

9531

Diag. Cht. No. 9104.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-41(49) Office No. T-9531

LOCALITY

Territory Alaska
State

General locality Kuskokwim River

Locality Bethel

1949

CHIEF OF PARTY

Curtis LeFevre, Chief of Party
Fred Natella, Portland Photogrammetric Office

LIBRARY & ARCHIVES

MAY 15 1958

DATE

COMM-DC 61300

9531

DATA RECORD

T-9531

Project No. (II): **6041** Quadrangle Name (IV):
Ph-41(49)North

Field Office (II): **Bethel, Alaska**

Chief of Party: **Curtis LeFevre**

Photogrammetric Office (III): **Portland, Oregon**

Officer-in-Charge: **Charles W. Clark**
Fred Natella

Instructions dated (II) (III): **5 April 1949 (Field)**
26 October 1950 (Office)

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): **Graphic**

Manuscript Scale (III): **1:20,000**

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): **None**

Date received in Washington Office (IV): **JAN 26 1956**

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

4/30/58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N.A. 1927**

Vertical Datum (III): **Mean Sea Level**

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): **Refer to paragraph 12 of Office Instructions**

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.

Areas contoured by various personnel
(Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. H. Bishop & E. T. Ogilby

Date: Season 1949

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): Located in 1949 on field inspection photographs taken in 1945, on tri-metrogon photographs and K-20 hand held camera photographs.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): H. Atkins

Date: August 1951

Control checked by (III): J. L. Harris

Date: August 1951

Radial Plot or Stereoscopic

Date: Sept. 18, 1951

Control extension by (III): J. L. Harris

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Date:

Manuscript delineated by (III): R. H. Barron

Date: Oct. 24, 1951

Photogrammetric Office Review by (III): J. L. Harris

Date: Sept. 17, 1951

Elevations on Manuscript
checked by (II) (III):

Date:

Camera (kind or source) (III): C. & G. S. - 9 lens - Focal length 8.25 inches

Number	Date	Time	Scale	Stage of Tide
28322 to 28324	8/8/50	12:35	1:20,000	2.5 ft. above M.L.L.W.

Tide (III)

Reference Station: Matarani, Peru
Subordinate Station: Bethel, Alaska
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
1.0	2.0	3.4

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

Date: 23 Jan. 1957

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 100

Shoreline (More than 200 meters to opposite shore) (III): 18.9 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 15.8 statute miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 10

Recovered: 8

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 2 *

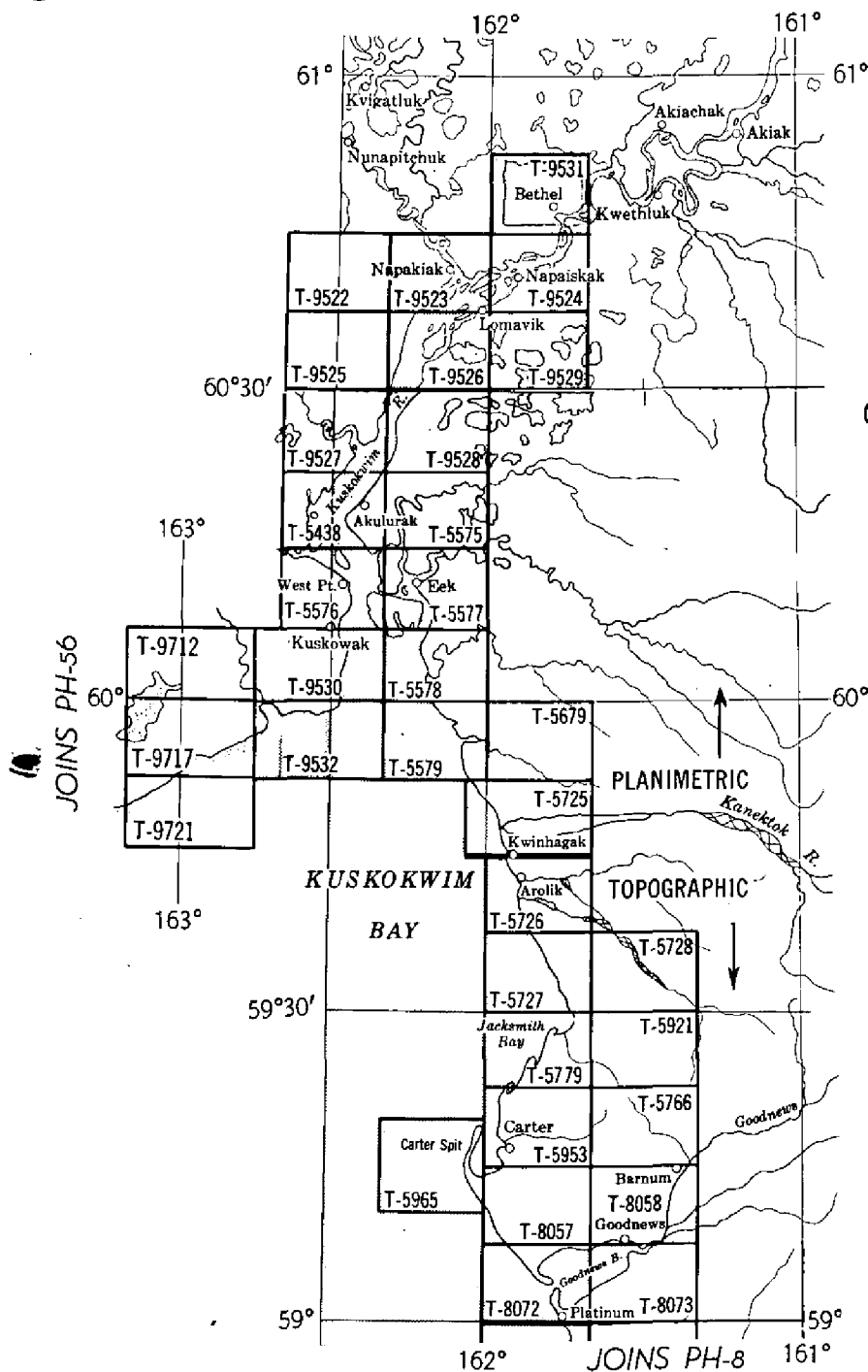
Number of Temporary Photo Hydro Stations established (III): 3

Remarks:

* The Forms 524 for these two stations were not returned to this office namely ROAD, 1949 and RACK, 1949. See Descriptive Report for further explanation.

PLANIMETRIC AND TOPOGRAPHIC MAPPING PROJECT ~~PH-41~~

ALASKA-BERING SEA, Kuskokwim Bay to Goodnews Bay **PH-41**



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	TOTALS	900
T-9527	54		
T-9528	45		
T-9529	82		
T-9530	88		
T-9531	100		
T-9532	18		
T-9712	80		
T-9717	91		
T-9721	6		
TOTALS	1399		

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-9531

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°52½').

The field work for the project was executed in the summer of 1949 under A. Newton Stewart in cooperation with the geodetic party in project G-949 under Curtis LeFever, and was a continuation of the Bristol Bay project (Ph-8-46).

T-9531 maps the Kuskokwim River in the vicinity of Bethel.

After the maps for the project have been reviewed and reproduced a Project Completion Report will be written. It will include a brief summary of the project, a listing of the various records and reports, and a set of instructions.

A cloth-backed copy of each map at manuscript scale and the descriptive report will be registered and filed in the Bureau Archives.

FIELD INSPECTION REPORT

Map Manuscript T-9531

Project 6041

Refer to: "PROJECT REPORT, KUSKOKWIM BAY & RIVER"
Project Ph-41(49) North, June, July 1949
Curtis LeFevre, Chief of Party

*Filed with Completion Report
in the Library*

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-9531

Project 6041

Refer to: PHOTOGRAMMETRIC PLOT REPORT for T-9522 thru T-9529
and T-9531 which is included in the Descriptive Report for T-9522
thru T-9529.

COMPILATION REPORT

Map Manuscript T-9531

Project ~~6041~~

24070

Items 31 thru 36 of the Compilation Report for T-9522 thru T-9529 are applicable.

37. LANDMARKS AND AIDS:

Forms 567 are submitted for Aeronautical Aids which are all indicated by the field party as triangulation stations as follows:

S. E. of
prop-
limit

STACK	- Stack on Indian Service Hospital at Bethel (<i>intersection sta</i>)
RADIO TOWERS	- Skeleton steel towers approximately 250 feet high painted alternately red and white.
AIRWAY BEACON	- Revolving light on skeleton steel tower

The positions of the latter two were not available at the compilation office and were not entered on the Form 567.

38. CONTROL FOR FUTURE SURVEYS:

There are two recoverable topographic stations shown on the manuscript for which the Compilation Office does not have Forms 524 or descriptions. Evidently they were not returned to the Compilation Office after the data for this project was forwarded to the U.S. Army at San Francisco, California. They are:

ROAD, 1949 (*recoverable cultural feature*)

Lat. 60° 47' 984 meters
Long. 161° 45' 159 meters

RACK, 1949 (*marked station*)

Lat. 60° 45' 1291 meters
Long. 161° 43' 512 meters

It is requested that if Forms 524 for these stations are on file in the Washington Office that the above positions be entered thereon. ✓

These along with 3 photo-hydro stations are listed in paragraph 49 "Notes to the Hydrographer".

Items 39 and 40 of the Compilation Report for T-9522 thru

T-9529 are applicable.

41. VERTICAL CONTROL:

There were no vertical control stations located within the limits of this manuscript.

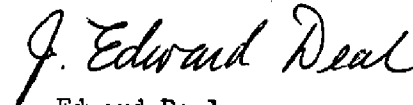
Items 46 and 47 of the Compilation Report for T-9522 thru T-9529 are applicable.

Approved:



Fred Natella
Comdr., C&G Survey

Respectfully submitted:



J. Edward Deal
Cartographer

T-9531.

Geographic Names.

Alaska

Kuskokwim River

Bethel

Bethel C A A Airfield

Tupukruk Slough

Names approved 1-24-57.

L. Heck

49. Notes to the Hydrographer:

Please refer to remarks in the Compilation Report Item 38 relative to recoverable topographic stations. ROAD, 1949 and RACK, 1949.

Photo-hydro stations shown on the manuscript are as follows:

No. 137	-	Photo No. 13-L-39	-	South gable of Northern Commercial Co. Store. Bldg. is green with white trim "Northern Commercial Company".
No. 138	"	"	"	South gable of a large unpainted theatre in Bethel. Galvanized iron roof, Bldg. is long north and south, just west of Bethel store.
No. 139	"	"	"	S.W. gable of small unpainted Eskimo house with stovepipe chimney on S.E. side and small shed over door on the S.W. end.

Review Report T-9531
Planimetric Map
23 January 1957

61. Control:

The seven triangulation, three topographic, and three hydrographic stations in this map area are listed in CDR LeFever's project report for Ph-48 S rather than Ph-41 N because the initial project layout he had did not go beyond 60°45'.

Road and Roof are recoverable objects only. Rack is a marked topographic station.

62. Comparison with Registered Surveys:

There are no prior surveys for this area.

63. Comparison with Maps of other Agencies:

USGS Bethel, 1:250,000, ed. 1950, Recon.

Because of the small scale of the quadrangle only general agreement is possible.

64. Comparison with Contemporary Hydrographic Surveys:

The latest hydrographic surveys were made in 1914 and 1915. No comparison was made.

65. Comparison with Nautical Charts:

9104

This chart is obsolete and has been withdrawn from circulation.

66. Accuracy:

This map complies with project instructions and meets charting needs.

Reviewed by

Lena T. Stevens

Lena T. Stevens

Approved by:

L. C. Hardy
Chief, Review Section
Photogrammetry Division

Ad J. Bruce
Chief, Photogrammetry
Division

Max Skelton
Chief, Nautical Chart Branch
Charts Division

J. B. Shumell
Chief, Coastal Surveys
Division