Diag. Cht. No. 94100

Form 504

U.S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  Topographic

Field No.  Ph-28  (47)  Office No.  T-9472  T-9473  T-9474

LOCALITY

State  Alaska

General locality  Kotzebue Sound

Locality  Kobuk River Delta

194/48-51

CHIEF OF PARTY
A.N. Stewart, Chief of Field Party
H.A. Paton, Baltimore Photo. Office
E.J. Reed, Chief Stereo-map Sec. D.C.

LIBRARY & ARCHIVES

DATE  July 12, 1957
DATA RECORD

T-9472, 73, 74

Project No. (II): Ph-26(47)  Quadrangle Name (IV):

T-9472 = TOPO STATION FAWN
T-9473 = KOBUK RIVER DELTA; CENTRAL
T-9474 = UPPER NAZARUK CHANNEL

Field Office (II): Portland, Oregon  Chief of Party: A. Newton Stewart
Photogrammetric Office (III): Baltimore, Md  Chief Plot: Hubert A. Paton, Chief
Washington, D.C.  Compilation: Louis J. Reed, Chief,

Stereo-map Section

Instructions dated (II) (III):
(II) = 21 Apr 48
(III) = 23 Oct 50

Method of Compilation (III): Reading Plotter "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): DEC 3 1952
Date reported to Nautical Chart Branch (IV): DEC 8 1952

Applied to Chart No. Date: Date registered (IV): 30 April 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 (g) 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:

Y=  X=

MILITARY GRID = UTM, Zone 4, 2500 meter interval.

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)

100% compiled on the Reading Plotter "B",
by the team of:

Louis Levin
and
Arthur B. Zimmerli
DATA RECORD

Field inspection by (II): A. Newton Stewart Date: 1948

Planetary contouring by (II): None Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location):
MHWL on these three quads might be dated 1948 since they were
compiled using 1948 field-located shoreline as a guide. However, it
was compiled using 1951 photos and therefore could be considered as
a 1951 MHWL, and should be for all practical purposes.

Projection and Grids ruled by (IV):
Jack Allen on the Reading Ruling Machine Date: 3 Oct 51

Projection and Grids checked by (IV): Howard D. Wolfe Date: 4 Oct 51

Control plotted by (III): Ruth Hartley Date: 11 Dec 51

Control checked by (III): Frank J. Tarcza Date: 14 Feb 52

Radial Plot:

Control extension by (III):
Verified by

Stereoscopic Instrument (III):

Manuscript delineated by (III):

Photogrammetric Office Review by (III):

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

Louis J. Reed Date: 3 Dec 52

Louis J. Reed Date: 3 Dec 52

Form T-Page 3
M-2618-12(4)
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<td>33987-90</td>
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Note: Mr. Disney of Tides and Currents states (7 May 51) that for all practical purposes no tide exists in this area.

L.J.R. diurnal tide (III)

Reference Station: Joy Cape

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<tr>
<th>Ratio of Ranges</th>
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Final Drafting by (IV): Bernard J. Colner

Drafting verified for reproduction by (IV):

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): See remarks below

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): Recovered: Identified: One (on T-9474)

Number of BMs searched for (II): None

Number of Recoverable Photo Stations established (III): FAWN & FACE on T-9472; POLE On T-9474

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

T-9472 = Land Area 35 sq mi MHWL, over 200m 13 miles MHWL, under 200m 44 miles

T-9473 = 80 sq mi None 125 miles

T-9474 = 76 sq mi 5 miles 63 miles
Compiled at 1:20,000 scale, from 1:20,000 scale nine-lens photographs taken July, 1950 and June, 1951. For additional nine-lens photography refer to:

Air-photo Index A-38 (1:20,000 scale, taken September 1947) Air-photo Index B-3 (1:28,000 scale taken Sept. 1947) Air-photo index B-13 (1:20,000 scale, taken September 1947 and August 1948)

For single-lens photography on which some field work was done refer to:

Air-photo Index A-11 (1:27,500 scale, taken August 1948) Air-photo Index A-23 (1:27,500 scale, taken August, 1948, and 1:40,000 scale, August, 1950)

Air-photo Index A-24 (1:27,500 scale, August, 1948) Air-photo Index A-36 (1:40,000 scale, August, 1950)

For photography of other agencies on which some field work was done refer to:

Alaskan WAC 64 Index (1949 Naval Petroleum Reserve photography, scale 1:20,000 and 1946 Air-Force TRI-MET photography, scale 1:24,000)
Summary to Accompany T-9472 through T-9474

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.

There are ninety-four topographic quadrangles (T-9402 to T-9434 and T-9436 to T-9496) in this project.

T-9472 through T-9474 are topographic surveys which border on the southeasterly portion of Hotham Inlet and on the northwestern portion of Selawik Lake.

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 color photographic print of each map at the compilation scale will be registered with the descriptive report in the Bureau of Archives.
FIELD INSPECTION REPORT

2-20:

See separate report entitled:

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

21-30:

See Descriptive Report for quads T-9468 and T-9469, a combined report. The Radial Plot/therein covers the three quads of this report also, and is not repeated here.
31. Delineation:

The entire area of the three quads of this report has been delineated on the Reading Plotter, model "B", in a single operation.

32. Control:

According to side-heading 23 of the Radial Plot Report, there was adequate horizontal control for a satisfactory plot. The vertical control was also adequate with the majority of the land area being very close to sea-level datum in the extensive Kobuk River delta. In addition, three V-stations were established by the field party and elevations computed for them after the plot had fixed horizontal distances to them; V-1111 and V-1113 on T-9473, V-1107 on T-9474, and none on T-9472.

33. Supplemental Data:

a. Field Inspection Photos:

20633, 20654, 20856, 20690, 20691, 20692, 20693.

b. Elevation Computations:

"TABULATION OF ELEVATIONS AND COMPUTATIONS OF ELEVATIONS BY MANUSCRIPTS FOR VERTICAL CONTROL STATIONS IN THE AREA OF MANUSCRIPTS T-9462, T-9463, T-9466,
T-9467, T-9470, T-9471, and T-9475."

34. Contours and Drainage:

The instrument photographs were of very good photographic quality and no areas of questionable contours are left.

35. Shoreline and Alongshore Details:

Shoreline inspection was adequate considering the marshy and unstable nature of the shoreline in this river delta area. For this same reason no distinction has been made on the manuscripts between apparent and definite shoreline. No low-water or shoal lines were delineated, field or office.

36 Offshore Details: Not applicable.

37. Landmarks and Aids: None recommended - none exist.

38. Control for Future Surveys:

Three Topo stations and no Hydro stations were selected and photo-identified in the field, and have been located by the radial plot; FAIN, 1948, FACE, 1948 on T-9472, and POLE, 1948 on T-9474. See sub-heading 49.
39. **Junctions:**

All junctions are in agreement since these sheets have been compiled simultaneously with all adjoining quads as shown on page 5, the project layout diagram.

40. **Horizontal and Vertical Accuracy:**

The three maps of this report are at a scale of 1:20,000 and they meet the requirements specified by map standards for maps of that scale. These maps are compiled to meet the requirements for 50ft contour interval, but because of the lack of relief in the area the 25ft supplemental has been delineated also. It is believed these 25ft contours are accurate to half 25ft, but this should not detract from the fact that these maps are considered to be 50ft contour maps.

46. **Comparison with Existing Maps:**

No maps of comparable scale exist; the following map does cover the same area:


47. **Comparison with Nautical Charts:**

No chart of comparable scale exists; the following chart does cover the same area:

"ARCTIC COAST, Alaska, No 9400, 1:1,500,000, May 1946, 5th edition, last correction date of 27 Nov 1950."

48. **Geographic Name List:** See next numbered page, page 11.

49. **Notes for the Hydrographer:** See unnumbered page following.

50. **Compilation Office Review:** See page 12 following.

Submitted by

[Signature]

Orvis M. Dalbey, Cartographer—Photogrammetric

Approved by

[Signature]

Louis Reed
49. Notes for The Hydrographer:

**T-9472**

a. **Topo Stations:**

FAWN, 1946 - identified on photo 20354 - see 524 card
FACE, 1946 - identified on photo 20356 - see 524 card

b. **Hydro Stations:** None

**T-9473**

None

**T-9474**

a. **Topo Stations:**

POLE, 1948 - identified on photo 20693 - see 524 card

b. **Hydro Stations:** None
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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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Kotzebue Sound for titles
Kobuk River Delta

Names approved 1/4/53  
L. Heck
PHOTOGRAMMETRIC OFFICE REVIEW

T. 9472, R. 3, S.


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)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines ✓ 32. Public land lines ✓

MISCELLANEOUS


40. supervisor: Louis E. Reed, Chief Stereoscopic Mapping Section Photogrammetric Engineer

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 and noted 43.

Compiler

Supervisor

43. Remarks: