

5576

Diag. Cht. Nos. 9103, 9104, & 9302.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-41(49) Office No. T-5576

LOCALITY

State Alaska

General locality Kuskokwim River

Locality Eek Island

1949-50

CHIEF OF PARTY

C. LeFever, Chief of Field Party

C. W. Clark, Portland Photo. Office

LIBRARY & ARCHIVES

DATE July 24, 1958

B-1870-1 (11)

5576

DATA RECORD

T-5576

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

Field Office (II): Bethel, Alaska

Chief of Party: Curtis LeFever

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Charles W. Clark

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 2 1952

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

3/5/48

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): Mean ~~Sea Level~~ ^{High Water}

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): See 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.

[illegible]

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

DATA RECORD.

Field Inspection by (II): Shoreline and shoreline stations by: C.H. Bishop and E.T. Ogilby Date: July 1949
 Inland horizontal control: None
 Vertical control: None
 Planetable contouring by (II): None in 1949 Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): Located in 1949 by field inspection on photographs taken in 1945.

Projection and Grids ruled by (IV): Date:

Projection and Grids checked by (IV): Date:

Control plotted by (III): M.B. Elrod Date: 7/6/51

Control checked by (III): Helen Laube Date: 7/6/51

Radial Plot or Stereoscopic Control extension by (III): James L. Harris and J.E. Deal Date: 8/7/51

Planimetry Date:
 Stereoscopic Instrument compilation (III): Contours Date:

Manuscript delineated by (III): Carita Wiebe Date: 9/27/51

Photogrammetric Office Review by (III): Ree H. Barron Date: 10/10/51

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

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide	
28269 and 28270	8/8/50	11:16	1:20,000	4.5 ft. above M.L.L.W.	4.65
28304	"	12:14	"	3.0 ft. "	3.35
28346 and 28347	"	13:26	"	1.0 ft. "	2.15

Field Photos: 19 48

22 994 A
22 295
22 296

Kodak, 620: Field Party Photographs (for identification of control stations) pp. 5, 27, 30, 33, 34, 64, 69

Tide Apokak Hi @ 7:12 = 8.25 ft
Lo 15:04 = 1.53 ft

Tide Bethel Hi @ 11:42 = 2.5
Lo 22:04 = 0.9

Tide (III)

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

Diurnal		
Ratio of Ranges	Mean Range	Range
	2.1	
4.1 high	9.4	12.0
1.7 low		

Washington Office Review by (IV):

Lina T. Stuenkel

Date: May 10, 1954

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 77.5

Shoreline (More than 200 meters to opposite shore) (III): 25.1

Shoreline (Less than 200 meters to opposite shore) (III): 17.4

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 3

Recovered: 3

Identified: 3

Number of BMs searched for (II):

Recovered:

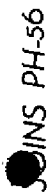
Identified:

Number of Recoverable Photo Stations established (III): 5

Number of Temporary Photo Hydro Stations established (III): 4*

Remarks: * Photo Hydro stations were selected by the field inspection party by office examination of the photographs.

34



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		

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-5576

Project Ph-41(49) consists of 22 planimetric and 12 topographic surveys. The planimetric surveys cover the east and the west sides of Kuskokwim River from Kwinhagak to Bethel. The topographic surveys extend from Goodnews Bay to Kwinhagak.

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.

After the maps for the project have been reviewed, smooth-drafted, 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 project instructions.

A cloth-backed copy of each map and the descriptive reports will be registered and filed in the Bureau Archives.

FIELD INSPECTION REPORT
Map Manuscript No. T-5576
Project Ph-41(49)North

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

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-5576
Project Ph-41(49) North

Refer to the combined Photogrammetric Plot Report for Map Manuscripts T-5438, T-5575, T-5576, T-9530 and T-9532, Project Ph-41(49) North which is included in the Descriptive Report for T-5438 (1949).

COMPILATION REPORT
Map Manuscript No. T-5576
Project Ph-41(49) North

Side headings 31 to 37 incl., 39, 40, 46 and 47 of the Compilation Report for T-5438 are applicable.

38: CONTROL FOR FUTURE SURVEYS:

Forms 524 are being submitted for the following recoverable topographic stations:

ACHE, ACME, SAL, TEXT, TRI

These stations along with the radially plotted photo hydro stations are listed under side heading 49: "NOTES TO THE HYDROGRAPHER".

The photo hydro stations were selected and described by the field party by office examination of the field photographs. The number given for each of these stations was assigned at the Photogrammetric Office.

Approved:

Charles W. Clark
Charles W. Clark

Respectfully submitted:

J. Edward Deal Jr.
J. Edward Deal, Jr.

48: GEOGRAPHIC NAME LIST:

Final geographic names were furnished this office on copies of the following maps:

Aeronautical Chart: - Bethel (1196) Alaska
U.S.G.S. Alaska Reconnaissance Topographic Series Map, Bethel,
Alaska
U.S.G.S. Alaska Map 18: - Goodnews District Alaska
Nautical Chart (Kuskokwim Bay) No. 9103

T-5576

Eek Island
Kuskokwim River
Tagarayak River

49: NOTES FOR THE HYDROGRAPHER:

Recoverable topographic stations falling in the area of Map Manuscript No. T-5576 are as follows:

ACHE, 1949
ACME, 1949
SAL, 1949
TEXT, 1949
TRI, 1949

Photo hydro points which were selected in the office by the field party, falling in the area of Map Manuscript No. T-5576 are as follows:

116 - N. tip of bank on inside of sharp turn in ditch
117 - Center of fork in slough
118 - Center of fork in small ditch
119 - "V" in outside of sharp turn in slough

PHOTOGRAMMETRIC OFFICE REVIEW

T-5576

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. Ree H. Barron J. Edward Deal Jr.
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:

M-2623-12

Review Report
Planimetric Map T-5576
10 May 1954

62. Comparison with Registered Surveys.-No earlier topographic surveys were made for the area of T-5576.

63. Comparison with Maps of Other Agencies.-

USGS Baird Inlet (Recon.) 1:250,000, 1951

The Kuskokwim Bay and River portion of this quadrangle utilized advance prints of the maps in project Ph-41, except for a trail which parallels the west shore of the river on the quadrangle.

64. Comparison with Contemporary Hydrographic Surveys.-
The latest hydrographic survey was made in 1914 and 1915.

65. Comparison with Nautical Charts.-

9104 1:100,000 ed. Oct. 1918, rev. Mar. 1952

T-5576 supersedes the chart for shoreline and interior in its area.

66. Accuracy.-This map meets the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED

L. C. Land
Chief, Review Branch
Div. of Photogrammetry

Max B. Kett
Chief, Nautical Chart Branch
Division of Charts

J. B. Bull
Chief, Div. of Photogrammetry

J. H. Hume
Chief, Div. of Coastal Surveys