Diagram Cht. Nos. 8802 & 9103

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></td>
<td>T-9234</td>
</tr>
<tr>
<td>Field No.</td>
<td>pH-SB (46)</td>
</tr>
<tr>
<td></td>
<td>T-9235</td>
</tr>
<tr>
<td></td>
<td>T-9236</td>
</tr>
</tbody>
</table>

LOCALITY

State: Alaska

General locality: Bristol Bay Area

Locality: T-9234 - UPPER Osviak River
T-9235 - NORTH TONGUE POINT
T-9236 - CENTRL WEST SHORE Osviak Bay

CHIEF OF PARTY

A. Newton Stewart, Chief of Field Party
Charles W. Clark, Chief Portland Photo. O.
Division of Photogrammetry, Washington, D.C.
LIBRARY & ARCHIVES

DATE: MARCH 24, 1955
DATA RECORD

T-9234, T-9235, and T-9236

T-9234 = UPPER OSVIAK RIVER
T-9235 = NORTH TONGUE POINT
T-9236 = CENTRAL WEST SHORE
TOGIKAY BAY

Chief of Party: A. Newton Stewart
Officer-in-Charge: Charles W. Clark
Copy filed in Division of Photogrammetry (IV)

Bartland Photo. O. Washington, D.C.

Instructions dated (II): 4 Feb 49 (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): JUN 26 1951

Date registered (IV): 1-28-55

Date reported to Nautical Chart Branch (IV): JUN 29 1951

Applied to Chart No.

Publication Scale (IV): NA 1927 (unadjusted)

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (G) 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 13 ft.
and Long. plus/minus 6 ft.

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)

T-9234 : 100% by Orvis N. Dalbey
T-9235 : 10% by Orvis N. Dalbey (SW corner)
         90% by Louis Levin
T-9236 : 100% by Louis Levin
DATA RECORD

Field Inspection by (II): A. Newton Stewart Date: 1947-48

Planetable contouring by (II): None

Completion Surveys by (II): None

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

MHWL established by field methods in 1947-48.

Projection and Grids ruled by (IV): Theodore L. Janson Date: 9 Sep 50
   (Ruling Machine)
Projection and Grids checked by (IV): Howard D. Wolfe Date: 11 Sep 50
Control plotted by (III): James L. Harris Date: 25 Sep 50

Control checked by (III): Carita Wiebe Date: 25 Sep 50

Radial Plot compilation by (III): James L. Harris and J. Edward Deal Date: 21 Dec 50

Delineation by Stereoscopic Instrument (III):
   Planimetry and Contours
   Orvis N. Dalbey and Louis Levin Date: 20 Apr 51

Compilation Manuscript checked by (III):
   John B. McDonald and
   Frank J. Lesslie Date: 25 June 51

Photogrammetric Office Review by (III):
   Louis J. Reed Date: 31 May 51

Elevations on Manuscript checked by (III): Louis J. Reed Date: 25 June 31 May 51
Camera (kind or source) (III): USC&GS 9-lens camera, model B, f = 8.25 inches

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>20469</td>
<td>24 Aug 47</td>
<td>*</td>
<td>20,000</td>
<td></td>
</tr>
<tr>
<td>thru</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20469</td>
<td></td>
<td></td>
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<tr>
<td>20505</td>
<td>24 Aug 47</td>
<td>*</td>
<td>20,000</td>
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<tr>
<td>thru</td>
<td></td>
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<tr>
<td>20515</td>
<td></td>
<td></td>
<td></td>
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</table>

* Camera clock not functioning.

Tide (III)

Reference Station: Nushagak Bay
Subordinate Station: Black Rock, Walrus Islands

Washington Office Review by (IV): G. B. Willey
Final Drafting by (IV): J. J. Colner
Drafting verified for reproduction by (IV): W. H. Hallim T-9234
Proof Edit by (IV):

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tr>
<td></td>
<td>15° 20'</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>6° 10'</td>
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</table>

Date: 11 June 1952
4 Feb 1953
2/3/54 - (9235)
3/3/54 - (9236)
2/15/54 - (9234)
6-10-54
6-23-54

Land Area (Sq. Statute Miles) (III):
See table below

<table>
<thead>
<tr>
<th>AREA</th>
<th>SHORELINE</th>
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<tbody>
<tr>
<td>T-9234 = 48 sq mi</td>
<td>0.0 miles</td>
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<tr>
<td>T-9235 = 71 sq mi</td>
<td>10.5 miles</td>
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<tr>
<td>T-9236 = 10 sq mi</td>
<td>6.5 miles</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>169 sq mi</td>
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</tbody>
</table>

Remarks:

Bristol Bay
Hagemeister I. to C. Nurnham

Times of high and low waters subtract 4 30'.
Heights of high waters multiply by ratio 0.55.
Heights of low waters multiply by 0.85.
Subtract 60 ft to refer heights to MSL.

Later tide information available.
Summary to Accompany T-9234 and T-9235

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-9234 contains the upper portion of the Osviak River. There is no photographic coverage in most of the western and northern areas of the sheet. T-9235 borders on Togiak Bay and Hagemeister Strait and contains the north part of Tongue Point.

Each 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 clothbacked lithographic print of each map at the compilation scale will be registered with the combined descriptive report in the Bureau Archives. These maps will not be published.
Ph-8(46) is a topographic map project consisting of 45 maps extending from Nushagak Peninsula to Cape Newenham and north to Goodnews Bay, including the offshore islands, along the northern shore of Bristol Bay, Alaska. Ph-8(46)A consists of 23 planimetric maps covering the area from Egegik Bay to Nushagak Bay including Kvichak Bay, Alaska. Ph-8(46)B consists of 2 shoreline surveys. The hydrography has not been completed in the area of the topographic maps.

T-9236 covers the central West Shore of Togiak Bay, off Bristol Bay, Alaska, extending from Latitude 58° 52' -50" to 59° 00' and from Longitude 160° 40', at a scale of 1:20,000. Planimetry and contours were delineated on the Reading Plotter using photographs taken in 1947. The field inspection, consisting of the identification of control, selection of topographic and hydrographic station sites, establishment of vertical control and partial shoreline inspection, was accomplished in 1947 and 1948.

A cloth-backed lithographic print of this map at the compilation scale and the descriptive report will be registered in the Bureau Archives. These maps will not be published. The vinylite manuscript and a copy of the Descriptive Report will be filed in the Division of Photogrammetry.
FIELD INSPECTION REPORT
Map Manuscript No. T-9235, 36, 34
Project Ph-8(46)B


PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-9235
Project Ph-8(46)B

See Descriptive Report for T-9227, Project Ph-8(46)B.
COMPILATION REPORT

31. Delineation:

Contours and all cultural features were delineated simultaneously on the Reading Plotter, model B. Photo coverage was complete and shoreline inspection was adequate. Manuscript T-9234 was not completely mapped, only the SE half having photo coverage, but the entire land area of the other two manuscripts of this report has been delineated, T-9235 and T-9236.

32. Control:

Horizontal control status is discussed in side-heading 23 of the radial plot report, page 9, in the descriptive report to accompany manuscript T-9227. Vertical control for contouring purposes was furnished by a combination of sealevel along the shoreline and elevations on inland peaks as shown on the control sketch, page 9, of this report. Vertical control was adequate.

33. Supplemental Data:

a. Plotting instrument photos (metal-mounted):
   20463 thru 20469, and 20506 thru 20515.

b. Field inspection photos:
   20463 thru 20469, and 20506 thru 20515.

c. Graphic Control surveys: None

d. Hydrographic surveys: None

e. Vertical angle computations:
   One bound volume entitled, "Tabulation of elevations and computations of elevations by map manuscripts for vertical control stations in the area of map manuscripts T-9227, T-9229, T-9230, T-9234, T-9235, T-9236, T-9240, and T-9241(northern half), Project Ph-88(46)."

34. Contours and Drainage:

The photographic quality of the instrument photos was satisfactory for contouring use and no areas of questionable contours remain.

35. Shoreline and Alongshore Details:

Shoreline inspection was quite adequate and details have been incorporated into the resulting manuscripts. Foul lines have been compiled directly from field inspection with none instrument delineated.
36. **Offshore Details:**

Rocks and ledges shown within foul areas are instrument located and symbolized. When hydrographic operations are initiated in this area these symbols may be changed under closer scrutiny.

37. **Landmarks and Aids:**

Reference field inspection reports listed on page 7.

38. **Control for Future Surveys:**

a. **Photo-hydro stations:**

   Number 170, 303, and 304 are on manuscript T-9235, and 305 and 306 are on T9236. All five were identified in the field and have been located by radial plot. There is no shoreline on T-9234 and therefore no hydro stations exist.

b. **Photo-topo stations:**

   Four such stations were field located and identified, and they have been positioned on the manuscripts by the radial plot. None exist on T-9234, but POOL 1947, ROCK 1947, and RUTH 1947 are to be found on T-9235, and VETO 1947 is on T-9236.

39. **Junctions:**

Junction matches have been made wherever contemporary manuscripts of this project exist. This includes all match-edges except the north and west edges of T-9234 where no compilation is being produced at this time. All junctions are in agreement.

40. **Horizontal and Vertical Accuracy:**

Standard.

41. **Comparison with Existing Maps:** None exist.

47. **Comparison with Nautical Charts:** None exist.

48. **Geographic Name List:**

See separate numbered page following.

49. **Notes for the Hydrographer:**

See separate unnumbered page following.
50. Compilation Office Review:

See T-2 form, numbered page, following.
<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>
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<tbody>
<tr>
<td>T-9234</td>
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<td>1</td>
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<td>Osviak River</td>
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<tr>
<td>Aeolus Mountain</td>
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<tr>
<td>Hagemeister Strait</td>
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<td>Togiak Bay</td>
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<td>13</td>
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</table>

Names approved 6-10-53, L. Heck

Names underlined on 10-29-53, L. Heck
49. Notes for the Hydrographer:

T-9234
None.

T-9235
(a) Photo-Hydro Stations:

<table>
<thead>
<tr>
<th>Number</th>
<th>Photo</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>170</td>
<td>14688</td>
<td>A 2&quot; x 12&quot; plank projecting 7 ft, directly in front of a small pond, and on the edge of the grass line.</td>
</tr>
<tr>
<td>303</td>
<td>20464</td>
<td>Upper tip of highest of all yellow scars on face of bluff about 80 ft high.</td>
</tr>
<tr>
<td>304</td>
<td>20464</td>
<td>Pinnacle rock on NE side of point of land, about 10 ft above MHW. Will not see to SW.</td>
</tr>
</tbody>
</table>

(b) Recoverable Topo Stations:


T-9236
(a) Photo-Hydro Stations:

<table>
<thead>
<tr>
<th>Number</th>
<th>Photo</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>305</td>
<td>20464</td>
<td>A lone rock at about MLW line.</td>
</tr>
<tr>
<td>306</td>
<td>20464</td>
<td>The highest point of a rock with a rounded top, the NE end of the top, an estimated height of 10 ft above MHW. The rock is about 3/4 mile offshore and it is the only rock above MHW that is any where near this offshore distance anywhere along this entire shore.</td>
</tr>
</tbody>
</table>

(b) Recoverable Topo Stations:

VETO 1947.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9234, 5, 6.

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)
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 alongshore cultural features ✓

PHYSICAL FEATURES
20. Water features ✓
21. Natural ground cover ✓
22. Planetary 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

Louis Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

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

Superior

M.2522.12

43. Remarks:
62. Comparison with Registered Topographic Surveys:
   None.

63. Comparison with Maps of Other Agencies:
   None.

64. Comparison with Contemporary Hydrographic Surveys:
   None.

65. Comparison with Nautical Charts:
   Chart 8802 1:1,023,188 Scale 17th Edition (1944) 51-6/11
   No discrepancies are to be noted.

66. Adequacy of Manuscript:
   This topographic map complies with Bureau standards and
   with project instructions.
   These maps are considered adequate as a basis for
   hydrographic survey and the construction of
   nautical charts.

Reviewed by:

Gordon B. Willey

Approved by:

L. C. Landry 1 Feb 1955
Chief, Review Section
Division of Photogrammetry

Wallace A. Bruder
Acting Chief, Nautical Chart Branch
Division of Charts GPO

M. A. Ricketts
Chief, Div. of Photogrammetry

Earl O. Neat
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(h6), Ph-8A(h6), and Ph-8B(h6), 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:

<table>
<thead>
<tr>
<th>Ph-8(h6), TOPOGRAPHIC</th>
<th>Ph-8A(h6), PLANIMETRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-9038 thru T-9040</td>
<td>T-9041 thru T-9043</td>
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<tr>
<td>9044</td>
<td>9047</td>
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<tr>
<td>9054</td>
<td>9057</td>
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<tr>
<td>9064, 9065, 9070</td>
<td>9058</td>
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<tr>
<td>9071, 9074, 9075</td>
<td>9066</td>
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<tr>
<td>9227 thru 9253</td>
<td>9069</td>
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</table>

Ph-8B(h6), SHORELINE

T-8873 (E&W) and T-8874
# Record of Application to Charts

<table>
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<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>1958</td>
<td>9103</td>
<td>L. S. S.</td>
<td>Nothing used; Before    After    Verification and Review</td>
</tr>
<tr>
<td>12-24-69</td>
<td>9103</td>
<td>H. Rodde</td>
<td>Considered adequate, applied/reconstructed; 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.
### Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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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.
### NAUTICAL CHARTS BRANCH

**SURVEY NO. 7.9236**

Record of Application to Charts

<table>
<thead>
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<th>DATE</th>
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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.