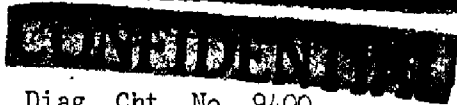
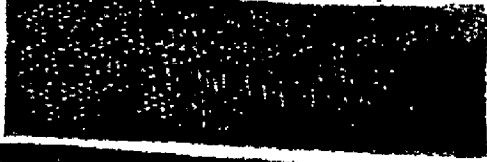


9358



Film

FOR OFFICIAL USE ONL

Diag. Cht. No. 9/00

FOR OFFICIAL USE ONLY

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-9358
(Revision)

LOCALITY

State TERRITORY OF ALASKA

General locality BEAUFORT SEA (ARCTIC COAST)

Locality CANNING RIVER

19A/50

CHIEF OF PARTY

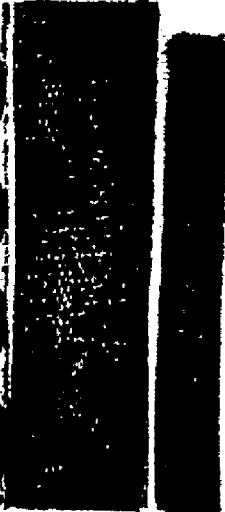
R.A. Earle, Chief of Party.

C.W. Clark, Portland Photogrammetric Office

LIBRARY & ARCHIVES

DATE June 16 - 1953

9358



DATA RECORD

T_9358 (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
Supplemental Instructions

Instructions dated (II) (III): 4 Feb. 1948 Copy filed in Division of
15 Feb. 1949 Field--Project C.S.320 Photogrammetry (IV)
8 Mar. 1950

14 Dec. 1949 Office
9 Nov. 1950

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): 7-16-'51 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 25 Sept 1953

Publication Scale (IV):

Publication date (IV):

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

Flaxman Island
(Corrections to N.A. 1927
available. Jan. 1953.)

Planimetry: MHW

Vertical Datum (III): ~~Mean Lower Low~~

*Elev. Triangulation: "level of sea ice" **
Mean sea level except as follows: water (ice sur-
face)
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

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

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

Lat.: The difference between *Flaxman Island* Long.: datum
and preliminary N.A. 1927 Datum is Lat. plus/minus
145 m. and Long. plus/minus 114 m. G.B.W., 10-54

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.

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

DATA RECORD

Field Inspection by (II): C.A.J. Pauw

Date: 6/12/50 to 7/15/50

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 stereoscope, and then compiled.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): C.C. Wiebe

Date: 12/28/50

Control checked by (III): M.B. Elrod

Date: 12/28/50

Radial Plot or Stereoscopic Control extension by (III): C.C. Wiebe, H.L. Laube, & J.E. Deal

Date: 1/5/51

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): H.L. Laube

Date: 5/14/51

Photogrammetric Office Review by (III): R.H. Barron

Date: 6/19/51

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 | |
| 20160 & 20161 | 7/29/47 | 12:24 | 1:20,000 | 0.6 ft. above M.E.L.W. | |
| 20187 thru 20190 | 7/29/47 | 13:02 | 1:20,000 | 0.5 ft. above M.L.L.W. | |
| 20236 | 7/29/47 | 14:47 | 1:20,000 | 0.4 ft. above M.L.L.W. | |

Tide (III)

Diurnal

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

| Ratio of Ranges | Mean Range | Spring Range |
|-----------------|------------|--------------|
| | 6.6 | 8.5 |
| 0.1 | 0.5 | 0.7 |

Washington Office Review by (IV): *Lena T. Stevens*

Date: 11 Sept. 1951

Final Drafting by (IV): *W.P. Taylor*

Date: 6-24-53

Drafting verified for reproduction by (IV): *W.O. Hallum*

Date: 6-30-53

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 93.0
 Shoreline (More than 200 meters to opposite shore) (III): 35.0
 Shoreline (Less than 200 meters to opposite shore) (III): 50.0
 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): 6*
 Number of Temporary Photo Hydro Stations established (III): None

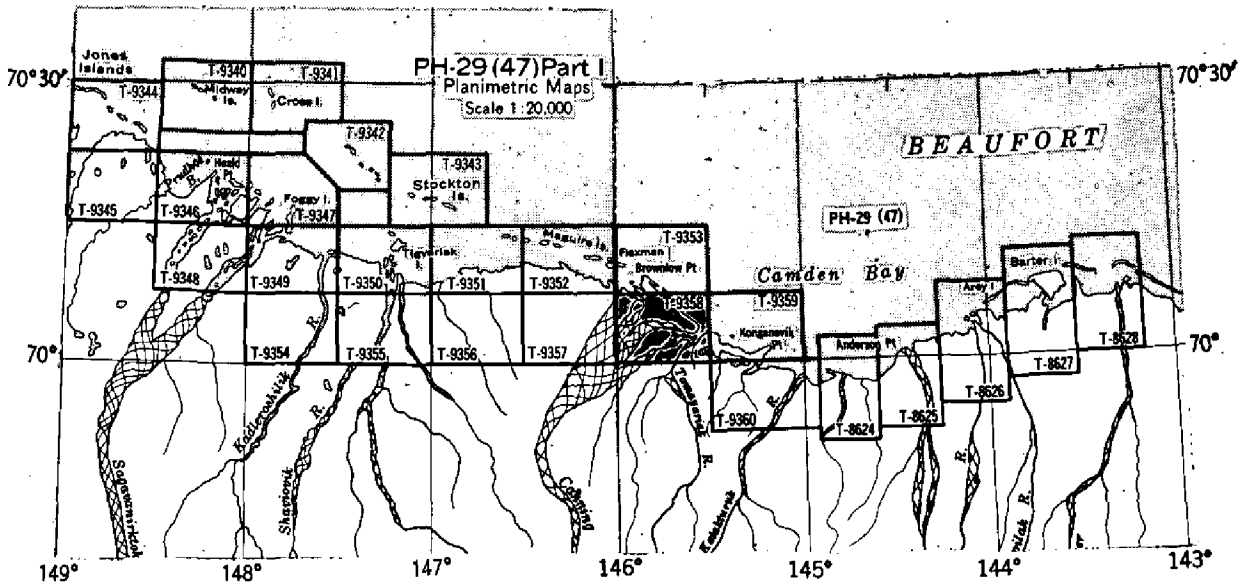
Remarks:

*Positions for the above recoverable topographic stations are listed under Geographic Positions Accession #G-8699, page 2, Field Computations CAMDEN BAY, and it is assumed that Forms 524 have been submitted by the Arctic Party.

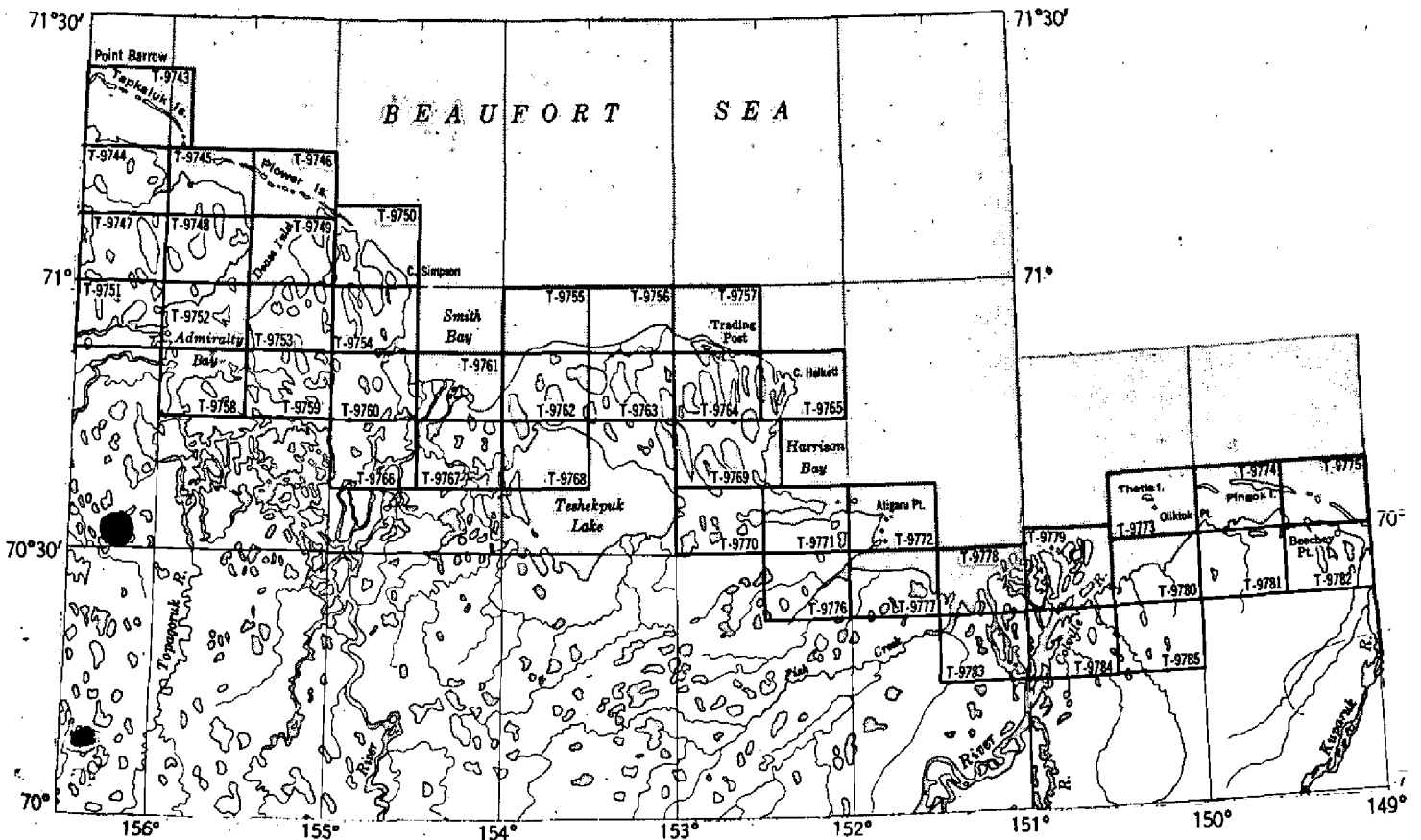
PLANIMETRIC MAPPING PROJECT PH-29(47)

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-9358 (Revision)

Planimetric project Ph-29(47) consists of 69 maps, scale 1:20,000, - 26 in Part I (Martin Point westward to Jones Islands) and 43 in Part II (Jones Islands westward to Point Barrow). The project extends from $143^{\circ} 10'$ to $156^{\circ} 30'$ west longitude, Arctic Ocean coastal area (Beaufort Sea).

The project was designed to furnish basic surveys for special nautical charts.

T-9358 is one of the Part I group. It includes the main channel and several distributaries of the Canning River, and Tamayariak Creek.

FIELD INSPECTION REPORT
Map Manuscript T-9358 (Revision)
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

Filed in Archives with Completion Report.

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscripts T-9353 (Revision), T-9358 (Revision), T-9359, and T-9360
Project Ph-29 (47)

21: AREA COVERED:

The area of this radial plot covers a strip of land from 5 to 12 miles wide along the Beaufort Sea from Brownlow Point to about 3 miles east of the mouth of Katakaturuk River.

The areas of T-9353 and T-9358 were previously included in a radial plot made in March 1950 using horizontal control stations identified by the 1949 Arctic Field Party. The identification of horizontal control stations during that year had not progressed east of Brownlow Point so none were identified in the southern part of T-9353 or in the entire area of T-9358.

The 1950 Arctic Field Party located and identified numerous horizontal control stations within the areas of these two sheets and also easterly to Anderson Point. In order to ascertain if the original radial plots for T-9353 and T-9358 would agree with the 1950 control, they were included along with T-9359 and T-9360 in a combined radial plot, which was completed in January 1951.

Refer to the Photogrammetric Plot Report for map manuscripts T-9344(1949) to T-9358(1949) incl. which is included in the Descriptive Report for T-9344(1949) to T-9348(1949) incl., Project Ph-29(47), for facts concerning the original Photogrammetric Plot for T-9353 and T-9358.

22: METHOD:

The radial plot was run by the usual hand templet method. Base grids were not used and the templates were oriented directly on the four map manuscripts which had been joined together with cellulose tape.

Paragraphs 15 to 18 incl. of Side Heading 22: "Method" of the Photogrammetric Plot Report for T-9344 to T-9358 incl., Project Ph-29(47), are applicable to this radial plot.

The results of this radial plot did not indicate any changes from the results of the previous radial plot for T-9353. In the area of T-9358 the results of this plot indicated that the previously compiled planimetry should be revised over most of the sheet.

23: ADEQUACY OF CONTROL:

There were sufficient horizontal control stations identified to adequately control the radial plot.

The observations on station INLAND, 1950 were doubtful but a fourth-order position was computed that agreed with the radial plot location. The computations are being submitted with the map manuscripts in a sealed envelope marked "Confidential". *Given to Geodesy (11-29-1951) to add to 945/672, 6-8699 in Bu. Archives*

24: SUPPLEMENTAL DATA:

There were no supplemental data furnished for the area of this radial plot.

25: PHOTOGRAPHS:

Photographs were adequate for coverage, overlap, and definition except for an area in the southwest corner of T-9360 which was not covered by the photography furnished.

A sketch for the area of this radial plot and an adjoining radial plot to the east showing map manuscript layout, location of photograph centers, and horizontal control stations is attached.

26: REMARKS:

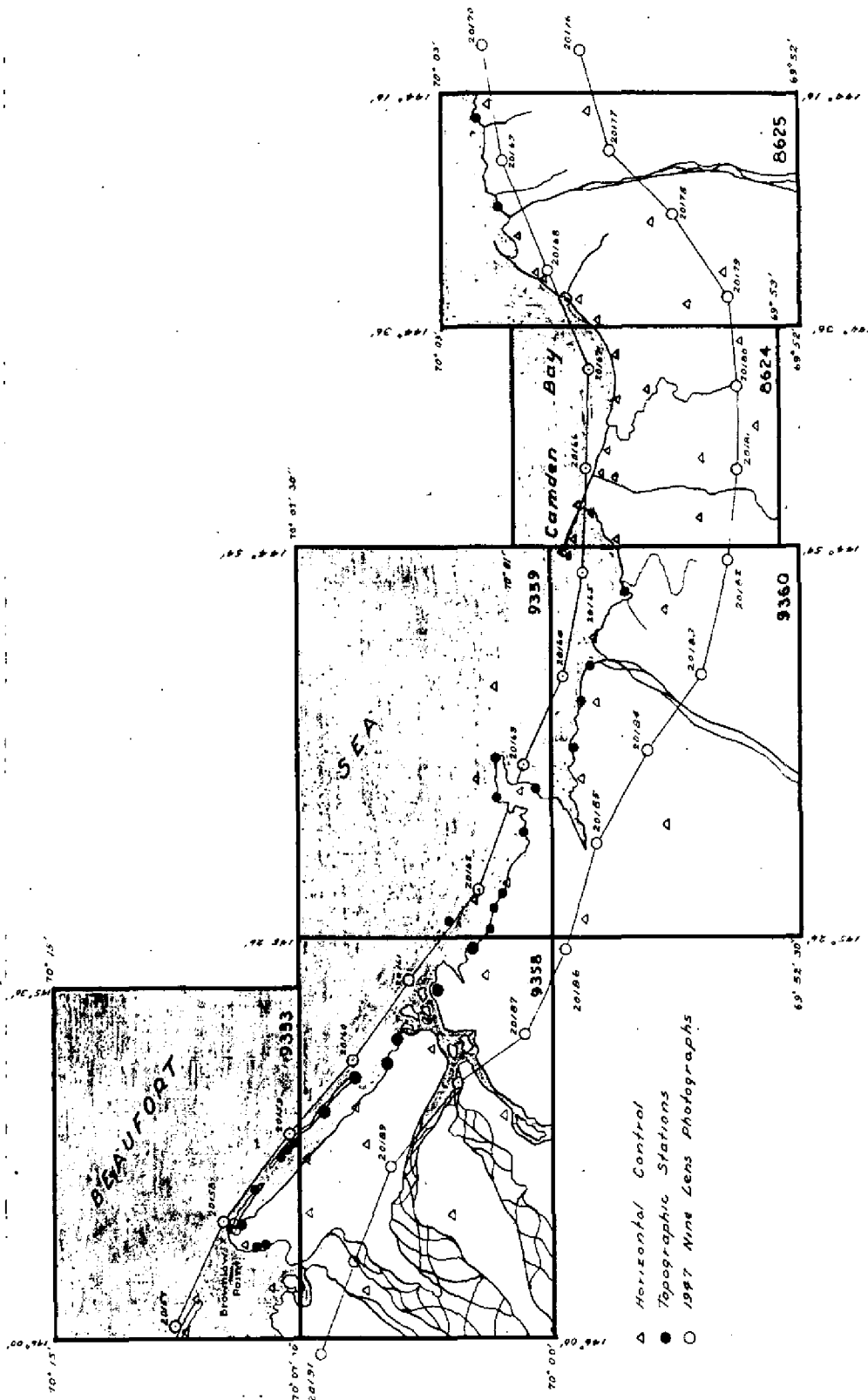
In accordance with the original instructions for Project Ph-29(47) dated 14 December 1949 Forms M-2388-12, "Control Station", have not been included.

Approved:

Charles W. Clark
Charles W. Clark
Chief of Party

Respectfully submitted:

J. Edward Deal Jr.
J. Edward Deal, Jr.
Cartographer



DH-29 (44)
ARCTIC COAST OF ALASKA

COMPILATION REPORT
Map Manuscript T-9358 (Revision)
Project Ph-29(47)

31: DELINEATION:

It was stated in the original compilation report for T-9358 that the planimetry on this sheet was probably sub-standard and this assumption was verified when a new radial plot was run using additional horizontal control identified by the 1950 Arctic Field Party. In general the entire area of the map has been revised except for a narrow strip along the junction with T-9353.

Graphic methods were used for the compilation work. Numerous minor pass points were established by radial intersections, at the compilation table, to supplement the horizontal control and radially plotted pass points when compiling the planimetry.

When compiling other maps in this project, to the west of T-9358, the symbolization of certain planimetric details were shown as decided from conferences with the Arctic Party and by correspondence with the Washington Office. Wherever applicable, similar symbols for planimetric details have been shown on this map manuscript.

Refer to the combined Descriptive Report for T-9344(1949) to T-9348(1949) incl., side heading 31: "Delineation", for a general discussion of delineation in the area of this project.

32: CONTROL:

The identification, density, and placement of horizontal control stations was adequate.

33: SUPPLEMENTAL DATA:

There was none for this map manuscript.

34: CONTOURS AND DRAINAGE:

Contours are not applicable. Drainage has been delineated by stereoscopic study of the photographs in the office.

35: SHORELINE AND ALONGSHORE DETAILS:

The spot locations of the mean high water line indicated on the field photographs were used along with a stereoscopic examination of the office photographs to delineate the mean high water line.

Areas that are believed to bare at low-water stages have been shown with an appropriate symbol.

All alongshore details visible on the photographs have been delineated unless they were deleted by the field party.

36: OFFSHORE DETAILS:

No offshore features were ascertained from examination of the photographs or indicated by field inspection.

37: LANDMARKS AND AIDS:

It is assumed that the Arctic Party has completed recommendations for these features and submitted them to the Washington Office.

38: CONTROL FOR FUTURE SURVEYS:

Not applicable to the compilation work. There are six recoverable topographic stations plotted on the map manuscript which were located by the 1950 Arctic Party. 95/672-G-8699

39: JUNCTIONS:

Satisfactory junctions have been made with adjoining map manuscripts.

40: HORIZONTAL AND VERTICAL ACCURACY:

Vertical accuracy is not applicable. There are no areas believed to be sub-normal in horizontal accuracy.

46: COMPARISON WITH EXISTING MAPS:

There were none available to this office for comparison purposes.

47: COMPARISON WITH NAUTICAL CHARTS:

Visual comparison was made with Chart 9400, edition of May 1947, hand-corrected 1/16/50, scale 1:1,557,570 at latitude 70° 00'.

Items to be applied to nautical charts immediately:
"None".

Approved:

Charles W. Clark
Charles W. Clark
Chief of Party

Respectfully submitted:

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Cartographer

48: GEOGRAPHIC NAMES LIST:

Beaufort Sea
Canning River
Tamayagiak Creek

Approved
6-30-53
a.j.w.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9358

- 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 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. Ree H. Barron 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 completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

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

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 Flaxman Island Datum
and preliminary N.A. 1927 Datum is Lat. ~~xxx~~/minus
— X m. and Long. plus/~~xxxx~~ X 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.

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 (IEC 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

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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 ~~reduced~~ 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 Flaxman Island Datum
and preliminary N.A. 1927 Datum is Lat. ~~xxx~~/minus
— X.m. and Long. plus/~~xxx~~ X.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 9358

Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|---------|-------|-----------------|--|
| 2/17/55 | 9474 | JJ Walker et al | Before After Verification and Review |
| Apr 55 | 9403 | H MacEwen | Before After Verification and Review thru. Chrt 9474 and " " 9475 |
| | | | Before After Verification and Review |
| | | | Before After Verification and Review |
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| | | | Before After Verification and Review |
| | | | Before After Verification and Review |

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.