

9227

9228

8229

2226

Diag. Chs. Nos. 9302 & 8802

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic
Field No. Ph-8(46) Office No. T-9227 & T-9228

LOCALITY

State Alaska
General locality Bristol Bay
Locality Togiak

1947-50

CHIEF OF PARTY

A. Newton Stewart, Chief of Field Party
Charles W. Clark, Chief, Portland Photo Office,
Div. of Photogrammetry, Washington, D.C.

LIBRARY & ARCHIVES

DATE May 2, 1955

B 1870-1 (1)

DATA RECORD

T -9227 & T-9228

Project No. (II): **Ph-8B(46)** Quadrangle Name (IV): **EKILIK VILLAGE WEST**

Field Office (II):

Chief of Party: **A. Newton Stewart**Photogrammetric Office (III): **Portland Photo.O.
Washington D.C.**Officer-in-Charge: **Charles W. Clark
Louis J. Reed, Chief,
Stereoscopic Mapping
Photogrammetry (IV) Section**

Instructions dated (II) (III):

4 Feb 49 (Radial Plot)Method of Compilation (III): **Reading Plotter**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): **5-9-52**Date reported to Nautical Chart Branch (IV): **MAY 16 1952**

Applied to Chart No.

Date:

Date registered (IV): **May 26, 1954**

Publication Scale (IV):

Publication date (IV):

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

Vertical Datum (III):

The difference between ~~Unadjusted~~ Datum
and N.A. 1927 Datum is Lat. plus/minus 11 m.
and Long. ~~plus/minus~~ 8 m.

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

✓ *le h*

Reference Station (III):

Lat.:

Long.:

Plane Coordinates (IV):

State:

Zone:

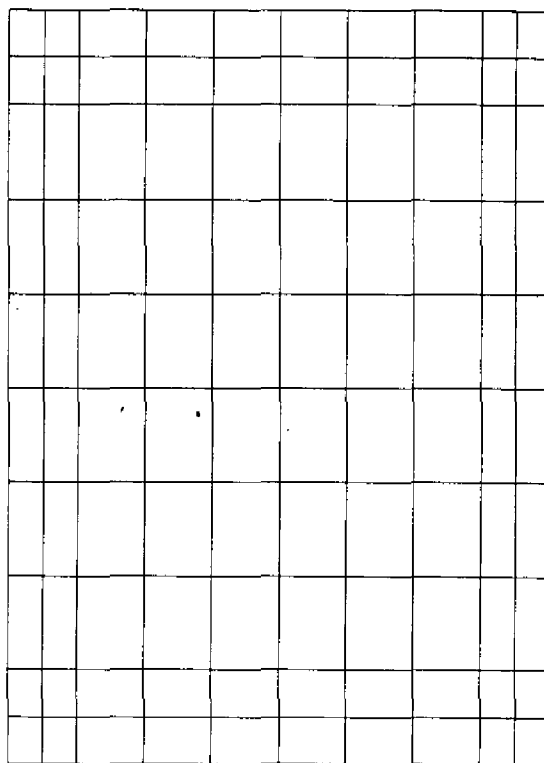
Y=

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.

~~XXXXXXXX~~
~~Unadjusted~~



Areas contoured by various personnel

(Show name within area)

(M) (III)

100% on the Reading Plotter, model "A"
by Clarence E. Misfeldt

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

Number	Date	Time	Scale	Stage of Tide
29500	24 Aug 47	Clock Stopped	20,000	not
20501				known
28619	13 Aug 50	" "	20,000	"
28620				
28621				
28639				
28640				
28641				
28642				
28680				
28681				

Tide (III)

* SEE REMARKS

Reference Station: Nushagak Bay
 Subordinate Station: * Black Rock, Walrus Islands
 Subordinate Station:

diurnal		
Ratio of Ranges	Mean Range	Spring Range
	15'	20'
	6'	10'

Washington Office Review by (IV): B. J. Colner

Date: 2/17/53

Final Drafting by (IV): mg Day 9227

Date: 9/14/53

Drafting verified for reproduction by (IV): WC Hallum

10/15/53
 Date: 10-15-53
 11-23-53

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): T-9227 = 28 sq mi ; T-9228 = 64 sq mi

Shoreline (More than 200 meters to opposite shore) (III): None

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II):

Recovered:

Identified: None

Number of BMs searched for (II):

Recovered:

Identified: None

Number of Recoverable Photo Stations established (III): None

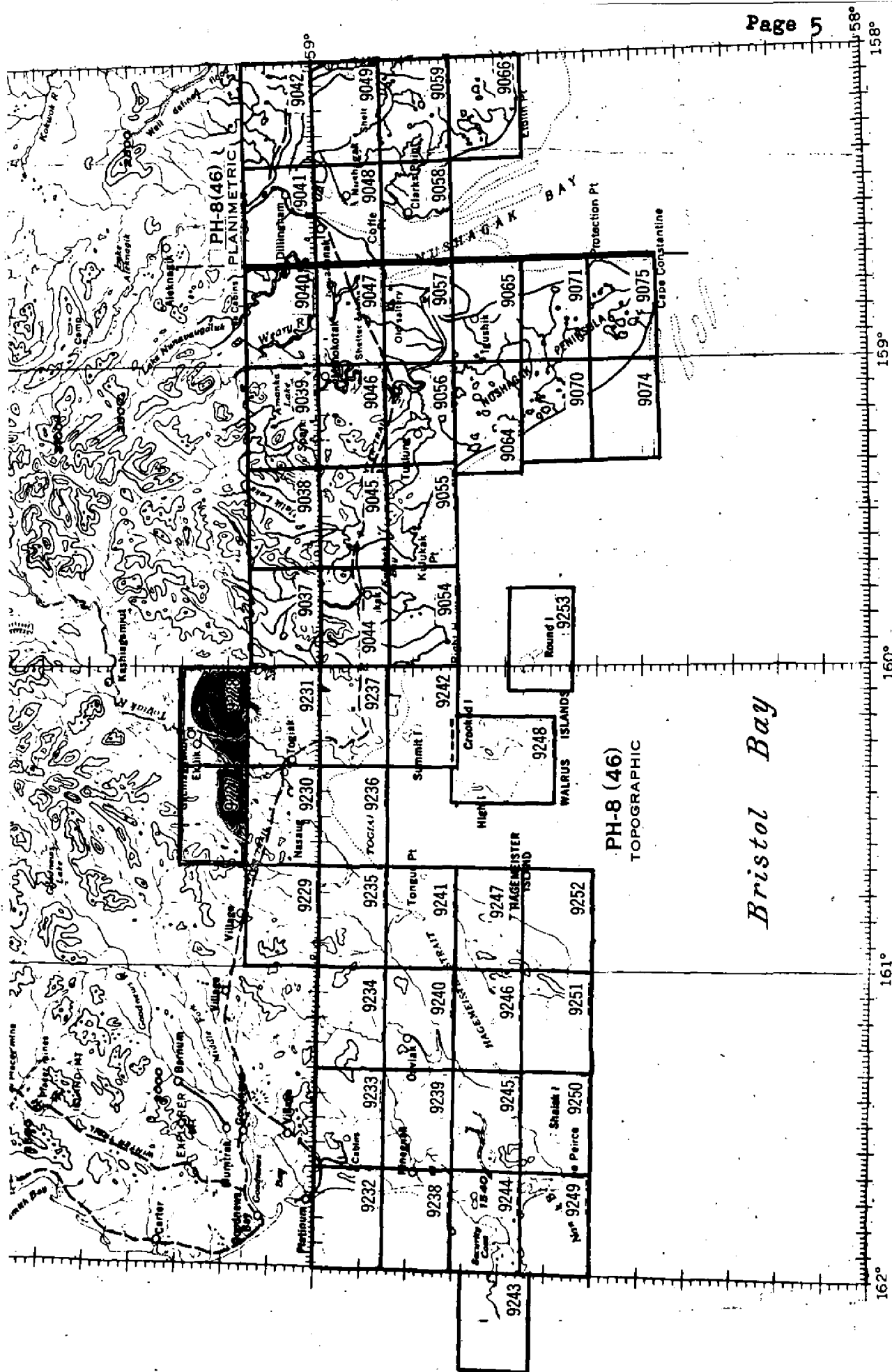
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* TOGIAG BAY * ~~from 1951 Predictions~~
 Tide Predictions, Alaska
 Times of high and low WATERS subtract 3 hours
 Heights of low waters multiply by ratio 0.90
 Heights of high waters " " " 0.65
 Subtract 7.2 ft. to refer heights to MSL

TOPOGRAPHIC MAPING PROJECT PH-8 (46)

ALASKA, Vicinity of Bristol Bay



Summary to Accompany T-9227 and T-9228

Ph-8(46) covers the north shore of Bristol Bay in Alaska and runs from the Egegik River and Kvichak Bay on the East to Cape Newenham on the West.

It is divided into three parts as follows:

Ph-8(46) A includes 23 planimetric maps in the general area of Kvichak Bay and extends from Egegik Bay to Nushagak Bay.

Ph-8(46) B is composed of two shoreline surveys on the Egegik River between Egegik Bay and Lake Becharof.

Ph-8(46) includes 45 topographic maps covering the area from Nushagak Peninsula westward to Cape Newenham and north to Goodnews Bay. It includes offshore islands such as Hagemeister and the Walrus Islands.

T-9227 and T-9228 are the northernmost sheets of the project. T-9227 contains the upper portion of Quimgy River and a very short strip of Togiak River. T-9228 contains the upper part of Togiak River.

Each map manuscript consists of one sheet, $7\frac{1}{2}$ -minutes in latitude and 20 minutes in longitude, at a scale of 1:20,000, with a contour interval of 50 feet. A clothbacked lithographic print of each map at the compilation scale will be registered with the combined Descriptive Report in the Bureau Archives. These maps will not be published.

FIELD INSPECTION REPORT
Map Manuscript No. T-9227
Project Ph-8(46)B

Refer to PROJECT REPORT, AERIAL PHOTOGRAPH CONTROL and INSPECTION,
BRISTOL BAY, ALASKA, Project Ph-8(46) May to July 1948. A. Newton
Stewart, Chief of Party.

Refer to PROJECT REPORT, AERIAL PHOTOGRAPH CONTROL and INSPECTION,
BRISTOL BAY, ALASKA, Project Ph-8(46) May to Sept. 1947. A. Newton
Stewart, Chief of Party.

RADIAL PLOT REPORT

21-30:

See descriptive report to accompany T-9237.

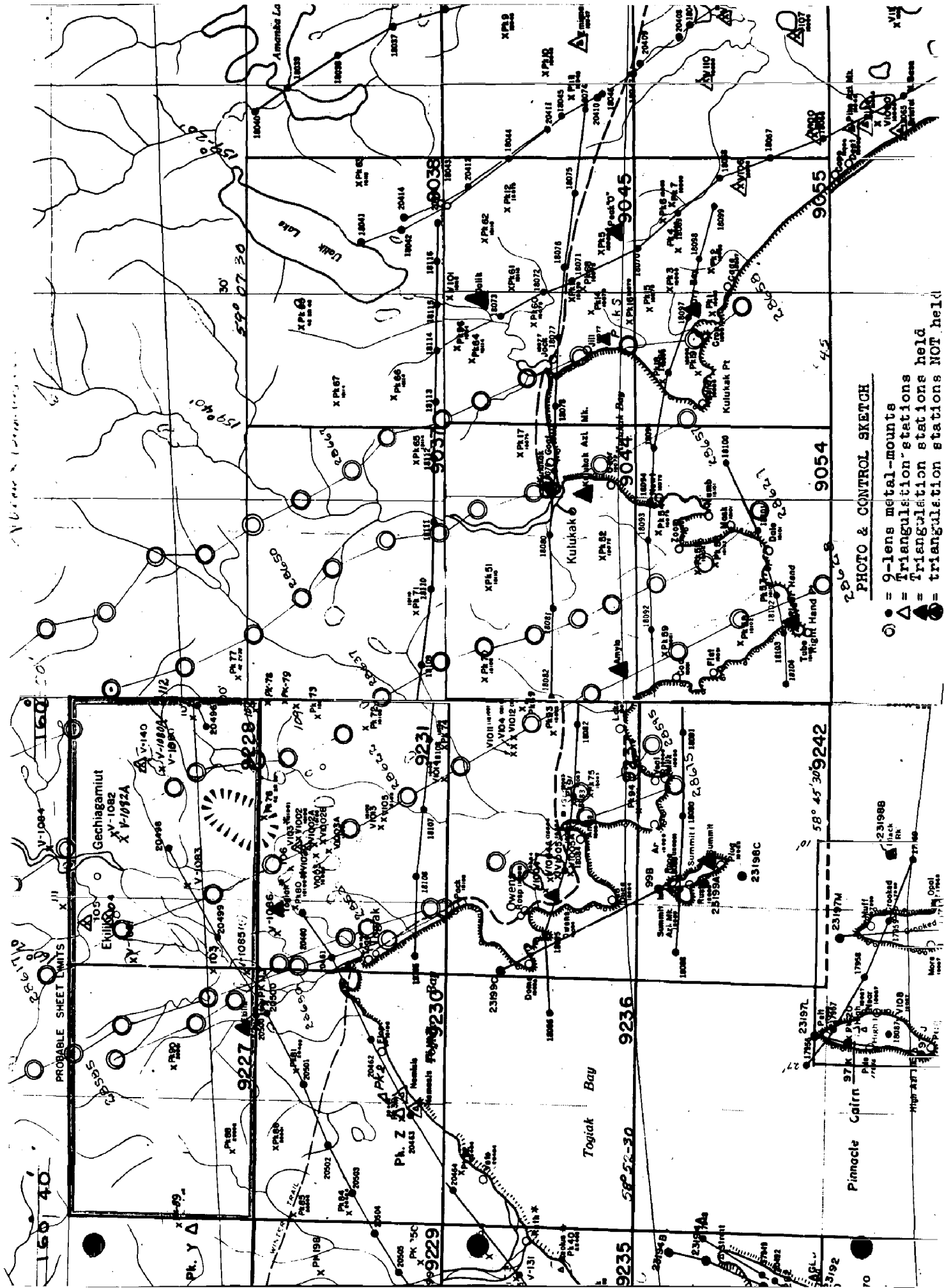


PHOTO & CONTROL SKETCH

- = 9-lens metal-mounts
- △ = triangulation stations held
- = triangulation stations NOT held

COMPILATION REPORT31. Delineation:

All contours and cultural features have been delineated simultaneously on the Reading Plotter, model "A". Photo coverage was not complete; see page 9. ~~There was no shoreline inspection; there is no shoreline.~~ The field inspection on these two quads amounted to identifying peaks for vertical elevations only. The area has not been completely compiled on either quad; approximate areas of delineation are outlined on page 5. One small area on T-9227 near the southern limits, was cloud-covered and has been symbolized in a dashed line to show that the accuracy is doubtful.

32. Control:

A single radial plot covered the mapped area of these two quads and that of several others. The report on this work is included in the descriptive report with T-9237, and therein the control situation was discussed in detail. Briefly, neither horizontal or vertical control was adequate as to density. The bridging ability inherent in the radial plot method was the only reason the area has been compiled at all.

33. Supplemental Data:

- a. Graphic Control Surveys: None
- b. Hydrographic Control Surveys: None.
- c. Plotting Instrument Photos (metal-mounts):

20500, 61, 28619, 20, 21, 39, 40, 41, 42, 80, and 81.

- d. Field identification Photos:

20496, 20498, and 20499.

- e.

Computation Brochures: two, entitled as follows:

"TABULATION OF ELEVATIONS AND COMPUTATIONS OF ELEVATIONS BY MAP MANUSCRIPTS FOR VERTICAL CONTROL STATIONS IN THE AREA OF MAP MANUSCRIPTS T-9227, T-9229, T-9230, T-9234, T-9235, T-9236, T-9240, and T-9241"

"COMPUTATION AND TABULATION OF VERTICAL CONTROL IN THE AREA OF RADIAL PLOT "E", Project Ph-8B(46), including map manuscripts T-9037, T-9038, T-9044, T-9045, T-9054, T-9055, T-9228, T-9237, and T-9242"

34. Contours and Drainage:

Photographic quality of those photographs used as instrument photos was satisfactory for that purpose. Considerable extension of vertical control was found to be necessary but no particular difficulty was had. Doubtful contours have been compiled in the clouded area on T-9227.

35. Shoreline and Alongshore Details: Not Applicable.36. Offshore Details: Not Applicable.37. Landmarks and Aids: Peak Y, 1948 on T-9227 was recommended by the field part as a landmark. No Aids exist.38. Control for Future Surveys: None.39. Junctions: All are in agreement; compiled at same time.40. Horizontal and Vertical Accuracy:

Disregard
See Review
Report

Position and contour accuracy are doubtful as indicated in para 32 above. If the contours are not accurate to 25ft and the detail is not within $\frac{1}{8}$ mm of true position, they are both very close to these requirements.

46. Comparison with existing Maps: None exist.47. Comparison with Nautical Charts: None exist.48. Geographic Name List:

See separate numbered page, following.

49. Notes for the Hydrographer: None.50. Compilation Office Review:

See T-2 form, numbered page, 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

Review Report T-9227 and T-9228
Topographic Maps
February 17, 1953

62. Comparison with Registered Topographic Surveys.-

None

63. Comparison with Maps of Other Agencies.-

USGS Alaska Map 18, Goodnews District, Alaska,
1:250,000, 1938 edition.

64. Comparison with Contemporary Hydrographic Surveys.-

None


65. Comparison with Nautical Charts.- None

66. Adequacy of Results and Future Surveys.-

Further field edit is not considered necessary
prior to hydrographic surveys in the area.

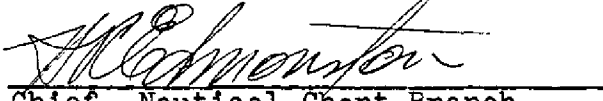
It is believed These maps comply with National Standards of
Accuracy.

Reviewed by:

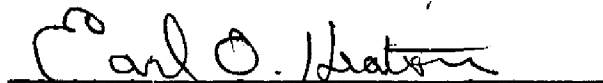

E. J. Colner

APPROVED


Chief, Review Section
Div. of Photogrammetry


Chief, Nautical Chart Branch
Division of Charts GFD


Chief, Div. of Photogrammetry


Chief, Div. of Coastal Surveys

GEOGRAPHIC NAMES

Survey No.

T-9227 & T-9228

Name on Survey

	A	B	C	D	E	F	G	H	K	
										1
<u>T-9227</u>										2
<u>QUIGMY RIVER</u>										3
<u>TOGIAC RIVER</u>										4
										5
										6
										7
<u>T-9228</u>										8
<u>TOGIAC RIVER</u>										9
										10
										11
<u>Alaska</u>										12
<u>Bristol Bay</u>										13
										14
										15
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										25
										26
										27

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

(for titles)

Names approved
2-18-53 L. H. H. K.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9227 & 9228

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. ☒

41. Remarks (see attached sheet)

Supervisor, Review Section or Unit
Louis J. Reed, ChiefStereoscopic Mapping Section
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:

M-2623-12

HORIZONTAL DATUM ADJUSTMENT

Bristol Bay, Alaska

The subject maps were radial plotted on unadjusted (Field) datum which was subsequently adjusted to the North American 1927 datum by the Division of Geodesy. The datum correction has been computed for each sheet, and stamped into the Descriptive Report on page 1, and on the manuscripts and registered cloth-backed copies near the title block. However, as the title block of each clothback sheet contains the note, "1927 North American Datum", it was necessary to stamp the word, "(Unadjusted)" beside this datum note in the title block of each sheet.

See the special report, Horizontal Control Datum, Ph-8(46), Ph-8A(46), and Ph-8B(46), filed with the Completion Report for the project for details and lists of the maps, reports, and registration copies marked with this adjustment. The following is a list of the maps in the projects:

Ph-8(46), TOPOGRAPHIC

T-9038 thru T-9040
9044 " 9047
9054 " 9057
9064, -9065, -9070
9071, -9074, -9075
9227 thru 9253

Ph-8A(46), PLANIMETRIC

T-9041 thru T-9043
9048 " 9053
9058 " 9063
9066 " 9069
9072, -9073
9076, -9078

Ph-8B(46), SHORELINE

T-8873 (E&W) and T-8874