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n	0493	

Diag. Cht. No. 9400.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic
T-9491
Field No. Ph-28 (47) Office No. thru
T-9494

LOCALITY

State Alaska

General locality Kotzebue Sound

Locality Spafarief Bay

1948-51

CHIEF OF PARTY

A. N. Stewart, 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

B-1870-1 (1)

DATA RECORD

T-9491, 92, 93, 94

T-9491 = KIWALIK VILLAGE

Project No. (II): Ph-28(47) Quadrangle Name (IV): T-9492 = DUCK CREEK

T-9493 = BUCKLAND RIVER T-9494 = BUCKLAND STATION

Field Office (II): Portland, Oregon

Chief of Party: A. Newton Stewart

Baltimore, Md

Radial Plot = Hubert A. Paton, Chief
Officer in Charge:

Photogrammetric Office (III):

Washington, D.C. Compilation = Louis J. Reed, Chief, Stereoscopic Mapping Branch

Instructions dated (II) (III):

Photogrammetry (IV)

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

Method of Compilation (III):

Reading Plotter

Manuscript Scale (III): 1:20,000

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

Scale Factor (III):

1:1

Date received in Washington Office (W) 25 pate reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 29 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 (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 .:

Adjusted

Plane Coordinates (IV):

State:

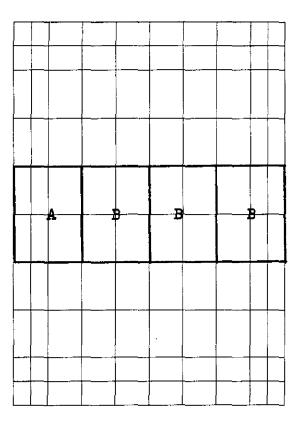
Zone:

X=

Universal Transverse Mercator Grid, Zone 4, 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. Misfedat.
- 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 1948

Planetable contouring by (II): None Date:

Completion Surveys by (II): Date: None

Mean High Water Location (III) (State die hed 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, it could be dated 1951 because the instrument photography was taken in 1951.

Projection and Grids ruled by (IV): 3 Jun 52 Date:

Jack Allen on the Reading Ruling Machine 4 Jun 52 Projection and Grids checked by (IV): Date:

Howard D. Wolfe Control plotted by (III):

Albert Queen 24 Jul 52

Date: Control checked by (III):

Joe Steinberg 25 Jul 52

Date: 12 Aug 52 Radial Plot professorpic Ruth E. Hartley Control extension by (III): verified by Frank J. Tarcza 13 Aug 52

Planimetry Clarence E.MisfeldtDate:

delinestion Stereoscopic Instrument company (III): Orvis N. Dalbey 28 May 53 and Contours Louis Levin Date:

Date: 11 Jun 53 Manuscript delineated by (III): Robert L. Sugden and

Henri Lucas

Date: 22 JUNE 53 Photogrammetric Office Review by (III): Louis J. Reed

Date: 22 JUNE 53 Louis J. Reed Elevations on Manuscript

checked by (M) (III):

Date:

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

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
34001-03 33967-70 33956-59 33874-85 33868- 6 9 33833-36 33824-26 33810-11	27 Jun 51	1642-44 1556-1600 1537-41 1347-1401 1335-36 1248-52 1235-37	1:20,000	-2 ft2 ft2 ft2 ft. No Tide -1 ft1 ft1 ft.

Tide (III)

Reference Station:

Icy Cape KiwaliK

Subordinate Station: Subordinate Station:

Washington Office Review by (IV): Bernard J. Colner

Frank Johnson 7-9491 - T-9492

John H. Frazier F-9494 John H. Frazier T-9493 Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Recovered:

Recovered:

Land Area (Sq. Statute Miles) (III): See remarks below See remarks below Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III): See remarks below

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 6

Number of Temporary Photo Hydro Stations established (III):

Ratio of Mean Ranges Range Range

Date: 2/3/56

Date:

Date:

Identified:

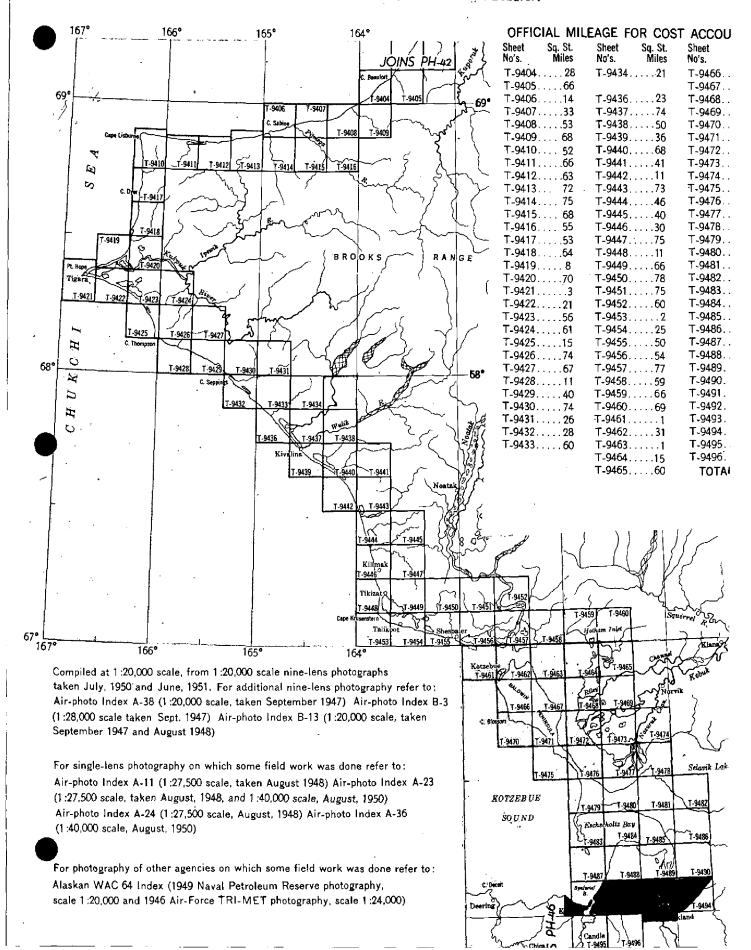
Identified:

Remarks:

T-9491 =	LAND AREA 30 sq mi	200m+ SHORELINE 35 miles	SHORELINE 190 miles
T-9492 =	%/ sq mi	o miles	o miles
T-9493 =	8/ sq mi	35 miles	80 miles
T-9494 =	44 sq mi	o miles	o miles

TOPOGRAPHIC MAPPING PROJECT PH-28

ALASKA, Chukchi Sea, Kiwalik to C. Beaufort



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

This project consists of ninety-four topographic quadrangles (T-9402 to T-9434 and T-9436 to T-9496).

T-9491 through T-9494 are surveys of the area containing the southern portion of Spafarief Bay, the upper portions of Kiwalik Lagoon and Buckland River and Duck Creek.

Each map menuscript 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 becket lithegraphic 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 eseparate 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 separate Descriptive Report. The area of the four quads of this report was included in the same radial plot with several other quads, and the single report for that plot is included in the Descriptive Report (combined) for quads T-9484 thru T-9486.

COMPILATION REPORT

31. Delineation:

Contours and cultural features were delineated simultaneously on the Reading Plotters by areas as shown on page 2 of this report. The entire land area has been mapped except for the SE half of T-9494 where photo coverage was lacking and control was not established.

32. Control:

According to the Radial Plot Reoprt horizontal control points were not adequate for a properly controlled plot, especially in the eastern part (in T-9493 and T-9494). This was true but perhaps the plot was stronger than suspected as born out by junctioning with AMS compilation in the area to the south of T-9493; During the AMS compilation procedure they had bridged over the border on their stereoplanigraphs into our area, and a comparison of a few common positions with our plot checked very favorably. It is felt that our horizontal position is very good even though horizontal control did not meet specifications.

Vertical control was also inadequate in the heart of T-9492 and in most of the compiled area in T-9494, and a small amount of instrument bridging was necessary to carry datum thru these areas of scarce vertical points. The overall instrument datum was set thru peak elevations, V-stations, and tide waters.

33. Supplemental Data:

- a. Elevation Computations: Separate volume entitled:

 "COMPUTATIONS OF ELEVATIONS AND TABULATION OF VERTICAL
 CONTROL POINTS FOR SURVEYS T-9482, T-9484 thru T-9496."
- b. Field Inspection Photos:

20652,20653,20660,20661,20868,20869,20872,20873,20874,208**8**5.

c. AMS Junction Sheets:

CANDLE D5 and KOTZEBUE A1

34. Contours and Drainage:

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

35. Shoreline and Alongshore Details:

Of the four quads of this report, shoreline appears on T-9491 only. The inspection was adequate. Shallow water lines and grass-in-water lines have been delineated.

36. Offshore Details: None.

37. Landmarks and Aids:

One landmark was recommended in this area on T-9491. It is a tall tank, the tallest of four, in the village of Kiwalik. It is listed on form 567 as a separate page in this report, and carbons have been prepared for Nautical and Aeronautical Branches.

38. Control for Future Surveys:

Six topo and three hydro stations were field selected and identified on T-9491 as follows: BLUE 1948, GRIP 1948, HALO 1948, MULE 1948, SMUG 1948, YOKE 1948, and 785, 787, and 788. All these points have been positioned by the radial plot and are shown on the manuscript in name and symbol.

39. Junctions:

All junctions are in agreement including two margins that joins with recent AMS compilation as shown on the layout sketch, page 5.

40. Horizontal and Vertical Accuracy:

It is felt that these four compilations meet the standards for 1:20,000 scale maps with a 50ft contour interval. However, because of inadequate control, both horizontal and vertical, as explained in side-headings 23 and 32, the accuracy of all four maps must be labeled doubtful.

46. Comparison with Existing Maps:

"SELAWIK, Alaska Reconnaissance Topographic Series, Second Judicial Division, U.S.G.S., 1:250,000, 1951 edition."

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 separate numbered page.
- 49. Notes for the Hydrographer: See separate unnumbered page.
- 50. Compilation Office Review: See separate numbered page.

Submitted by:

William D. Harris, Chief,

Nine-Lens Plotting Instrument Section

Approved by:

— Louis J. Reed, Chief Stereoscopic Mapping Branch

Photogrammetric Engineer

GEOGRAPHIC NAMES	adrana			, / ,	Mag	RIJOS /	Š
Survey No.	2 "802 \ \ 0100.	local tion	Mad	Guide	McHall	jegi	/
GEOGRAPHIC NAMES Survey No. T-9491,92,93,94 Or No. Or No. Or No. Or No. Or No.	D tro	nor otro	Or loca Moss	2 Octive of	wood and a sound of the sound o	J. S. Jegu	
Name on Survey A B C	D 1	<u> </u>	F	G	<u>/ H</u>	<u>/ K</u>	4
<u>T-9491</u>						<u> </u>	
KIRK CREEK						<u> </u>	<u> </u>
KIWALIK							<u> </u>
KIWALIK LAGOON		_=					
SPAFARIEF BAY				<u> </u>	<u> </u>	ļ. <u>—</u> .	_
Minnehaha Creek						ļ	
T-9492		,					
DUCK CREEK		·				<u></u>	_
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<u>T-9493</u>		<u> </u>				ļ	<u> </u>
BUCKLAND RIVER					ļ. <u> </u>		1
DUCK CREEK							1
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<u>T-9494</u>							1
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Alaska							1
Second Indicial Division						-	1
Kotzebue Sound			·			 	2
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Form 567 April 1945

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PF COMMERCE **DEPARTMENT**

U. S. COAST AND EODETIC SURVEY

(XKWXBEXXXEXXEXXX) TO BE CHARTED

Stereoscopic Mapping Branch, Wash., D.C. 19—
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

Louis J. Reed

E 37.47.5				-	POSITION			METHOD		TRAI	
- 1	T-9491, Actzebue Sound, Ataska		LAT	LATITUDE	LONG	LONGITUDE		LOCATION	DATE	OR CH	CHARTS APFECTED
CHARTING	DESCRIPTION	SIGNAL	-	D.M.METERS	0	D. P. METERS	DATUM	SURVEY No.	LOCATION	HSH	
	Tank, tallest of four, at Kiwalik on Spafarief Bay		66°01		758m 161°50'	四十九己	NA 1927	Radial Plot	Augi52		
			,	,							
			,								Pa
											ge
		**									12

49. Notes for the Hydrographer:

The following topo and hydro stations were field selected and identified, and have been postioned by the radial plot on the manuscripts. All stations fall on T-9491; none exist on the other three quads of this report.

BLUE 1948 GRIP 1948 HALO 1948 MULE 1948 SMUG 1948 YOKE 1948	Identificat: 2 9 572 20573 20572 20572 20572 20574	Ion Photo Other 524 card II II II II
No 785	20872	"N tip of a small point of marsh on the S shore of a small lake. Point is about 40m E of MHWL on the sand beach."
No 787	20874	"Apex of "V" in sand at end of small lake."
No 788	20874	"NE tip of pond."

PHOTOGRAMMETRIC OFFICE REVIEW

1.9491,2,3,4

1. Projection and grids2. Title	3. Manuscript numbers 4. Manuscript size
	CONTROL STATIONS
5. Horizontal control stations of third-ord	er or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic et	tations) 7 Photo hydro stations 8 Pench marks 31
9. Plotting of sextant fixes10.	Photogrammetric plot report 11. Detail points
7	Photogrammetric plot report 11. Detail points
	ALONGSHORE AREAS
	(Nautical Chart Data)
12. Shoreline13. Low-water lin	ne 2/ 14. Rocks, shoels, etc. 15. Bridges 2/ 16. Aids
to navigation17. Landmarks	18. Other alongshore physical features 19. Other along -
shore cultural features 2	
7	ALONGSHORE AREAS (Nautical Chart Data) 14. Rocks, shoals, etc
	PHYSICAL FEATURES
20. Water features21. Natural	ground cover22. Planetable contours23. Stereoscopic purs in general25. Spot elevations26. Other physical
instrument contours 24. Conto	ours in general 25. Spot elevations 26. Other physical
features	
	CULTURAL FEATURES
27. Roads 28. Buildings	CULTURAL FEATURES 30. Other cultural features
7	7
	BOUNDARIES
31. Boundary lines 32. Public	land lines
1	
	MISCELLANEOUS
33. Geographic names 34. Jun	actions 35. Legibility of the manuscript 36. Discrepancy
overlay37. Description report	38. Field inspection photographs 39. Forms
40.	- (Suis () ced
Co Toyletico V	Supervisor, Review Section or Unit
41. Remarks (see attached sheet)	Louis J. Reed, Chief
	Stereoscopic Mapping Branch
FIELD COMPLETION	Photogrammetric Engineer ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished I manuscript is now complete except as n	by the field completion survey have been applied to the manuscript. The loted under item 43.
Compiler	Supervisor
43. Remarks:	M-2623-12
,	11/2023-12

Review Report T-9491 through T-9494 Topographic Maps February 1, 1954

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

1:250,000 1951 edition USGS Alaska Map, Selawik

Only visual comparison possible because of great scale difference.

- 64. Comparison with Contemporary Hydrographic Surveys .-
- 65. Comparison with Nautical Charts .-

9400 9402 1:1,587,870

June 1952

1:750,000

May 1950

Comparison not possible with these charts because of great 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:

APPROVED

Photogrammetry

Chief, Nautical Ch Division of Charts Chart Branch

otogrammetry