of the area and not by

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-8625 ~~(Preliminary)~~

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) ✓ 7. Photo hydro stations • 8. Bench marks ____

9. Plotting of sextant fixes ____ 10. Photogrammetric plot report ✓ 11. 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 alongshore 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. Rex H. Borrow (Reviewer) / J. Edward Deal Jr. (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:

48: GEOGRAPHIC NAMES LIST:

Anderson Point
Beaufort Sea
Camden Bay
Kajutakrok Creek
*Saligochit River

Alaska Arctic Coast } for title

*In the final name sheet a river is called the Saligochit River, but is referred to in the description of triangulation station ANDERSON, 1948, as Sadlerrochit River. (= former spelling L.H.)

Names underlined in red are approved.
10-2-51
L. Heck

Review Report T-8625
Planimetric Map
2 October 1951

61. General Statement:

As in the area of T-8624, the tundra plains are practically free of ponds because they are rising toward the mountains south of the mapped area. Drainage is well developed because of this gradient, and because of the structural conditions. Concentric ridges west of Saligochit River give rise to a corresponding concentric drainage pattern.

62. Comparison with Registered Topographic Surveys:

No earlier surveys have been made for this area.

63. Comparison with maps of other Agencies:

None.

64. Comparison with Contemporary Hydrographic Surveys:

H-7659 1:20,000 1948 (Boat Sheet ARN 2348)

In compliance with office instructions (Dec. 14, 1949) the off-shore bars were transferred from the hydrographic survey because of the changes in form occurring between the date of the pictures and of field inspection.

65. Comparison with Nautical Charts:

9400 1:1,587,870 (at 70° 00') ed. May 1947, rev. Nov. 1950
The scale of N.C. No 9400 is not comparable because of the vast difference in scale. No comparison has been made with the larger scale confidential charts

66. Accuracy:

The shoreline and near-shore features on this map manuscript meets the National Standards of Accuracy. The interior is adequate for charting purposes.

67. Geographic Names:

The names in this project are from "Geographic Names Report, Alaska Arctic Coast, Demarcation Point to Cross Island, Project CS-320", submitted by the Hydrographic party (no signature), September 1948. Supplementary and additional names, same area, was submitted October 1949.

Reviewed by:

Lena T. Stevens

Lena T. Stevens

H. H. Edmonston

Chief, Nautical Chart Branch
Division of Charts

Approved by:

S. V. Griffith 4/25/54

Chief, Review Section
Division of Photogrammetry

Earl O. Heaton

Chief, Division of Coastal
Surveys

L. W. Swanson 10/4/54

Chief, Division of Photogrammetry

Control to be smooth-drafted on T-8625

Triangulation

Tom	
Eureka	1950
Crescent	1950
Pipukpuk	1950
Koganak	1948
Canis	1948
Anderson	1948
Hydra	1948
Nix	1948
Large Pole	1948
Small Pole	1948
Argus	1948
Scorpio	1948

Topographic

Tripod	1948	(ldmk)
Den	1950	
House	1948	(ldmk)

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

T-8625

Ph-29(47) PART I

Jones Islands to vicinity of Barter Island, Alaska

T-9340 thru T-9360 and T-8624 thru T-8628

T-9340 thru T-9360: Flaxman Island Datum, correction in Latitude ranging from minus 3.15 sec. on T-9344 to 4.99 sec. on T-9359, and in Longitude from plus 9.95 sec. on T-9344 to 11.16 sec. on T-9359.

T-8624 thru T-8628: Barter Island 1948 Datum, correction of -1.29 sec. in Latitude and -20.41 sec. in Longitude.

These corrections were converted into meters, and stamped on Page T-2 in each descriptive report and near the title block on each manuscript and cloth-backed recorded map, with the exception that the cloth-backed maps for T-8624 and T-8626 thru 8628 have not been completed. When these maps have been completed, they should be stamped the same as have been their descriptive reports, with the following stamp:

The difference between Barter Island 1948 Datum and preliminary N.A. 1927 Datum is Lat. ~~plus~~/minus 40 m. and Long. ~~plus~~/minus 217 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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 8625

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Aug./49	9400	Reegard	Thru Arctic Chs. #8. Before ~~After~~ Verification and Review
3/50	9483	Burgoyne	Thru Arctic Ch#8 and direct Before ~~After~~ Verification and Review
Apr.'55	9403	H.S. MacSween	~~Before~~ After Verification and Review Thru Chs 9475 and " " 9476
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-I

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.