9249

Original

Diza. Cht. Nos. 8802 & 9103

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

	1
Type of Survey Topographic Field No. Office No. T-9219	
LOCALITY	
State Alaska	
General locality Bristol Bay Area	
Locality CAPE PEIRCE	
194 8	
A. Newton Stewart, Chief of Party Ba	ty
Div of Photogrammetry, Vest Dic	01,4,200
LIBRARY & ARCHIVES	
DATE Jan. 17, 1955	

8-1870-1 (1)

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DATA RECORD

T - 9249

Project No. (II): Ph-8B(46) Quadrangle Name (IV): CAPE PEIRCE

Field Office (II): Bristol Bay Area, Alaska Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Portland, Oregon (Plodf)cer-in-Charge: Charles W. Clark
Washington, D. C. Louis J. Reed, Cl

Washington, D. C.
Louis J. Reed, Chief, Steony filed in Division of Photogrammetry (IV)

Washington, D. C.
Louis J. Reed, Chief, Steony filed in Division of Photogrammetry (IV)

Photogrammetry (IV)

Photogrammetry (IV)
Office Files

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): 9-20-50 Date reported to Nautical Chart Branch (IV): 9-22 -50

Applied to Chart No.

Date:

Date registered (IV): July 9, 1953

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): North American 1927 (Unadjuster)

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 Datum Reference Station (III): and N.A. 1927 Datum | Lat. plus/m

Lat.:

Long.:

Plane Coordinates (IV):

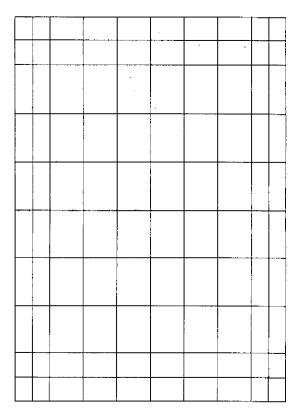
State:

Zone:

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)
(AS) (III)

Clarence E. Misfeldt and Louis Levin

DATA RECORD

Field Inspection by (II): A. Newton Stewart

Date: 1948

Planetable contouring by (II): None

Date:

Completion Surveys by (II): None

Date:

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

The shoreline on this manuscript is as it was in 1948 since field inspection made in 1948 was used as a guide during instrument delineation of the shoreline.

Projection and Grids ruled by (IV): Ruling Machine

Date: 1 Sept. 1949

Projection and Grids checked by (IV): Theodore L. Jansen

Control plotted by (III): James L. Harris(Portland Office)

Date: 1 Sept. 1949

Date: 14 Dec. 1949

Control checked by (III): Marie B. Elrod (Portland Office) Date: 28 Dec. 1949

Radial Plot of State Control of State Control of Contro

Stereoscopic Instrument eempilation (III): Planimetry Clarence E. Misfeld bate:

and Louis Levin 30 Aug. 1950

Contours Date:

Compilation
Manuscript del/neated by (III):

John B. McDonald Date: 8 Sept. 1950

Photogrammetric Office Review by (III): Louis J. Reed Date: 20 Sept. 1950

Elevations on Manuscript Louis J. Reed Date: 20 Sept. 1950 checked by (N) (III):

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

PHOTOGRAPHS (III) Time

Number 20480 and 20481 23166B

Date 8/24/47 9/1/48

*none 11:40

1:20,000 1:20,000

Scale

Diurnal

Spring

Range

Stage of Tide

* Clock in camera not functioning

Tide (III)

Reference Station: Matarani, Peru

Subordinate Station: Goodnews Bay Entrance, Alaska

Subordinate Station:

Washington Office Review by (IV): B. 3. Colner

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 12 sq. mi.

Shoreline (More than 200 meters to opposite shore) (III): 32 miles

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

Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II): 2

Number of BMs searched for (II): none

Number of Recoverable Photo Stations established (III): 4 Number of Temporary Photo Hydro Stations established (III): 12 *2.8 6.2

Ratio of Mean

Ranges Range

*Ratio of rise for high Date: 10-23-52 waters

Date: 2-/7-53

Date: 3- /2-53

Date: 4/23 53

Identified: 2 Recovered: 2 Identified: Recovered:

ks: Tide Predictions, Alaska were prepared by the Division of Tides and Currents for the more accurate prediction of Remarks: tides at various points in this part of project Ph-8. Details for T-9249 are on reverse side of this page.

TIDE PREDICTIONS, ALASKA

Bristol Bay Reference Station Nushagak Bay

Time Meridian 150° W

Hagemeister Island to Cape Newenham:

Times of high and low waters subtract 4^h 30^m Heights of high waters multiply by ratio 0.55 Heights of low waters multiply by ratio 0.85 Subtract 6.0 ft. to refer heights to MSL

20 34 4

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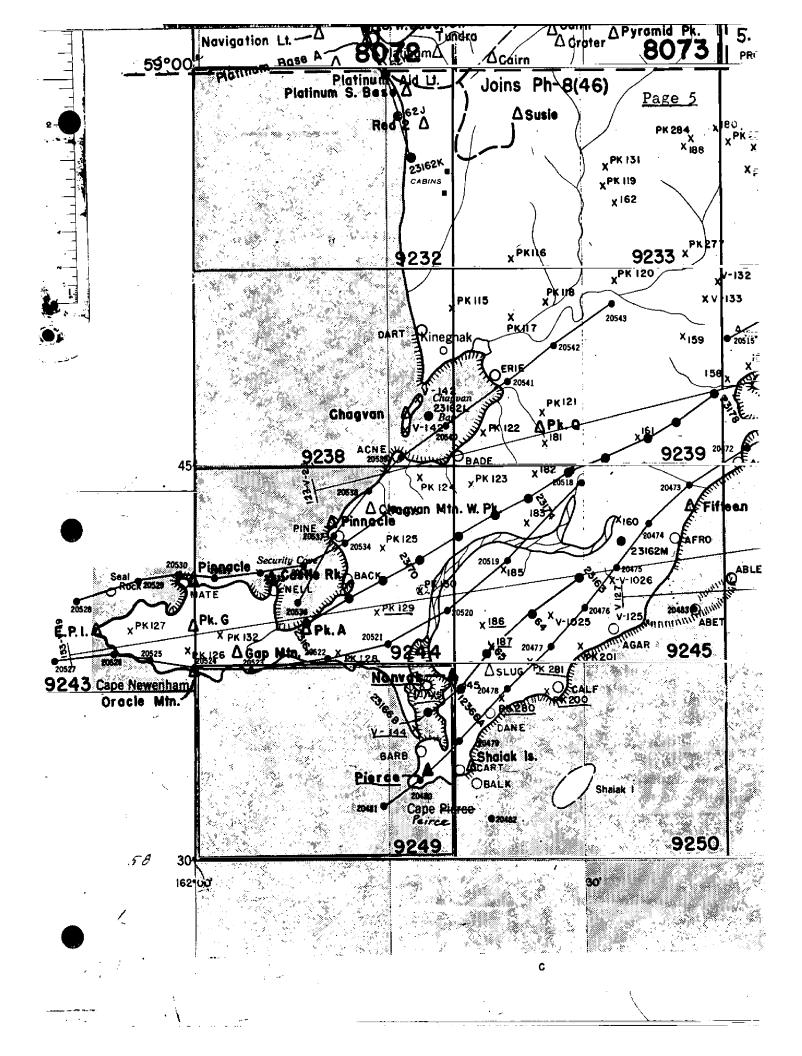
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Summary to Accompany T-9249

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-9249 is the most southwesterly map of the project and is bounded by Bristol Bay on the south. It includes Cape Peirce and the mouth and southern portion of Nanvak Bay.

The 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 cloth-backed lithographic print of the map at the compilation scale will be registered with the Descriptive Report in the Bureau Archives. This map will not be published.

FIELD INSPECTION REPORT

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. Library # 172/48

PHOTOGRAMMETRIC PLOT REPORT

See descriptive report for T-9238, Project Ph-8B(46).

COMPILATION REPORT

Stereoscopic Mapping Section Washington Office

31. Delineation:

Contours, shoreline, and all cultural features were delineated simultaneously on the Reading Plotter, Model A. Photo coverage was complete. Field inspection covered the shoreline on the sheet but was very limited in the amount of detail and information furnished; map detail is mostly of office origin.

32. Control:

Refer to descriptive report for map manuscript T-9238, side-heading No. 23, where it is stated that field selection and identification of control was very poor but that after considerable consultation with field personnel who did the work adequate stations to control the radial plot were identified. This office made a thorough study of the station identification and agrees with the Portland Office as regards the quality of the field work. However, no alteration of the plot was considered feasible and the plot was accepted.

Vertical Control was furnished primarily by the surface of the sea surrounding Cape Peirce. In addition, elevations were furnished by the field for two elevated points falling within the limits of this map, and for several other peaks located just outside. All peaks are underlined on the map layout and control sketch, page 5. Vertical Control was adequate for contouring.

33. Supplemental Data:

- a. Plotting Instrument Photographs: 20479, 480, 520, and 521 (9-lens metal mounts)
- b. Field Inspection Photographs: 20, 478, 479, 480, and 521 (9-lens field prints)
- ★ c. Graphic Control Surveys: NONE
 (1) T-3310, "West Coast of Alaska-Bering Sea-Security Cove", Explorer, R. C. Patton, 1912, 1:20,000
 - (2) T-3311 & 1?, "Alaska-West Coast, Cape Newenham to Chagvan Bay and Chagvan Bay to Goodnews Bay," Explorer, R. S. Patton, 1912, 1:20,000

* C. These surveys fall morth of T9249

大 d. Hydrographic Surveys: None

(1) H-3409, "Alaska-West Coast-Bering Sea-Cape Newenham-etc.", Explorer, R. S. Patton, 1:60,000, July-Sept. 1912.

(2) H-3410, "Alaska-West Coast-Bering Sea-Security Cove", Explorer, R. S. Patton, 1:20,000, 1912.

* These surveyes fall jost north of T9249

34. Contours and Drainage:

No particular difficulty was had with the photography other than photographic quality which could have been improved somewhat, and no areas of questionable contours exist.

35. Shoreline and Alongshore Details:

The shoreline around the Cape is very rugged and therefore very little alongshore detail was indicated by the field inspector. Field inspection showed no shoal on low water lines; shoal lines on the manuscript are plotting instrument delineated.

36. Offshore Details: Not applicable.

37. Landmarks and Aids:

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Reference form 561, page 47, in A. N. Stewart's 1948 season report No. 172, entitled, "Aerial Photograph Control and Inspection, Bristol Bay, Alaska". An elevated and isolated sharp rock was selected as the one landmark on this manuscript. It can be identified on the map since the rock was also selected as a triangulation station and named NANVAK, 1948.

38. Control for Future Surveys:

Reference side-heading No. 49 of this report, "Notes to the Hydrographer", where recoverable topo and hydro stations are listed with descriptions and number of photo on which each is identified. All stations have been located by the radial plot and are shown by symbol on the map manuscript. No additional stations were added during instrument delineation. Form 524 cards were furnished for the think topo stations located on this quadrangle. Filed in Div. Photogrammetry jeneral files.

39. Junctions:

T-9243

This map sheet joinsAT+9244 and T-9250. All junctions are in agreement.

40. Horizontal and Vertical Accuracy:

Standard. See item 66.

46. Comparison with Existing Maps:

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

47. Comparison with Nautical Charts:

Chart No. 9103, Kuskokwim Bay, 1:200,000, published Sept. 1916 (2nd Edition), last correction 21 April 1947.

48. Geographic Name List:

Piece Transplation and Cape Peires are spelled differently
49. Notes for the Hydrographer:

See separate unnumbered page, following.

50. Compilation Office Review:

See T-2.form, following.

Submitted by:

Orvis N. Dalbey
Cartographer-Photogrammetric

Approved and Forwarded:

Louis J. Reed, Chief, Stereoscopic Mapping Section

Washington Office

PHOTOGRAMMETRIC OFFICE REVIEW

T 9249

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size4.
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 stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS = Checked
ALONGSHORE AREAS (Nautical Chart Data) When the state of the checked of the chec
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Alds
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
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
BOUNDARIES
31. Boundary lines 32. Public land lines
1
MISCELLANEOUS
33. Geographic names34. Junctions35. Legibility of the manuscript36. Discrepancy
40. Reviewer 38. Field inspection photographs 39. Forms 40.
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:

0	GEOGRAPHIC NAMES Survey No. T-9249 Name on Survey	/os	Cho. Of B	C C C C C C C C C C C C C C C C C C C	of John Son Williams	So do	F Portocal Page	Page	HARD HARD HARD HARD HARD HARD HARD HARD	William K	*//
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	Bristol Bay Nanvak Bay										1
	Shaiak Island										2
	Cape Peirce										3
	Cape Tree		1. 182								4
											5
											6
											7
						2 198					8
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											27

49: NOTES FOR THE HYDROGRAPHER:

Map Manuscript T-9249

Photo Hydrographic Stations

Signal No.	Photo No.	<u>Description</u>
373	20521	Point of grass at edge of beach.
374	20521	Point of grass at edge of beach.
381	20479	Center of flat topped, just offshore rock about 2 m above MHW.
382	20479	Top of sharp rock about 5 m high and 20 m offshore.
383	20479	Top of sharp rock about 5 m high and 10 m offshore.
384	20480	Highest point of sharp rock about 3 m high and 25 m out from base of bluff.
385	20480	Highest part of end of a rocky point.
386	20480	Center of lone rock just offshore.
389	20480	Highest point of rock about 10 m high connected to bluff by lower narrow ridge. From west an arch appears underneath.
390	20480	Northwesterly of 2 points of jagged knife edge rock attached to toe of bluff and about 40 ft. high.
571	20522	Highest point of white topped rock about 20 m out from base of bluff.
572	20522	Highest and west of top of large rock about 15 m about MHW and about 7 m out from shore.
	Recoverable	Topographic Stations
BALK 1948 BARB 1948	•	FATE 1948 CART 1948

Review Report T-9249 Topographic Map October 23, 1952

- 62. Comparison with Registered Topographic Surveys .- None
- 63. Comparison with maps of other Agencies .-

Goodnews District, Alaska, 1:250,000, 1938 - USGS No discrepancies noted.

- 64. Comparison with Contemporary Hydrographic Surveys .- None
- 65. Comparison with Nautical Charts .-

See Item 47 Chart No. 9103, Kuskokwim Bay, 1:200,000, published September 1916 (2nd edition), last correction 10 October 1950. No discrepancies were noted between the map and the chart.

66. Adequacy of Results and Future Surveys.-Further field edit is not considered necessary prior to hydrographic surveys in the area.

This map complies with National Standards of Accuracy.

adequate as a base for any scale hydrographic

Reviewed by: Surveys or moutical Charts

B Colner

APPROVED

Chief, Review Section

Div. of Photogrammetry

Chief, Nautical Chart Branch

Division of Charts 65

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Sur

V

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

Ph-8A(46), PLANIMETRIC

T-9038	thru	T-9040			
9044	11	9047			
905U	11	9057		,	
9064,	-9065	,-9070			
9071,	-9074	•-9075	•		
9227	thru	9253	~		

T-	-9041	thru	T-9043
	904.8	#	9053
	9058	11	9063
	9066	17	9069
٠		,-9073	
	9076,	,-9078	3

Ph-8B(46), SHORELINE

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

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 9249

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Feb 1958	9103	L.S.S.	Before After Verification and Review 3
1-5-70	9/03	H. Radden	Aposideres odequote oppid until yerrostructed 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.