9448 9449
9450 9451
9452

9448 9449 9450 9451 9452

Diag. Cht. No. 9400.

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-9448 thru T-9452

LOCALITY

State Alaska

General locality Kotzebue Sound

Locality Cape Krusenstern

19 50

CHIEF OF PARTY

L.G.Taylor, Chief of Field Party

H.A.Paton, Chief Balto. Photo.Office

~~L.J.Reed, Div. of Phpto.,Wash.,D.C.~~

LIBRARY & ARCHIVES

DATE May 15, 1958

8-1870-1 (1)

DATA RECORD

T-9448 thru T-9452
T-9448 = TOOLILIK LAKE ~~TALIKOOT VIL~~
T-9449 = TALIKOOT VILLAGE
T-9450 = ~~SIMIK MOUNTAIN~~ KAKSUROK MT
T-9451 = MUMAYLUK CREEK
T-9452 = NOATAK RIVER

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

Field Office (II): Kotzebue Sound, Alaska Chief of Party: Lorne G.Taylor

Photogrammetric Office (III): Baltimore, Md. Washington, D.C. Officer-in-Charge: Hubert A.Paton Louis J.Reed, Chief, Stereoscopic Mapping Sec

Copy filed in Division of Photogrammetry (IV)

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

Method of Compilation (III): Reading Plotters, both models, 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): SEP 10 1951 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 21 June 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 ~~unadjusted~~

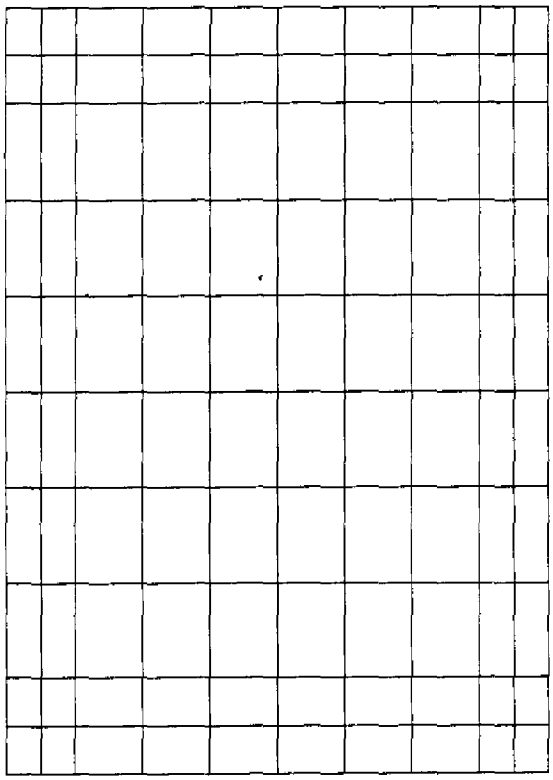
Plane Coordinates (IV): State: Zone:

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)
(III)

T-9448 and T-9449 delineated by Clarence E.Misfeldt
T-9451 and T-9452 delineated by Louis Levin
T-9450 partially delineated by each of the above men.

DATA RECORD

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

Planetable contouring by (II): none Date:

Completion Surveys by (II): none Date:

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

MHWL was delineated on the plotting instruments guided by 1950 field location of the shoreline on photographs; therefore the MHWL is dated 1950.

Projection and Grids ruled by (IV): Theodore L.Janson on the Reading Ruling Machine Date: 29 Nov 50

Projection and Grids checked by (IV): Harland R.Cravat Date: 5 Dec 50

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

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

Radial Plot or ~~Stereoscopic~~ Control Extension by (III): Frank J. Tarcsa Date: 19 Feb 51

Stereoscopic Instrument ~~compilation~~ delineation by (III): Planimetry and Contours: Louis Levin and Clarence E.Misfeldt Date: 14 Aug 51

Manuscript ~~drawn~~ compiled by (III): John B.McDonald (9450,1,2) and Frank J.Lesslie (9448,9) Date: 30 Aug 51

Photogrammetric Office Review by (III): Louis J.Reed Date: 10 Sep 51

Elevations on Manuscript checked by (~~II~~) (III): Louis J.Reed Date: 10 Sep 51

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
27566		1110-		
thru				
27579		1123		
27594		1143-		
thru	22	1152		appreciable
27603	July		1:20,000	no tide
27609	1950	1206		
27610		1207		
27756		1513		
27757		1514		

NOTE: Mr Disney of Tides & Currents states (7 May 51) that for all practical purposes no tide exists in this area.

Tide (III)

Ratio of Ranges	Mean Range	diurnal Range
		~~0.6'~~

Reference Station: ~~Icy Cape~~

Subordinate Station:

Subordinate Station:

Washington Office Review by (IV): T-9448 F. Johnson, R. Hildebrand T-9449, T-9450 F. Lach T-9451 — Date: 4-11-56, 4-9-56, 4-4-56

Final Drafting by (IV): J. N. Frazier T-9452 — Date: 4-9-56, 4-2-56

Drafting verified for reproduction by (IV): W.O. Hallein — Date: 7-16-56

Proof Edit by (IV): — 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): ~~xxxxx~~ See remarks below

Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II): Recovered: Identified: Six

Number of BMs searched for (II): none Recovered: Identified:

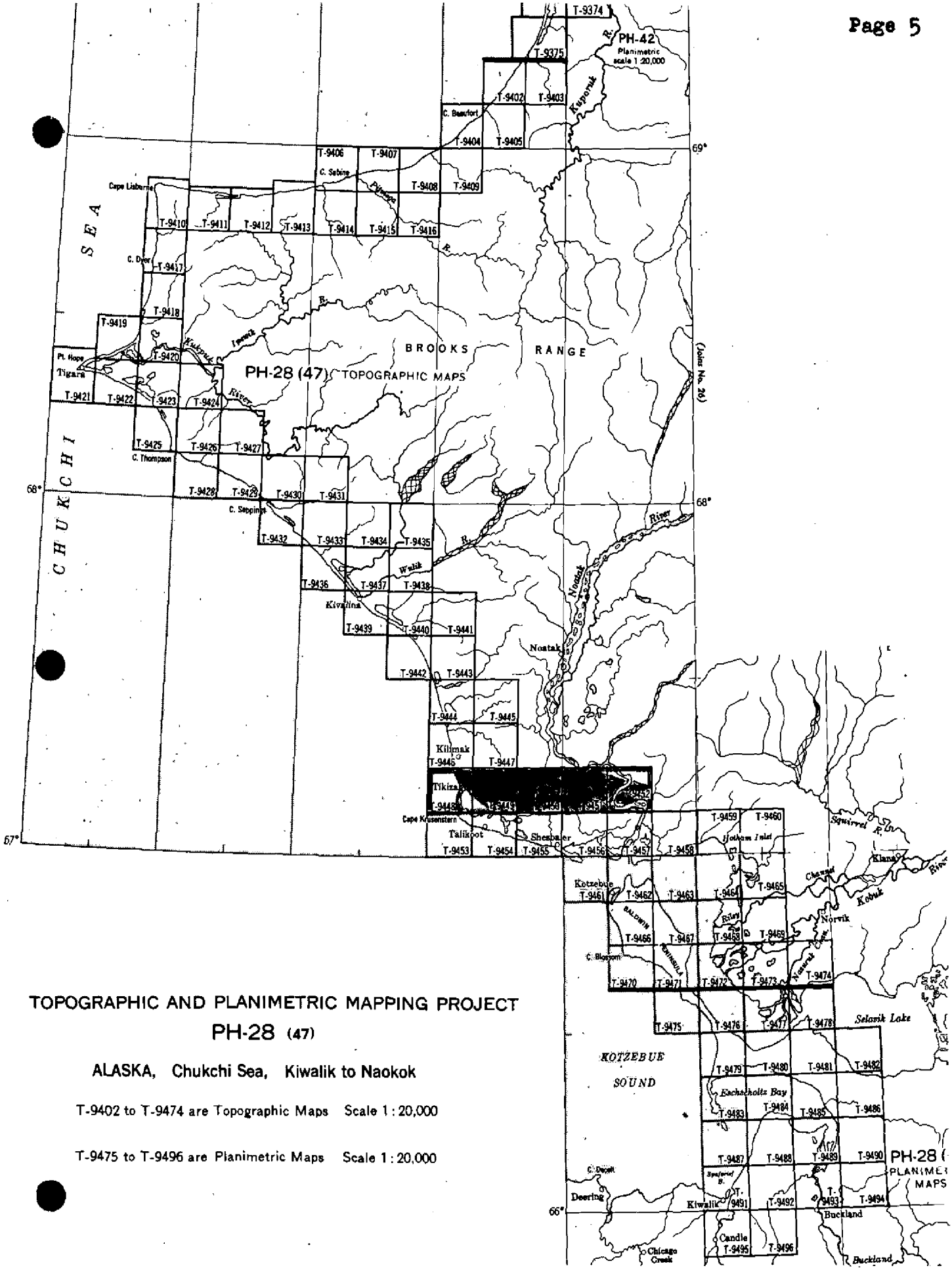
Number of Recoverable Photo Stations established (III): One

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

Remarks:

	AREA	MHWL	RIVER LINE
T-9448 =	11 sq mi	9 miles	none
T-9449 =	66 sq mi	17 miles	none
T-9450 =	78 sq mi	none	none
T-9451 =	75 sq mi	none	none
T-9452 =	60 sq mi	none	55 miles

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-9448 through T-9452

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.

~~Seventy-three of the quadrangles (T-9402 to T-9474) of The project~~ are 94 topographic ~~surveys and twenty-two~~ quadrangles (T-9402 to T-9434) ~~are planimetric.~~ and T-9436 through T-9496) in this project.

T-9448 through T-9452 are topographic surveys extending from the Evelookpalik River on the west to the Noatak River on the east. The quadrangles fall in about the middle of the project and contains the Millowcrawlook River, the village of Talikoot, the Sittookooyook River, the Mumayluk River, the Suninuk Creek and the Igichuk Hills.

The 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 report entitled:

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION

CAPE KRUSENSTERN TO POINT HOPE, ALASKA

Project Ph-28(47) June to Sept 1950

Lorne G.Taylor, Chief of Party

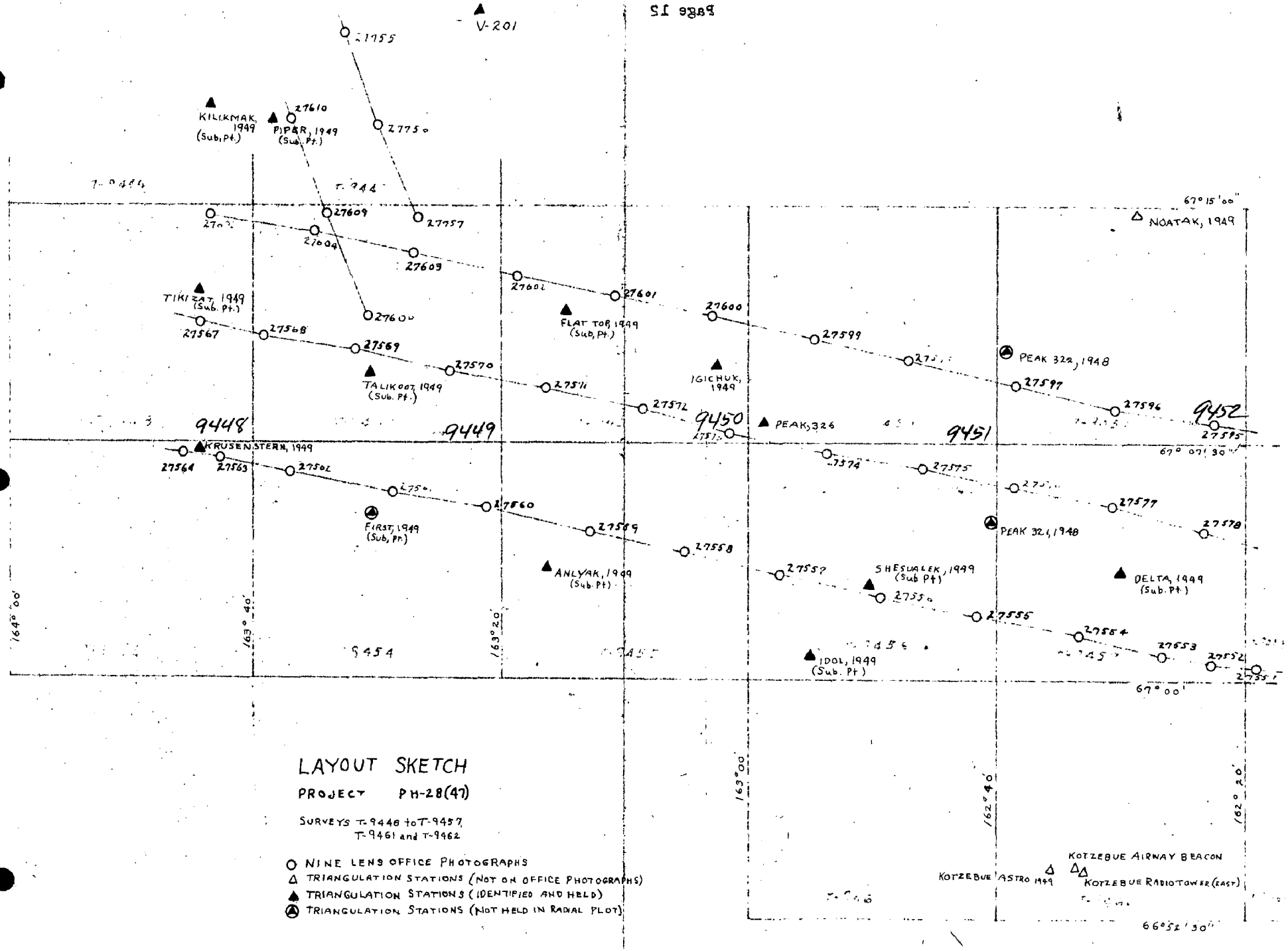
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

RADIAL PLOT REPORT

20-30:

See descriptive report for quadrangles T-9453 thru T-9457 (a single report covering all five quads), or see a similar combined report covering quads T-9461 and T-9462. A single radial plot was laid covering the area of all seven of the above manuscripts plus the area of the five sheets of this report. A single report for the plot was written by the Baltimore Photogrammetric Office and it may be found in either of the aforementioned reports beginning on page eight.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer



LAYOUT SKETCH

PROJECT PH-28(47)

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

- ○ NINE LENS OFFICE PHOTOGRAPHS
- △ TRIANGULATION STATIONS (NOT ON OFFICE PHOTOGRAPHS)
- ▲ TRIANGULATION STATIONS (IDENTIFIED AND HELD)
- ⓐ TRIANGULATION STATIONS (NOT HELD IN RADIAL PLOT)

COMPILATION REPORT

31. Delineation:

Contours and cultural features were delineated simultaneously on the Reading Plotter, models A and B. Model A worked eastward from the western end of the strip of quads, while model B was working westward from the opposite end.(See diagram, page 5 or 9) The entire land area of only three of the five quads of this report has been delineated in this operation; they are the western three, T-9448, T-9449, and T-9450. T-9451 lacks a small area of two or three sq mi in the NE corner of being complete, and T-9452 lacks a strip along the north border of the quad amounting to about one quarter of the entire area of the map.

There is an exception to the above statements regarding complete coverage; several small clouds less than half the size of a dollar bill existed in the photos on two of the quads,resulting in corresponding areas of poor delineation quality. The solution to this exception may be found in side-heading 34 below.

32. Control:

Adequacy of control is discussed in detail in side-heading 23 of this report's radial plot report. The conclusion is drawn that the spacing of control was such that the area of T-9452 and some of T-9451 is not as strong as the balance of the plot area, but is considered to be within the desired accuracy.

The spacing of vertical control on this plot area was found to be as near the requirement as on any other project worked in this section. The chief failing was in no-check elevations leaving gaps in the network here and there, especially along the north side of the project which is farthest inland.

33. Supplemental Data:

a. Graphic Control Surveys: None

b. Hydrographic Surveys: None

c. Plotting Instrument Photos(metal-mounts):

27566 thru 27579, 27594 thru 27603, 27609, 27610, 27756, and 27757.

d. Field Inspection Photos:

20575 thru 20579, 20751 thru 20756, 20761 thru 20766, 20820 thru 20822, 20827 thru 20829, and 20914 thru 20915.

33. Supplemental Data(contd):

e. Vertical Control Book:

"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 for contouring purposes except for small cloud interference as mentioned under "Delineation" on page 10. The areas obscured by these small individual clouds were all delineated on the instruments except for two, one on each quad, T-9450 and T-9451, these two cloud areas being left blank on the manuscripts. The cloud areas that were delineated anyhow are shown in the dashed symbol for doubtful accuracy. Otherwise, no areas of questionable contours exist.

35. Shoreline and Alongshore Details:

Shoreline exists on only two of the five quads of this report, T-9448 and T-9449. It is very smooth and regular shoreline and easy to photo-identify; the job was well done. No low-water-line was identified because of the lack of tide in this vicinity.

36. Offshore Details: None exist.

37. Landmarks and Aids: See form 567 in Field Inspection Report.

38. Control for Future Surveys:

One Topo Station, NECK 1950, and one Hydro Station, No.150, were located on T-9448 by the radial plot and are shown on the manuscript in proper label and name. No stations of either type were selected in the field in the area of the other four quads of this report. Details of the two stations mentioned above will be found on a separate page of this report entitled "Notes to the Hydrographer", side-heading 50.

39. Junctions:

All junctions are in agreement. The five quads immediatly to the south of the five quads of this report, T-9453 thru T-9457, from west to east, were previously completed and their north edges transferred to the south edges of T-9448 thru T-9452 respectively; therefore those five junctions have to beein agreement. No quad exists to the east of T-9452 - no problem. To the west of T-9448 one finds only the Chukchi Sea - no problem there either. On the north only two quads exist, T-9446 above T-9448, and T-9447 above T-9449; These two edges have been transferred to the two north quads which will be completed soon.

40. Horizontal and Vertical Accuracy:

a. Horizontal: All contours meet the standards for a 50 ft contour interval. One contour is considered to be more accurate; the 25 ft contour meets the standards for a 25ft contour interval.
b. Vertical: All instrument elevations are shown in brown, underscored. All trig elevations are also shown in brown; they are underscored if not checked by one or more observations.

41. Intersection Station Elimination:

The field position for PEAK 321, 1948 (on T-9452) was found to be in error during the radial plot - see detailed account of the findings in side-heading 23 on page 9 of the Radial Plot Report.

Therefore this station has been omitted from the manuscript and the radial plot position of the peak is shown with the original name, Peak 321.

46. Comparison with Existing Maps:

a. Advance proof of NOATAK, Alaska, USGS, Reconnaisance Topographic Series, Second Judicial Division, 1:250,000, 1951 edition.
~~b. Advance proof of BAIRD MOUNTAINS, same as Noatak above.~~
~~c. Compilation copy of TIGARA, 1:200,000, USGS.~~ Point Hope

not in the area of the project.

47. Comparison with Nautical Charts:

a. ARCTIC COAST, Alaska, No 9400, 1:1,587,870, May 1946, 6th edition, last correction date of 27 Nov 50.
b. Provisional Chart, CAPE PRINCE OF WALES TO POINT BARROW, CHUKCHI 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.

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

Submitted By:

Orvis N. Dalbey

Orvis N.Dalbey
Cartographer-Photogrammetric

Approved and Forwarded by:

Louis J. Reed

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

T-9448 thru T-9452

Name on Survey	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
T-9448										1
CAPE KRUSENSTERN		name approved 5-6-53 adj								2
CHUKCHI SEA										3
EVELOOKPALIK RIVER										
TOOLIK LAKE										4
T-9449										5
EIGALORUK MT										6
EVELOOKPALIK RIVER										
INGITCAHLIK MT										7
KASIK LAGOON										
KIMIROOK HILL										8
KISLOWRUT HILLS										
MILLOWCRAWLOOK MT										9
MILLOWCRAWLOOK RIVER										
SIMIK MT										10
TALIKOOT (Village) (Abandoned)				Names approved				6-23-53		
TIYAKTALIK MT also on T-9450										11
T-9450										12
AHKARGICHEK MT										13
IGICHUCK HILLS										
KAKSUROK MT										14
SITTOOKOOYOOK RIVER				Names approved				6-23-53		15
T-9451										16
IGICHUCK HILLS										17
IGISOOGROOK MT										
MUMAYLUK CREEK										18
MUMAYLUK MT										
NOATAK RIVER										19
OVINGORIUK MT										
Kaksurok Mt.				Names approved				6-23-53		20
T-9452										21
AKOBLOC CREEK										22
AMORTUK CANYON										
ELAYPUK MT		Igachorok River								23
IGACHOROK MT										
MUMAYLUK MT										24
MUMAYLUK RIVER Creek										
NOATAK RIVER										25
OVINGORIUK MT										
SUKISALNUK POINT ?		name o.k. limits of manuscript		Names approved				6-23-53 L. Heck		26
SUNINUK CREEK										27

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

49
50. Notes for the Hydrographer: (stations on T-9448 only)

a. Topo Stations:

NECK 1950; Identified on photo No.20,827, and described on Control Identification Card. Also, see K-20 field photo of the station.

b. Hydro Stations:

No.150; Identified on photo No.20,580.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Review Report T-9448 through T-9452
Topographic Maps
June 24, 1953

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 1950
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. Colner

APPROVED

L C Lundy
Chief, Review Section
Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

Act Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9448 thru 9452

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 N
9. Plotting of sextant fixes N 10. Photogrammetric plot report ✓ 11. Detail points N

✓ = checked
N = non-existant

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line N 14. Rocks, shoals, etc. N 15. Bridges N 16. Aids to navigation N 17. Landmarks N 18. Other alongshore physical features ✓ 19. Other alongshore cultural features N

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours N 23. Stereoscopic instrument contours ✓ 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features ✓

CULTURAL FEATURES

27. Roads ✓ 28. Buildings ✓ 29. Railroads N 30. Other cultural features N

BOUNDARIES

31. Boundary lines N 32. Public land lines N

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay N 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓
40. [signature] Reviewer [signature] Supervisor, Review Section or Unit

Louis J. 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 under item 43.

Compiler _____ Supervisor _____

43. Remarks:

M-2623-12