Diag. Cht. No. 9400

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Planimetric</th>
</tr>
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<tbody>
<tr>
<td>Field No.</td>
<td>Ph-29 (47) 11</td>
</tr>
<tr>
<td>Office No. and T.</td>
<td>9776</td>
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<table>
<thead>
<tr>
<th>LOCALITY</th>
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<tbody>
<tr>
<td>Territory</td>
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<tr>
<td>Source</td>
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<tr>
<td>General locality</td>
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</table>

1945

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

LIBRARY & ARCHIVES
JUN 28 1955
DATA RECORD

T- 9776 and T-9777

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

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

Photogrammetric Office (III): Officer-in-Charge:

Instructions dated (II) (III):
1/13/48, 3/8/50, 2/6/51, 2/3/52 and 2/15/52 (Field)
12/14/49, 1/27/50, 11/9/50 and 11/23/51 (Office)

Copy filed in Division of 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): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 7 Jan. 1955

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): Point Barrow 1945

Vertical Datum (III): Mean Sea Level

Correction Figures to N.A. 1927

Jan. 1945

The difference between Flexman Island Datum and preliminary N.A. 1927 Datum is Lat. plus/minus 15 m. and Long. plus/minus 73 m. G.B.W. 9.54 f.e.

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

Field Inspection by (II): L. W. Eason II
Date: 27 July 1952 to 28 August 1952

Plane table contouring by (II):
Date:

Completion Surveys by (II): L. W. Eason II (Supplemental Control)
Date: 7 May 1952
28 August 1952
23 April 1952

Mean High Water Location (III) (State date and method of location): By stereoscopic examination of the photographs at the Portland Photogrammetric Office in 1950 on photographs taken in 1947.

Projection and Grids ruled by (IV):
Date:

Projection and Grids checked by (IV):
Date:

Control plotted by (III): Gordon R. Combs
Date: 9 February 1953

Control checked by (III): James L. Harris
Date: 26 February 1953

Radial Plot or Stereoscopic Control extension by (III):

James L. Harris and J. E. Deal
Date: 20 March 1953

Planimetry

Stereoscopic Instrument compilation (III):
Contours

Manuscript delineated by (III): T-9776: James L. Harris
Date: 31 August 1953
T-9777: Carita C. Wiebe
23 August 1953

Photogrammetric Office Review by (III): J. E. Deal T-9776
Date: 8 Sept. 1953
J. E. Deal T-9777
18 Sept. 1953

Elevations on Manuscript checked by (II) (III):

J. E. Deal
Date: same as above
PHOTOGRAPHS (III)

<table>
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<tr>
<th>Number</th>
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<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tr>
<td>19919 thru 19921</td>
<td>7/20/47</td>
<td>15:20</td>
<td>1:20,000</td>
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<td>20132 thru 20137</td>
<td>7/25/47</td>
<td>13:30</td>
<td>1:20,000</td>
<td>0.3 ft. above M.L.L.W.</td>
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Tide (III)

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

Washington Office Review by (IV):

Final Drafting by (IV): Robinson AF T-9776
Robinson AF T-9777

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 112
Shoreline (More than 200 meters to opposite shore) (III): 25 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 19 statute miles
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
Recovered: 8  Identified: 8
Number of BMs searched for (II):
Recovered:  Identified:
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
Summary to Accompany T-9776 - 77, Incl.

Planimetric project Ph-29(47) consists of 76 maps, scale 1:20,000; 26 in Part I (Barter Island westward to Jones Islands); 43 in Part II (Jones Islands westward to Point Barrow); and 7 in Part III (U.S.-Can. Boundary westward to Barter Island).

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-9776-77 includes the coast of Beaufort Sea from about three miles south of Atigaru Point eastward to the vicinity of Fish Creek.

When all the maps 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 regarding their disposition.
FIELD INSPECTION REPORT

Map Manuscripts T-9776 thru T-9777

Project Ph-29(47)II

Refer to Descriptive Report:

Shoreline - Photogrammetric

Alaska

North Arctic Coast

Cape Halkett to Colville River

1952

Chief of Party: Max G. Ricketts
PHOTOGRAHAMETRIC PLOT REPORT

Map Manuscripts T-9776 and T-9777

Project Ph-29(47)II

Refer to Photogrammetric Plot Report T--9769 thru
T-9772, T-9776 and T-9777 which is included in the Des-
criptive Report for T-9769 thru T-9772.
COMPILATION REPORT

Map Manuscripts T-9776 and T-9777

Project Ph-29 (47) II

These two map manuscripts portray the shoreline and planimetric details approximately seven miles interior of a portion of Harrison Bay (North Arctic Coast, Alaska) between Colville River and a point 2.5 miles south of Atigaru Point.

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. Exceptions are noted in the following paragraphs.

31. Delineation:

The southwest portion of T-9776 could not be compiled because of insufficient photograph coverage.

35. Shoreline and alongshore details:

There was no field inspection of the mean high-water line at any place in the area of these two map manuscripts. This interpretation was made by stereoscopic study of the photographs aided by experience gained when compiling similar areas in this project where some data on the mean high-water line was obtained by field inspection.

39. Junctions:

Refer to Item 39 Junctions of the Descriptive Report for T-9769 thru T-9772.

The planimetry in T-9778 west of longitude 150°-20' has been revised in order to make a satisfactory junction with T-9777.

Approved:                      Respectfully submitted:

Fred A. Riddell                J. Edward Deal, Jr.
Officer-in-Charge              Cartographer
Portland Photogrammetric Office
48. Geographic Names:

The geographic names Report listed under Item XIV of the field report "Shoreline - Photogrammetric, Alaska, North Arctic Coast, Cape Halkett to Colville River 1952", was not furnished the Photogrammetric Office.

Names shown on the map manuscripts were obtained from the nautical chart, various other maps and descriptions of stations are shown for location purposes only.
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9776 and T-9777


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines ✓ 32. Public land lines ✓

MISCELLANEOUS

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.
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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<td>Arctic Coast</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<td>Harrison Bay</td>
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<td>Kalispik River</td>
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<td>(T-9777)</td>
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<td>4</td>
<td>RNY</td>
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<tr>
<td>Atigara Point</td>
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<td>(tentative T-9776)</td>
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<td>5</td>
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Names approved 10-20-53

L. Heck
APPROVED

La Lande
Chief, Review Branch
Div. of Photogrammetry

Chief, Div. of Photogrammetry
June 27, 1917

Chief, Nautical Chart Branch
Division of Charts

Earl O. Neaton
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 111st Meridian (IBC Datum) to Beaufort Sea (Arctic Ocean), thence westward through the Barter Island 1945, 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.

PLANE METRIC 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 0.95 sec. on T-9777 to plus 9.30 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 thru 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 Flaxman Island 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 Ph-29(47), Parts I, II, & III, filed with this completion report for a project index showing the correction for each map.