**Form 504**

**U. S. COAST AND GEODETIC SURVEY**  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
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<tr>
<td>Field No.</td>
<td>Ph-28(47)</td>
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<tr>
<td>Office No.</td>
<td></td>
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<tr>
<td>thru</td>
<td>T-9453</td>
</tr>
<tr>
<td>thru</td>
<td>T-9457</td>
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</table>

### LOCALITY

- **State**: Alaska
- **General locality**: Kotzebue Sound
- **Locality**: Cape Krusenstern

**1945-50**

**CHIEF OF PARTY**
L. G. Taylor, Chief of Field Party  
H. A. Paton, Chief B'more Photo. Off.  
L. J. Reed, Div. of Photo., Wash., D.C.

**LIBRARY & ARCHIVES**

**DATE**: August 20, 1957
DATA RECORD

T-9453 thru T-9457

T-9453 = CAPE KRUSENSTERN
T-9454 = TUCKER RIVER
T-9455 = AUKOLAK LAOGOON
T-9456 = SHERA amounted VILLAGE
T-9457 = KINUK ISLAND

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

Field Office (II): Kotzebue Sound, Alaska

Chief of Party: Lorne G. Taylor


Officer-in-Charge: Hubert A. Paton
Louis J. Reed, Chief

Instructions dated (II) (III):

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

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Reading Plotters, both 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): AUG 28 1951

Data reported to Nautical Chart Branch (IV): AUG 30 1951

Applied to Chart No.

Date:

Date registered (IV): 26 APRIL 1952

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927 (unadjusted)

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

Plane Coordinates (IV):

State: Zone: Zone:

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)

T-9453 and T-9454 delineated by Clarence E. Misfeldt
T-9455, T-9456 and T-9457 delineated by Louis Levin
DATA RECORD

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

Planelable contouring by (II): None Date:

Completion Surveys by (II): None Date:

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

MHW was delineated on the plotting instruments guided by 1948 (small amount) and 1950 field location of the shoreline.

Projection and Grids ruled by (IV): Theodore L. Janson Date: 29 Nov 50
(on the ruling machine)

Projection and Grids checked by (IV): Howard D. Wolfe Date: 5 Dec 50

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

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

Radial Plot compiled by (III): Frank J. Tarcza Date: 19 Feb 51

Delineation by Stereoscopic Instrument (II):

Planimetry and Contours Clarence E. Miefield Date: 20 Jul 51

and Louis Levin Date:

Compiled Manuscript by (III): John B. McDonald Date: 6 Aug 51
and

Frank J. Lesslie Date:

Photogrammetric Office Review by (III): Louis J. Reed Date: 16 Aug 51

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

Louis J. Reed Date: 16 Aug 51
Camera (kind or source) (III): USDA9 9-lens camera, model B, f=8.25 inches

 chiff

 Number Date Time Scale Stage of Tide
 27550 thru 27579 22 Jul 50 1050 Fm 11:15 11:23 20,000 no appreciable tide

NOTE: Mr. Disney of Tides and Currents states (May 51) that for all practical purposes no tide exists in this area.

LJR

Tide (III)

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Reference Station: Key Cape
Subordinate Station: 
Subordinate Station: 

Washington Office Review by (IV):

Final Drafting by (IV): T-9457 John H. Frazier T-9456 F. Johnson H-9456
T-9453 R.A. Hindebrand T-9455 B.A. Hindebrand
Drafting verified for reproduction by (IV): W.A. Haliburton

Date: April 4, 1956
Apr
Mon, 22 1956
Date: 5-8-56

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): See remarks below
Shoreline (More than 200 meters to opposite shore) (III): See remarks below None
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II):
None
Number of BMs searched for (II):
None
Number of Recoverable Photo Stations established (III):
Recovered: Identified: six
Number of Temporary Photo Hydro Stations established (III):
Recovered: Identified: seven

Remarks:

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<tr>
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Form T-Page 4 M-2618-12(4)
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-9453 through T-9457

Ph-25(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-94-02 to 94-74) of this project are topographic surveys and twenty-two (T-94-75 to 94-96) are planimetric (T-94-02 to T-94-34 west. and T-94-36 to T-94-96 west.).

T-94-53 through T-94-57 are topographic surveys of the shore north of Kotzebue Sound extending from Cape Krusenstern on the west to the mouth of the Noatak River on the east.

Each 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 reports entitled as follows:

PROJECT REPORT
AERIAL PHOTOGRAPH CONTROL AND INSPECTION
KOTZEBUE SOUND, ALASKA
Project Ph-28(47) July to Sept 1948
A. Newton Stewart, Chief of Party

and

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

PROJECT PH-28(47)

SURVEYS T-9448 to T-9457, inclusivè
T-9461 and T-9462

21. AREA COV. RED

This radial plot covers the areas of Surveys T-9448 to T-9451, incl., T-9453 to T-9456, incl., and T-9461. Three other surveys on the east, T-9452, T-9457, and T-9461, were partially done in a previous radial plot. They were completed in this radial plot and will be considered as a part of the plot in this report. All are topographic surveys situated along the shore of Kotzebue Sound from Noatak River to Cape Krusenstern.

22. METHOD — RADIAL PLOT

Map Manuscripts: Vinlyite sheets, with polyconic projections and Universal Transverse Mercator grids, at a scale of 1:20,000, were furnished by the Washington Office. The radial plot was constructed on the map projection sheets and no base sheets were required.

All control stations and substitute stations were plotted using beam compass and meter bar.

A sketch showing the layout of the these surveys and the distribution of control and photograph centers is attached to this report.

Photographs

All photographs used are nine-lens, metal-mounted photographs, scale 1:20,000. Forty-three photographs were used in this radial plot. They are numbered as follows:

27551 to 27564 inclusive
27567 to 27578 inclusive
27595 to 27605 inclusive
27608 to 27610 inclusive
27755 to 27757 inclusive

The symbols used on the photographs were given in special instructions for all radial plots with nine-lens photographs which will be used later with the reading plotters.

Templets

Vinylite templets were made from all photographs using a master templet to adjust for errors due to chamber displacements. Radial lines were scratched on the templets with a sharp needle point and the scratch filled in with china marking pencils. Red was used for all shoreline (rectification) pass points and all other radial lines are in black.
Closure and adjustment to control

The radial plot was constructed directly on the map manuscripts. A preliminary plot was run to determine whether there were any badly tilted photographs. The relative amount of tilt was noted by observing the displacement of image points, represented by red dots on the templates, of shoreline points and points of known elevation. Three photographs were apparently tilted considerably; Nos. 27561, 27575 and 27609. Two of them could be bypassed in the final plot but No. 27575 had to be used. The two were placed on top of the completed plot so that the positions of all points could be pricked and circled thereon.

The final plot was started at the eastern end of this area where points had been established in a previous radial plot making this merely an extension of the first plot. It was necessary to disregard PEAKS No3. 321 and 322 in order to hold other control. It was in this area that the tilted photograph 27575 is located. Considerable adjustment was necessary, particularly with the most northerly flight, because no other control was available in the immediate vicinity. The western part of the radial plot offered no problem and control was held.

Transfer of points

The position of all centers, pass points and control were pricked on the top templates and circled with 3 mm circles. The positions were established on the remaining templates and map manuscripts by drilling down through with a small (.01 inch) jewelers drill. All points were circled on each template before it was removed.

23. Adequacy of control

With the exception of Survey T-9452, control was adequate for a satisfactory radial plot. Photography did not reach NOATAK, 1949 and with the bad positions for PEAK 321, 1948 and PEAK 322, 1948, the radial plot may be a little weak in this survey and also in Survey T-9451. In Survey T-9435 since the northern side of the most northerly flight is uncontrolled, many positions near the edge of photography are narrow with green circles although they are believed to be within the desired accuracy.

Three horizontal control stations could not be held in the radial plot:

The radially-plotted position for PEAK 321, 1948 falls 1.5 mm southwest from the geographic position and the radially-plotted position for PEAK 322, 1948 falls 3.0 mm west from the geographic position. Both of these have "no check" positions, being intersected from SHESUALIK, 1949 and NOATAK, 1949. Both peaks are between the two occupied stations, so that weak angles of intersection are formed. The geographic position for PEAK 322, 1948 falls on the side of the peak. There is an almost flat area at PEAK 321, 1949 and it is possible to prick a point near the true position on the rounded top of the mountain. However, a check was obtained on the radially-plotted positions. When observing vertical angles to the two peaks from DELTA, 1949, a check horizontal angle was turned for the purpose of field identification. With a protractor this angle was turned on the map manuscripts and found to be nearer the radially-plotted positions in both cases. Since DELTA, 1949 was not an occupied station, no observation could be used in computation by Division of Geodesy.
The radially plotted position for SUB.PT. FIRST, 1950, falls 0.6 mm southwest from the geographic position. It was possible to prick the station direct from identification on X-20 photograph and this was held in the radial plot. Also on this small field photograph there appeared a small "tongue" on the pond extending northward. This was not apparent on the field photograph and the corner of the pond was pricked. The sketch on the pricking card was inadequate for determining the correct point. The true position falls at the north end of the "tongue" of the pond and field pricking is in error.

24. **SUPPLEMENTAL DATA**

No graphic control surveys were used.

25. **PHOTOGRAPHY**

Photographic coverage was adequate for all of the surveys except the northern areas of Surveys T-9451 and T-9452. The definition of the photographs was good. Many of the photographs in the two northerly flights had scattered clouds which made peak identification more difficult, and some peaks are pricked on only two photographs. No tilt determination was made but at least three photographs showed evidence of tilt, Nos. 27575, 27561, and 27609. The latter two could be bypassed and placed on top but it was necessary to use 27575. With considerable adjustment, it was found possible to use it without correction. As noted in the previous radial plot report, Chamber No. 8 is weak in most photographs and this was considered when laying the plot. Chamber No. 3 had one collimation mark missing on all photographs of the northerly flight and one of the two flights running northwest on Survey T-9449, but this did not seem to introduce any serious errors in the radial plot.

26. **VERTICAL CONTROL**

During the computations of elevations for peaks following the radial plot, several discrepancies were found. The single horizontal angles, observed for identification purposes in the field, were turned with a protractor on the map manuscripts to verify the identification. The following discrepancies were found:

At PEAK 321, 1948 and PEAK 322, 1948, radially plotted positions were established, as previously mentioned. The elevations of these were recomputed using the new positions and both checked, within one meter, the elevation furnished.

PEAK 316 (Survey T-9452) – The two observations gave elevations with an error of only 3.5 meters. However, the horizontal angles did not check the plotted position and indicated another point on the rounded peak may have been observed in the field. This peak is outside of the survey limits and the elevation should be considered weak.

PEAK 330 (Survey T-9451) – The three elevations computed checked within 5 meters. When horizontal angles were turned, they indicated that a point about 6 mm southwest of the photogrammetric position was observed by the
field party. This peak is covered by clouds on one photograph and is
pricked on two photographs near the edges. This made it difficult to
prick with sufficient accuracy and the elevation and position must be
considered rather inaccurate.

PEAK 356 (Survey T-9451) - The two observations given did not check
in elevation. Horizontal angles indicated another peak to the north may
have been observed, but it was off the office photographs.

PEAK 361 and PEAK 362 (Survey T-9450) - The elevations of these did
not check, and the reasons could not be established. It is found that one
observation on PEAK 361 from V-211 is incorrect and probably on another
peak. It is possible that the peaks have been misidentified from station
BUTNER, 1949.

PEAK 575 (Survey T-9457). The two observations gave elevations which
did not check. There is no doubt about the identification. This peak
should be rejected and does not appear necessary. If desired, the one
correct elevation, of the two computed, could be determined with reading
plotter.

PEAK 559. (Survey T-9450) - Although six different observations were
computed, none the elevations were found to check. It was apparently the
wrong peak. But when horizontal angles were turned it was also apparent
that more than one peak was observed by the field party. In attempting
to re-identify the peak, there were several possible locations at inter-
sections of horizontal angles. Only one of these was near a peak and this
peak was pricked and located. The elevation from four stations checked
within 2 two meters. This peak was named PEAK 559 (OFFICIAL) and is about
909 meters southwest from the original identified peak.

At station TYPE TOP, 1949, the PEAK 357 identified on field photographs
was not pricked since it is on the same mountain. Also PEAK 633 and R.A.K.
634 near this peak have no check on their elevations. Although there is no
reason to suspect error in the one observation on each, it is recommended
that TYPE TOP, 1949 be used for elevation in this area. There were several
observations rejected but in each case two or more observations on the same
peak were in close agreement and no further investigation was made beyond
checking horizontal angles.

Approved and forwarded
6 April 1951

Respectfully submitted

[Signature]
Cartographic Engineer

Hubert A. Paton
Chief, CAGS
Officer in Charge
31. Delineation:

Contours and cultural features were delineated simultaneously on the Reading Plotter, model A and B. Model A was employed on the western end of the strip of quadrangles (see diagram, page 5), working eastward, while model B started on the east end and worked westward to their meeting point near the middle of T-9455. The entire land area of all five quads of this report has been delineated in this mapping operation.

32. Control:

Refer to side-heading 23 on page 9 of this report where the control situation for this area is discussed in detail. In brief, control was considered adequate.

33. Supplemental Data:

a. Graphic Control Surveys: None

b. Hydrographic Surveys: None

c. Plotting Instrument Photos (metal-mounts):

27550 thru 27564 and 27570 thru 27579.

d. Field Inspection Photos:

20571 thru 78, 20750 thru 55, 20764 thru 67, 20819 thru 21, and 20828 thru 20841.

e. Vertical Control Volume: Bound book entitled:

"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 and no areas of questionable contours exist.

35. Shoreline and Alongshore Details:

Shoreline inspection appeared to be adequate. Shoal lines were office delineated on the plotting instruments.
36. Offshore Details: Not Applicable.

37. Landmarks and Aids: None recommended.

38. Control for Future Surveys:

Seven Topo stations and two Hydro stations are located on the five quads of this report in proper symbol and name. All were positioned by the radial plot either directly or by the sub-station method. Details of this future control may be found on unnumbered page, following, "Notes to the Hydrographer".

39. Junctions:

All junctions are in agreement. Match edges have been transferred to the five quads immediately north of the five quads of this report for perfect junction when they are compiled at a later date. Common edges between T-9456 and T-9457 agree with T-9461 and T-9462 respectively on the south. No quad sheets exist to the south of T-9453, T-9454, and T-9455. On the east, the match edge of T-9457 is in agreement with T-9458, previously completed. No quad sheet exists to the west of T-9453.

40. Horizontal and Vertical Accuracy: Standard.

41. Elevation Data Discrepancies:

Certain errors in field operations resulting in incorrect elevations for mapping use were discovered during the radial plot procedure and are detailed on page 11 of this report. In addition, two others have been discovered during instrument delineation on the 9-lens plotters. Both points are very near sea level images which accounts for the finding of too high elevations for each. Namely, they are triangulation topo station PLUG 1949 and water surface V-1229. In the first case, no elevation has been shown on the manuscript; in the other, the elevation has been lowered from 98 ft to 35 ft and shown as an unchecked instrument elevation.

46. Comparison with Existing Maps:


b. Advance proof of BAIRD MOUNTAINS, same as Noatak above.

c. Compilation copy of TIGARA, 1: 200,000, USGS.

47. Comparison with Nautical Charts:


b. Provisional Chart, CAPE PRINCE OF WALES TO POINT BARROW, CHUCKI 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, following.

50. Compilation Office Review:
   See T-2 form, following.

Submitted by:

Orvis N. Dalbey,
Cartographer-Photogrammetric

Approved and Forwarded by:

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
<table>
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<th>B</th>
<th>C</th>
<th>D</th>
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Kotzebue Sound: Kimirrak Hill (long hill)

Pooktoetut (area): (Per names report a boggly area)

Tookrock River: (a small section here)

Names approved: 6-22-63

L. Heck
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.
   9400  1:1,587,870  June 1952
   9402  1:750,000  May 1950
   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. E. Lawrence
Chief, Review Section
Div. of Photogrammetry

Wallace A. Bunker
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Aug. 14, '57

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1956
49. Notes for the Hydrographer:

a. Topo Stations:

T-9453: None
T-9454: CART 1950 - on photo 20831 - see 524 card
       ABLE 1950 - on photo 20833 - see 524 card
T-9455: TEAM 1948 - on photo 20835 - see 524 card
       ROSE 1948 - on photo 20835 - see 524 card
       BIRD 1948 - on photo 20834 - see 524 card
T-9456: OMAR 1948 - on photo 20836 - see 524 card
T-9457: PLUG 1948 - on photo 20839 - see 524 card

b. Hydro Stations:

T-9453: None
T-9454: No.100 - on photo 20833 - no 524 card exists
T-9455: None
T-9456: No.700 - on photo 20837 - no 524 card exists
T-9457: None

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PHOTOGRAMMETRIC OFFICE REVIEW
T. 9453 thru 9457

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 alongshore cultural features  

PHYSICAL FEATURES
20. Water features  
21. Natural ground cover  
22. Planetary 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  

Reviewer:

Louis J. Reed, Chief
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Photogrammetric Engineer

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: