9495 9496

9496

Diag. Cht. No. 9400.						
Form 504						
U. S. COAST AND GEODETIC SURVEY						
DEPARTMENT OF COMMERCE						
DESCRIPTIVE	REPORT					

Type of Survey Topographic T-9495 Field No. Ph-28 (47) Office No. T-9496
LOCALITY
State Alaska
General locality Kotzebue Sound
Locality Candle
1948-51
CHIEF OF PARTY A.N.Stewart, Chief of Field Party

CHIEF OF PARTY
A.N.Stewart, Chief of Field Party
H.A.Paton, Chief Baltimore Photo.

Cffice.

LIBRARY & ARCHIVES

DATE January 9, 1958

B-1870-1 (1)

DATA RECORD

T-9495 and T-9496

Ph-28(47) Quadrangle Name (IV): T-9495 = CANDLE T-9496 = CLEM MOUNTAIN Project No. (II):

Field Office (II): Portland, Oregon Chief of Party: A. Newton Stewart

Photogrammetric Office (III):

and, Oregon

Baltimore, Md Radial Plot Hubert A.Paton, Officer-in-Charge:
Washington, D.C. Compilation Louis J. Reed, Chief,
Stereoscopic Mapping Branch
Copy filed in Division of Branch

Instructions dated (II) (III):

Photogrammetry (IV)

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

Method of Compilation (III): Reading Plotter

Stereoscopic Plotting Instrument Scale (III): 1:20,000 Manuscript Scale (III): 1:20,000

Scale Factor (III): 1:1

JUN 29 1953

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 16 May 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927 Changisted

Vertical Datum (III):

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

Reference Station (III):

Lat.:

Long.:

Plane Coordinates (IV):

State:

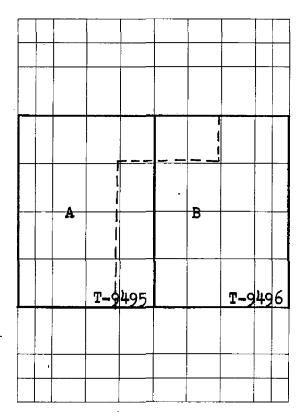
Zone:

X=

Universal Transverse Mercator Grid, Zone 4, with 2500m 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)

- A = Compiled on the Reading Plotter, model "A", by Clarence E. Misfeldt.
- B = Compiled on the Reading Plotter, model "B", by Louis Levin and Orvis N. Dalbey.

DATA RECORD

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

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

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

This compilation is dated 1948 since it was guided by 1948 field inspection of the MHWL on 1947 photographs. However, for all practical purposes, because the instrument photography used was taken in 1951, this compilation could be dated 1951.

Projection and Grids ruled by (IV): Jack Allen on the Reading Ruling Machine 4 Jun 52 Projection and Grids checked by (IV): Date: Howard D. Wolfe 5 Jun 52 Date: Control plotted by (III): Albert Queen 24 Jul 52 Date: Control checked by (III):

Joseph Stein berg 25 Jul 52

Date: 12 Aug 52 Radial Plot of Styreosopping Ruth Hartley Control extension by (III): Verified by Frank J. Tarcza 13 Aug 52

Planimetry Clarence E. Misfeldtate: delineation
Stereoscopic Instrument opportunity (III): and Louis Levin, and 28 May 53 Orvis N. Dalbey Contours Date:

Manuscript delineated by (III): Robert L. Sugden and 26Julie53 Henri Lucas

Photogrammetric Office Review by (III): Louis J. Reed Date: 27/ July 53

Date: 27 Jule53 Elevations on Manuscript Louis J. Reed

checked by (t) (III):

USC&GS 9-lens, model "B", f = 8.25 inches Camera (kind or source) (III):

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
33958 33959 60 61 65 66 67 68 72 73 74 75 34003 4	27 Jun 51	1539 41 42 43 44 53 55 56 58 1605 1607 1608 1609 1644 Tide (III) 45	1:20,000	- 2 ft. No tide
Reference Station:	Icy Ca	ape Kiwalik		Ranges Range Range
Subordinate Station: Subordinate Station:				2.7
Washington Office Rev	view by (IV): B. J	1. Colner		Date: ~/3/54
Final Drafting by (IV):	John H. Frazier	r-9496		Date: 2/2/56 2/15/56
Drafting verified for re				Date:

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): \$1 sq mi, each quad

Shoreline (More than 200 meters to opposite shore) (III): 13 miles on T-9495 (none on T-9496)

Shoreline (Less than 200 meters to opposite shore) (III): 76+ miles on T-9495 (none on T-9496) Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II):

Recovered:

Identified: 2 (both on

Number of BMs searched for (II):

None

Recovered:

Identified:

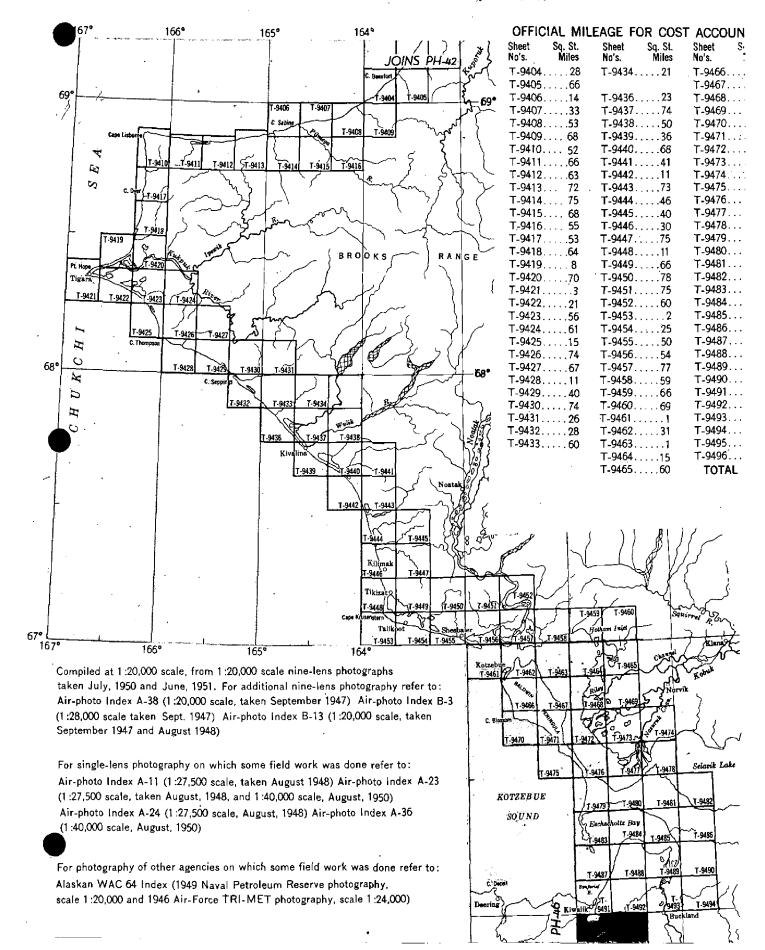
Date:

Number of Recoverable Photo Stations established (III): 2 (both on T-9495) Number of Temporary Photo Hydro Stations established (III): 2 (both on T-9495)

Remarks:

TOPOGRAPHIC MAPPING PROJECT PH-28

ALASKA, Chukchi Sea, Kiwalik to C. Beaufort



Summary to Accompany T-9495 and T-9496

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-9495 and T-9496 are topographic surveys which contain the Kiwalik River, Jump and Duck Creeks, and the southern portion of Kiwalik Lagoon.

Each map manuscript consists of one sheet, $7\frac{1}{2}$ 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 of Archives.

FIELD INSPECTION REPORT

2-20: See spearate 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

21-31:

A single radial plot covered the area of the two quads of this report along with several other quads. A single radial plot report was written for the entire area and this report has been included in the Descriptive Report for quads T-9454 thru T-9456 (combined).

COMPILATION REPORT

31. Delineation:

The cultural features and contours were delineated simultaneously on the Reading Plotters by areas; see page 2. The entire land area of both quads has been mapped.

32. Control:

The Radial Plot Report, side-heading 23, indicates that horizontal control was inadequate; vertical control was also below requirements. But since the radial plot was made it has been discovered that AMS had just completed a compilation of the area to the south, east, and west of the two quads being reported. Control bridged by AMS for their work was extended north into our area, and it served as additional control, both vertical and horizontal, for our compilation. With this supplement, control was adequate.

33. Supplemental Data:

- a. Elevation Computations: Separate volumn entitled:
 - "COMPUTATIONS OF ELEVATIONS AND TABULATION OF VERTICAL CONTROL POINTS FOR SURVEYS T-9482, T-9484 thru T-9496."
- b. Field Inspection Photos: 20651, 20871, and 20872.
- c. AMS Junction Sheets: BENDLEBEN D1, CANDLE D6 and D5

34. Contours and Drainage:

The photographs were of good quality and no areas of questionable contouring remain.

35. Shoreline and Alongshore Details:

Shoreline appears on T-9495 only. Inspection was adequate. Considerable apparent shoreline has been shown in Kiwalik Lagoon, with grass and mud areas indicated.

36. Offshore Deatils: Not applicable.

37. Landmarks and Aids:

No aids exist but one landmark was recommended by the field inspector; CLEM MOUNTAIN on T-9496.

38. Control for Future Surveys:

Two topo and three hydro stations were field selected and photo-identified. They have been positioned on T-9495 by the radial plot, as follwos: SAGE 1948, WASP 1948, No.654, No.784, and No.786. No such points exist on T-9496.

39. Junctions:

All junctions are in agreement including the south borders of both quads and the west border of T-9495 and the east border of T-9496, where junction was made to recent AMS compilations without alteration to AMS details or contours.

40. Horizontal and Vertical Accuracy:

The inadequacy of control as reported in the Radial Plot Report indicates that this compilation does not meet the requirements for standard accuracy. However, with the additional AMS control (see side-heading 32), the resulting total is adequate, and these two manuscripts meet the accuracy requirements specified for 1:20,000 maps with a 50ft contour interval. The supplemental (25ft) contours delineated are to assist the 50ft contours in protraying the relief of the ground where the spacing is too great, and they must be considered as meeting the same 50ft contour interval standards even though the instrument operator believes they will meet the standards for a 25ft interval. The strength of this compilation is emphasized by the fact that our radial plot and the AMS bridging of control were completed separately without the knowledge of the others operation, and yet details along the junction plotted in almost perfect accord and the contours were equally good. An Engr △ on Clem Mountain, the existance of which was unknown to our radial plot people, was plotted during instrument compilation, and it was held to within 0.3mm by our radial plot positioning of the model in which it fell, using AMS photo-identification of the point.

46. Comparison with Existing Maps:

CANDLE, Alaska Reconnaissance Topographic Series, U.S.G.S., 1:250,000, Edition of 1951.

47. Comparison with Nautical Charts:

ARCTIC COAST, Alaska, No.9400, 1:1,587,870, May 1946, 6th edition, last correction date of 27 Nov 50.

48. Geographic Name List: See page 11.

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

50. Compilation Office Review: See page 12.

Submitted by:

- /

Approved by

William D. Harris, Chief,

9-Lens Plotting Inst. Sect.

Louis J. Reed, Onief

Stereoscopic Manning Branch

Photogrammetric Engineer

49. Notes for the Hydrographer:

The following topo and hydro stations were field selected and identified. They have been positioned on the T-9495 manuscript; none exist in the area of T-9496. Posationing was by radial plot.

a. Topo Stations:

SAGE 1948; identified on 20871; described on 524 card WASP 1948: " 20872; " "

c. Hydro Stations:

No.654: identified and described on photo 20871 No.784: " 20872 No.\$86: " 20872

No.645 W gable of small cabin.

No.784 N tip of small marsh island.

No.786 N tip of marsh on SW side of mouth of small creek on SE side of larger creek.

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	GEOGRAPHIC NAMES		/	No our	S. Wood A.	£ /	18	O. Guide de	Mod Monday	Too Se	-
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	T-9495, 96	100	10. 00	40. Qu	14	or into	The state of the s	0/	2000	5/	
F	Name on Survey	A	/ B	/ c	/ D	E	F	/ G	H	/ K	
	<u>T-9495</u>								14		1
	CANDLE (Village)										2
	CANDLE (Field)	1 3									3
(E)30400 (A)	CANDLE No.2 (Field)										4
	CANDLE CREEK	1212,5									5
	CANDLE DITCH										6
THE REAL PROPERTY.	JUMP CREEK										7_
	KIWALIK LAGOON										8
	KIWALIK RIVER										9
	MIDDLE CHANNEL										10
	MINNEHAHA CREEK										11
	MUD CREEK							*			12
	MUD CREEK CHANNEL								46		13
	MUD CREEK DITCH										14
	NORTH CHANNEL										15
	WABASH CREEK										16
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	T-9496										18
	DUCK CREEK										19
	CLEM MOUNTAIN										20
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PHOTOGRAMMETRIC OFFICE REVIEW

T.9495 4 9496

1. Projection and grids2. Title3. Manuscript numbers4. 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)
9. Plotting of sextant fixes 7 10. Photogrammetric plot report 11. Detail points 7 = checked ALONGSHORE AREAS 7 = non - equivalent (Neutical Chart, Data)
ALONGSHORE AREAS 77 = non - existen
(Hautical Ghair Buta)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids
to navigation17. Landmarks18. Other alongshore physical features19. Other along -
shore cultural features
PHYSICAL FEATURES
20. Water features21. Natural ground cover22. Planetable contours23. Stereoscopic instrument contours24. Contours in general25. Spot elevations26. Other physical
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
features 7/
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. Description 38. Field inspection photographs 39 Forms
40. Janick eed
Supervisor, Review Section or Unit
Louis Officed, Chief 41. Remarks (see attached sheet) Stereoscopic Mapping Branch
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.

43. Remarks:

Review Report T-9495 through T-9496 Topographic Maps February 3, 1954

- 62. Comparison with Registered Topographic Surveys .- None
- 63. Comparison with Maps of Other Agencies .-

USGS Alaska Map, Candle 1:250,000 1951 edition Comparison not feasible due to great difference in scale.

- 6lı. Comparison with Contemporary Hydrographic Survey. None
- 65. Comparison with Nautical Charts .-

1:1,587,870 91100 June 1950 1:750.000 9402 May 1950

Scale difference precludes a satisfactory comparison.

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:

APPROVED

Chief, Review Branch

Div. of Photogrammetry

18 Rec 1957

Photogrammetry

Chart Branch

Division of Charts

Coastal Surveys