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

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
</tr>
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<tbody>
<tr>
<td>Field No.</td>
<td>Ph-8 (46)</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-9243</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>CAPE NENENHAM</td>
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</tbody>
</table>

**1948**

**CHIEF OF PARTY**

A.N. Stewart, Chief of Field Party
C.W. Clark, Portland Photogrammetric Office

**LIBRARY & ARCHIVES**

DATE **March - June, 11-1953**
DATA RECORD

T - 9243

Project No. (II): Ph-8 (46)  Quadrangle Name (IV): CAPE NEWENHAM

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

Photogrammetric Office (III): Portland, Oregon  Officer-in-Charge: Charles W. Clark  Louis J. Reed, Chief

Radial Plot)  Stereoscopic Mapping Sec.

Washington, D.C.  Copy filed in Division of

Instructions dated (II) (III):  Photogrammetry (IV)

4 February 1949
21 April 1948 (Field)

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): 8-30 50 Date reported to Nautical Chart Branch (IV): Sept 1950

10 Apr

Date registered (IV): 1953

Applied to Chart No.  Date: Publication Scale (IV):

Publication date (IV):


Mean sea level except as follows:

Elevations shown as (±) refer to mean high water

Elevations shown as (±) 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 17.0

and Long. minus 2.0

Reference Station (III):

Lat.: Long.: Adjusted

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)

Clarence E. Misfeldt
and
Louis Levin
Camera (kind or source) (III): USC&GS, 9-lens, Camera B, f of 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>20524</td>
<td>24 August 1947</td>
<td>*none</td>
<td>1:20,000</td>
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<tr>
<td>thru 20530</td>
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</tr>
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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. Calmer
Final Drafting by (IV): M.J. Bay
Drafting verified for reproduction by (IV): W.L. Hallum
Proof Edit by (IV): *W.F. Wiedler*

Land Area (Sq. Statute Miles) (III): 14 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): 19 miles
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II): (III) none
Number of Triangulation Stations searched for (II)(III) 4
Number of BMs searched for (II): (III) none
Number of Recoverable Photo Stations established (III): 5
Number of Temporary Photo Hydro Stations established (III): 21

Remarks:
Summary to Accompany T-9243

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-9243 is the most westerly map of the project and is bounded by Bristol Bay on the South and Kuskokwim Bay on the north and is located West of Security Cove.

The map manuscript consists of one sheet, 8 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

2-20

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

FIELD INSPECTION REPORT

2-20

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.
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, sideheading 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 surrounding Cape Newenham. In addition, elevations were furnished for four peaks that are indicated on the Map Layout and control sketch, page 5. Vertical control was adequate for contouring.

33. **Supplemental Data:**

a. Plotting Instrument Photographs:
   20524 thru 20531 (9-lens metal-mounts)

b. Field Inspection Photographs:
   20522 thru 20533 (9-lens field prints)

c. **Graphic Control Surveys:**


   (2) T-3311 & 12, "Alaska-West Coast, Cape Newenham to Chagvan Bay and Chagvan Bay to Goodnews Bay", Explorer, R. S. Patton, 1912, 1:20,000.

d. **Hydrographic Surveys:**

   (1) H-3409, "Alaska-West Coast-Bering Sea-Cape Newenham-etc.", Explorer, R. S. Patton, 1:60,000, July-Sept. 1912.

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. Likewise, very little shoreline was identified on the photographs; it was shown only where gravel beaches existed in large coves, and such coves were few and far between, only one on the north side of the Cape existing in the area of manuscript T-9243. Field inspection showed no shoal or low water lines and none have been delineated. The stage of tide when the photographs were taken was about three feet from mean sea level. The instrument operators had this in mind during delineation and the shoreline and offshore details are considered to be in good position in spite of the lack of field inspection.

36. Offshore Details:

Bird Rock is an island off the north coast of the Cape. It was treated in the same manner as explained in sideheading No. 35, above.

37. Landmarks and Aids:

Two peaks were selected in the field for map location and recommended as landmarks, Peak 126 and Bird Rock. Reference form 567, page 47, in A. E. Stewart's 1948 season report No. 172, entitled, "Aerial Photograph Control and Inspection, Bristol Bay, Alaska". Both peaks are shown on the manuscript as located by the plotting instrument. The peak on Bird Rock was not located by the radial plot. An attempt was made to locate 126 on the plot and it is so named on the base sheet, but the highest point was not selected making it necessary to do so on the Reading Plotter during delineation.

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 five topo stations located on this quadrangle.
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 five topo stations located on this quadrangle.

39. Junctions:

This map sheet junctions T-9244 and T-9249, and all junctions are in agreement.

40. Horizontal and Vertical Accuracy:


46. Comparison with Existing Maps:


47. Comparison with Nautical Charts:


48. Geographic Name List:

See separate page following page attached to this report.
49. Notes for the Hydrographer:
   See two separate unnumbered pages following.

50. Compilation Office Review:
   See T-2 form following, attached to this report.

Submitted by:

Orvis N. Dalbey
Cartographer-Photogrammetric

Approved and Forwarded:

Louis J. Reed, Chief,
Stereoscopic Mapping Section
Washington Office
<table>
<thead>
<tr>
<th>Signal No.</th>
<th>Photo No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>362</td>
<td>20530</td>
<td>Pinnacle rock about 9 m above MHW.</td>
</tr>
<tr>
<td>363</td>
<td>20530</td>
<td>Southeast corner of rock outcrop on top of bluff about 73 ft. above MHW. Rock projects 15 ft. above grass top of bluff.</td>
</tr>
<tr>
<td>364</td>
<td>20530</td>
<td>Pinnacle rock projects about 3 m above MHW.</td>
</tr>
<tr>
<td>365</td>
<td>20530</td>
<td>Pinnacle rock projects about 9 m above MHW.</td>
</tr>
<tr>
<td>366</td>
<td>20530</td>
<td>Pinnacle rock projects about 9 m above MHW.</td>
</tr>
<tr>
<td>399</td>
<td>20531</td>
<td>Grass topped rock at outer edge of a rock ledge that extends out from mainland.</td>
</tr>
<tr>
<td>550</td>
<td>20529</td>
<td>Highest point of rock ledge that extends out from shore. White top</td>
</tr>
<tr>
<td>551</td>
<td>20529</td>
<td>Highest point of a rock just offshore.</td>
</tr>
<tr>
<td>552</td>
<td>20529</td>
<td>Highest point of rock which is about 3 m above MHW and 65 m offshore.</td>
</tr>
<tr>
<td>553</td>
<td>20529</td>
<td>Outer top end of rock ledge that extends out from west side of Seal Rock. About 3 m about MHW.</td>
</tr>
<tr>
<td>554</td>
<td>20529</td>
<td>High pinnacle rock, second one in from the north side of Seal Rock. About 125 ft. elevation.</td>
</tr>
<tr>
<td>555</td>
<td>20529</td>
<td>Outer grass topped pinnacle on top of a rock ledge that extends out from base of bluff.</td>
</tr>
<tr>
<td>556</td>
<td>20529</td>
<td>Top of rock about 2 m about MHW and 20 m out from base of bluff.</td>
</tr>
<tr>
<td>Signal No.</td>
<td>Photo No.</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>J557</td>
<td>20526</td>
<td>Large white topped rock about 6 m about MHW and just offshore. Highest point of.</td>
</tr>
<tr>
<td>J558</td>
<td>20526</td>
<td>Highest point of large rock about 60 m offshore.</td>
</tr>
<tr>
<td>J559</td>
<td>20526</td>
<td>Sharp topped rock just offshore and about 30 m high with base connected to mainland.</td>
</tr>
<tr>
<td>J560</td>
<td>20525</td>
<td>White topped rock about 6 m out from shore.</td>
</tr>
<tr>
<td>J561</td>
<td>20525</td>
<td>Highest point of rock that lies about 10 m. out from a large rocky point.</td>
</tr>
<tr>
<td>J562</td>
<td>20525</td>
<td>Symmetrical pinnacle rock with base connected to mainland and about 300 ft. high.</td>
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<tr>
<td>J563</td>
<td>20525</td>
<td>Small rock about 4 m above MHW and lies off a group of larger rocks.</td>
</tr>
<tr>
<td>J564</td>
<td>20524</td>
<td>Highest point of the outer and western end of a high rocky point.</td>
</tr>
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</table>

Recoverable Topographic Stations

MATE 1948
CAVE 1948
Daze 1948
Tekka 1948
Seal 1948
PHOTOGRAMMETRIC OFFICE REVIEW

T. 9243

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

Supervisor, Review Section or Unit

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:
Chief, Division of Geodesy

Chief, Division of Photogrammetry

Geographic Names

Ref. : A letter to Chief, Division of Geodesy from W. W. Husemeyer, dated 21 November 1950, on the subject: Alaska Surveys

The last paragraph of reference letter states that the geographic name of a small island near the end of Cape Nevenham depicted on map manuscript T-9243 is in question. The map manuscript shows the name of this island as "Bird Rock" whereas reference letter states that the name should be "Seal Rock". This question has been brought to the attention of Mr. Heck (Geographic Names) and Mr. Heck has furnished the following information:

A report on geographic names submitted by Comdr. Stewart states that the name of this feature should be "Bird Rock". Comdr. Stewart quotes 4 sources for this name and further states that it is in undisputed local usage. The name "Bird Rock" should be retained on the map manuscript until the question is settled by the Board on Geographic Names.

C. S. Readick
Chief, Div. of Photogrammetry

cc: 78
854
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<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>
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<td>Bird Rock</td>
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<td>Bristol Bay</td>
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<td>Cape Newenham</td>
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<td>Jagged Mt.</td>
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<td>Kuskokwim Bay</td>
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<tr>
<td>Oracle Mountain</td>
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<td>9</td>
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<tr>
<td>Alaska</td>
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</table>

Names underlined in red are approved

11-8-61

L. Heck
REVIEW REPORT T-9243
Topographic Map
October 3, 1952

62. Comparison with Registered Topographic Surveys. -

T-3311  1:20,000  1912

The map manuscript supersedes this survey for nautical charting purposes.

63. Comparison with Maps of other Agencies. -

Goodnews District, Alaska, 1:250,000, 1938 – USGS
No discrepancies noted.

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 noted.

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 project instructions and is adequate as a base for hydrographic surveys and the construction of nautical charts.

Reviewed by:

[Signature]
B. J. Colmer

APPROVED

[Signature]
Chief, Photogrammetry
Division of Photogrammetry

[Signature]
Chief, Nautical Chart Branch
Division of Charts

[Signature]
Chief, Div. of Photogrammetry

[Signature]
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
9041  "  9047
9051  "  9057
9061,-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.
## Record of Application to Charts

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<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>9103</td>
<td>L.S.S.</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>12-29-69</td>
<td>9103</td>
<td>H. Rech**</td>
<td>Original data considered adequate and</td>
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<td></td>
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<td>checked after which considered adequate and</td>
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</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.