

9344 - 9348

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*3.6m*



Diag. Cht. No. 9400

9348



Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	PLANIMETRIC
Field No.	Ph-29(47)I Office No. T-9344, 9345, 9346, 9347 & 9348
LOCALITY	
State	ALASKA
General locality	BEAUFORT SEA (ARCTIC COAST)
Locality	RETURN ISLANDS TO SAGAVANIRKTOK RIVER
1949	
CHIEF OF PARTY	
R. A. Earle, Field Party, C.W. Clark, Portland, Oregon Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE July-13-1953	

9344-



## DATA RECORD

T- 9344 to T-9348 Incl.

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

Field Office (II): Barter Island, Alaska

Chief of Party: R.A. Earle

Photogrammetric Office (III): Portland, Oregon  
4 February 1948 Field

Officer-in-Charge: C.W. Clark

Instructions dated (II) (III) 15 February 1948  
14 December 1949 - OfficeCopy 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): 7-20-50 Date reported to Nautical Chart Branch (IV): 7-24-50

Applied to Chart No.

Date:

Date registered (IV):

DEC 24 1952

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): FLAXMAN ISLAND

Elev. Triangulation - "Level of Sea Ice"  
Unknown (Assumed)

Vertical Datum (III): Mean High Water)

*Correction - Flaxman Island datum to  
Preliminary N.A. 1927, see reverse  
side of this page. G.B. Willey, 10-54.*

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

*difference between "Level of Sea Ice" and mean sea level not obtained.*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.



T-9344 to T-9348 Incl.

T-9344 The difference between Flaxman Island Datum and preliminary N.A. 1927 Datum is Lat. ~~plus~~/minus 98 m. and Long. ~~plus~~/minus 104 m.

T-9345 The difference between Ditto Datum and preliminary N.A. 1927 Datum is Lat. ~~plus~~/minus 104 m. and Long. ~~plus~~/minus 104 m.

T-9346 The difference between F.I. Datum and preliminary N.A. 1927 Datum is Lat. ~~plus~~/minus 109 m. and Long. ~~plus~~/minus 104 m.

T-9347 The difference between F.I. Datum and preliminary N.A. 1927 Datum is Lat. ~~plus~~/minus 115 m. and Long. ~~plus~~/minus 105 m.

T-9348 The difference between Flaxman Island Datum and preliminary N.A. 1927 Datum is Lat. ~~plus~~/minus 114 m. and Long. ~~plus~~/minus 107 m.

Block No. (W) 1 (W) 1  
Photogrammetric Office (W) Portland, Oregon  
A February 1948 Field  
A February 1948  
A December 1949 - Office

Chief of Party  
Office-in-Charge

Photogrammetric Office

Method of Computation (W) Graphic  
Magnetic Date (W) 1:50,000  
Scale Factor (W) None

Stereoscopic Plotting Instrument Scale (W)

Date received in Washington Office (W)  
Applied to Chart No.

Date reported to National Chart (W)

DEC 24 1952

Publication date (W)

Uniform (Assumed)  
Vertical Datum (W) Mean High Water

Geographic Datum (W) FLAXMAN ISLAND

Mean sea level extent as follows:  
Elevations refer to mean high water

Reference Station (W) (see sub-heading 13 of Office Instructions W-29 (W) dated  
A December 1949)

Adjusted  
Unadjusted

Plane Coordinates (W)

Zone

State

Latitude

Longitude

Height

Depth

Area

Volume

Weight

Other

Remarks

Notes

References

Publications

Maps

Charts

Books

Articles

Other

Remarks

Notes

References

Publications

Maps

Charts

Books

Articles

Other

Remarks

Notes

References

Publications

Maps

Charts

Books

Articles

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Articles

Other

Remarks

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References

Publications

Maps

Charts





## DATA RECORD

Field Inspection by (II): C.A.J. Pauw and L.M. Gancung

Date: Season 1949

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): From 1949 Field Inspection Data; Shoreline indicated on boat sheets; examination of the photographs with the aid of the stereoscope, and by conference with personnel of the Arctic Party in Seattle, Washington on 1 March 1950.

Projection and Grids ruled by (IV): Washington Office (2nd ruling)

Date: February 1950

Projection and Grids checked by (IV): Washington Office (2nd ruling)

Date: February 1950

\* Control plotted by (III): M.B. Elrod, C. Wiebe, and J.L. Harris

Date: 28 Dec. 1949 to  
9 Jan. 1950

\* Control checked by (III): R.A. Davidson, M.B. Elrod, and C. Wiebe

Date: 5 Jan 1950 to  
9 Jan 1950Radial Plot or Stereoscopic James L. Harris and J.E. DealDate: 13 March 1950  
(Final)

Control extension by (III):

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): T-9344 - R.A. Davidson  
T-9345 - M.B. Elrod  
T-9346 - C. Wiebe (Final)  
T-9347 - M.B. Elrod  
T-9348 - M.B. Elrod

Date: 21 March 1950 to  
14 April 1950Photogrammetric Office Review by (III): Ree H. Barron (all sheets)  
(Final)Date: 28 April 1950 to  
7 July 1950Elevations on Manuscript  
checked by (II) (III): Ree H. BarronDate: 28 April 1950 to  
7 July 1950

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

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
20025 to 20031 Incl.	7-23-1947	10:49-10:56		1:20,000	
20105 to 20110 Incl.	7-25- "	12:12-12:17		"	
20206 to 20212 Incl.	7-29- "	13:21-13:35		"	
20222	" " "	14:32		#	

Note: Date and time of above photography was not furnished the photogrammetric office.

Tide (III)

Reference Station: *Kodiak*  
 Subordinate Station: **Flaxman Island, Arctic Ocean**  
 Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal
		Range
0.1	0.5	0.7

Washington Office Review by (IV): *Lina J. Stevens*

Date: *19 Feb. 1951*

Final Drafting by (IV): *Barto. J. J. J.*

Date:

Drafting verified for reproduction by (IV): *G.M. Breone*

Date: *1/18/52*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **195**

Shoreline (More than 200 meters to opposite shore) (III): **117.9 statute miles**

Shoreline (Less than 200 meters to opposite shore) (III): **87.9 " "**

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): **24** Recovered: **24** Identified: **17**

Number of BMs searched for (II): - Recovered: Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

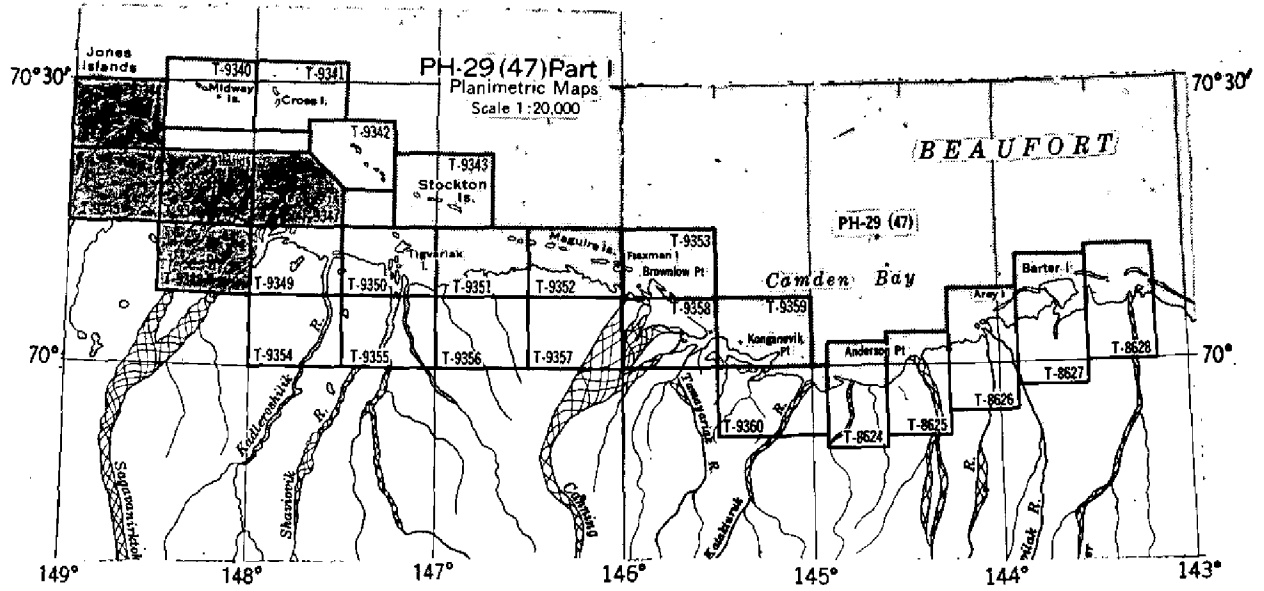
Remarks: \* Horizontal control stations were transferred from the original corrected projections to the final correctly drawn projections by matching meridians and parallels common to each.



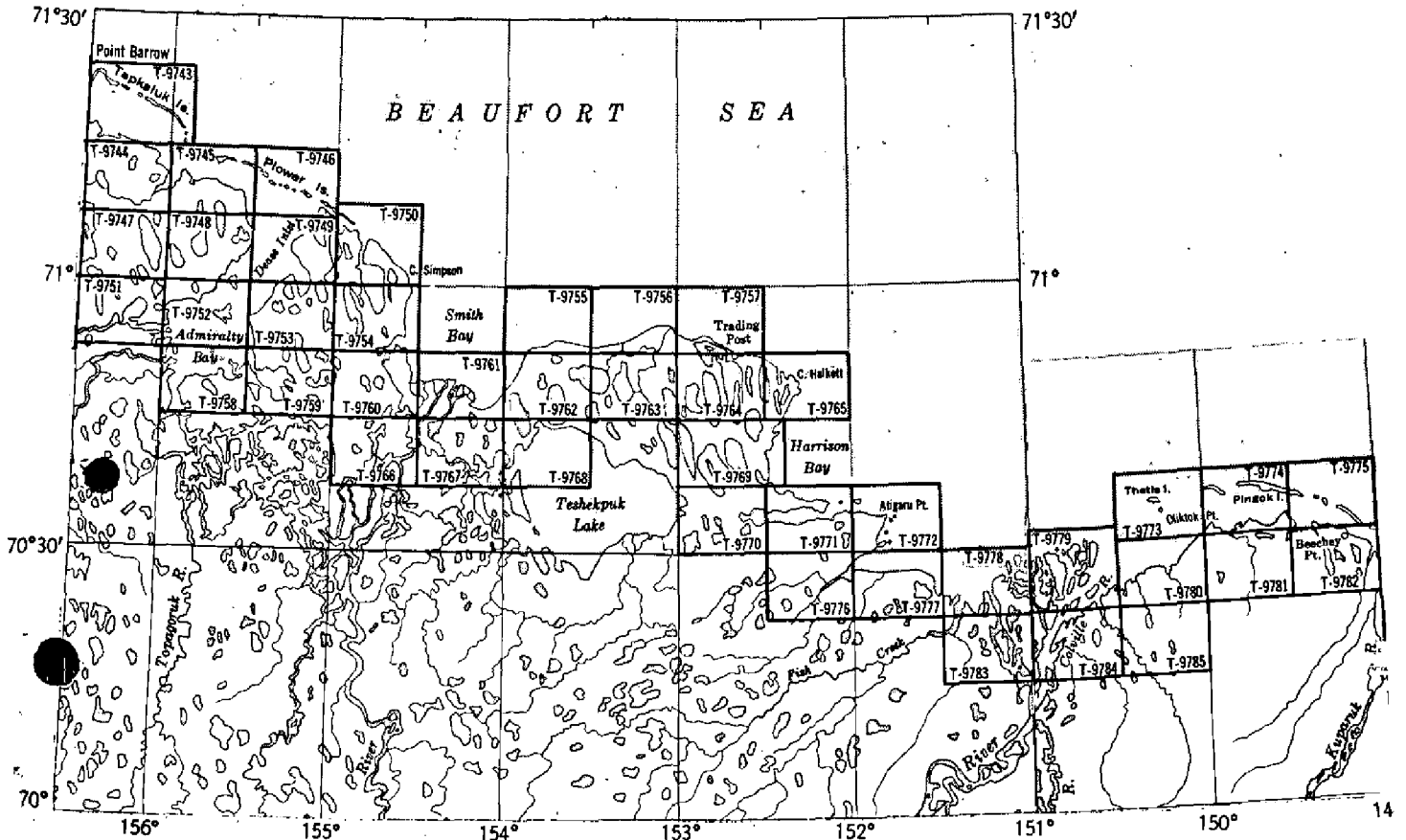
# PLANIMETRIC MAPPING PROJECT PH-29(47)

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-9344 to T-9348

As of this date (Feb. 1951), 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 (Kuparuk River westward to Point Barrow). The project area extends from 143°10' to 156°30', west longitude, Arctic Ocean coastal area (Beaufort Sea).

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

T-9344 to T-9348 are a part of the Part I group and cover Return Islands, Putuligayuk River, Heald Point, Foggy Island, and Sagavanirktok River.



FIELD INSPECTION REPORT  
Map Manuscripts T-9344 to T-9348 Incl.  
Project Ph-29(47)

The photogrammetric office was not furnished a detailed field inspection report for Project Ph-29(47).

There are certain field inspection data included in a report submitted by the Arctic Party entitled: "Photogrammetric Control Station Identification, Return Island to Brownlow Point, Arctic Coast, Alaska, Project CS 320, 1949". *R.A. Earle*

*Library & Archives  
with Completion Report*

PHOTOGRAMMETRIC PLOT REPORT  
Map Manuscripts T-9344 to T-9358 Incl.  
Project Ph-29(47)

21: AREA COVERED:

The area of this radial plot covers a strip of land, approximately nine miles wide, along the south shore of Beaufort Sea (Arctic Coast), Alaska from Return Islands to Brownlow Point. It comprises Map Manuscripts No'd. T-9344 to T-9358 incl.

Refer to the descriptive report for T-9340 to T-9343 incl., (1949) Project Ph-29(47) for the photogrammetric plot report for the island groups in this vicinity.

22: METHOD:

For facts relative to the first radial plot work in the area of map manuscripts No'd. T-9344, T-9346, and T-9347 refer to a letter to Chief, Division of Photogrammetry dated, 10 February 1950, Subject: "Map Manuscripts Ph-29(47)", a copy of which is attached.

The radial plot was laid with hand templates. Work was first concentrated in the areas of T-9344 to T-9347 incl., and T-9349 to T-9353 incl.

Base grid sheets were not used and the templates were oriented directly on the joined map manuscripts, which were subject to the following special conditions.

In letter No. 711-rs, dated 26 January 1950, Subject: "Projections for Project Ph-29", this office was informed that the projections, originally furnished for this project, were ruled in error and that correctly ruled projections, for the entire project, would be furnished about 1 March 1950.

Lt. Comdr. Clark and the writer had arranged a conference with personnel of the 1949 Arctic Party, in Seattle on 1 March 1950 for the purpose of discussing photograph interpretation and symbols to be used for showing certain planimetric features common to the area of this project.

It was desirable to complete the compilation of planimetric details on several maps so that satisfactory material would be available for discussion and criticism at this meeting. It was not deemed advisable to postpone this compilation work, pending receipt of new projections, because the Arctic Party was due to depart for the 1950 field season early in March 1950.

The erroneous projections for T-9344 to T-9347 incl. and T-9349 to T-9353 incl. were therefore corrected at this office and the horizontal control stations, falling on these sheets, were plotted and checked.



Work then proceeded on a radial plot which was at that time considered to be preliminary to a final radial plot to be laid later on correct projections ruled in the Washington Office.

The plot started with a combined radial plot for the area of T-9344 to T-9347 incl. and progressed easterly until a radial plot for all map manuscripts, included in this report and having shoreline in their areas, was completed.

The results of this radial plot were satisfactory and were transferred to the reverse side of the map manuscripts.

Shoreline was then compiled for the areas of map manuscripts T-9349 to T-9353 incl. and ozalid prints showing this work were forwarded to the Washington Office.

The correct projections, ruled in Washington, were received early in March 1950. Comparison between the corrected original projections and the new projections revealed only minor differences and, because no change would occur when plotting the horizontal control stations on the new projections, it was not believed necessary to lay a new radial plot for the areas in which a radial plot had been completed.

The control stations, pass points, and location of photograph centers established in the completed radial plot were transferred to the new projections by matching meridians and parallels.

The new projections for map manuscripts T-9348 and T-9354 to T-9358 incl. were then added to the area of the completed radial plot and a radial plot for these sheets was completed to the extent of photograph coverage.

Unmounted nine lens office photographs taken in 1947 were used in this radial plot. Refer also to Side Heading 25 of this report.

Sufficiently well defined pass points were selected for location during the radial plot for use in supplementing the horizontal control stations when orienting the photographs during compilation.

Templets were drawn on 36" x 36" x .005" sheets of clear acetate (Kodapak). Master templet No. 21682, dated September 1948 was used to correct the radials for transforming errors and for errors due to paper distortion.

It is believed that the results of this radial plot were satisfactory because the horizontal control stations were strongly held to and excellent intersections of radials to pass points were obtained.

*See Descriptive Report T-9358 (Revision)*



23: ADEQUACY OF CONTROL:

There were sufficient horizontal control stations identified to adequately control the radial plot in the areas along the shoreline. The interior areas of T-9345, T-9348, and T-9354 to T-9358 incl. were poorly controlled especially along the south side of the photograph flight No'd. 20222 to 22236 incl. The sub-stations for Station PINGUT, 1949 could not be held in the radial plot. From the published description and stereoscopic examination of the photographs a point was pricked on the office photographs which is believed to be Station PINGUT and which held to the plotted position in the radial plot.

24: SUPPLEMENTAL DATA:

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

25: PHOTOGRAPHY:

Photographs were for the most part adequate as to coverage, overlap and definition. Numerous changes of scale between chambers and double images along the chamber lines are evident. It was possible to obtain a tie between Stockton Islands and the mainland on only one photograph. Return Islands, Maquire Islands, and Flaxman Island were tied to the mainland by several photographs. Midway Islands, Cross Islands, and McClure Islands were not tied into the mainland by photograph coverage.

Tilt was computed for photograph No. 20206 and found to be approximately  $2^{\circ} 30'$ . The iso-center was used for the radial center on this photograph. Photograph No. 20221 is believed to be tilted more than 10 degrees and was disregarded for use in the radial plot.

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

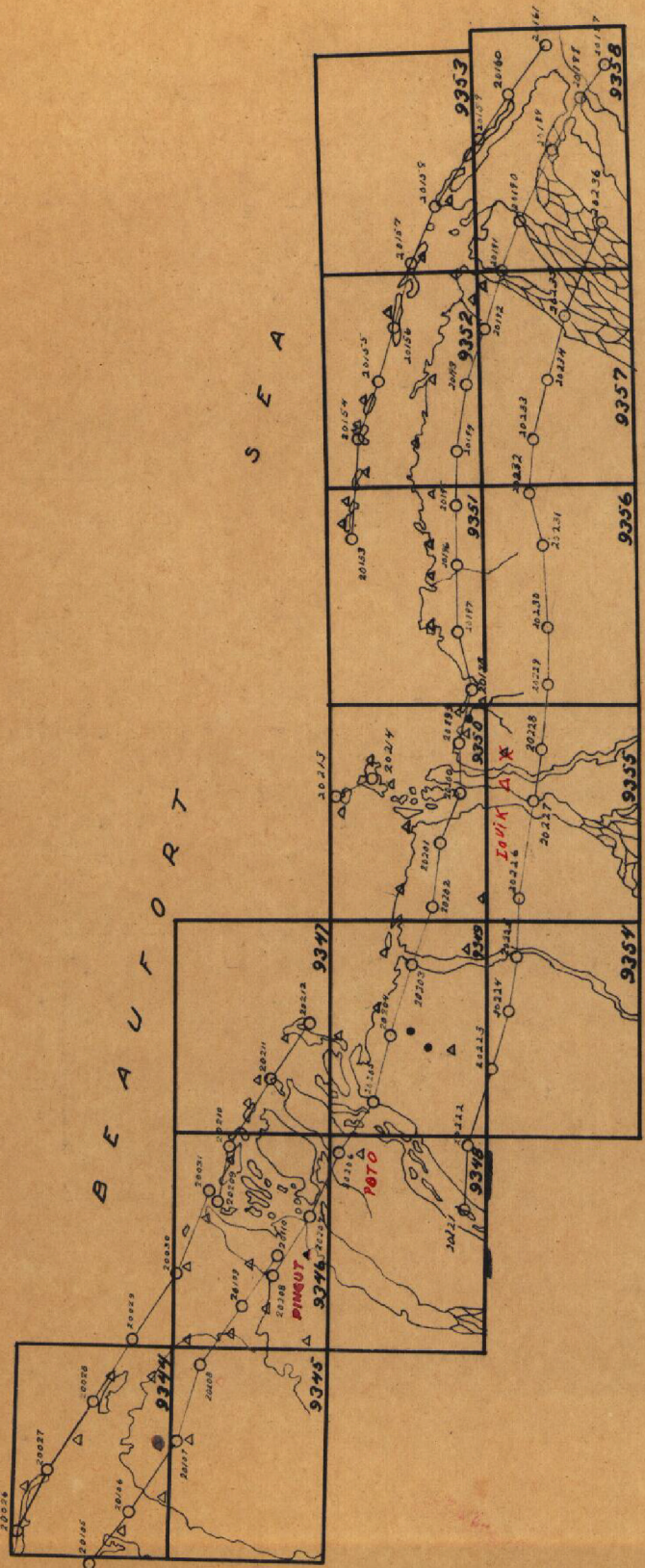
In accordance with the instructions Forms M-2388-12, Control Station have not been included.

Approved:

*Charles W. Clark*  
Charles W. Clark  
Officer-in-Charge

Respectfully submitted:

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



PH-29 (47)

- △ Horizontal Control Recovered for use in Radial Plot
- 1947 Photogrammetry
- Topographic Stations



COMPILATION REPORT  
Map Manuscripts T-9344 to T-9348 Incl.  
Project Ph-29(47)

31: DELINEATION:

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 stations and radially plotted pass points when compiling the planimetry.

Facts contained in paragraphs 2, 3, 4, 5, and 7 of sub-heading 31 "DELINEATION" of the Descriptive Report for T-9340 to T-9343 incl. (1949) are in general applicable to these five map manuscripts.

In order to clearly show the drainage pattern, the dark, low-ground areas which are connected by drainage, were detailed and shown with the low area or area of seasonal inundation symbol. Refer to side heading 34 of this report.

The threaded streams in the delta areas of the Kuparuk, Putulingayuk, and Sagavanirktok Rivers, which empty into the Beaufort Sea, have been detailed. Personnel of the Arctic Party stated that these rivers are flooded to the extent of their banks at only certain periods of a year. The river banks at what is believed to be the normal flood stage have been shown with the low-bluff symbol.

All mounds or "pingos" that could be found by stereoscopic examination of the photographs have been detailed and shown with a hachure symbol.

Personnel of the Arctic Party were in agreement with the manner in which the pingos, river beds, and drainage had been symbolized.

There was insufficient photograph coverage to complete the entire areas of T-9345 and T-9348.

The planimetry for T-9344, T-9346 and T-9347 was compiled on the first projections made for these maps and which had been corrected in this office. This was done so that the symbolization of planimetric details would be available for discussion with the 1949 Arctic Party. Later it was ascertained that it would not be necessary to make a new radial plot for these sheets on the new set of map manuscripts having correct projections ruled in the Washington Office. (Refer to sub-heading 22: "METHOD" of the Photogrammetric Plot Report.) The results of the radial plot, all minor pass points and planimetric detail for these 3 maps were therefore transferred to and traced on the map manuscripts having correctly ruled projections by matching meridians and parallels.

The planimetry for T-9345 and T-9348 was compiled on the map manuscripts having projections which were correctly ruled in the Washington Office.

32: CONTROL:

At least two sub-points for each horizontal control station, used in the radial plot, were selected and identified on the field photographs. The choice of objects selected for sub-points was very good and in most cases they could be easily pricked on all office photographs on which they appeared. Refer to sub-heading 23 of the photogrammetric plot report.

33: SUPPLEMENTAL DATA:

The boat sheets, compiled by the 1949 Arctic Party, were used to supplement the photographs in the delineation of shoreline.

34: CONTOURS AND DRAINAGE:

Contours are not applicable to these five map manuscripts. The drainage has been delineated by stereoscopic study of the photographs in the office. Refer to letter to Chief, Division of Photogrammetry, dated 6 March 1950, Subject: "Delineation of Interior Detail, Project Ph-29(47)" a copy of which is attached.

35: SHORELINE AND ALONGSHORE DETAILS:

The mean high-water line was delineated for the most part by stereoscopic examination of the photographs and from notes pertaining to shoreline details which were lettered on the field photographs. The boat sheets were also used to assist in the delineation. Refer to paragraphs 2, 3, 4, and 5 of sub-heading 31: "DELINEATION" of the Descriptive Report for T-9340 to T-9343 incl. (1949) for additional facts which are in general applicable to the shoreline for map manuscripts T-9344, T-9346 and T-9347. Also refer to paragraph 4 of sub-heading 31: "DELINEATION" of this descriptive report.

36: OFFSHORE DETAILS:

No offshore features were ascertained from examination of the photographs nor indicated by field inspection.



37: LANDMARKS AND AIDS:

Forms 567 for the areas of these map manuscripts were not furnished this office. It is assumed that the Arctic Party has completed recommendations for these features and submitted them to the Washington Office.

*Ch. Let. No. 18 (1950)  
No. 885 (1950)*

38: CONTROL FOR FUTURE SURVEYS:

Not applicable to the compilation work.

39: JUNCTIONS:

Satisfactory junctions have been made between all map manuscripts included in this compilation report.

40: HORIZONTAL AND VERTICAL ACCURACY:

There is a probability that the planimetry shown on T-9345 and T-9348 is not of the accuracy of the planimetry shown on T-9344, T-9346 and T-9347 because of the lack of identified control stations in the area of these two maps.

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'.

Approved:

*Charles W. Clark*  
Charles W. Clark  
Officer-in-Charge

Respectfully submitted:

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



50:

PHOTOGRAMMETRIC OFFICE REVIEW

T-9344, T-9345, T-9346, T-9347, T-9348

- 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  
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:

c/o Swan Island Postal Station  
Portland 18, Oregon

COPY

10 February 1950

To: Chief, Division of Photogrammetry  
U.S. Coast and Geodetic Survey  
Washington 25, D.C.

Subject: Map Manuscripts, Project Ph-29(47)

Forwarded under separate cover are ozalid prints of map manuscripts T-9340 to T-9344, incl., T-9346 and T-9347, Project Ph-29(47).

The projections on these prints, except T-9343, are incorrect. The radial plot of the area of these manuscripts was laid on incorrect projections. The plot was distorted somewhat to fit the incorrectly plotted control as closely as possible. The resulting error in the shoreline is not definitely known but it is thought that it will prove to be small and that the shoreline on these manuscripts is suitable for charting purposes.

The projection on T-9343 was corrected and the correct parallels are shown on the ozalid print in red. Control on this map was replotted and compilation was based on the correctly plotted control.

The short piece of shoreline of Prudhoe Bay on T-9345 has been included on the west margin of T-9346. The portion of Gwydyr Bay on T-9345 is a delta of small braided streams and will be delineated when interior details of the project are compiled. For these reasons a print of T-9345 is not being forwarded at this time.

There was some disagreement in the information available on shoreline. This disagreement was more evident on the off-lying islands than on the mainland. These islands are very changeable and during the 1949 field season were considerably different from the photographs. In some places the hydrographer indicated changes by sketching the shoreline on the boat sheets and sometimes in the same place the field inspection party indicated changes on the photographs not in agreement with that on the boat sheets. At a few places rather detailed information was given on the pricking cards or descriptions of stations. A conference held at Seattle with personnel of the Arctic Party indicated that the only information that could be accepted as definite is the positions of the signals which in all cases were on land and the positions of soundings which were obtained by sextant fixes. Changes in the shoreline were sketched on the boat sheet by the hydrographer and indicate that the shoreline is changed from that inked on the boat sheets. In some places it appears that the inked shoreline was relatively correct but merely out of position. In other places there appears to have been a definite change in the shoreline. These two conditions cannot definitely be distinguished.

COPY

-2-

To: Chief, Division of Photogrammetry  
10 February 1950

Prints of boat sheets were obtained and shoreline compiled from the photographs were compared with the boat sheets. Neither the sketched shoreline on the boat sheets nor the shoreline indicated on the photographs was accepted as entirely correct. Where differences occurred a study was made of all available information and what is thought to be the most probable shoreline was compiled. It is the opinion of this office that the shoreline on the manuscripts is the best that can be obtained from the information available. There are notes on the manuscripts noting some of these discrepancies.

When new projections for these map manuscripts have been received, none of which have been received to date, a new radial plot will be laid and the shoreline will be recompiled. It is not expected that the new plot will change the conditions mentioned above in shoreline compilation.

The usual reports on this project will be written after completion of the compilation. This letter is intended for advance information that will be included in the later report.

Prints of these manuscripts are being forwarded to the Arctic Party.

Charles W. Clark  
Lt. Comdr.-USC&G Survey  
Chief of Party

CWC/gr



c/o Swan Island Postal Station  
Portland 18, Oregon

COPY

6 March 1950

To: Chief, Division of Photogrammetry  
U.S. Coast and Geodetic Survey  
Washington 25, D.C.

Subject: Delineation of Interior Detail, Project Ph-29(47)

Paragraph 9 of Instructions - Project Ph-29(47) - Office, dated 14 December 1949, states that no attempt shall be made to delineate the dark low-ground areas visible on the photographs.

Many of these areas are part of the drainage system and omission of them interrupts the drainage. Streams run into these areas and out of them with no definite stream through them. Streams draining into and out of these areas are probably in all cases intermittent streams.

It is thought that either intermittent streams should not be delineated or that the low areas that are definitely part of the drainage system should be delineated as areas of seasonal inundation. Delineation of intermittent streams and areas of seasonal inundation is recommended.

This was discussed during a conference at Seattle with the Arctic party and their recommendation is that intermittent streams and seasonally inundated areas be delineated. Delineation of these areas was recommended by Comdr. Earle in a letter to the Director dated 3 March 1950.

Charles W. Clark  
Lt. Comdr.-USC&G Survey  
Chief of Party

CWC/gr

48: GEOGRAPHIC NAMES LIST:

T-9344

✓ Egg Island  
✓ Gwydyr Bay  
Kuparuk River  
✓ Long Island  
✓ Point McIntyre  
✓ Point Storkersen  
✓ Return Islands  
✓ Stump Island  
✓ Fawn Creek

Beaufort Sea

T-9345

✓ Kuparuk River  
Prudhoe Bay  
✓ Putuligayuk River  
Fawn Creek

T-9346

✓ Gull Island  
✓ Heald Point  
✓ Niakuk Islands  
✓ Prudhoe Bay  
✓ Putuligayuk River  
✓ Sagavanirktok River  
✓ Beaufort Sea

T-9347

✓ Anxiety Point  
✓ Brower Point Brower  
✓ Duck Island  
✓ Foggy Island  
✓ Foggy Island Bay  
✓ Howe Island  
✓ Sagavanirktok River

Beaufort Sea

T-9348

✓ Sagavanirktok River

Beaufort Sea (for titles)  
T9345, 9348

Names underlined in  
red are approved.  
2-16-51. L. Heck

REVIEW REPORT T-9344 - T-9348

Planimetric Manuscripts

19 February 1951

- T-9344 Beaufort Sea, Return Islands, Alaska
- T-9345 Beaufort Sea, Putuligayuk River, Alaska
- T-9346 Beaufort Sea, Heald Point, Alaska
- T-9347 Beaufort Sea, Foggy Island, Alaska
- T-9348 Beaufort Sea, Sagaraniirktok River, Alaska

61. Control (1949) on these map manuscripts consists of second, third, and fourth order stations which have received only field computations (945 GTZ/G-8334 and G-8337). The fourth order stations are not marked or described. Having been included in the geographic positions listing (form 28-B) of areal control, no forms 524 have been filed for the topographic stations in the entire project. They are recorded on the map manuscripts with the usual topographic symbol and legend.

62. Comparison with Registered Surveys

None

63. Comparison with Maps of Other Agencies

None

64. Comparison with Contemporary Hydrographic Surveys:

H-7761	1:40,000	1950
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Not available. (The Arctic MEW line on T-9346 and T-9347 needs verification.)

65. Comparison with Nautical Charts:

9400	1:1,587,870 at 70°00'	ed. May 1947 rev. Nov. 1950
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66. Accuracy:

These map manuscripts are adequate for charting purposes. (See 64, above)

Reviewed by:

Lena T. Stevens  
Lena T. Stevens



Approved:

S. V. Griffith  
Chief, Review Section B  
Div. of Photogrammetry

H. Edmundson  
Chief, Nautical Chart Branch  
Div. of Charts *EF*

O. S. Reading  
Chief, Div. of Photogrammetry

*BRJ*

Earl O. Heston  
Chief, Div. of Coastal Surveys *EH*

# NAUTICAL CHARTS BRANCH

SURVEY NO. T-9346

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1 Feb 54	Auto # 11	Janet H. Bell	Exam for critical changes Before After Verification and Review
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M-2168-1

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.

# NAUTICAL CHARTS BRANCH

SURVEY NO. T9344

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1 Feb 54	Auto # 17	Lucret H Bell	<del>Exam</del> Before After Verification and Review
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M-2168-1

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.



# NAUTICAL CHARTS BRANCH

SURVEY NO. T-9347

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
20 Sept 50	Chart # 11	Frederic H. Bell	Examined Shoreline & off lying islands for critical <del>Before After Verification and Review</del> changes. (postal)
"	Chart # 12	"	" <del>Before After Verification and Review</del>
2/3/56	9473	JSE	<del>Before After Verification and Review</del>
			Before After Verification and Review
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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.

## 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 P-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:

*SPW. 1-55*  
The difference between Flaxman Island Datum  
and preliminary N.A. 1927 Datum is Lat. ~~mm~~/minus  
~~Xm.~~ and Long. plus/~~mm~~ ~~Xm.~~

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.