

8057
8058

ORIGINAL

Diag. Cht. No. 9103.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-41(49) Office No. T-8057 & 58

LOCALITY

State Alaska

General locality Kuskokwim Bay

Locality Goodnews Bay

194 9

CHIEF OF PARTY

A. Newton Stewart, Chief Field Party
Div of Photogrammetry, Wash., D.C.

LIBRARY & ARCHIVES

MAY 15 1958

DATE

8057 8058

DATA RECORD

T-8057 & 58

Project No. (II): Ph-41(49) Quadrangle Name (IV):

Field Office (II): **Platinum, Alaska**Chief of Party: **A. Newton Stewart**Photogrammetric Office (III): **Washington, D.C.**

Badil Plot = **Lester C. Lande**
 Officer in Charge
 Compilation = **Louis J. Reed**

Instructions dated (II) (III): **3 Mar 49**

Copy filed in Division of
 Photogrammetry (IV)

Method of Compilation (III): **Reading 9-lens Plotters**Manuscript Scale (III): **1:20,000**Stereoscopic Plotting Instrument Scale (III): **1:20,000**

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **4/25/58**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **NA 1927**

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:

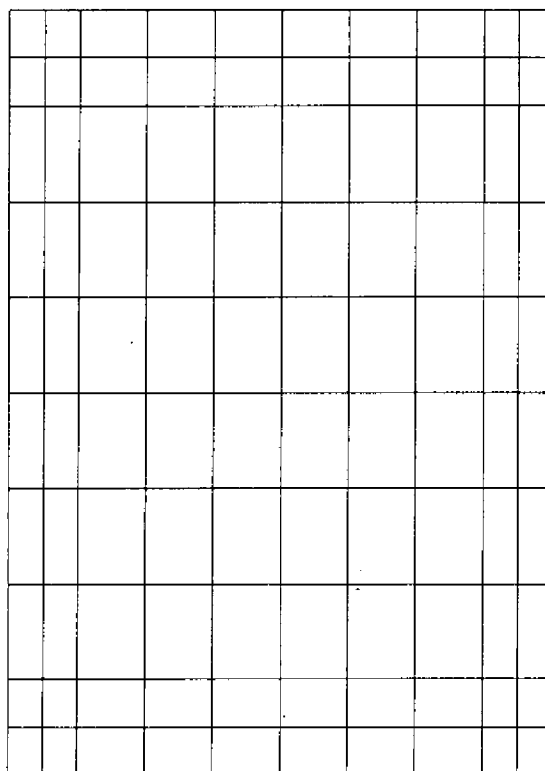
Y=

X=

Universal Transverse Mercator Grid with 2500 meter intervals.

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)

(X) (III)

Instrument compilation by Clarence
E. Misfeldt of the Reading 9-lens
Plotter, model "A".

DATA RECORD

Field inspection by (II): **A. Newton Stewart**Date: **1949 Season**Planetable contouring by (II): **None**

Date:

Completion Surveys by (II): **None**

Date:

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

**MHWL is dated 1949 since it was delineated on the 9-lens
plotter using 1949 field inspection as a guide.**

Projection and Grids ruled by (IV): **Austin Riley on the Reading Ruling Machine** Date: **16 Sep 53**Projection and Grids checked by (IV): **Howard D. Wolfe** Date: **18 Sep 53**Control plotted by (III): **Lester C. Lande** Date: **20 Sep 53**Control checked by (III): **Neil S. Schultz** Date: **22 Sep 53**

Radial Plot ~~not checked~~ **Samule D. Blankenbaker** Date: **28 Oct 53**
Control extension by (III):

delineation Planimetry Date:
Stereoscopic Instrument ~~checked~~ by: **Clarence E. Misfeldt** **26 May 54**
Contours Date:

Manuscript delineated by (III): **John B. McDonald** Date: **26 Oct 54**Photogrammetric Office Review by (III): **Louis J. Reed** Date: **3 Nov 54**Elevations on Manuscript **Louis J. Reed** Date: **3 Nov 54**
checked by (II) (III):

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

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
28395-02	8 Aug 50	14:40	20,000	8' below MHHW
28410-14	"	14:50	"	"
28417-21	"	14:55	"	"
28434-30	"	15:05	"	"

Tide (III)

Reference Station:

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): *Leuat. Stevens*

Date: 16 May 1955

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): T-8057 = 96 Sq. mi. ; T-8058 = 47 sq. mi.
 Shoreline (More than 200 meters to opposite shore) (III): T-8057 = 6 mi. ; T-8058 = 3 mi.
 Shoreline (Less than 200 meters to opposite shore) (III): T-8057 = 0 " ; T-8058 = 0 "
 Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

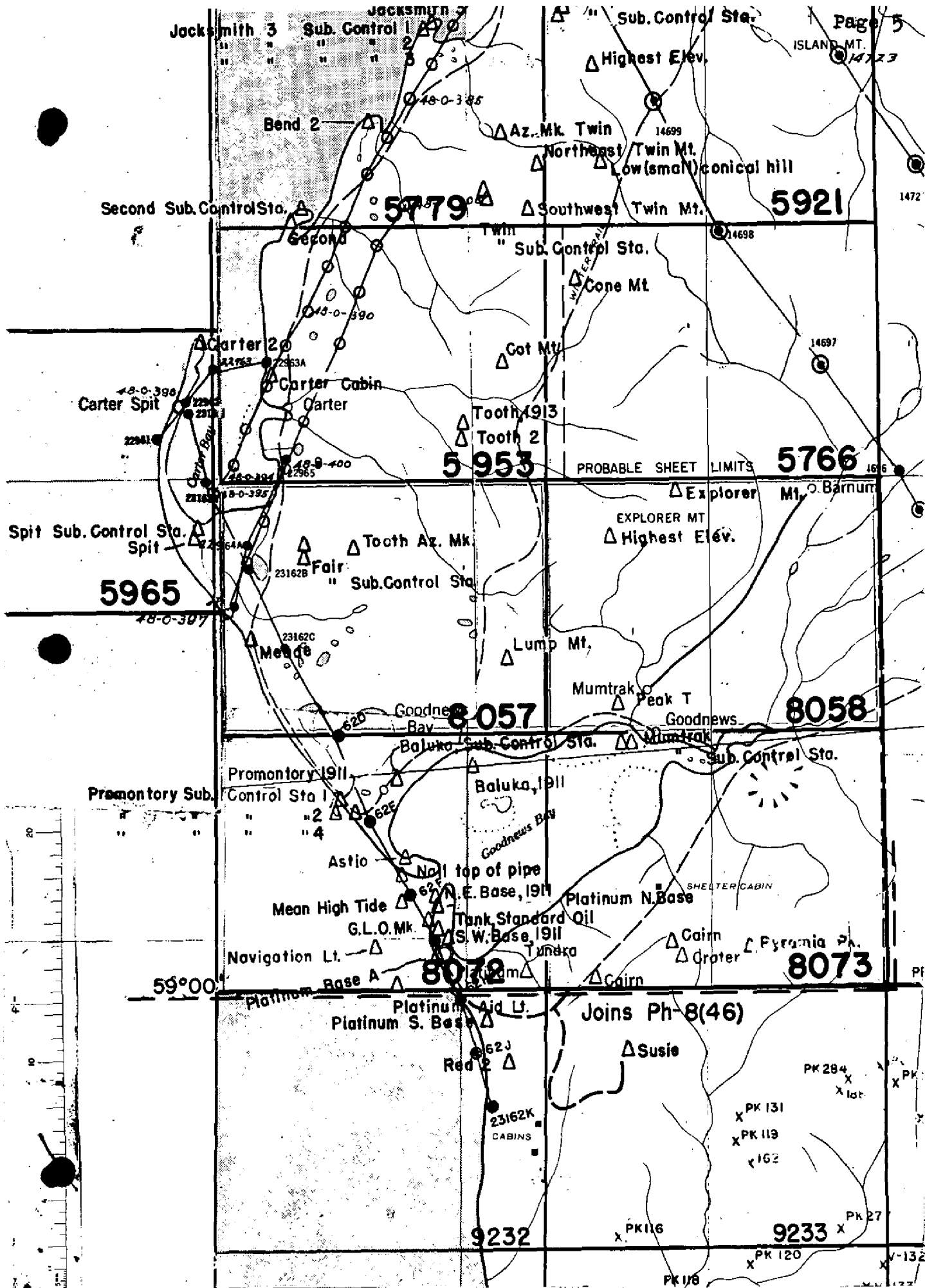
Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:



Summary to Accompany T-8057 and T-8058

Project Ph-41(49), Kuskokwim Bay and River, has two sections: Ph-41(S) consists of twelve topographic maps extending from Platinum (59° 00') to Kwinhagak (59° 45'); and Ph-41(N), twenty-two planimetric maps, extending from Kwinhagak to the vicinity of Bethel (60° 52-1/2').

The field work was carried out as a combined operation between Photogrammetry and Geodesy (project G-949) during the season of 1949 and was a continuation of the Bristol Bay project, 1949.

T-8057 and T-8058 include the area north of Goodnews Bay from the east shore of Kuskokwim Bay, eastward to include the lower portion of Tunulik and Goodnews Rivers.

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1. Preface:

2-20: See separate report entitled:

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION

KUSKOKWIM BAY, ALASKA

Project Ph-41(49) May to July, 1949

A. Newton Stewart, Chief of Party

*See Completion Report filed in
the ~~Division of~~ Library*

RADIAL PLOT REPORT

21-30: See Descriptive Report for T-8072 & 73

The area of the two quads of this report was included with the area of several others in a single radial plot. The report for the plot was included in the Descriptive Report for T-8072 & 73, a combined report also.

COMPILATION REPORT

31. Delineation:

Instrument delineation was accomplished on the Reading 9-lens plotter, model "A" with control furnished by the radial plot. All of the land area of T-8057 was mapped but only the SW quarter, approximately, of T-8058 was completed during this operation since the balance lacked control and photograph coverage.

32. Control:

Side-heading 23 of the Radial Plot Report indicates that, in general, both horizontal and vertical control were adequate for this compilation. The NW quarter of T-8058 was laid as part of the plot but was discovered during instrument delineation to be too weak for contouring use.

33. Supplemental Data:

"TABULATION OF ELEVATIONS AND COMPUTATIONS OF ELEVATIONS BY MAP MANUSCRIPTS FOR VERTICAL CONTROL STATIONS IN THE AREA OF MAP MANUSCRIPTS T-8072, T-8073, T-9232, T-9233, T-8057, T-8058, T-5953, T-5766, T-5779, and T-5921."

Filed in the Division of Geodesy

34. Contours and Drainage:

The quality of the photography was suitable for contouring purposes and no areas of questionable contours remain.

35. Shoreline and Alongshore Details:

Very little shoreline inspection was necessary in this area since the shoreline is very smooth and regular. Shallow areas were office delineated.

36. Offshore Details: Not applicable.37. Landmarks and Aids: *LUMP MTN ON T-8057* ~~Not applicable - none exist here.~~38. Control for Future Surveys:

Only one recoverable point, a topo station, was field identified and positioned by the plot, station TRAP, 1949, on T-8057. See form 524 and photo 231620.

39. Junctions:

All junctions, as outlined on page 5, are in agreement since all junctioning quads were mapped as part of the same project, except to the east of T-8058 where no contemporary survey exists.

40. Horizontal and Vertical Accuracy:

Horizontal accuracy, established by the radial plot, meets standards set for maps at a scale of 1:20,000. The contours delineated at a 50ft interval are accurate to within 25 feet, and the 25ft supplemental contours, used to better express the flatter areas, are considered to be even more accurate although not required to be so.

46. Comparison with Existing Maps:

No large scale maps have ever been compiled of this area, previous to this project.

47. Comparison with Nautical Charts:

No. 9103, KUSKOKWIM BAY, 1:200,000, is the largest scale chart of the area.

48. Geographic Name Lists: see page 11.

49. Notes for the Hydrographer: see side-heading 38.

50. Compilation Office Review: See T-2 form, page 12.

submitted by:

Orvis N. Dalbey
Orvis N. Dalbey, Chief,
9-lens Compilation Section

forwarded by:

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

GEOGRAPHIC NAMES

Survey No.

T-8057 and T-8058

Name on Survey

Page 11

	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	
A	B	C	D	E	F	G	H	K	
<u>T-8057</u>									1
Big Lake <u>Nanvakfak lake</u>									2
<u>CARTER BAY</u>									3
<u>KIGLAPAK MTS</u>									4
<u>KUSKOKWIM BAY</u>									5
<u>LUMP MOUNTAIN</u>									6
<u>SOUTH FORK</u>									7
<u>Peak T</u>									8
(on chart 9103)									9
									10
<u>T-8058</u>									11
<u>GOODNEWS BAY</u>									12
<u>GOODNEWS RIVER</u>									13
<u>KIGLAPAK MTS</u>									14
<u>MIDDLE FORK</u>									15
<u>MUMTRAK HILL</u>									16
<u>TUNULIK RIVER</u>									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

(Shift name to South)

(This is an unnamed stream. South Fork of Indian R. is north of 59° 15')

(of Goodnews R.)

Names approved 5-17-58

L. Heck

PHOTOGRAMMETRIC OFFICE REVIEW

T-8057 & T-8058

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 u 8. Bench marks ✓
9. Plotting of sextant fixes u 10. Photogrammetric plot report ✓ 11. Detail points u

ALONGSHORE AREAS

(Nautical Chart Data)

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

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 u 29. Railroads u 30. Other cultural features u

BOUNDARIES

31. Boundary lines u 32. Public land lines u

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay u 37. Descriptive Report u 38. Field inspection photographs ✓ 39. Forms u
40. u

41. Remarks (see attached sheet)

Supervisor, Review Section or Unit

Louis J. Reed, Chief
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.

Compiler

Supervisor

43. Remarks:

Review Report
Topographic Maps T-8057 and T-8058
16 May 1955

62. Comparison with Registered Surveys:

T-3416 1:40,000 1913 - Carter Bay and Vicinity

This is a shoreline map. It is superseded by T-8057 for charting purposes.

63. Comparison with Maps of Other Agencies:

USGS Goodnews, Alaska, 1:250,000, 1951 (Reconn.)

The two maps are in general agreement.

64. Comparison with Contemporary Hydrographic Surveys:

Not applicable.

65. Comparison with Nautical Charts:

9103 1:200,000 1916, corr. October 1950

The chart does not delineate the map areas, except for the location of peaks.

66. Accuracy:

These maps comply with project instructions and meet the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED BY:

L. C. Hardy
Chief, Review Section
Photogrammetry Division

W. B. Kettles
Chief, Nautical Chart Branch
Charts Division

[Signature]
Chief, Photogrammetry Division

[Signature]
Chief, Coastal Surveys Division

B98

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 8057

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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