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

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
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<tbody>
<tr>
<td>Field No.</td>
<td>Office No. T-9250</td>
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**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
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<tr>
<td>General locality</td>
<td>Bristol Bay Area</td>
</tr>
<tr>
<td>Locality</td>
<td>SHAIK ISLAND</td>
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</tbody>
</table>

**CHIEF OF PARTY**

<table>
<thead>
<tr>
<th>J. Newton Stewart, Chief of Field Party</th>
</tr>
</thead>
</table>

**LIBRARY & ARCHIVES**

**DATE**
DATA RECORD

T - 9250

Project No. (II): Ph-50(46) Quadrangle Name (IV): SHAIAK 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
Instructions dated (II) (III):

21 April 1948 (Field)
4 February 1949 (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): 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

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2m) refer to mean high water
Elevations shown as (2m) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):
Lat.: Long.

Plane Coordinates (IV):

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 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 Control (III): James L. Harris and J.E. Deal (Portland Office) Date: 20 June 1950

Delineation Stereoscopic Instrument Compilation (III): Planimetry Louis Levin and Contours Clarence E. Misfeldt Date: 7 Sept. 1950

Compiled Manuscript 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
PHOTOGRAPHS (III)

<table>
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<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>20478</td>
<td>8/24/47</td>
<td>*</td>
<td>1:20,000</td>
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<td>20479</td>
<td>8/24/47</td>
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<td>20482</td>
<td>8/24/47</td>
<td>11:40</td>
<td>1:20,000</td>
<td>3 ft. below MSL</td>
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<tr>
<td>23166 A</td>
<td>9/1/48</td>
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<td>(M L L W)</td>
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</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. Colner
Final Drafting by (IV): M.J. Day
Drafting verified for reproduction by (IV): J.L. Zuehlke
Proof Edit by (IV): W.H. Stricklin

Ratio of Ranges: 2.8
Mean Range: 6.2
Spring Range: 8.9

*Ratio of rise for high waters
Date: 10/24/52

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
<td>2.8</td>
<td>6.2</td>
<td>8.9</td>
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</tbody>
</table>

Date: 1/8/53

Date: 3/23-53

Date: 1/23 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
Number of Recoverable Photo Stations established (III): 2
Recovered: 2
Identified: 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

Bristol Bay Reference Station Nushagak Bay
Time Meridian 150° W

Hagemeister Island to Cape Nevenham

Times of high and low waters subtract 4h 30m
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 Shalak Island. It is bounded by Bristol Bay on the south and is located east of Cape Pierce.

The map manuscript consists of one sheet, 7½ 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 and the compilation scale will be registered with the Descriptive Report in the Bureau Archives. This map will not be published.
FIELD INSPECTION REPORT

PHOTOGRAVMETRIC 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. 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 Flirce. 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:**

- **Plotting Instrument Photographs:**
  20479, 480, 520, and 521 (nine-lens metal mounts)

- **Field Inspection Photographs:**
  20478, 479, 480, and 521 (nine-lens field prints)

- **Graphic Control Surveys:** None

- **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, "SHAIAK 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. 50' ± 4'.

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-9250


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. [Signatures]

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:
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<tr>
<th>Name on Survey</th>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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**GEOGRAPHIC NAMES**

Underlined in red are approved.

10/20/52

H.C.
### Notes for the Hydrographer:

**Map Manuscript T-9250**

**Photo Hydrographic Stations**

<table>
<thead>
<tr>
<th>Signal No.</th>
<th>Photo No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>387</td>
<td>20480</td>
<td>Highest point of rock bare about 3 m at MHW</td>
</tr>
<tr>
<td>388</td>
<td>20480</td>
<td>Rock outcrop on highest point of Shaiak Island about 300 ft. elevation.</td>
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<tr>
<td>401</td>
<td>20477</td>
<td>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.</td>
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<tr>
<td>407</td>
<td>20478</td>
<td>The high point on the sea side of a long offshore rock.</td>
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</table>

**Recoverable Topographic Stations**

- CALF 1948
- DANE 1948
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. Goliner

APPROVED

[Signatures of approving officials]

[Footer information]
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

<table>
<thead>
<tr>
<th>T-9038 thru T-9040</th>
<th>T-9041 thru T-9043</th>
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<tbody>
<tr>
<td>9041</td>
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<td>9227 thru</td>
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Ph-8A(46), PLANIMETRIC

| T-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

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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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>
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<td>1-5-70</td>
<td>9103</td>
<td>H. Rudder</td>
<td>Considered adequate until reconstructed</td>
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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.