9245

Original

Diag chart Nos. 8802 & 9103

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. ...... *Office No.* T-9245

LOCALITY

State Alaska

General locality Hagemeister Straits Area

Locality S[illegible] RIVER BASIN

194 8

CHIEF OF PARTY

A. Newton Stewart-Chief of ~~Field~~ Party

~~Charles W. Clark-Chief of Radial Plot Office~~

Div. of Photogrammetry, Wash. D.C.

B-1870-1 (1)

8/21/47

9.1.1

9245

DATA RECORD

T- 9245

Project No. (II): Ph-8B(46) Quadrangle Name (IV): SLUG RIVER BASIN

Field Office (II): Bristol Bay Area 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,
Instructions dated (II) (III): 21 April 1948 (Field) Stereoscopic Mapping Sec.
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): OCT 31 1950 Date reported to Nautical Chart Branch (IV): NOV - 3 1950

Applied to Chart No. Date: Date registered (IV): 7/27/53 B. J. COLNER

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

The difference between Unadjusted Datum
and N.A. 1927 Datum is Lat. plus/~~minus~~ 15 m.
and Long. ~~plus~~/minus 2 m.
TCL

Reference Station (III):

Lat.: Long.: ~~Adjusted~~ Unadjusted

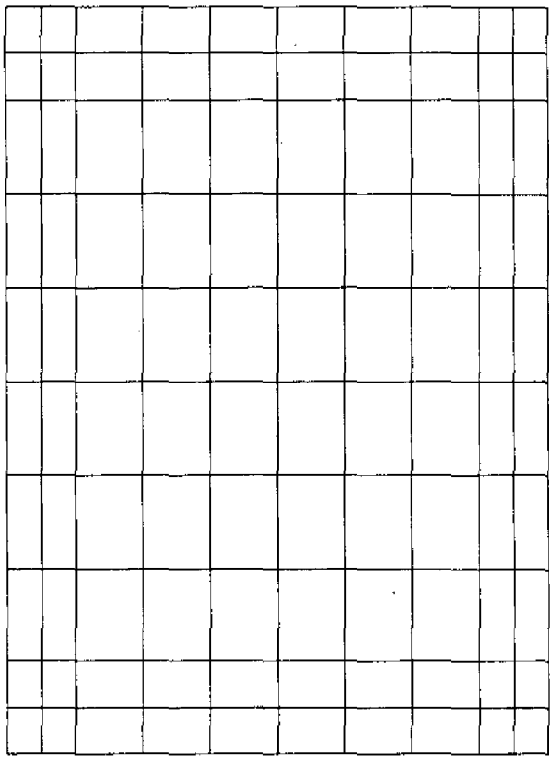
Plane Coordinates (IV): State: Zone:

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)
(I) (III)

Louis Levin
and
Clarence E. Misfeldt

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
20473 to 20477 incl.	8/24/47	*	1:20,000	
20518 to 20520 incl.	8/24/47	*	1:20,000	
23163 to 23165 incl.	9/1/48	11:45	1:20,000	[redacted] (MLLW)
23171 to 23175 incl.	9/1/48	11:50	1:20,000	[redacted] (MLLW)

* Clock in camera not functioning.

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	Spring Range
*2.8	6.2	8.9

* Ratio of rise for high waters

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

Washington Office Review by (IV): B.J. Colner Date: 11-5-52

Final Drafting by (IV): M.J. Day Date: 4/21/53

Drafting verified for reproduction by (IV): [illegible] Date: 5-5-53

Proof Edit by (IV): [illegible] Date: 6-4-53

Land Area (Sq. Statute Miles) (III): 86 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): 22 miles
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II): none
Number of Triangulation Stations searched for (II): 2 Recovered: 2 Identified: 2
Number of BMs searched for (II): none Recovered: Identified:
Number of Recoverable Photo Stations established (III): 3
Number of Temporary Photo Hydro Stations established (III): 4

Remarks: Tide Prdictions, Alaska were prepared by the Division of Tides and Currents for the more accurate prediction of tides at various points in this part of the project. Details for T-9245 are on the reverse side of this page.

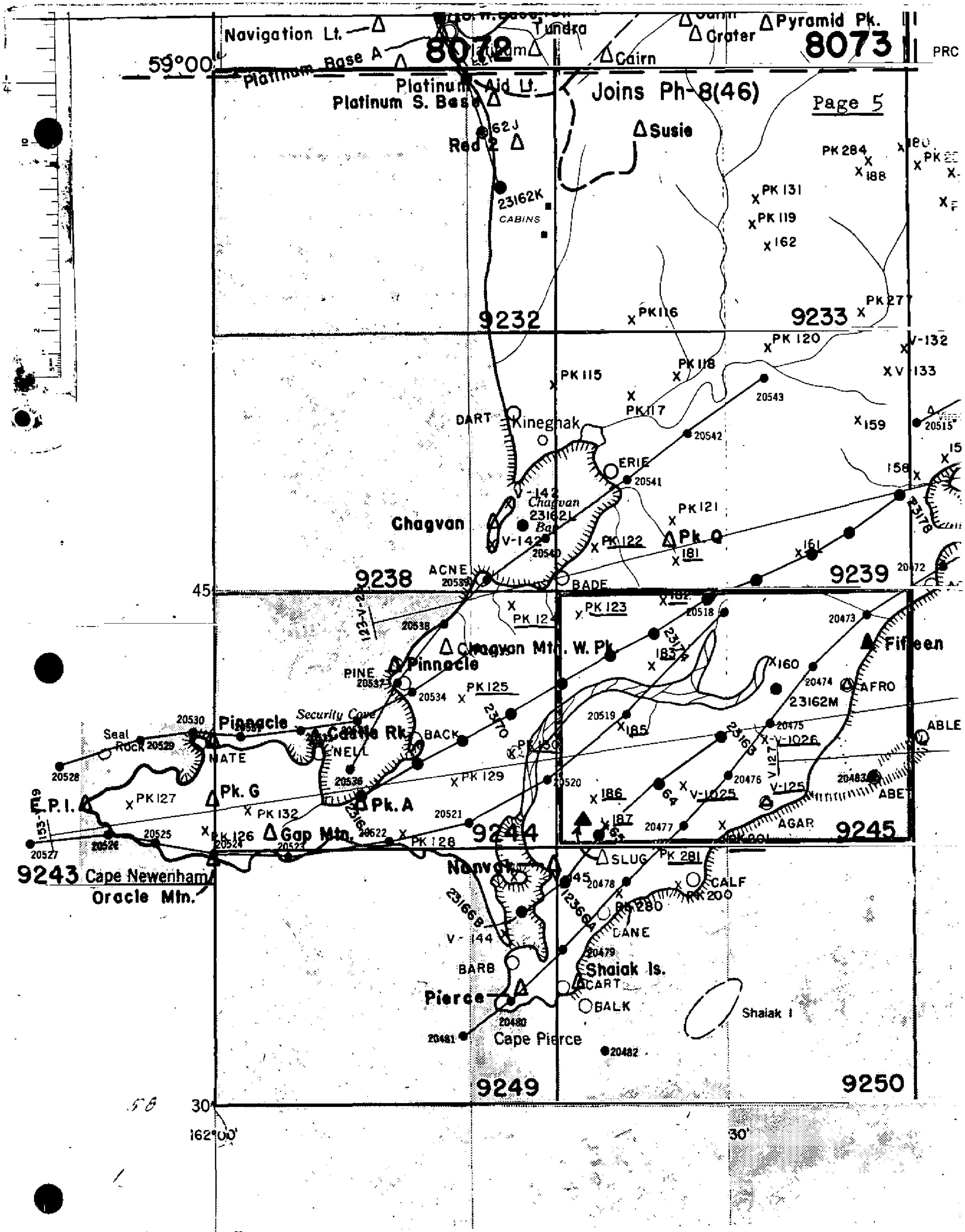
M-2618-12(4)

Bristol Bay

Reference station Nushagak Bay
Time meridian 150°W

Hagemeister Island to Cape Newenham:

Times of high and low waters subtract 4^h30^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



Page 5
Joins Ph-8(46)
8072
8073
PRC
59°00'
Navigation Lt.
Platinum Base A
Tundra
Crater
Pyramid Pk.
Cairn
Platinum Aid Lt.
Platinum S. Base
Susie
Red 2
23162K
CABINS
PK 284
PK 131
PK 119
162
188
9232
9233
PK 116
PK 27
PK 120
V-132
V 133
PK 115
PK 118
PK 117
20543
DART
Kineghak
20542
159
20515
ERIE
20541
158
V-142
Chagvan Bay
23162L
PK 121
Chagvan
V-142
20540
PK 122
Pk. Q
181
161
23178
ACNE
20539
9238
BADE
9239
20472
45
123-V-2
20538
PK 124
PK 123
182
20518
20473
Chagvan Mtn. W. Pk.
183
Fifteen
Pinnacle
PINE
20537
20534
PK 125
160
20474
AFRO
23162M
20530
Pinnacle
Security Cove
Castle Rk.
BACK
23170
20519
185
20475
ABLE
Seal Rock
20529
NATE
NELL
V-1026
23163
V 127
20528
20536
PK 129
20520
20476
20483
ABET
V-125
E.P.I.
153-V-19
PK 127
Pk. G
Pk. A
PK 132
186
64
V-1025
20521
AGAR
187
20477
20525
PK 126
Gap Mtn.
20622
PK 128
9244
9245
20527
20526
20524
20523
SLUG
PK 281
9243
Cape Newenham
Oracle Mtn.
Nanvak
45
20478
CALF
PK 280
PK 200
23166B
23166A
DANE
V-144
20479
BARB
Shaiak Is.
CART
Pierce
BALK
Shaiak I
20480
20481
Cape Pierce
20482
9249
9250
30
162°00'
30'

Summary to Accompany T-9245

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-9245 is in the southwestern portion of the project and is bounded by Bristol Bay and Hagemeister Strait on the south and contains Asigyugpak Spit.

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 Office

31. Delineation:

Contours, shoreline, and all cultural features were delineated simultaneously on the Reading Plotter, Model A. Photo coverage was complete. Shoreline inspection was quite complete.

32. Control:

The radial plot report (Plot No. 3) 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. Actually, only two horizontal control stations exists within the area of this manuscript; SLUG, 1948, and FIFTEEN, 1948.

Vertical Control was furnished primarily by the surface of the sea. In addition, elevations were furnished by the field party for 12 elevated points falling within the limits of this map, and for several other peaks located just outside. Vertical control was adequate for contouring.

33. Supplemental Data:

a. Plotting Instrument Photographs:
20473, 4, 5, 6, 7, 23170, 72, and 74 (9-lens metal mounts).

b. Field Inspection Photographs:
20473, 74, 75, 76, 77, and 83 (9-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:

Field inspection was adequate. Foul lines shown on the manuscript are instrument delineated using field inspection as a guide.

36. Offshore Details: Not applicable.

37. Landmarks and Aids:

One landmark was field-selected and recommended to be shown on the map; reference form 561, page 47, in A. N. Stewart's 1948 season report No. 172, "Aerial Photograph Control and Inspection, Bristol Bay, Alaska". This landmark is the peak in the SW corner of the map manuscript on which triangulation SLUG, 1948, is located.

38. Control for Future Surveys:

Reference side-heading No. 49 of this report, "Notes to the Hydrographer", where recoverable topo stations are listed. All have been located by the radial plot and are shown by name and symbol on the map manuscript. 524 cards were furnished for the three topo stations located on this quadrangle (plus ABLE, 1948, on T-9246). Three hydro stations were also selected and are shown by symbol and number. Filed in Div. of Photogrammetry general files.

39. Junctions:

This map sheet joins T-9239, T-9244, T-9246 and T-9250. All junctions are in agreement.

40. Horizontal and Vertical Accuracy:

Standard. See 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:

See ~~separate~~ page 13, following.

49. Notes for the Hydrographer:

See separate unnumbered page, following.

50. Compilation Office Review:

See T-2 form, following.

Submitted by:

Orvie N. Dalbey

Orvie N. Dalbey
Cartographer-Photogrammetric

Approved and Forwarded:

Louis J. Reed

Louis J. Reed, Chief,
Stereoscopic Mapping Section
Washington Office

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9245

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 N

9. Plotting of sextant fixes N 10. Photogrammetric plot report ✓ 11. Detail points N

✓ = checked
N = non-existant

ALONGSHORE AREAS
(Nautical Chart Data)

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

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 ✓

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 ✓ 39. Forms ✓

40. _____ Reviewer

Louis J. Reed, Chief, Supervisor, Review Section or Unit
Stereoscopic Mapping Section

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

GEOGRAPHIC NAMES

Survey No.

T-9245

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Maps	G Rand McNally Atlas	H U. S. Light List	K	
Bristol Bay			(for title)							1
Hagemeister Strait										2
Slug Mountain										3
Slug River										4
Asigyugpak Spit										5
										6
										7
				Names underlined in red are approved. 11-3-52 L. Heck						8
										9
										10
										11
										12
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										14
										15
										16
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										19
										20
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										23
										24
										25
										26
										27

M 234

49: NOTES FOR THE HYDROGRAPHER:

Map Manuscript T-9245
Photo Hydrographic Stations

Signal No.	Photo No.	Description
300	20476	Point at top of bluff on northeast side of draw mouth.
301	20476	Point at top of bluff on southwest side of draw mouth.
302	20476	Point at top of bluff on southwest side of draw mouth.

Recoverable Topographic Stations

AGAR 1948
ABET 1948
AFRO 1948
ABLE 1948 (East of T-9245)

Review Report T-9245
Topographic Map
November 5, 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 Sept. 1916 (2nd edition), last correction 10 October 1950. There are no significant differences between T-9245 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~~ project instructions and is adequate as a base for any scale hydrographic surveys or nautical charts.

Reviewed by:

B. J. Colner

APPROVED

L C Lundy 11/23/54
Chief, Review ~~Section~~ Branch
Div. of Photogrammetry

Chief, Nautical Chart Branch
Div. of Charts

Chief, Div. of Photogrammetry

Div. of Coastal Surveys

1/12/55

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.9245

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Feb. 1958	9103	L.S.S.	~~Before~~ After Verification and Review
12-29-69	9103	H. Ladden	Checked elev. No Corr. Considered adequate for present. Before After Verification and Review (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

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.