U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Topographic
Field No.: Ph-23(47) Office No.: T-9452

LOCALITY
State: Alaska
General locality: Kotzebue Sound
Locality: Cape Krusenstern

19450

CHIEF OF PARTY
L.G. Taylor, Chief of Field Party
H.A. Paton, Chief Balto. Photo. Office
L.J. Reed, Div. of Photo., Wash., D.C.

DATE: May 15, 1958
DATA RECORD

T-9449 thru T-9452
T-9448 = TOOLILIK LAKE
T-9449 = TALIKOOT VILLAGE
T-9450 = SIMEK MOUNTAIN
T-9451 = KAKSUK MT
T-9452 = NOATAK RIVER

Project No. (II): Ph-28(47) Quadrangle Name (IV):

Field Office (II): Kotzebue Sound, Alaska
Photogrammetric Office (III): Baltimore, Md.
Washington, D.C.

Instructions dated (II) (III):

(II) = 21 Apr 48
(III) = 23 Oct 50

Method of Compilation (III): Reading Plotters, both models, A and B.
Manuscript Scale (III): 1:20,000
Stereoscopic Plotting Instrument Scale (III): 1:20,000
Scale Factor (III): 1:1

Date received in Washington Office (IV): SEP 10 1951
Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 21 June 1957

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): NA 1927 (unadjusted)
Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (26) refer to mean high water
Elevations shown as (25) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

Plane Coordinates (IV):

Y: X:

MILITARY GRID: Universal Transverse Mercator, Zone No. 3.

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)

\[ \text{Area A} \] (III)

T-9448 and T-9449 delineated by Clarence E. Miesfeldt
T-9451 and T-9452 delineated by Louis Levin
T-945D partially delineated by each of the above men.
DATA RECORD

Field Inspection by (II):  Lorne G. Taylor  Date: 1950

Planetable contouring by (II):  none  Date: 

Completion Surveys by (II):  none  Date: 

Mean High Water Location (III) (State date and method of location):

MHWL was delineated on the plotting instruments guided by 1950 field location of the shoreline on photographs; therefore the MHWL is dated 1950.

Projection and Grids ruled by (IV):  Theodore L. Janson on the Reading Ruling Machine  Date: 29 Nov 50

Projection and Grids checked by (IV):  Harold R. Cravat  Date: 5 Dec 50

Control plotted by (III):  John C. Richter  Date: 22 Dec 50

Control checked by (III):  Frank J. Tarosa  Date: 22 Dec 50

Radial Plot of Radial Station by (III):  Frank J. Tarosa  Date: 19 Feb 51

Delineation by (III):  Planimetry and Contours
Louis Levin and Clarence E. Mifseldt  Date: 14 Aug 51

Compiled Manuscript by (III):
John B. McDonald (9450, 1, 2) and Frank J. Lesslie (9449, 9)  Date: 30 Aug 51

Photogrammetric Office Review by (III):  Louis J. Reed  Date: 10 Sep 51

Elevations on Manuscript checked by (III):  Louis J. Reed  Date: 10 Sep 51
**PHOTOGRAPHS (III)**

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<tr>
<td>27603</td>
<td>July</td>
<td>1206</td>
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**NOTE:** Mr Disney of Tides & Currents states (7 May 51) that for all practical purposes no tide exists in this area.

**Reference Station:** Joy Cape

**Washington Office Review by (IV):**

**Final Drafting by (IV):**

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

**Land Area (Sq. Statute Miles) (III):** See remarks below

**Shoreline (More than 200 meters to opposite shore) (III):** See remarks below

**Shoreline (Less than 200 meters to opposite shore) (III):** None

**Control Leveling - Miles (II):** None

**Number of Triangulation Stations searched for (II):** None

**Number of BMs searched for (II):** None

**Number of Recoverable Photo Stations established (III):** One

**Number of Temporary Photo Hydro Stations established (III):** One

**Remarks:**

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<tr>
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<td>66 sq mi</td>
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<td>55 miles</td>
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TOPOGRAPHIC AND PLANIMETRIC MAPPING PROJECT
PH-28 (47)

ALASKA, Chukchi Sea, Kiwalik to Naokok

T-9402 to T-9474 are Topographic Maps Scale 1:20,000

T-9475 to T-9496 are Planimetric Maps Scale 1:20,000
Summary to Accompany T-9448 through T-9452

Ph-28(47) covers the eastern shore of the Chukchi Sea in Alaska and runs from Candle on the Kiwalik River on the south to Cape Beaufort to the north.

Seventy-three of the quadrangles (T-9466 to T-9472) of this project are topographic surveys and twenty-two (T-9482 to T-9483) are planimetric and T-9436 through T-9496 in this project.

T-9448 through T-9452 are topographic surveys extending from the Evelookpalik River on the west to the Noatak River on the east. The quadrangles fall in about the middle of the project and contains the Millowcrawlock River, the village of Talikoot, the Sittockoolock River, the Mumayluk River, the Suninuk Creek and the Igichuk Hills.

The map manuscript consists of one sheet, 7½ minutes in latitude and 20 minutes in longitude, at a scale of 1:20,000, with a contour interval of 50 feet. A cloth-backed lithographic print of each map at the compilation scale will be registered with the descriptive report in the Bureau Archives.
FIELD INSPECTION REPORT

2-20: See separate report entitled:

PROJECT REPORT
AERIAL PHOTOGRAPH CONTROL AND INSPECTION
CAPE KRUSENSTERN TO POINT HOPE, ALASKA
Project Ph-28(47) June to Sept 1950
Lorne G. Taylor, Chief of Party

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
RADIAL PLOT REPORT

20-30:

See descriptive report for quadrangles T-9453 thru T-9457 (a single report covering all five quads), or see a similar combined report covering quads T-9461 and T-9462. A single radial plot was laid covering the area of all seven of the above manuscripts plus the area of the five sheets of this report. A single report for the plot was written by the Baltimore Photogrammetric Office and it may be found in either of the aforementioned reports beginning on page eight.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
31. **Delineation:**

Contours and cultural features were delineated simultaneously on the Reading Plotter, models A and B. Model A worked eastward from the western end of the strip of quads, while model B was working westward from the opposite end. (See diagram, page 5 or 9) The entire land area of only three of the five quads of this report has been delineated in this operation; they are the western three, T-9448, T-9449, and T-9450. T-9451 lacks a small area of two or three sq mi in the NE corner of being complete, and T-9452 lacks a strip along the north border of the quad amounting to about one quarter of the entire area of the map.

There is an exception to the above statements regarding complete coverage; several small clouds less than half the size of a dollar bill existed in the photos on two of the quads, resulting in corresponding areas of poor delineation quality. The solution to this exception may be found in side-heading 34 below.

32. **Control:**

Adequacy of control is discussed in detail in side-heading 23 of this report's radial plot report. The conclusion is drawn that the spacing of control was such that the area of T-9452 and some of T-9451 is not as strong as the balance of the plot area, but is considered to be within the desired accuracy.

The spacing of vertical control on this plot area was found to be as near the requirement as on any other project worked in this section. The chief failing was in no-check elevations leaving gaps in the network here and there, especially along the north side of the project which is farthest inland.

33. **Supplemental Data:**

a. Graphic Control Surveys: None

b. Hydrographic Surveys: None

c. Plotting Instrument Photos (metal-mounts):

27566 thru 27579, 27594 thru 27603, 27609, 27610, 27756, and 27757.

d. Field Inspection Photos:

20575 thru 20579, 20751 thru 20756, 20761 thru 20766, 20820 thru 20822, 20827 thru 20829, and 20914 thru 20915.
33. **Supplemental Data (contd):**

- **Vertical Control Book:**

  "Tabulation of elevations by surveys and computations of elevations for vertical control stations in the areas of surveys T-9448 thru T-9457, and T-9461 and T-9462."

34. **Contours and Drainage:**

  Photograph quality was very good for contouring purposes except for small cloud interference as mentioned under "Delineation" on page 10. The areas obscured by these small individual clouds were all delineated on the instruments except for two, one on each quad, T-9450 and T-9451, these two cloud areas being left blank on the manuscripts. The cloud areas that were delineated anyhow are shown in the dashed symbol for doubtful accuracy. Otherwise, no areas of questionable contours exist.

35. **Shoreline and Alongshore Details:**

  Shoreline exists on only two of the five quads of this report, T-9448 and T-9449. It is very smooth and regular shoreline and easy to photo-identify; the job was well done. No low-water-line was identified because of the lack of tide in this vicinity.

36. **Offshore Details:** None exist.

37. **Landmarks and Aids:** See form 507 in Field Inspection Report.

38. **Control for Future Surveys:**

  One Topo Station, NECK 1950, and one Hydro Station, No. 150, were located on T-9448 by the radial plot and are shown on the manuscript in proper label and name. No stations of either type were selected in the field in the area of the other four quads of this report. Details of the two stations mentioned above will be found on a separate page of this report entitled "Notes to the Hydrographer", side-heading 50.

39. **Junctions:**

  All junctions are in agreement. The five quads immediately to the south of the five quads of this report, T-9453 thru T-9457, from west to east, were previously completed and their north edges transferred to the south edges of T-9448 thru T-9452 respectively; therefore those five junctions have to be in agreement. No quad exists to the east of T-9452 - no problem. To the west of T-9448 one finds only the Chukchi Sea - no problem there either. On the north only two quads exist, T-9446 above T-9448, and T-9447 above T-9449; these two edges have been transferred to the two north quads which will be completed soon.
40. Horizontal and Vertical Accuracy:
   a. **Horizontal:** All contours meet the standards for a 50 ft contour interval. One contour is considered to be more accurate; the 25 ft contour meets the standards for a 25 ft contour interval.
   b. **Vertical:** All instrument elevations are shown in brown, underscored. All trig elevations are also shown in brown; they are underscored if not checked by one or more observations.

41. Intersection Station Elimination:
   The field position for PEAK 321, 1948 (on T-9452) was found to be in error during the radial plot—see detailed account of the findings in side-heading 23 on page 9 of the Radial Plot Report.
   Therefore this station has been omitted from the manuscript and the radial plot position of the peak is shown with the original name, Peak 321.

46. Comparison with Existing Maps:
   b. Advance proof of BAIRD MOUNTAINS, same as Noatak above.
   c. Compilation copy of TICARA, 1:200,000, USGS.

47. Comparison with Nautical Charts:
   b. Provisional Chart, CAPE PRINCE OF WALES TO POINT BARROW, CHUCHI SEA, Alaska-Arctic Coast, No 9402, 1:750,000, May 1950, 1st edition.

48. Geographic Name List: See separate numbered page, following.

49. Notes for the Hydrographer: See separate unnumbered page.


Submitted By:

Orvis N. Dalbey
Cartographer-Photogrammetric

Approved and Forwarded by:

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
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Names approved 6-28-52

Names approved 6-28-53

Names approved 6-28-53

Stereoscopic Mapping Section
Photogrammetic Engineer

Louie J. Neary, Chief
Notes for the Hydrographer: (stations on T-9448 only)

a. Topo Stations:

NECK 1950; identified on photo No.20,327, and described on Control Identification Card. Also, see K-20 field photo of the station.

b. Hydro Stations:

No.150; Identified on photo No.20,580.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
Review Report T-9448 through T-9452
Topographic Maps
June 24, 1953

62. Comparison with Registered Topographic Surveys. - None

63. Comparison with Maps of other Agencies. -

USGS Alaska Map, Noatak 1:250,000 1951 Edition

Comparison not satisfactory because of scale difference.

64. Comparison with Contemporary Hydrographic Surveys. - None

65. Comparison with Nautical Charts. -

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</tr>
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<td>1950</td>
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<td>May</td>
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Comparison not possible with these charts because of scale difference.

66. Adequacy of Results and Future Surveys. - These maps comply with project instructions and are adequate as bases for hydrographic surveys and the construction of nautical charts.

Reviewed by:

B. J. Colmer

APPROVED

L. C. Lande
Chief, Review Section
Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

J. F. Bull
Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys
PHOTOGRAMMETRIC OFFICE REVIEW

T. 9448 thru 9452


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 □

ALONGSHORE AREAS
(Nautical Chart Data)

17. Landmarks □ 18. Other alongshore physical features □ 19. Other alongshore cultural features □

PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines □ 32. Public land lines □

MISCELLANEOUS

40. 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

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

M-2623-12