

# 5953

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)S Office No. T-5953

### LOCALITY

State Alaska

General locality Kuskokwim Bay

Locality Carter Bay

1949-50

### CHIEF OF PARTY

A.N. Stewart, Chief of Field Party

L.W. Swanson, Div. of Photo. Wash., D.C.

### LIBRARY & ARCHIVES

DATE MAY 15 1958

# 5953

DATA RECORD

T- 5953

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

Field Office (II): Portland, Oregon

Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Washington, D. C.      Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): 3 March 1949

Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): Reading 9-lens Plotter Model "B"

Manuscript Scale (III): 1:20,000

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

Scale Factor (III): 1.0

Date received in Washington Office (IV):

MAR 22 1955

Date reported to Nautical Chart Branch (IV):

MAR 31 1955

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=

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.



# DATA RECORD

Field Inspection by (II): A. N. Stewart

Date: July 1949

Planetable contouring by (II): none

Date:

Completion Surveys by (II):

Date:

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

Delineated from Nine Lens photographs taken 8 August 1950

Projection and Grids ruled by (IV): A. Riley

Date: 17 Sept. 1953

Projection and Grids checked by (IV): H. D. Wolfe

Date: 18 Sept. 1953

Control plotted by (III): L. C. Lande

Date: 20 Sept. 1953

Control checked by (III): Neil S. Schultz

Date: 22 Sept. 1953

Radial Plot or Stereoscopic

Date: 28 Oct. 1953

~~Control extension by~~ (III): S. D. Blankenbaker

Planimetry L. Levin

Date: June 1954

Stereoscopic Instrument compilation (III):

Contours L. Levin

Date: June 1954

Manuscript delineated by (III): J. B. McDonald

Date: Nov. 1954

Photogrammetric Office Review by (III): Orvis N. Dalbey

Date: 2 March 1955

Elevations on Manuscript Orvis N. Dalbey  
checked by (II) (III):

Date: 2 March 1955

Camera (kind or source) (III): U.S.C. & G.S. Nine lens camera model "B"  
f = 8.25 inches

| Number    | Date        | Time  | Scale    | Stage of Tide                 |
|-----------|-------------|-------|----------|-------------------------------|
| 28453-457 | 8 Aug. 1950 | 15:45 | 1:20,000 | 6.7 <del>7.7</del> below MHHW |
| 28389-394 | 8 Aug. 1950 | 14:30 | 1:20,000 | 7.5 <del>9.0</del> " "        |

Tide (III)

Reference Station:

Subordinate Station: *Carter Spit*

Subordinate Station:

Washington Office Review by (IV): *Lena J. Stevens*

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 90

Shoreline (More than 200 meters to opposite shore) (III): 17

Shoreline (Less than 200 meters to opposite shore) (III): 0

Control Leveling - Miles (II): 0

Number of Triangulation Stations searched for (II):

Recovered: 5

Identified: 5

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): 3

Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

| Diurnal         |            |              |
|-----------------|------------|--------------|
| Ratio of Ranges | Mean Range | Spring Range |
|                 |            | 8.6          |
|                 |            | 10.7 = MHHW  |
|                 |            |              |

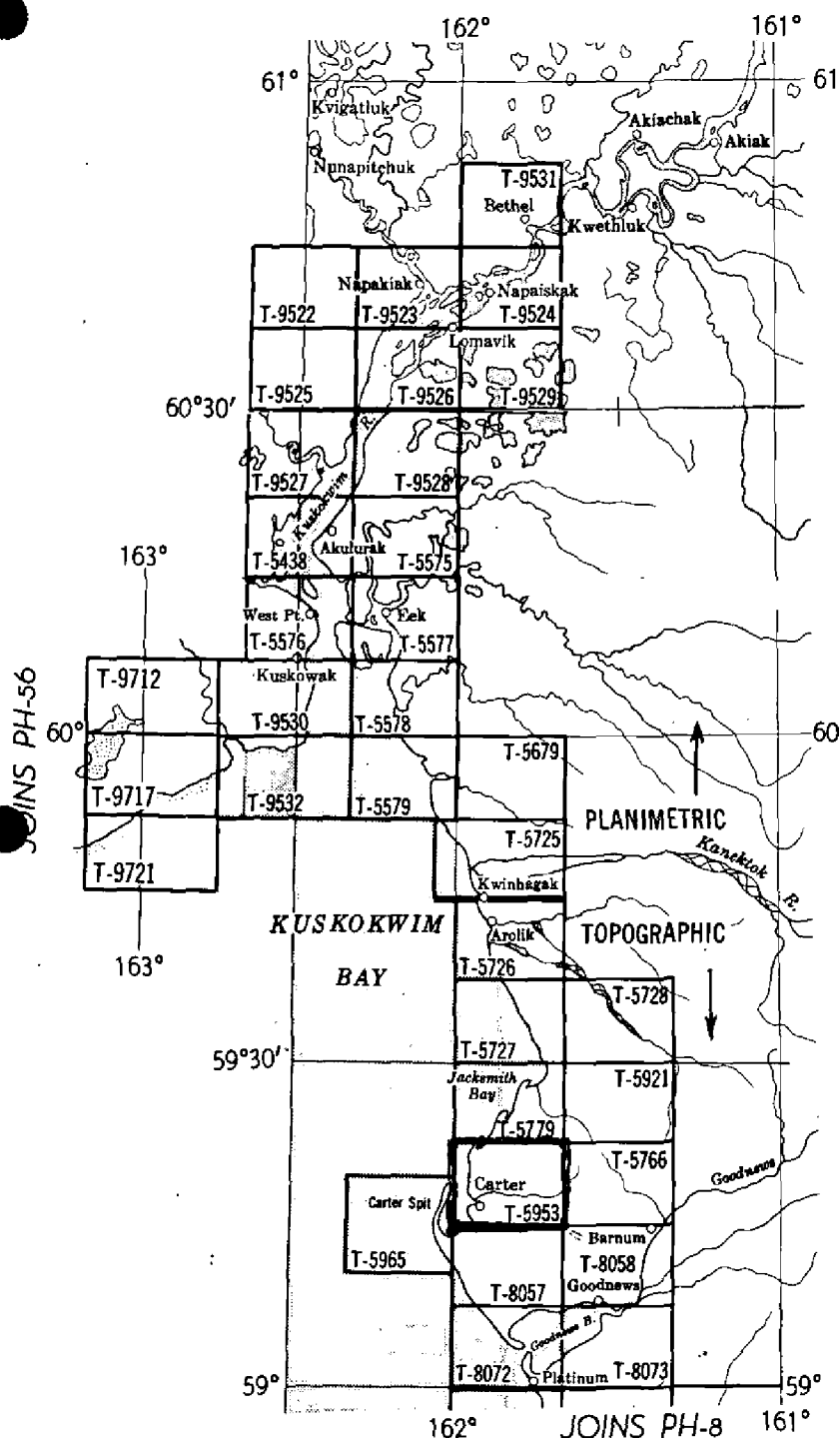
Date: *29 April 1953*

Date:

Date:

Date:

# PLANIMETRIC AND TOPOGRAPHIC MAPPING PROJECT PH-41 ALASKA-BERING SEA, Kuskokwim Bay to Goodnews Bay



## OFFICIAL MILEAGE FOR COST ACCOUNTS

| PLANIMETRIC   |               | TOPOGRAPHIC   |               |
|---------------|---------------|---------------|---------------|
| Sheet No's.   | Sq. St. Miles | Sheet No's.   | Sq. St. Miles |
| T-5438        | 55            | T-5726        | 80            |
| T-5575        | 54            | T-5727        | 40            |
| T-5576        | 65            | T-5728        | 104           |
| T-5577        | 80            | T-5779        | 45            |
| T-5578        | 45            | T-5921        | 104           |
| T-5579        | 35            | T-5953        | 90            |
| T-5679        | 108           | T-5965        | 15            |
| T-5725        | 104           | T-5766        | 104           |
| T-9522        | 18            | T-8057        | 104           |
| T-9523        | 65            | T-8058        | 104           |
| T-9524        | 76            | T-8072        | 20            |
| T-9525        | 65            | T-8073        | 90            |
| T-9526        | 65            |               |               |
| T-9527        | 54            | <b>TOTALS</b> | <b>900</b>    |
| T-9528        | 45            |               |               |
| T-9529        | 82            |               |               |
| T-9530        | 88            |               |               |
| T-9531        | 100           |               |               |
| T-9532        | 18            |               |               |
| T-9712        | 80            |               |               |
| T-9717        | 91            |               |               |
| T-9721        | 6             |               |               |
| <b>TOTALS</b> | <b>1399</b>   |               |               |

PLANIMETRIC MAPS: Maps T-5438, T-5575 to T-5579, T-5725, T-9522 to T-9532, T-9712, T-9717 and T-9721.

TOPOGRAPHIC MAPS: Maps T-5726 to T-5728, T-5766, T-5779, T-5953, T-5965, T-8057, T-8058, T-8072 and T-8073.

Compiled at 1:20,000 scale, from 1:20,000 scale nine-lens photographs taken August 1950  
and 1:27,000 scale single-lens photographs taken August 1948.  
(Refer to Air-photo Index B-52-53 and E-1-2).

For field work done on 1945 photography (See Air-Photo Index E  
For field work done on Tri-Met photography (See Tri-Met Index).

Summary to Accompany T-5953

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

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

T-5953 includes the area from Carter Bay eastward along Indian River and Cripple Creek to include Cone Mt., Co<sup>t</sup> Mt. and Tooth Mt.

FIELD INSPECTION REPORT

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

*Filed in project report in library*



RADIAL PLOT REPORT

21-30 One radial plot covered the entire area of this project. The report is included in the descriptive report for T-8072.

COMPILATION REPORT  
T-5953

31. Delineation:

The planimetry and topography were compiled on the Reading nine lens plotter model "B" using rectified metal mounted photographs. One small area on the Eastern edge of the map could not be compiled because of the lack of photo coverage.

The quality of the photographs was good and consequently no unusual difficulty was encountered in delineating the planimetry or contours.

It was necessary to delineate part of Carter Spit beyond the western neat limit.

32. Control:

Refer to paragraph 23 "Radial Plot Report". The vertical control is believed to be adequate for the control of the 50' contours. The elevation of vertical control pt., pk 41, could not be held by approximately 20 feet. Inasmuch as this point is located on the same small ridge as triangulation station TOOTH 2, 1948, it has been rejected and is not shown on the manuscript.

33. Supplemental Data: None

34. Contours:

No unusual difficulty was encountered in the delineation of contours.

35. Shoreline and alongshore details:

The shoreline inspection was adequate inasmuch as the HWL, in most places, was clearly visible on the office photos.

Inasmuch as the office photos were taken near the time of low water an approximate low water line was delineated wherever possible.

36. Offshore details: No unusual problems were encountered in delineating offshore features.

37. Landmarks and Aids:

Form 567 (Chart letter 381, 1950) has been submitted by the field party for - TOOTH MTN, COT MTN, CONE MTN and

*See item 26  
Desc. report T8072  
for details.*

CABIN (shelter cabin Carter Bay). The position of CABIN was scaled from the manuscript and has been added to the chart letter.

38. Control for future surveys:

Three form 524 cards are being submitted with this report. They are listed in paragraph 49.

39. Junctions: Junction was made with T-5779 on the north, T-5766 on the east, T-8057 on the south and T-5965 on the west.

40. Horizontal and vertical accuracy:

It is believed that no area of the map is below the horizontal or vertical accuracy requirements.

46. Comparison with Existing Maps: This map was compared with 1:250,000 scale U. S. Geological Survey map "Goodnews", 1951.

47. Comparison with Nautical Charts: Comparison was made with 1:204000 scale Nautical Chart No. 9103.

48. Geographic Names List: Listed on following page.


49. Notes to Hydrographer: See separate page entitled "Notes to the Hydrographer".

50. Compilation Office Review: See enclosed form T-2.

Respectfully submitted:

  
Louis Levin, Cartographer

Approved:

  
Orvis N. Dalbey  
Supervisory Cartographer

GEOGRAPHIC NAMES

CARTER (consists of 2 abandoned cabins per Coast Pilot p. 517)

CARTER BAY

CARTER SPIT

CONE MTN

COT MTN

CRIPPLE CREEK

INDIAN RIVER

NORTH FORK

SOUTH FORK

KUSKOKWIM BAY

NAUTILUS CREEK

TOOTH MTN

*Names approved*

*4-29-55*

*a.j.w.*



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MAP T.....5953.....PROJECT NO.....Ph-41.....SCALE OF MAP.....1:20,000.....SCALE FACTOR.....1.0.....
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[illegible]

|                       |              |                    |              |           |
|-----------------------|--------------|--------------------|--------------|-----------|
| 1 FT. = 3048006 METER | DATE 9/14/53 | CHECKED BY: N.S.S. | DATE 9/15/53 | M-2388-12 |
| Lande                 |              |                    |              |           |
| COMPUTED BY:          |              |                    |              |           |



## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE DELETED

STRIKE OUT ONE

Portland, Oregon

1 May 1950

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(detected from)~~ the charts indicated.

The positions given have been checked after listing by

A. H. Stewart

*Chief of Party.*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

M-2836-3



NOTES TO HYDROGRAPHER

The following topographic stations were  
established in the field:

| <u>Station</u> | <u>Identified on nine lens Field Photo:</u> |
|----------------|---|
| EDAM 1949      | No. 22963-A                                 |
| GRIT, 1949     | 22963-A                                     |
| NEST, 1949     | 22963-A (Also identified<br>on 48-0393)     |

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 5953

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 ✓

## 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. Orville H. Dalbey  
Reviewer

Supervisor, Review Section or Unit

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:



Summary to Accompany T-5953

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

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Review Report  
Topographic Map T-5953  
29 April 1955

61. General:

The shoreline in Carter Bay, south of Indian River, was redelineated during review to include a marsh fringe. It was originally labeled "grass-in-water."

62. Comparison with Registered Surveys:

T-3399 1:40,000 1913  
T-3416 1:40,000 1913

Survey T-5953 supersedes the older surveys for charting purposes.

63. Comparison with Maps of Other Agencies:

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

The two maps are in general agreement.

64. Comparison with Contemporary Hydrographic Surveys:

There is no contemporary hydrographic survey. The latest survey is H-3569, 1:60,000, 1913, Goodnews to Kwinhagak.

65. Comparison with Nautical Charts:

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

The present survey supersedes the charted shoreline, planimetry, and contours.

66. Accuracy:

This map complies with project instructions and meets the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens  
Lena T. Stevens

APPROVED:

L. C. Hand  
Chief, Review Section  
Photogrammetry Division

Max Skellett  
Chief, Nautical Chart Branch  
Charts Division

J. B. Bice  
Act Chief, Photogrammetry Division

J. B. Bice  
Chief, Coastal Surveys Division

## NAUTICAL CHARTS BRANCH

SURVEY NO. T. 5953

### 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.