9234 9235

ORIGINAL

9236

9234 9235 9236

Diagram Cht. Nos. 8802 & 9103

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. pH-SB (46) Office No. T-9234 T-9235 T-9236

LOCALITY

State Alaska

General locality Bristol Bay Area

Locality T-9234 - UPPER OSVIAK RIVER
T-9235 - NORTH TONGUE POINT
T-9236 - CENTRL WEST SHORE TOGIAK BAY

194 8

CHIEF OF PARTY

A.Newton Stewart, Chief of Field Party
Charles W. Clark, Chief Portland Photo. O.
~~Division of Photogrammetry, Washington, D.C.~~

LIBRARY & ARCHIVES

DATE MARCH 24, 1955

8-1870-1 (1)

DATA RECORD

T-9234, T-9235, and T-9236

Project No. (II): Ph-8B(46)

Quadrangle Name (IV): T-9234 = UPPER OSVIAK RIVER
T-9235 = NORTH TONGUE POINT
T-9236 = CENTRAL WEST SHORE TOGIAK BAY

Field Office (II):

Chief of Party: A.Newton Stewart

Photogrammetric Office (III): Bartland Photo.O. Washington, D.C.

Officer-in-Charge: Charles W.Clark
Louis J. Reed, Chief, Stereoscopic Mapping Sec
Copy filed in Division of Photogrammetry (IV)

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): JUN 26 1951

Date reported to Nautical Chart Branch (IV): JUN 29 1951

Applied to Chart No.

Date:

Date registered (IV): 1-28-55

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927 (unadjusted)

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.

The difference between Unadjusted NAD27 Datum and N.A. 1927 Datum is Lat. plus/minus 13 m. and Long. plus/minus 6 m.
lch.

Present

Reference Station (III):

Lat.:

Long.:

~~Adjusted~~ Unadjusted

Plane Coordinates (IV):

State:

Zone:

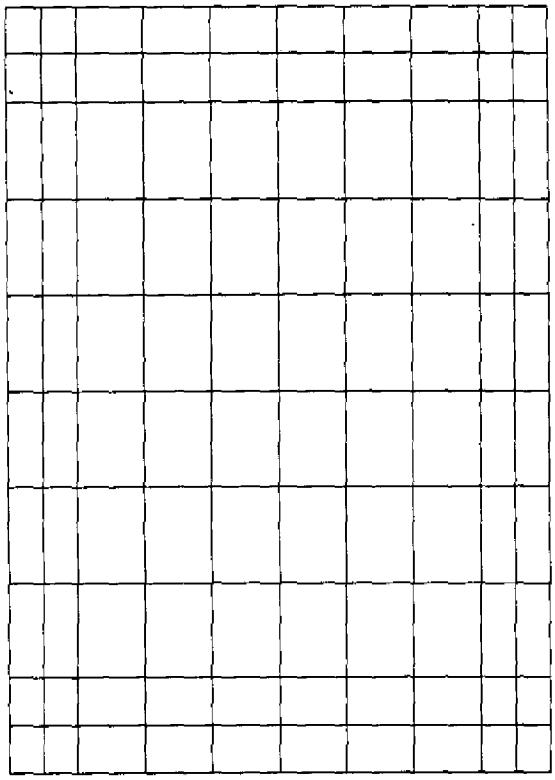
Y=

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.

M-2618-12(4)



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

T-9234 ; 100% by Orvis N. Dalbey

T-9235 : 10% by Orvis N. Dalbey (SW corner)
90% by Louis Levin

T-9236 : 100% by Louis Levin

DATA RECORD

Field Inspection by (II): A. Newton Stewart Date: 1947-48

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

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

MHWL established by field methods in 1947-48.

Projection and Grids ruled by (IV): Theodore L. Jansen (Ruling Machine) Date: 9 Sep 50

Projection and Grids checked by (IV): Howard D. Wolfe Date: 11 Sep 50

Control plotted by (III): James L. Harris Date: 25 Sep 50

Control checked by (III): Carita Wiebe Date: 25 Sep 50

Radial Plot ~~Stereoscopic Extension~~ by (III): James L. Harris and J. Edward Deal Date: 21 Dec 50

Stereoscopic Instrument ~~Extension~~ delineation by (III): Planimetry and Contours Orvis N. Dalbey and Louis Levin Date: 20 Apr 51 / 25 May 51

Manuscript ~~delineated~~ compilation by (III): John B. McDonald and Frank J. Lesslie Date: ~~31 May~~ 25 June 51

Photogrammetric Office Review by (III): Louis J. Reed Date: ~~31 May~~ 25 June 51

Elevations on Manuscript checked by ~~(II)~~ (III): Louis J. Reed Date: ~~31 May~~ 25 June 51

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
20468 thru 20469	24 Aug 47	*	20,000	
20505 thru 20515	24 Aug 47	*	20,000	

* Camera clock not functioning.

Tide (III)

~~* See REMARKS~~

Reference Station: Nushagak Bay

Subordinate Station: Black Rock, Walrus Islands

Subordinate Station:

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

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

Date: 11 June 1952
4 FEB 1953

Final Drafting by (IV): M J Day

Date: 2/3/54 - (9235)
9/3/52 - (9236)
6/11/54 - (9234)

Drafting verified for reproduction by (IV): W.O. Hallum T-9235
Vawter T-9236
W.O. Hallum 9234

Date: 2-15-54
9-10-52
6-23-54

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): See table below

Shoreline (More than 200 meters to opposite shore) (III): See table below

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

Control Leveling - Miles (II): one

Number of Triangulation Stations searched for (II): 2 Recovered: 0 Identified: 0

Number of BMs searched for (II): None Recovered: Identified:

Number of Recoverable Photo Stations established (III): 4

Number of Temporary Photo Hydro Stations established (III): 5 (See side-heading 49)

Remarks:

	AREA	SHORELINE	
T-9234 =	68 sq mi	0.0 miles	
T-9235 =	91 sq mi	10.5 miles	
T-9236 =	10 sq mi	6.5 miles	
	169 sq mi	17.0 miles	Total

Bristol Bay

Hagemeister I. to C. Newenham

Times of high and low waters subtract 4h 30m

Heights of high waters multiply by ratio 0.55

Heights of low waters multiply by " 0.85

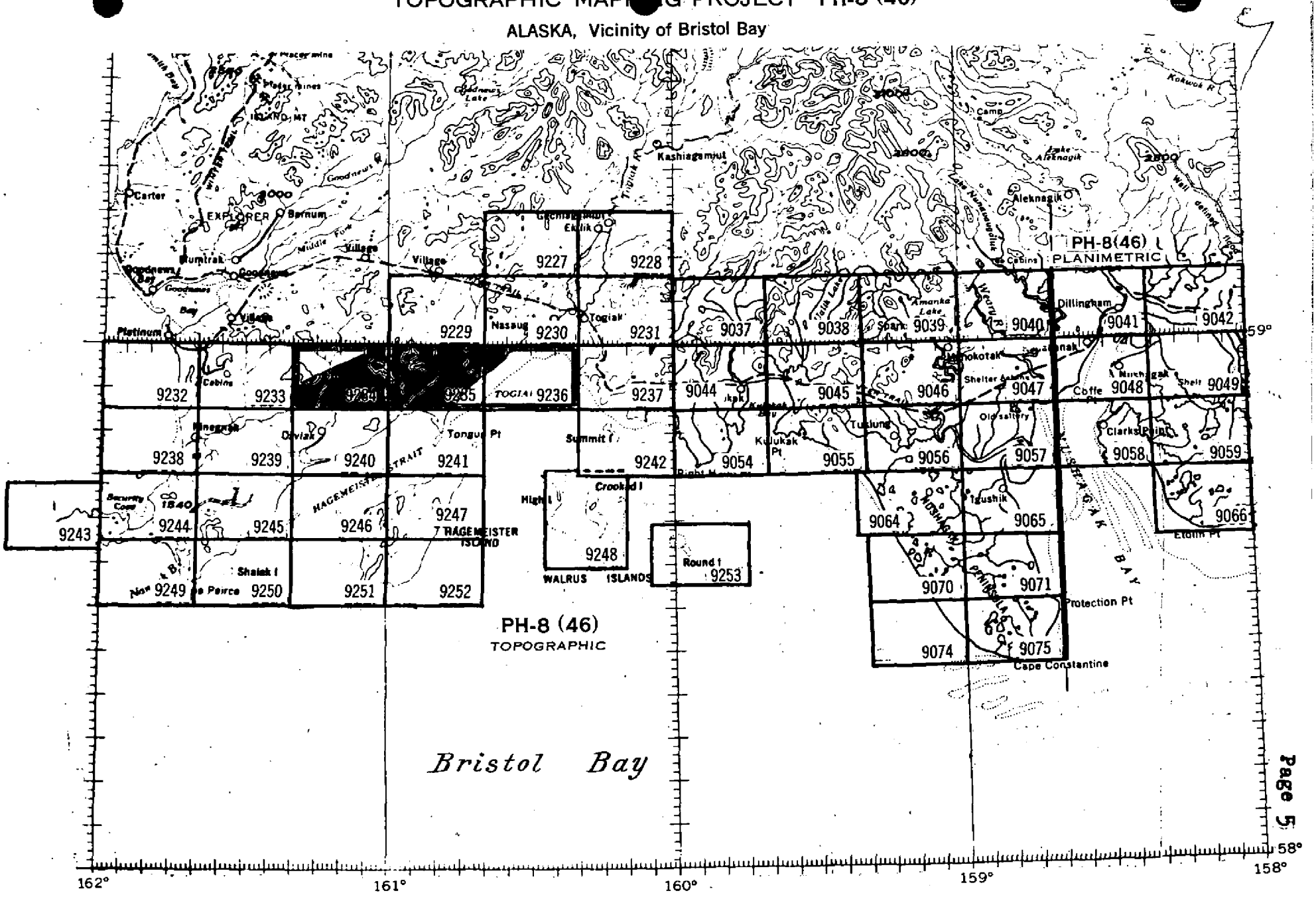
Subtract 6.0 ft to refer heights to MSL

Later tide information available

M-2618-12(4)

TOPOGRAPHIC MAPPING PROJECT PH-8 (46)

ALASKA, Vicinity of Bristol Bay



Summary to Accompnay T-9234 and T-9235

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-9234 contains the upper portion of the Osviak River. There is no photographic coverage in most of the western and northern areas of the sheet. T-9235 borders on Togiak Bay and Hagemeister Strait and contains the north part of Tongue Point.

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.

Summary to Accompany T-9236

Ph-8(46) is a topographic map project consisting of 45 maps extending from Nushagak Peninsula to Cape Newenham and north to Goodnews Bay, including the off-shore islands, along the northern shore of Bristol Bay, Alaska. Ph-8(46)A consists of 23 planimetric maps covering the area from Egegik Bay to Nushagak Bay including Kvichak Bay, Alaska. Ph-8(46)B consists of 2 shoreline surveys. The hydrography has not been completed in the area of the topographic maps.

T-9236 covers the central West Shore of Togiak Bay, off Bristol Bay, Alaska, extending from Latitude 58° -52' -50" to 59°-00' and from Longitude 160°-40', at a scale of 1:20,000. Planimetry and contours were delineated on the Reading Plotter using photographs taken in 1947. The field inspection, consisting of the identification of control, selection of topographic and hydrographic station sites, establishment of vertical control and partial shoreline inspection, was accomplished in 1947 and 1948.

A cloth-backed lithographic print of this map at the compilation scale and the descriptive report will be registered in the Bureau Archives. These maps will not be published. The vinylite manuscript and a copy of the Descriptive Report will be filed in the Division of Photogrammetry.

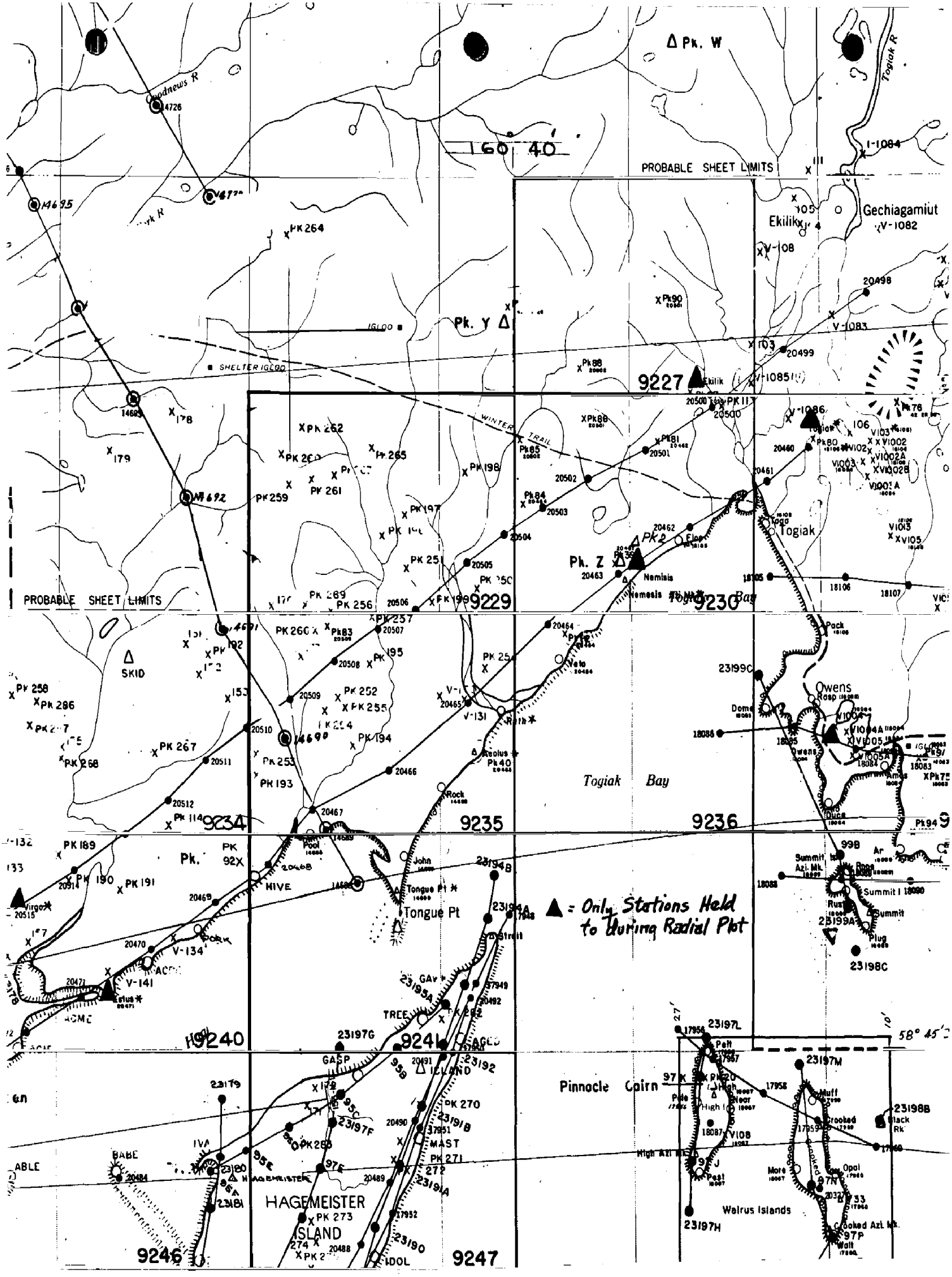
FIELD INSPECTION REPORT
Map Manuscript No. T-9235, 36, 34
Project Ph-8(46)B

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.

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-9235
Project Ph-8(46)B

See Descriptive Report for T-9227, Project Ph-8(46)B.



Δ Pk. W
Togiak R
Goodnews R
160 40
PROBABLE SHEET LIMITS
Gechiagamiut
Ekilik
Pk. Y Δ
IGLOO
SHELTER IGLOO
WINTER TRAIL
9227
Ekilik
Togiak
Pk. Z Δ
Nemisis
Togiak Bay
9229
9230
PROBABLE SHEET LIMITS
SKID
Owens
Dome
Togiak Bay
9234
9235
9236
Pk.
HIVE
Tongue Pt
Tongue Pt
▲ = Only Stations Held to during Radial Plot
Summit
Summit I
Plug
9240
9241
TREE
GASP
ICLAND
Pinnacle Cairn
Pelt
High
Muff
Crooked
Black Rk
Opal
Walrus Islands
Crooked Azi. Mk.
Wolf
HAGEMEISTER ISLAND
BABE
IVA
9246
9247
58° 45'

COMPILATION REPORT

31. Delineation:

Contours and all cultural features were delineated simultaneously on the Reading Plotter, model B. Photo coverage was complete and shoreline inspection was adequate. Manuscript T-9234 was not completely mapped, only the SE half having photo coverage, but the entire land area of the other two manuscripts of this report has been delineated, T-9235 and T-9236.

32. Control:

Horizontal control status is discussed in side-heading 23 of the radial plot report, page 9, in the descriptive report to accompany manuscript T-9227.

Vertical control for contouring purposes was furnished by a combination of sea level along the shoreline and elevations on inland peaks as shown on the control sketch, page 9, of this report. Vertical control was adequate.

33. Supplemental Data:

a. Plotting instrument photos (metal-mounted):
20463 thru 20469, and 20506 thru 20515.

b. Field inspection photos:
20463 thru 20469, and 20506 thru 20515.

c. Graphic Control surveys: None

d. Hydrographic surveys: None

e. Vertical angle computations:
One bound volume entitled, "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(northern half), Project Ph-8B(46)".

34. Contours and Drainage:

The photographic quality of the instrument photos was satisfactory for contouring use and no areas of questionable contours remain.

35. Shoreline and Alongshore Details:

Shoreline inspection was quite adequate and details have been incorporated into the resulting manuscripts. Foul lines have been compiled directly from field inspection with none instrument delineated.

36. Offshore Details:

Rocks and ledges shown within foul areas are instrument located and symbolized. When hydrographic operations are initiated in this area these symbols may be changed under the closer scrutiny.

37. Landmarks and Aids:

Reference field inspection reports listed on page 7.

38. Control for Future Surveys:

a. Photo-hydro stations:
Number 170, 303, and 304 are on manuscript T-9235, and 305 and 306 are on T-9236. All five were identified in the field and have been located by radial plot. There is no shoreline on T-9234 and therefore no hydro stations exist.

b. Photo-topo stations:
Four such stations were field located and identified, and they have been positioned on the manuscripts by the radial plot. None exist on T-9234, but POOL 1947, ROCK 1947, and RUTH 1947 are to be found on T-9235, and VETO 1947 is on T-9236.

39. Junctions:

Junction matches have been made wherever contemporary manuscripts of this project exist. This includes all match-edges except the north and west edges of T-9234 where no compilation is being produced at this time. All junctions are in agreement.

40. Horizontal and Vertical Accuracy:

Standard.

41. Comparison with Existing Maps: None exist.

42. Comparison with Nautical Charts: None exist.

43. Geographic Name List:

See separate numbered page following.

44. Notes for the Hydrographer:

See separate unnumbered page following.

50. Compilation Office Review:

See T-2 form, numbered page, following.

Submitted By:

Orvis N. Dalbey,
Cartographer-Photogrammetric

Approved and Forwarded:

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
T-9234										1
OSVIAK RIVER										2
										3
T-9235										4
AEOLUS MOUNTAIN										5
HAGEMEISTER STRAIT										6
MATOGAK RIVER										7
NISUA RIVER										8
QUIGMY RIVER										9
TOGIAK BAY										10
~~TOGIAK POINT~~										11
										12
T-9236										13
QUIGMY RIVER										14
TOGIAK BAY										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names approved 2-4-53 L. Heck

Names underlined in red are approved 6-10-53 L. Heck

49. Notes for the Hydrographer:

T-9234

None.

T-9235

(a) Photo-Hydro Stations:

Number	Photo	Description
170	14688	A 2" x 12" plank projecting 7 ft, directly in front of a small pond, and on the edge of the grass line.
303	20464	Upper tip of highest of all yellow scars on face of bluff about 80 ft high.
304	20464	Pinnacle rock on NE side of point of land, about 10 ft above MHW. Will not see to SW.

(b) Recoverable Topo Stations:

POOL 1947, ROCK 1947, and RUTH 1947.

T-9236

(a) Photo-Hydro Stations:

Number	Photo	Description
305	20464	A lone rock at about MLW line.
306	20464	The highest point of a rock with a rounded top, the NE end of the top, an estimated height of 10 ft above MHW. The rock is about 3/4 mile offshore and it is the only rock above MHW that is any where near this offshore distance anywhere along this entire shore.

(b) Recoverable Topo Stations:

VETO 1947.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

PHOTOGRAMMETRIC OFFICE REVIEW

T-9234, 5, 6.

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy N 5 N 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) N 5 6 7. Photo hydro stations N 5 6 8. Bench marks ✓
9. Plotting of sextant fixes ✓ 10. Photogrammetric plot report See T-9229 11. Detail points ✓

✓ = checked
N = non-existent

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline N 5 6 13. Low-water line N 14. Rocks, shoals, etc. N 5 6 15. Bridges N 16. Aids to navigation N 17. Landmarks N 18. Other alongshore physical features N 5 6 19. Other alongshore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover N 22. Planetable contours N 23. Stereoscopic instrument contours ✓ 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features N

CULTURAL FEATURES

27. Roads N 28. Buildings N 29. Railroads N 30. Other cultural features N

BOUNDARIES

31. Boundary lines N 32. Public land lines N

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay N 37. Descriptive Report ✓ 38. Field inspection photographs N 5 6 39. Forms ✓
40. _____

Reviewer

Louis J. Reed
Supervisor, Review Section or Unit

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

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 T-9236
Topographic Map
11 June 1952

62. Comparison with Registered Topographic Surveys:

None.

63. Comparison with Maps of Other Agencies:

None.

64. Comparison with Contemporary Hydrographic Surveys:

None.

65. Comparison with Nautical Charts:

Chart 8802 1:1,023,188 Scale 17th Edition (1944) 51-6/11

No discrepancies are to be noted.

66. Adequacy of Manuscript:

This topographic map complies with Bureau standards and with project instructions. These maps are considered adequate as a base for hydrographic surveys and the construction of nautical charts fch.

Reviewed by:

Gordon B. Willey
Gordon B. Willey

Approved by:

L C Lande 1 Feb 1953
Chief, Review Section
Division of Photogrammetry

Wallace A. Brucker
Actg Chief, Nautical Chart Branch
Division of Charts GFD

Map S Ricketts
Chief, Div. of Photogrammetry

Earl O. Heaton
Chief, Div. of Coastal Surveys

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

NAUTICAL CHARTS BRANCH

SURVEY NO. T.9234

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1958	9103	L.S.S.	nothing used ~~Before~~ After Verification and Review
12-24-69	9103	H. Radde	Considered adequate appl until reconstructed) ~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-9235

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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NAUTICAL CHARTS BRANCH

SURVEY NO. T.9236

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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