9755 9756 9757





FOR OFFICIAL USE ONLY

iag Cht No 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

T-9755 thru

Field No. Ph-29(47)II Office No. T-9757

LOCALITY

State Maska

General localityBeaufort Sea (North Arctic Coast)

Locality Esook, Drew Point

194 7...- 51

CHIEF OF PARTY

Max G. Ricketts, Chief of Party

Fred A. Riddell, Photogrammetric Office,

Portland, Oregon

LIBRARY & ARCHIVES

DATE May 6, 1955

B-1870-1 (I)

DATA RECORD

T - 9755 to T-9757 Incl.

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 (Field) Copy filed in Division of 12/14/49, 1/27/50, 11/9/50, 11/23/51 (Office) hotogrammetry (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 (W) 17 1952 Date reported to Nautical Chart Branch (IV): JUL 28 1952

Applied to Chart No.

Date:

Date registered (IV): 25 June, 1954

Publication Scale (IV):

Publication date (IV):

Point Barrow Geographic Datum (III): Correction figures to NA 1927

are now available

Vertical Datum (III): Mean Set

LTS, Feb. 1953

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

The difference between Point Barrow, 1945 Datum and preliminary N.A. 1927 Datum is Lat. plus/minus / Let.

40 m. and Long. plus/minus 153 m.G.B.W.8/54

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

Long.:

dated 14 December 1949)

Adjusted Unadjusted

Plane Coordinates (IV):

State:

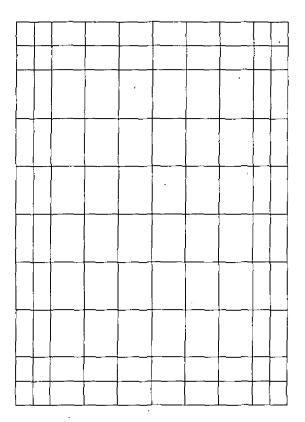
Zone:

Y=

Lat.:

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

Leo W. Eason II Date: Field Season 1951 Field Inspection by (II):

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): Delineated by-stereoscopic examination of photographs with the aid of spot locations shown on reverse side of field photographs.

Projection and Grids ruled by (IV): Date:

Projection and Grids checked by (IV): Date:

Control plotted by (III): C.C. Wiebe, R.A. Davidson, R.H. Barron Date: 2-7-52

Control checked by (III): R.A. Davidson and R.H. Barron Date: 2-7-52

Radial Plot or Stereoscopic J.L. Harris & J.E. Deal Date: 2-13-52

Control extension by (III):

Planimetry Date:

Stereoscopic Instrument compilation (ill): Contours

Manuscript delineated by (III): See reverse side Date:

Photogrammetric Office Review by (III): See reverse side Date:

Elevations on Manuscript R.H. Barron Date: 7-1-52

checked by (II) (III):

Date:

U.S. C. & G.S. - 9 lens - focal length 8.25 inches. Camera (kind or source) (III):

| TAG | RAP | HS (| (HII) |
|-----|-----|------|-------|

| Number | Date | Time | Scale | Stage of Tide |
|----------------|--------------|-------|----------|---------------------|
| 19908 | 7/20/47 | 14:47 | 1:20,000 | 0.8 above M.L.L.W. |
| 20061 to 20068 | Incl.7/25/47 | 10:42 | 1:20,000 | 0.06'above M.L.L.W. |
| 20085 | 7/25/47 | 11:33 | 1:20,000 | 0.02 above M.L.L.W. |

Tide (III)

Diurnal Ratio of Mean | Springst Range

Reference Station: Subordinate Station:

Kodiak, Alaska Point Barrow

Subordinate Station:

Final Drafting by (IV): 55 - W.P. TAYLOR

Drafting verified for reproduction by (IV): TeloHallein

Date: 2 Feb. 1953

Range

6.5

Ranges

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 43

Shoreline (More than 200 meters to opposite shore) (III): 77 14

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

Control/Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

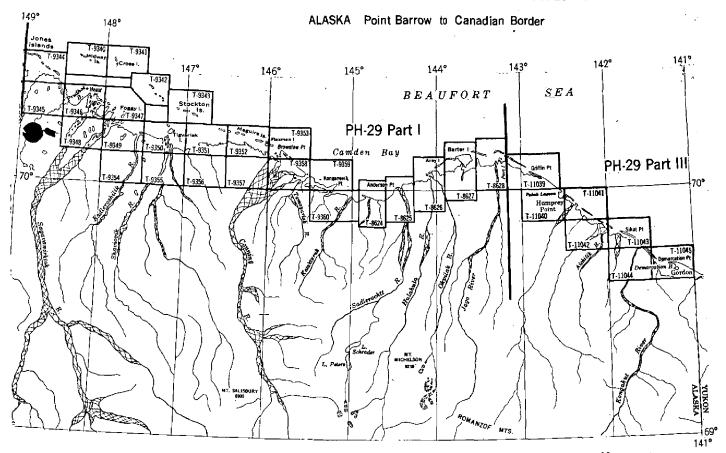
Date:

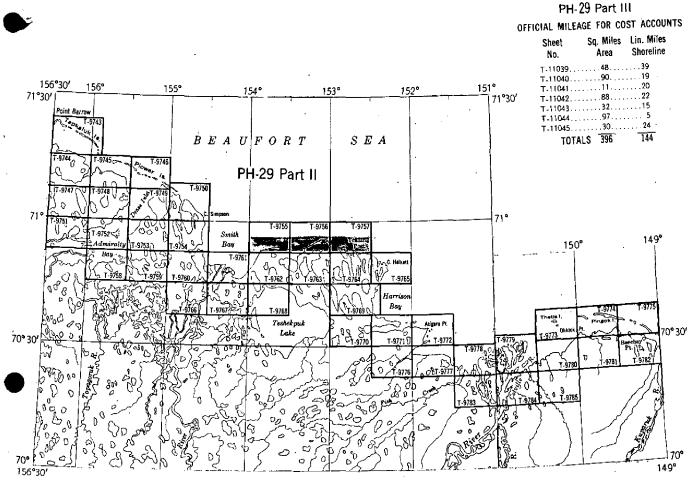
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

PLANIMETRIC MAPPING PROJECT PH-29 1-11-111





Summary to Accompany
Descriptive Report T-9755 to 57 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.

Manuscripts T-9755 to 57 inc. includes the shoreline of Beaufort Sea from Smith Bay eastward to the vicinity of Pitt Point.

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 Nos. T-9755 to T-9757 Incl.
Project Ph-29(47) II

Refer to Descriptive Report.

Shoreline - Photogrammetric Alaska North Arctic Coast Point Barrow to Cape Halkett 1951

Chief of Party: Max G. Ricketts

To be filed in Archives with Completion Report

PHOTOGRAMMETRIC PLOT REPORT Map Manuscripts Nos. T-9755 to T-9757 and T-9762 to T-9765 Project Ph-29(47) II

This radial plot covers an area approximately 9 miles wide along the shore of Beaufort Sea, North Arctic Coast, Alaska from Smith Bay to Cape Halkett and comprises Map Manuscripts Nos. T-9755 to T-9757 and T-9762 to T-9765. The methods used and the results obtained are in general similar to those described in the combined Photogrammetric Plot Report for T-9773 to T-9775 and T-9778 to T-9785 which is included in the Descriptive Report for T-9773 to T-9775.

References in the above report pertaining to offshore barrier islands are not applicable to this radial plot.

Photograph coverage was complete except for the extreme south part of T-9763.

Approved:

Fred A. Riddell

Officer in Charge

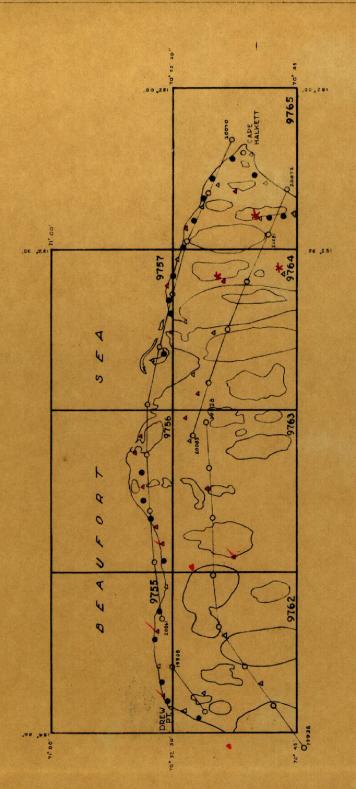
Portland Photogrammetric Office

Respectfully submitted:

Deal Jr.

J. Edward Deal, Jr.

Cartographer



* Recovered in 1952 & Lied into 1962 control (6-95 65) which has been conjected to MA 1927

◆ Horizontal Control Used. ◆ Topographic Stations ○ 1947 Nine Lens Photographs

[20] [47]

ARCTIC COAST OF ALASKA

COMPILATION REPORT Map Manuscripts Nos. T-9755 to T-9757 Project Ph-29(47) II

These three map manuscripts include the planimetric details along the shore of the Beaufort Sea, north Arctic Coast, Alaska from Drew Point to Esook. There are no offshore barrier islands in this area and the character of the planimetry of the mainland is similar to areas previously compiled for this project.

Side headings 32, 34, 35, 36, 39, 40, 46, and 47 of the Descriptive Report for T-9773 to T-9775 and of the Descriptive Report for T-9778 to T-9785 are in general applicable except for remarks pertaining to offshore barrier islands.

33. Supplemental data.

There were no supplemental data.

35. Shoreline and alongshore details.

An exception to remarks contained in side heading 35 of the above references is:

Sketches made in the field and shown on the reverse side of the field photographs gave detailed delineation of the mean highwater line at numerous places.

37. Landmarks and aids.

The special report referred to in paragraph "A" side heading IX of the field inspection report was not furnished this office. 4 3/5 (/95/)

38. Control for future surveys.

Not applicable. Refer to side headings XI and XIV of the field inspection report.

Approved:

Fred A. Riddell

Officer in Charge

Portland Photogrammetric Office

Respectfully submitted:

J. Edward Deal Jr.

J. Edward Deal, Jr.

Cartographer

48: Geographic Names.

The geographic names report referred to in Side Heading XIII of the field inspection report was not furnished this office. The following names were obtained from sources listed below.

T-9755

Beaufort Sea Drew Point Smith Bay

(Perforect names report Correct position = 1530 091 or (Campsite)

Beaufort Sea Esook (abandoned) will age)

Sources

Nautical Charts Nos. 9400 and 9495 Various aeronautical charts Field Inspection Notes Descriptions of Stations

Hames underford in red a ve approved 2-2-53 L. Helf

Review Report T-9755 to 57 Inc. Planimetric Maps 2 February 1953

- Comparison with Registered Surveys: There are no earlier 62. surveys for this area.
- Comparison with Maps of Other Agencies: None 63.
- 64. Comparison with Contemporary Hydrographic Surveys:

H-79211:40,000 1951 (Kolorik to Cape Simpson)

This survey was returned to the field for additional work during the 1952 season.

H-7922 1:40,000 1951-52 (Esook to Kolorik)

No shoreline is shown on either of these surveys.

Offshore from Kokruakrok campsite (T-9756) a submerged sandbar (70° 55' 18"/ 153° 03') is indicated by soundings. Photograph 20064 affords evidence of its existence, but it was not added to T-9756. The descriptive report for H-7922 says that the area between the coast and this bar furnishes safe anchorage for small craft.

Within the limits of T-9757 the hydrographic survey records two areas of minus soundings and a covered sandbar:

- 1. $-0\frac{1}{2}$ at 70° 54' 25"/ 152° 59' 20" 2. -1 at 70° 52' 50"/ 152° 31' 03"
- 3. A sandbar which covers about 4 feet at 70° 54' 08"/ 152° 41'

They were not transferred to T-9757.

in this group Two landmark areas fall on T-9757; the group of buildings belonging to Howard Leavitt at Kolovik, and the buildings at the abandoned trading post Esook. They are labeled on H-7922.

65. Comparison with Nautical Charts:

1:1,587,870 @ 70° May 1947, rev. June, 1952. 9400

No record is attached to the descriptive report to indicate that these map manuscripts have been applied to charts prior to review.

The small scale of the chart affords little basis for for comparison of detail.

66. Accuracy: These three map manuscripts fall within a well controlled area. They are well delineated and meet the National Map Accuracy requirements.

Reviewed by:

Lena T. Stevens

Approved by:

Chief, Review Section Div. of Photogrammetry

Chief, Div. of Photogrammetry

3 may 1958

Chief, Nautical Chart Branch Div. of Charts & FJ

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 14let Meridian (IBC Datum) to Besufort 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 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 Freliminary 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.