**U.S. COAST AND GEODETIC SURVEY**
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td></td>
</tr>
<tr>
<td>Office No.</td>
<td>T-9245</td>
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</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Seward-Sister Straits Area</td>
</tr>
<tr>
<td>Locality</td>
<td>SUNG RIVER BASIN</td>
</tr>
</tbody>
</table>

**1943**

**CHIEF OF PARTY**

A. Newton Stewart-Chief of Field Party

**DATE**

Jan 14, 1955
DATA RECORD

T - 9245

Project No. (II): Ph-8B(16) Quadrangle Name (IV): SLUG RIVER BASIN

Field Office (I): 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, Stereoscopic Mapping Sec.
Instructions dated (II) (III): 21 April 1946 (Field) Copy filed in Division of
4 February 1949 (Radial Plot) Photogrammetry (IV)
Office Files

Method of Compilation (III): Reading Plotter
Manuscript Scale (II) (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): 1:20,000
Scale Factor (III): 1:1

Date received in Washington Office (V): 31 NOV 1950 Date reported to Nautical Chart Branch (IV): 8 NOV 1950

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

Publication Scale (IV):
Publication date (IV):


Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (1) 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 Zero, plus/minus 15

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.
Areas contoured by various personnel
(Show name within area)

Louis Levin
and
Clarence E. Misfeldt
Camera (kind or source) (III):

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tbody>
<tr>
<td>20473 to 20477</td>
<td>incl. 8/24/47</td>
<td>8</td>
<td>1:20,000</td>
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<tr>
<td>20518 to 20520</td>
<td>incl. 8/24/47</td>
<td>9</td>
<td>1:20,000</td>
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<tr>
<td>23163 to 23165</td>
<td>incl. 9/1/48</td>
<td>11:45</td>
<td>1:20,000</td>
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<tr>
<td>23171 to 23175</td>
<td>incl. 9/1/48</td>
<td>11:50</td>
<td>1:20,000</td>
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</tbody>
</table>

* Clock in camera not functioning.

Tide (III)

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

Washington Office Review by (IV): B. J. Colmer
Final Drafting by (IV): M. J. Day
Drafting verified for reproduction by (IV): J. W. Allan
Proof Edit by (IV): J. W. Allan

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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</thead>
<tbody>
<tr>
<td>2.8</td>
<td>6.2</td>
<td>8.0</td>
</tr>
</tbody>
</table>

* Ratio of rise for high waters

Date: 4/5/53
Date: 5-5-53
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 (III): none

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

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

Number of Recoverable Photo Stations established (III): 3
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 prediction of tides at various points in this part of the project. Details for T-9245 are on the reverse side of this page.
Bristol Bay

Reference station Nushagak Bay
Time meridian 150°W

Hagemeister Island to Cape Newenham:

Times of high and low waters subtract 4h30m
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-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 Asiguyupak Spit.

The map manuscript consists of one sheet, 7 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

PHOTOGRAHMERIC 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-9250. All junctions are in agreement.

40. **Horizontal and Vertical Accuracy:**

Standard. See 44.

46. **Comparison with Existing Maps:**


47. **Comparison with Nautical Charts:**


48. **Geographic Name List:**

See separate page, 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. 9245


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 ✔

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines ✔ 32. Public land lines ✔

MISCELLANEOUS

40. ____________________________
Supervisor

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.

43. Remarks:

Compiler ____________________________

Supervisor ____________________________

M-2623-12
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bristol Bay</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hagemeister Strait</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slug Mountain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asiyungpak spit</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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*Names underlined in red are approved.*

11-3-52

C. Heckt
<table>
<thead>
<tr>
<th>Signal No.</th>
<th>Photo No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>300</td>
<td>20476</td>
<td>Point at top of bluff on northeast side of draw mouth.</td>
</tr>
<tr>
<td>301</td>
<td>20476</td>
<td>Point at top of bluff on southwest side of draw mouth.</td>
</tr>
<tr>
<td>302</td>
<td>20476</td>
<td>Point at top of bluff on southwest side of draw mouth.</td>
</tr>
</tbody>
</table>

Recoverable Topographic Stations

<table>
<thead>
<tr>
<th>AGAR 1948</th>
<th>AFRO 1948</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABET 1948</td>
<td>ABLE 1948 (East of T-9245)</td>
</tr>
</tbody>
</table>
62. Comparison with Registered Topographic Surveys.— None

63. Comparison with Maps of other Agencies.—

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, adequate as a base for any scale hydrographic surveys or nautical charts.

Reviewed by:

[Signature]
E. J. Glower

APPROVED

[Signature]
L. C. Landy 11/23/54
Chief, Review Section Branch
Div. of Photogrammetry

[Signature]
K. W. Edmonston
Chief, Nautical Chart Branch
Div. of Charts

[Signature]
P. W. Buxton
Chief, Div. of Photogrammetry

[Signature]
J. S. Houston
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
  9041, 9042, 9043, 9044, 9045, 9046, 9047
  9051, 9052, 9053, 9054, 9055, 9056, 9057
  9061, 9062, 9063, 9064, 9065, 9066, 9067
  9071, 9072, 9073, 9074, 9075, 9076, 9077
  9227 thru 9253

Ph-8A(46), PLANIMETRIC

T-9041 thru T-9043
  9044, 9045, 9046, 9047, 9048
  9054, 9055, 9056, 9057, 9058
  9064, 9065, 9066, 9067, 9068
  9074, 9075, 9076, 9077, 9078

Ph-8B(46), SHORELINE

T-8873 (E&W) and T-8874
**NAUTICAL CHARTS BRANCH**

**SURVEY NO. T. 9245**

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
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<tbody>
<tr>
<td>Feb. 1958</td>
<td>9103</td>
<td>L. S. S.</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>12.94.69</td>
<td>9103</td>
<td>H. Radder</td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

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.