

# 9250

ORIGINAL

Diag. Chart No. T-9302

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. .... Office No. T-9250

#### LOCALITY

State Alaska

General locality Bristol Bay Area

Locality SHAIK ISLAND

194 8

CHIEF OF PARTY  
A. Newton Stewart, Chief of ~~Field~~ Party  
Div. of Photogrammetry, Washington, D. C.

LIBRARY & ARCHIVES

DATE .....

## DATA RECORD

T - 9250

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

Quadrangle Name (IV): SHAIK ISLAND

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

Photogrammetric Office (III): Portland, Ore. (Plot) Officer-in-Charge: Charles W. Clark  
Washington, D.C. Louis J. Reed, Chief,  
Stereoscopic Mapping Section

Instructions dated (II) (III):

21 April 1948 (Field)

4 February 1949 (Radial Plot)

Copy filed in Division of  
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): June 9, 1953

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): North American 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

Reference Station (III):

The difference between ~~Unadjusted~~ Datum  
and N.A. 1927 Datum is Lat. plus/minus 14 m.  
and Long. ~~plus/minus~~ 3 m.

Lat.:

Long.:

Lch

~~(Unadjusted)~~~~Adjusted~~~~(Unadjusted)~~

Plane Coordinates (IV):

State:

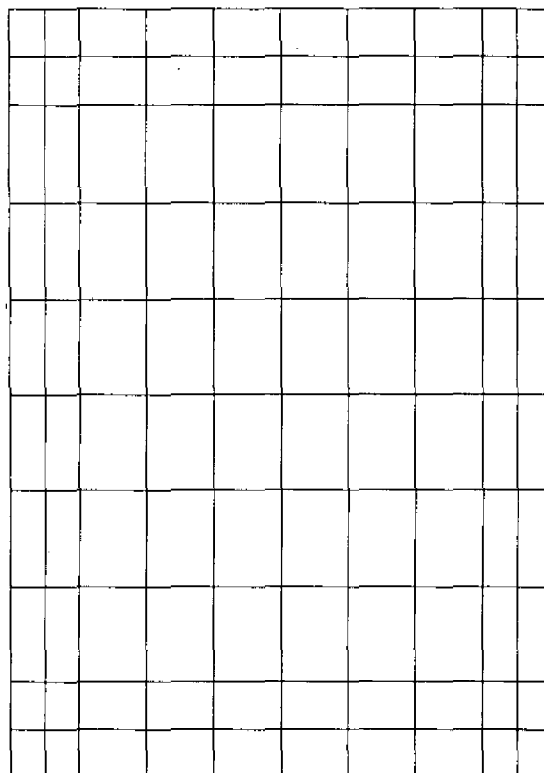
Zone:

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)

(X) (III)

Louis Levin  
and  
Clarence Misfeldt

## 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 was located during 1948 field inspection which was used as a guide during instrument delineation. Therefore, the mapped shoreline is dated 1948.

Projection and Grids ruled by (IV): Ruling Machine

Date: 6 Sept. 1949

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

Date: 6 Sept. 1949

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

Date: 14 Dec. 1949

Control checked by (III): Marie B. Elrod (Portland Office)

Date: 28 Dec. 1949

~~Radial Plot of Stereoscopic~~ James L. Harris and J.E. Deal  
~~Control extension by (III):~~ (Portland Office)

Date: 20 June 1950

Delineation  
 Stereoscopic Instrument ~~completion~~ (III):

Planimetry Louis Levin  
 and and  
 Contours Clarence E. Misfeldt

Date:

Date: 7 Sept. 1950

Compiled  
 Manuscript ~~checked by~~ (III):

John B. McDonald

Date: 15 Sept. 1950

Photogrammetric Office Review by (III): Louis J. Reed

Date: 20 Sept. 1950

Elevations on Manuscript  
 checked by (III):

Louis J. Reed

Date:

20 Sept. 1950

Camera (kind or source) (III):

			PHOTOGRAPHS (III)		
Number	Date	Time	Scale	Stage of Tide	
20478 and 20479	8/24/47	*	1:20,000	--	
20482	8/24/47	*	1:20,000	--	
23166 A	9/1/48	11:40	1:20,000	3 ft. below MSL (M L L W)	

\* Clock in camera not functioning

Tide (III)

Reference Station: Matarani, Peru  
 Subordinate Station: Goodnews Bay Entrance, Alaska  
 Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
*2.8	6.2	8.9

Washington Office Review by (IV): *B. J. Colner*\*Ratio of rise for high waters  
Date: 10/24/52Final Drafting by (IV): *M. J. Day*

Date: 3/18/53

Drafting verified for reproduction by (IV): *W. J. Colner*

Date: 3-23-53

Proof Edit by (IV): *W. J. Colner*

Date: 4/23/53

Land Area (Sq. Statute Miles) (III): 8 sq. mi.

Shoreline (More than 200 meters to opposite shore) (III): 8 miles

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

Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II): 1

Recovered: 1

Identified: 1

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 2

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

Remarks: Tide Predictions, Alaska were prepared by the Division of Tides and Currents for the more accurate predictions of tides at various points in this part of Project Ph-8. Details for T-9250 are on the reverse side of this page.

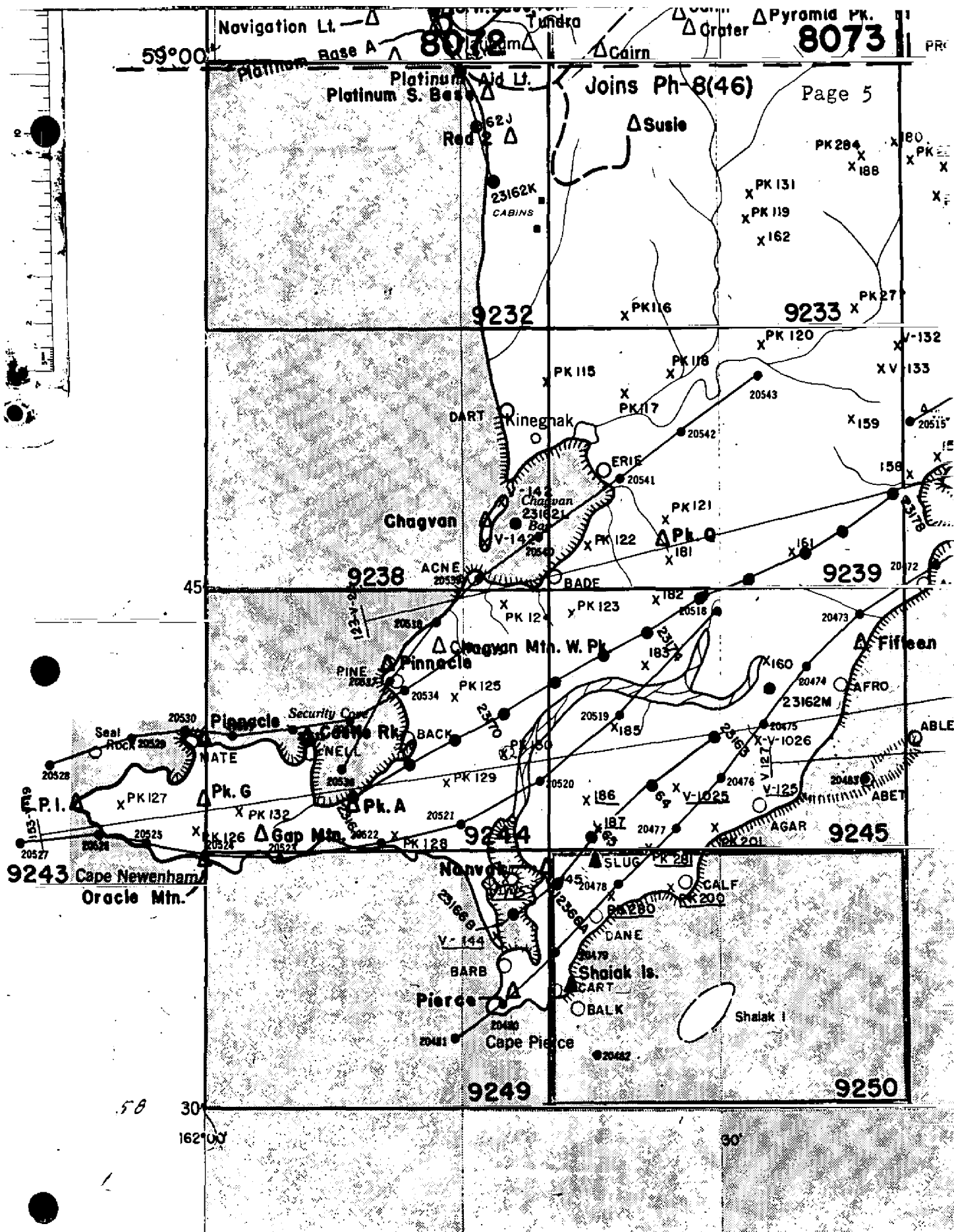


Tide Predictions, Alaska

Eristol Bay      Reference Station    Nushegak Bay  
Time Meridian    150° W

Hagemeister Island to Cape Newenham

Times of high and low waters subtract 4<sup>h</sup> 30<sup>m</sup>  
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



Summary to Accompany T-9250

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-9250 is in the southwestern portion of the project and contains Shaiak Island. It is bounded by Bristol Bay on the south and is located east of Cape Pierce.

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-8(46)B.

## COMPILATION REPORT

Stereoscopic Mapping Section  
Washington Office31. 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 along the east side of 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 (nine-lens metal mounts)
- b. Field Inspection Photographs:  
20, 478, 479, 480, and 521 (nine-lens field prints)
- c. Graphic Control Surveys: None
- d. Hydrographic Surveys: None

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 indicated the foul lines that were outlined and labeled on the manuscript.

36. Offshore Details: Not applicable.37. Landmarks and Aids:

Reference form 561, page 47, in A. N. Stewart's 1948 season report No. 172, entitled "Aerial Photograph Control and Inspection, Bristol Bay, Alaska". Two peaks were selected as landmarks and are identified on the manuscript under the names, "Peak 200 ", and triangulation station, "SHAIK ISLAND, 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. 524 cards were furnished for the two topo stations located on this quadrangle. Filed in Div. of Photogrammetry general files.

39. Junctions:

This map sheet joins T-9245, T-9249, and T-9251. All junctions are in agreement.

40. Horizontal and Vertical Accuracy:

Standard. See 64.

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:

See separate page<sup>13</sup>, following.

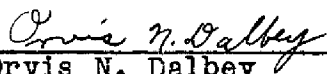
49. Notes for the Hydrographer:

See separate unnumbered page, following.

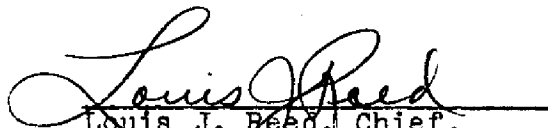
50. Compilation Office Review:

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-9250

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)

✓ = checked  
N = Non-existent

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. ☒ Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

Louis J. Reed, Chief,  
Stereoscopic Mapping Section

## 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:



# GEOGRAPHIC NAMES

Survey No.

T-9250

Name on Survey

On Chart No.  
On previous survey No.  
On U. S. quadrangle Maps  
From local information  
On local Maps  
P. O. Guide or Maps  
Rand McNally Atlas  
U. S. Light List

Page 13

	A	B	C	D	E	F	G	H	K	
<u>Bristol Bay</u>										1
<u>Shaiak Island</u>										2
										3
										4
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										27

GEOGRAPHIC NAMES  
underlined in red  
are approved.

10/24/52  
HMG

49: NOTES FOR THE HYDROGRAPHER:

Map Manuscript T-9250

Photo Hydrographic Stations

<u>Signal No.</u>	<u>Photo No.</u>	<u>Description</u>
387	20480	Highest point of rock bare about 3 m at MHW
388	20480	Rock outcrop on highest point of Shaiak Island about 300 ft. elevation.
401	20477	A lone rock about 15 ft. high 1 x 2 m on top, longest side is at right angle to shore. About 7 m off from the bluff with the base at the HWL.
407	20478	The high point on the sea side of a long offshore rock.

Recoverable Topographic Stations

CALF 1948

DANE 1948

Review Report T-9250  
Topographic Map  
October 24, 1952

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.--

See item 47

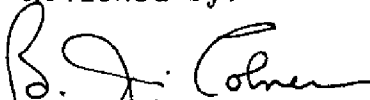
Chart No. 9103, Kuskokwim Bay, 1:200,000 published  
September 1916 (2nd edition), last correction  
10 October 1950.

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.

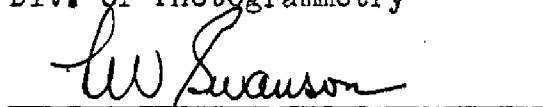
This map complies with National Map Accuracy Standards.

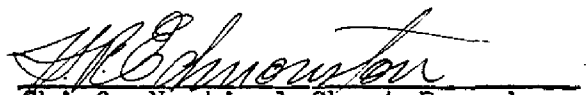
Reviewed by:

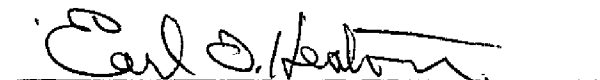
  
B. J. Colner

APPROVED

  
Chief, Review Section  
Div. of Photogrammetry

  
Chief, Div. of Photogrammetry

  
Chief, Nautical Chart Branch  
Div. of Charts 6N

  
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. 9250

### Record of Application to Charts

[illegible]

M-216B-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.