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Diag. Cht. No. 9400.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-27 (118) Office No. T-9475, T-9476
T-9477, T-9478

LOCALITY

State Alaska

General locality Kotzebue Sound

Locality Baldwin Peninsula and Nazuruk
Channel Areas.

1948-51

CHIEF OF PARTY

A.N. Stewart, Chief of Field Party

H. A. Paton, Chief B'more Photo. Office

E. J. Reed, Div. of Photo. Wash., D.C.

LIBRARY & ARCHIVES

DATE January 22, 1958

DATA RECORD

T-9475, 76, 77, 78

Project No. (II): Ph-28(47)

Quadrangle Name (IV):

T-9475 = TOPO STATION CHAR

T-9476 = TRIANGULATION STATION INLET

T-9477 = MOUTH NAZURUK CHANNEL

T-9478 = ATTIUNIK POINT

Field Office (II): Portland, Oregon

Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Baltimore, Md
Washington, D.C.Radial Plot
Officer-in-Charge: Compilation

Hubert A. Paton, Chief

Louis J. Reed, Chief

Stereo-Map Section

Instructions dated (II) (III):

Copy filed in Division of
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 (IV):

DEC 16 1952

Date reported to Nautical Chart Branch (IV):

DEC 22 1952

Applied to Chart No.

Date:

Date registered (IV):

13 May 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

(readjusted)

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

Unadjusted

Plane Coordinates (IV):

State:

Zone:

Y=

X=

MILITARY GRID: Universal Transverse Mercator,

Zone 3 = T-9475

Zone 4 = T-9476, 77, 78.

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)
 (H) (III)

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

Louis Levin
 and
 Arthur B. Zimmerli

DATA RECORD

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

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

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

This MHWL might be considered as dated 1951 since it was compiled using 1951 photographs, but the compilation was guided by 1948 field indications of the MHWL on 1947 photographs, and therefore it is a 1948 shoreline. *eventually 1951*
 Projection and Grids ruled by (IV):

Jack Allen on the Reading Ruling Machine Date: 3 Oct 51
 Projection and Grids checked by (IV): Date: 4 Oct 51

Howard D. Wolfe
 Control plotted by (III): Date: 11 Dec 51
 Ruth Hartley

Control checked by (III): Grover B. Torbert Date: 11 Dec 51

Radial Plot or Stereoscopic Ruth Hartley Date: 17 Jul 52

Control extension by (III): Verified by Frank J. Tarca

~~delineation~~ Planimetry Louis Levin Date:
 Stereoscopic Instrument ~~compilation~~ (III): and
 Contours Arthur B. Zimmerli Date: 20 Sep 52

Manuscript delineated by (III): Arthur B. Zimmerli Date: 4 Dec 52

Photogrammetric Office Review by (III): Louis J. Reed Date: 9 Dec 52

Elevations on Manuscript
 checked by (II) (III): Louis J. Reed Date: 9 Dec 52

Camera (kind or source) (III):

USC & GS 9-lens camera, model "B", f = 8.25 inches

Instrument PHOTOGRAPHS (III)

Number

Date

Time

Scale

Stage of Tide

33 859-62

1325 - 1329

33903-05

27 Jun 51

1426 - 1428

20,000

No tide

- 1 ft.

33929-33

1453 - 1458

Tide (III)

Reference Station:

~~Ley Cape~~ Kiwalik

Subordinate Station:

Subordinate Station:

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

Final Drafting by (IV): Pat Lach

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Ratio of Ranges	Mean Range	Spring Range
		61
		2.7

Date: 11-10-53

Date: 1-3-56

Date:

Date:

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: 4

Number of BMs searched for (II): None

Recovered:

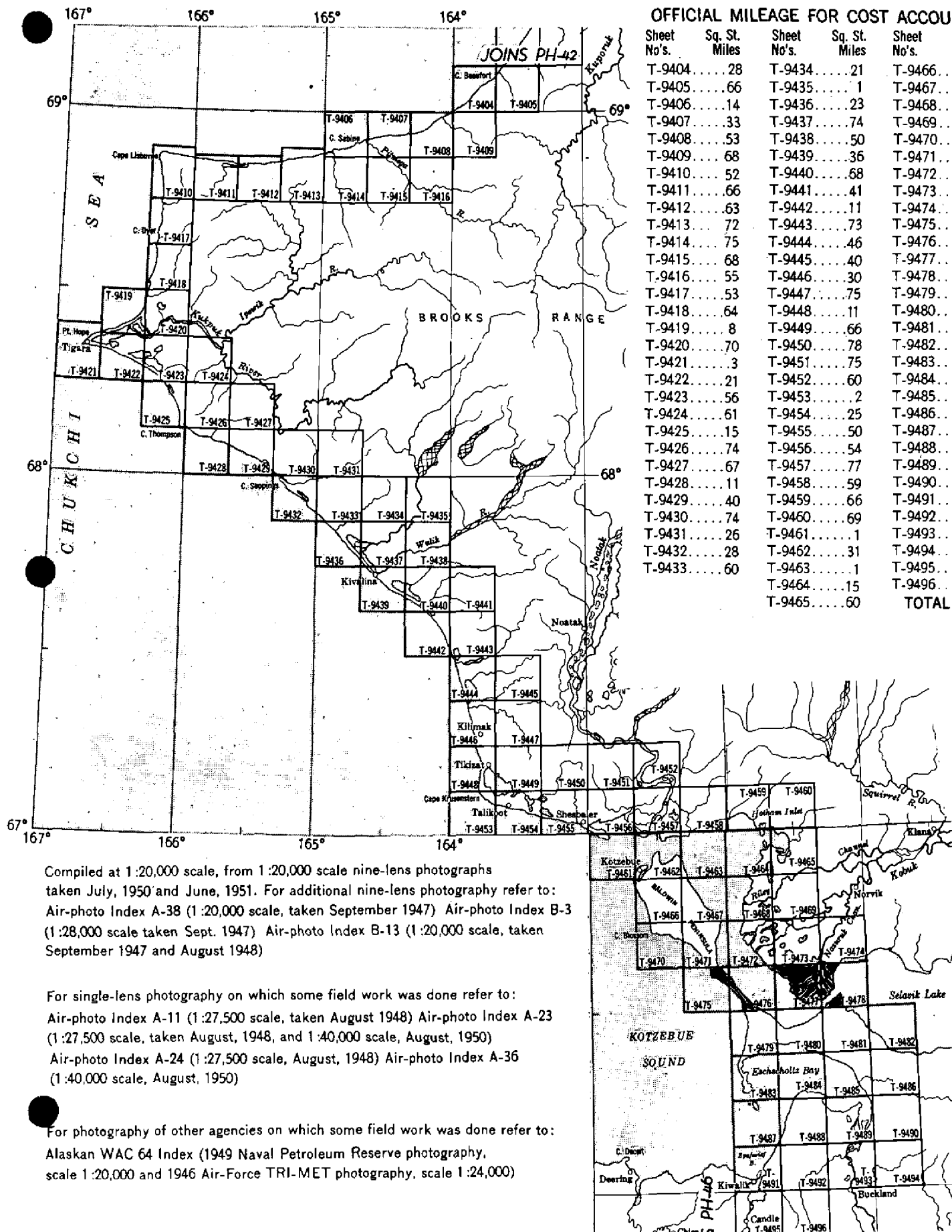
Identified:

Number of Recoverable Photo Stations established (III): eleven

Number of Temporary Photo Hydro Stations established (III): four

Remarks:

	LAND AREA	200m+ SHORELINE	200m- SHORELINE
T-9475 =	6 sq mi	.3 miles	none
T-9476 =	9 sq mi	1.4 miles	none
T-9477 =	44 sq mi	1.5 miles	4 miles
T-9478 =	29 sq mi	1.6 miles	5 miles



Summary to Accompany T-9475 through T-9478

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-9475 through T-9478 are topographic surveys which contain the lower portion of the Baldwin Peninsula and the mouth of the Nazuruk Channel, and they border on the Kotzebue Sound, Hotham Inlet, and Selawik Lake.

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~~ *crumpled* ~~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 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 REPORTS

21-30:

The area of the three quads of this report was controlled as the junction area of three separate radial plots, one down the long narrow neck of the Baldwin Peninsula, one of the south portion of the Kobuk River Delta, and the third as the northern portion of the peninsula forming the south shore of Eschscholtz Bay. The first two were laid first and separately, and then both were tied into the third when it was laid.

Therefore, for information concerning the radial plot for the area being reported, see three separate Descriptive Reports each of which contains a Radial Plot Report that is involved, as follows:

Baldwin Peninsula area in combined report T-9466 and T-9467.

Kobuk River Delta area in combined report T-9468 and T-9479.

Elephant Point Area in combined report T-9479 thru 82.

COMPILATION REPORT31. Delineation:

Contours and cultural features were delineated on the Reading Plotter, model "B", simultaneously. the entire land area of all four quads has been mapped.

32. Control:

Horizontal control was adequate for satisfactory radial plots according to side-heading 23 of both Radial Plot Reports involved. Vertical control was also adequate, more than adequate because the majority of the area is very low, very near sea-level datum, furnishing many points of elevation along the shoreline. One V-station was supplied by the field party, V-1108 on T-9478. An elevation was computed for it following the radial plot and this elevation agreed with the datum of the model in which it fell.

33. Supplemental Data:a. Elevation Computations:

"TABULATION OF ELEVATIONS AND COMPUTATION OF ELEVATIONS BY MAP MANUSCRIPTS FOR VERTICAL CONTROL STATIONS IN THE AREA OF MAP MANUSCRIPTS T-9465, T-9468, T-9469, T-9473, T-9474, T-9476, T-9477, and T-9478."

b. Field Inspection Photographs:

20564, 20692, 20693, 20694, 20857, 20858, 20859, 20860, 20891, 20892, 20893, and 20894.

34. Contours and Drainage:

The photographs were of good quality photographically and no areas of questionable contours are left.

35. Shoreline and Alongshore Details:

Shoreline inspection was adequate as an indication of the location of the MHWL relative to the tide stage. A few shoal areas were delineated on T-9477 and T-9478 during instrument operations.

36. Offshore Details: Not applicable.37. Landmarks and Aids: None recommended - None exist.38. Control for Future Surveys:

Eleven Topo Stations and four Hydro stations were selected and photo identified in the field. All have been positioned by the radial plot and appear on the manuscripts in proper name and symbol as follows:

(See next page)

38 Control for Future Surveys(continued):

	<u>TOPO STATIONS</u>	<u>HYDRO STATIONS</u>
T-9475	CHAR, 1948.	No 765, No 766
T-9476	BAIT 1948, CHOP 1948, EARL 1948, FA ME1948.	No 767, No 768
T-9477	BASS 1948, SAND 1948.	None
T-9478	BLOW 1948, PLUM 1948, PRIM 1948, VEST 1948.	None

39. Junctions: All are in agreement - see page 5 for quad numbers.40. Horizontal and Vertical Accuracy:

These maps have been compiled at a scale of 1:20,00 and they meet the requirements of Map Standards (horizontal) for maps of that scale. The 25ft contour has been delineated thruout and is believed to be accurate to half 25ft. However, these maps have been contoured as 50ft contour interval maps and they are accurate to the degree specified by Map Accuracy Standards for a map of 50ft contour interval.

46. Comparison with Existing Maps: No maps of comparable scale exist, but the following two do cover the same area:

"SELAWIK and KOTZEBUE, Alaska, Reconnaissance Topographic Series, Second Judicial Division, USGS, 1:250,000, 1951 Ed."

47. Comparison with Nautical Charts: No charts of comparable scale exist but the following one does cover the area:

"ARCTIC COAST, Alaska, No 9400, 1:1,587,870, May 1946, 6th edition, last correction date of 27 November 1950."

48. Geographic Name List: See separate page.49. Notes for the Hydrographer: See separate unnumbered page.50. Compilation Office Review: See separate page, following.

Submitted by

Orvis M. Dalbey
Orvis M. Dalbey,
Cartographer-Photogrammetric

Approved by

Louis J. Reed
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

49. Notes for The Hydrographer:

T-9475

a. Topo Stations:

CHAR, 1948 - identified on photo 20894 - see 524 card

b. Hydro Stations:

No 765 - identified and described on photo 20894;
"SW tip of bluff on NE side of the N'ly of
two large gullies about 120 meters apart. SW
tip of tundra on top of bluff was pricked."

No 766 - identified and described on photo 20892;
"Center of bare spot on face of bluff on N
side of gully."

T-9476

a. Topo Stations:

EARL, 1948 - identified on photo 20892 - see 524 card

FAME, 1948 - identified on photo 20891 - see 524 card

CHOP, 1948 - identified on photo 20564 - see 524 card

BAIT, 1948 - identified on photo 20564 - see 524 card

c. Hydro Stations:

No 767 - identified and described on photo 20892;
"NW tip of sharp-pointed bluff on S side of
large gully that runs at a SE angle to the
shoreline. Base pricked."

No 768 - identified and described on photo 20892;
"Center of large bare patch on bluff about
130 meters S of large gully. A clump of
grass is in the center of the patch. Clump
of grass picked."

T-9477

a. Topo Stations:

BASS, 1948 - identified on photo 20857 - see 524 card

SAND, 1948 - identified on photo 20858 - see 524 card

b. Hydro Stations: None.

T-9478

a. Topo Stations:

BLOW, 1948 - identified on Photo 20694 - see 524 card
PLUM, 1948 on 20860, PRIM, 1948 on 2-693, VEST, 1948 (20694)

b. Hydro Stations: None.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9475, 76, 77, 78

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 along-shore cultural features ☒ *✓ = checked
? = non-existent*

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable 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 ☒ 40. ☒

41. Remarks (see attached sheet)

Supervisor, Review Section or Unit

Louis J. Reed, Chief
Stereoscopic Mapping Section
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.

Complier

Supervisor

43. Remarks:

M-2623-12

Review Report T-9475 through T-9478
Topographic Maps
November 10, 1953

62. Comparison with Registered Topographic Surveys.- None

63. Comparison with Maps of Other Agencies.-

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

Comparison not feasible because of scale difference.

64. Comparison with Contemporary Hydrographic Surveys.- None

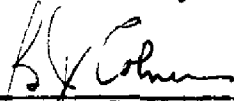
65. Comparison with Nautical Charts.-

9400	1:1,587,870	June 1952
9402	1:750,000	May 1950

Scale difference precludes satisfactory comparison.

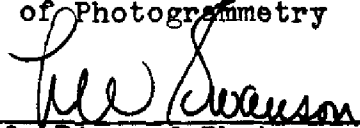
66. Adequacy of Results and Future Surveys.- These maps comply with project instructions and are adequate as bases for hydrographic surveys and the construction of nautical charts.

Reviewed by:


B. J. Colner

APPROVED


Chief, Review Branch
Div. of Photogrammetry


Chief, Div. of Photogrammetry

8 January 1958 


Chief, Nautical Chart Branch
Division of Charts


Chief, Div. of Coastal Surveys