# Descriptive Report

**Type of Survey:** Shoreline (Photogrammetric)

**Job No.:** PH-6306  
**Map No.:** T-11940

**Classification No.:**  
**Field Edited:**

## Locality

**State:** Alaska  
**General Locality:** Hoornah Sound & Peril Strait  
**Locality:** Point Elizabeth

---

**1967 TO 1970**

**Alfred C. Holmes, Director, AMC**

---

**Registry in Archives**

**Date:**

---

**PROJECT NO. (II):**

PH-6306

**FIELD OFFICE (III):**

None

**PHOTOGRAHMNETRIC OFFICE (III):**

Atlantic Marine Center, Norfolk, VA

**CHIEF OF PARTY:**

Alfred C. Holmes, Director, AMC

**OFFICE - SEPT. 17, 1968**

**OFFICE - SUPPLEMENT I -- DEC. 1969**

**OFFICE - AMENDMENT I -- MAR. 26, 1970**

**METHOD OF COMPILATION (III):**

Wild B-8 Stereo-Plotter

**MANUSCRIPT SCALE (III):**

20,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):**

1:25,000 Pantographed to 1:20,000

**DATE RECEIVED IN WASHINGTON OFFICE (IV):**

**DATE REPORTED TO NAUTICAL CHART BRANCH (IV):**

**APPLIED TO CHART NO.**

**DATE:**

**DATE REGISTERED (IV):**

MAR. 3, 1975

**GEOGRAPHIC DATUM (III):**

N.A. 1927

**REFERENCE STATION (III):**

CROW 1966

**LAT.:**

57°31'50.81678" (15721) 015°12'159.06312" (9823)

**LONG.:**

X ADJUSTED

**PLANE COORDINATES (IV):**

\[ y = 2,084,586.75 \text{ Ft.} \quad x = 2,381,105.18 \text{ Ft.} \]

**STATE:**

Alaska

**ZONE:**

1

**VERTICAL DATUM (III):**

Mean High Water

Elevations shown as (25) refer to mean high water

Elevations shown as (9) refer to sounding datum

i.e., mean lower low water

**AN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) 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.**
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<tr>
<th><strong>FIELD INSPECTION BY (III):</strong></th>
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<tr>
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<tr>
<td>Air Photo Compilation - June 3, 8, 17, 1967</td>
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<th><strong>DATE:</strong></th>
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<td>Dec. 8, 1969</td>
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<tr>
<td>I.I. Saperstein</td>
<td>Nov. 1969</td>
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<th><strong>STEREOSCOPIC INSTRUMENT COMPILATION (III):</strong></th>
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<tr>
<td>Reviewed: L.O. Neterer, Jr.</td>
<td>3/19/70</td>
</tr>
<tr>
<td>Planimetry: A.L. Shands &amp; A.C.</td>
<td></td>
</tr>
<tr>
<td>Contours</td>
<td>Rauck 3/16-19/70</td>
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<tr>
<td>Inapplicable</td>
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<tr>
<th><strong>MANUSCRIPT DELINEATED BY (III):</strong></th>
<th><strong>DATE:</strong></th>
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<tr>
<td>C. Blood</td>
<td>4/11/70</td>
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<th><strong>SCRIBING BY (III):</strong></th>
<th><strong>DATE:</strong></th>
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<tr>
<td>W. Gilbert</td>
<td>June 14, 1972</td>
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<tr>
<th><strong>PHOTOMETRIC OFFICE REVIEW BY (III):</strong></th>
<th><strong>DATE:</strong></th>
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<tr>
<td>Compilation L. Graves</td>
<td>April 13, 1970</td>
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<th><strong>REMARKS:</strong></th>
<th><strong>DATE:</strong></th>
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<tbody>
<tr>
<td>Field Edit By: William D. Neff</td>
<td>May 1970</td>
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</table>
## DESCRIPTIVE REPORT - DATA RECORD

**T-11940**

### PHOTOGRAPHS

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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</thead>
<tbody>
<tr>
<td>67-L-(c)-3214 thru 67-L-(c)-3219</td>
<td>8 June 1967</td>
<td>09:46</td>
<td>1:30,000</td>
<td>0.5 ft. above MLLW</td>
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<tr>
<td>67-L-(c)-3301 thru 3303</td>
<td>8 June 1967</td>
<td>10:55</td>
<td>1:30,000</td>
<td>3.8 ft. above MLLW</td>
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<tr>
<td>#67-M-694 thru 697</td>
<td>3 June 1967</td>
<td>16:15</td>
<td>1:60,000</td>
<td>4.0 ft. above MLLW</td>
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### Predicted TIDE

<table>
<thead>
<tr>
<th>REFERENCE STATION:</th>
<th>Fairway Island, Alaska</th>
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<tbody>
<tr>
<td>SUBORDINATE STATION:</td>
<td>Point Elizabeth</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>WASHINGTON OFFICE REVIEW BY (IV):</th>
<th>Bernard Kurs, AMC</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE:</td>
<td>July, 1973</td>
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### REMARKS:

None
<table>
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<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Compilation Complete Pending Field Edit</td>
<td>April, 1970</td>
<td>Superseded</td>
</tr>
<tr>
<td>Field Edit Applied North of Lat. 37° 37' 15&quot; and East of Long. 135° 13' 15&quot;</td>
<td>August, 1970</td>
<td>Superseded</td>
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<tr>
<td>Field Edit Transferred from reduction of T-13335 (scale 1:10,000) Compilation Complete</td>
<td>Sept. 1970</td>
<td>Superseded</td>
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<tr>
<td>Final Review</td>
<td>July, 1973</td>
<td></td>
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</tbody>
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-11940

Shoreline survey T-11940 is part of project PH-6306. The project is located in southeastern Alaska in the Hoonah Sound-Peril Strait area. This survey covers part of the Peril Strait area and the entrances to Rodman Bay and Appleton Cove.

There was no field work preceding the "Incomplete" manuscript.

Compilation was at 1:20,000 scale using the B-8 plotter to drop control for resecting the ratioed photography. The delineation of detail was by graphic method. This survey includes most of T-13325 compiled at 1:10,000 and reduced in size to be included on this manuscript. A copy of the manuscript classified "Incomplete" along with ozalids and specially prepared photographs were furnished for the preparation of the boat sheets, location of photohydro signals and field edit use.

Field edit was primarily in May, 1970. After field edit was applied, the manuscript was scribed, stuck-up and reproduced on cronaflex. Final review was at AMC during July, 1973. One cronaflex and negative of the final reviewed manuscripts are forwarded for record and registry.
FIELD INSPECTION

T-11940

There was no field inspection prior to compilation.
Photogrammetric Plot Report (Part II)
Job PH-6306
Hoonah Sound and Peril Strait, Alaska

November 1969

21. Area Covered

This report covers Hoonah Sound, Alaska, by the following eight (8) 1:10,000 scale shoreline T-sheets: T-13324 thru T-13331; three (3) 1:20,000 scale shoreline T-sheets: T-11940 thru T-11942 and by one (1) 1:40,000 scale sheet for chart topography T-11939 with 1:20,000 scale inset. (See Report Part I, October 1968 for strips previously bridged and sheets covered).

22. Method

Ten (10) strips were bridged using analytical aerotriangulation methods. Strips 1, 2, 3, 10, 11 and 13 are 1:60,000 scale panchromatic and strips 8, 9, 12 and 14 are 1:30,000 scale color.

Numerous tie points were located to control several of the strips due to the sparseness of horizontal control.

The attached sketch shows the strips bridged and the placement of triangulation used in the final strip adjustments.

Positions for all bridge points are shown for each strip on the IBM readout on the Alaska Zone 1 state plane coordinate system.

23. Adequacy of Control

All horizontal control was premarked. Together with tie points, it was adequate to control the various strips.

Horizontal point COVE, 1952 could not be positively identified and was not used. Horizontal point HOOF 2, 1925 was held on Strip 3 but because of tree overhang could not be used on Strip 1.
24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-9 "M" panchromatic and RC-8 "L" color photography were good. Coverage is adequate to compile all sheets by either the 1:60,000 or 1:30,000 scale photography.

Respectfully submitted,

I. I. Saperstein

Approved and forwarded,

Henry P. Eichert
Chief, Aerotriangulation Section
Notes to Compiler

In order to compile the 1:10,000 scale sheets in Peril Strait, Rodman Bay and Saook Bay, it may be necessary to do so from the 1:30,000 scale photography. If so, order 1:30,000 color plates and contact photographs where necessary to locate compilation points from the 1:60,000 scale bridging photography. (See photo layout for plates required). All ratio prints should be ordered by the compilation office.

Bridge points will be plotted in Rockville by the Coradi on all sheets except T-11939.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 304.8006 meter)</th>
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<tbody>
<tr>
<td>CROW, 1966</td>
<td>I.B.M.</td>
<td>N.A. 1927</td>
<td>57° 31' 50.81678&quot;</td>
<td>135° 12' 59.06312&quot;</td>
<td>1572.1 284.1</td>
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<tr>
<td>LODE, 1895</td>
<td>57135 Pg. 23</td>
<td>&quot;</td>
<td>57° 31' 44.313&quot;</td>
<td>135° 12' 47.823&quot;</td>
<td>1370.9 485.3</td>
</tr>
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</table>

COMPUTED BY: A.C. Rauck, Jr.  
DATE: Jan. 5, 1970  
CHECKED BY: L.L. Graves  
DATE: 4/1/70
31. **DELINEATION**

   The Wild B-8 Plotter was used to establish substitute control to use for resecting the ratioed photographs. Delineation of the detail was by graphic method. Photography was adequate. There was no field inspection.

32. **CONTROL**

   See photogrammetric plot report.

33. **SUPPLEMENTAL DATA**

   None

34. **CONTOURS AND DRAINAGE**

   Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS**

   The shoreline, low-water line and the intermediate area between the two stages were delineated from office interpretation of photographs taken near lower low-water.

36. **OFFSHORE DETAILS**

   No statement.

37. **LANDMARKS AND AIDS**

   Form 567 for one nonfloating aid was submitted to Rockville Office on September 16, 1970.
38. CONTROL FOR FUTURE SURVEYS
None

39. JUNCTIONS

Junctions are in agreement with T-13326, T-13124, and T-13190; scale 1:10,000, to the west. There is no contemporary survey from Latitude 57°29'45" to 57°31'15" on the west. T-11941 to the east, scale 1:20,000, is in agreement from latitude 57°28'00" to 57°31'00". There is no contemporary survey north of latitude 57°31'00". The junction to T-13327, 1:10,000 scale to the south is in agreement. T-13325, 1:10,000 scale lies within the limits of this manuscript with the exception of 15" which lies to the south. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

No form 567 received in this office.

46. COMPARISON WITH EXISTING MAPS

Comparisons were made with USGS Quadrangles, Sitka (B-4), and (C-4), scale 1:63,360, dated 1951.

47. COMPARISON WITH EXISTING CHARTS

Comparisons were made with Charts 8283, scale 1:40,000; dated, 5th edition, May 12, 1969 and 8252, scale 1:217,828; dated November 8, 1965, 3rd edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Larry L. Graves
Cartographic Technician
4-15-70
Approved for forwarding:

Melvin J. Umback, CDR, NOAA
Chief, Coastal Mapping Division
AMC

Approved:

Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6306 (Alaska)
T-11940

- Andersen Island
- Appleton Cove
- Baranof Island
- Chichagof Island
- Duffield Peninsula
- False Island
- Heeze Mountains
- Peril Strait
- Peschani Point
- Point Benham
- Point Elizabeth
- Prince Island
- Rodman Bay
- Rodman Rock

Approved by:

[Signature]
Joseph Waight
Chief Geographer

Prepared by:

3-22-73
Frank W. Pickett
Cartographic Technician
49. **NOTES FOR THE HYDROGRAPHER**

None.
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<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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**CONTROL STATIONS**

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<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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<td></td>
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**ALONGSHORE AREAS (Nautical Chart Data)**

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<th>13. LOWWATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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**CULTURAL FEATURES**

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<th>21. NATURAL GROUND COVER</th>
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<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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**BOUNDARIES**

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**MISCELLANEOUS**

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<th>32. PUBLIC LAND LINES</th>
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**REVIEWER**

Charles H. Bishop 4/11/70

**SUPERVISOR, REVIEW SECTION OR UNIT**

Albert C. Rauch, Jr.

**REMARKS (See attached sheet)**

**FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT**

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.

**COMPILED**

B. Wilson  Aug. 20, 1970

**SUPERVISOR**

Albert C. Rauch, Jr.

**REVIEWER: R.E. SMITH  Sept. 16, 1970**

A.C. Rauch, Jr.

**REMARKS**

Field Edit Applied From: Field Edit Ozalid, Mat photos, 1:20,000 scale: 67-L-3214, 3215, 3217, 3218 and 1:10,000 scale 67-L-3215.
FIELD EDIT REPORT

MAP T-11940

Peril Strait

Field edit of map T-11940 was accomplished during May, 1970. Inspection was done from a launch before and after the hydrography.

METHOD

Field photographs and a copy of the Field Edit Ozalid were examined in the field. The mean high water line was verified by visual comparison of the shore area to field photographs and ozalid. Notes on the heights of rocks, location of the MHWL, and other data pertaining to photo identifiable features have been made in violet on the Field Edit Ozalid and cross referenced where necessary, to field matte ratio prints. Unless otherwise indicated all shoreline features have been verified correct as interpreted. All notes are in violet ink on the following 1:20,000 field photos: 67L3217, 67L3214, 67L3215, and 67L3218. All times are based on meridian 105° W.

ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of features compares well to photogrammetric location. Corrections and additional identifiable features have been indicated on the field edit ozalid and photographs.

Field inspection of the map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with Field Edit data provided and be accepted as an advance manuscript.

Respectfully submitted,

William D. Neff
LTJG, USESSA
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

ALBERT C. RAUCK, JR.

ALLEN L. POWELL, DIRECTOR

<table>
<thead>
<tr>
<th>STATE</th>
<th>ALASKA</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>PERIL STRAIT</td>
<td></td>
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<tr>
<td>LIGHT</td>
<td>Point Benham Light</td>
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This form shall be prepared in accordance with Hydrographic Manual Publication 20.2, Sec. 1-55, 2-39, 6-56, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

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

ATLANTIC MARINE CENTER

SEPT. 14, 1970

ALBERT C. RAUCK, JR.

ALLEN L. POWELL, DIRECTOR

TO BE REVISED

STRIKE OUT TWO
REVIEW REPORT T-11940

SHORELINE

July, 1973

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

There is no registered survey in this area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Quadrangles Sitka (B-4), Alaska and Sitka (C-4), Alaska, 1:63,360 scale dated 1951. Except for minor natural changes there is good agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparisons were made with Boat Sheets H-9125 and 9126 at 1:10,000 scale dated 1970. These were in good agreement. No other boat sheets were available at this time to make a complete comparison of the remainder of this survey. The photogrammetric MLLWL is compiled from photos taken at 0.5 ft. above MLLW (predicted).

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8283, 1:40,000 scale dated July 17, 1971. There is good general agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey meets with project instructions and the National Standards of Map Accuracy.

Reviewed by:

Bernard Kurs
Cartographer
Approved for forwarding:

Melvin J. Umback, CDR, NOAA
Chief, Coastal Mapping Division
AMC

Approved:

Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center

Approved:

Oscar J. Hays
Chief, Photogrammetric Branch
Chief, Coastal Mapping Division