## Descriptive Report

**Type of Survey**: Shoreline

**Job No.** ............... **Map No.** T-13184

**Classification No.** ............... **Edition No.**

**Locality**

**State**: Alaska

**General Locality**: Hoonah Sound & Peril Strait

**Locality**: White Cliff Point

---

**1967 to 1969**

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

**Registry in Archives**

**Date**
OBJECT NO. (III):
PH-6306

FIELD OFFICE (II):
None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE
Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (III) (III):
OFFICE - Sept. 17, 1968

METHOD OF COMPILATION (III):
Wild B-8 Stereo-Plotter

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:15,000

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

ORIZONTAL DATUM (III):
MEAN NAVIGATIONAL EXCEPT AS FOLLOWS:
Elevations shown as (35) refer to mean high water
Elevations shown as (3) refer to sounding datum
I.E., mean low water or mean lower low water

REFERENCE STATION (III):
Pick, 1966

LAT.:
57° 37' 54.685" M

LONG.:
135° 39' 08.428" M

PLANE COORDINATES (IV):

Y =

X =

STATE
Alaska

ZONE
1

AN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
(IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
**FIELD INSPECTION BY (III):**

None

**DATE:**

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

Air Photo Compilation-June 8, 1967

**DATE:**

**PROJECTION AND GRIDS RULED BY (IV):**

A. Bethea

**DATE**

Sept. 19, 1968

**PROJECTION AND GRIDS CHECKED BY (IV):**

L.P. Van Scoy

**DATE**

Sept. 23, 1968

**CONTROL PLOTTED BY (III):**

Drilled Points: - A. Shands

**DATE**

Triangulation: - None

Oct. 17, 1968

**CONTROL CHECKED BY (III):**

Drilled Points: - R. White

**DATE**

Triangulation: - None

Oct. 17, 1968

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

I. I. Saperstein

**DATE**

Oct. 1968

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

PLANIMETRY By: R.R. White

Reviewed By: C.H. Bishop &

CONTOURS A.L. Shands

**DATE**

Nov. 21/68

Nov. 7, 1968

Nov. 7, 1968

**MANUSCRIPT DELINEATED BY (III):**

R.R. White

**DATE**

E. P. Margiotta

Nov. 21, 1968

Nov. 7, 1968

**SCRIBING BY (III):**

J.W. Hinton

**DATE**

June 2, 1972

**PHOTOGRAVMETRIC OFFICE REVIEW BY (III):**

Compilation: C.H. Bishop

**DATE**

12/13/68

**REMARKS:**
**DESCRIPTIVE REPORT - DATA RECORD**

**T-13184**

**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>67-L-3187 and 67-L-3188</td>
<td>June 8, 1967</td>
<td>09:25</td>
<td>1:30,000</td>
<td>-066 below MLW</td>
</tr>
<tr>
<td>67-L-3206 and 67-L-3217</td>
<td>June 8, 1967</td>
<td>09:42</td>
<td>1:30,000</td>
<td>+0.2 above MLW</td>
</tr>
</tbody>
</table>

**PREDICTED TIDE (III)**

<table>
<thead>
<tr>
<th>REFERENCE STATION:</th>
<th>Jumeau, Alaska</th>
</tr>
</thead>
<tbody>
<tr>
<td>RATIO OF RANGES</td>
<td>13.8 16.4</td>
</tr>
<tr>
<td>MEAN RANGE</td>
<td></td>
</tr>
<tr>
<td>RANGE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUBORDINATE STATION:</th>
<th>Nisbeni Cove, Alaska</th>
</tr>
</thead>
<tbody>
<tr>
<td>RATIO OF RANGES</td>
<td>12.5 15.0</td>
</tr>
<tr>
<td>MEAN RANGE</td>
<td></td>
</tr>
<tr>
<td>RANGE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WASHINGTON OFFICE REVIEW BY (IV):</th>
<th>Bernard Kurs, AMC</th>
<th>DATE: April. 1973</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROOF EDIT BY (IV):</td>
<td></td>
<td>DATE:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECOVERED:</td>
<td>None</td>
</tr>
<tr>
<td>IDENTIFIED:</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NUMBER OF BM(S) SEARCHED FOR (III):</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECOVERED:</td>
<td>None</td>
</tr>
<tr>
<td>IDENTIFIED:</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECOVERED:</td>
<td>None</td>
</tr>
<tr>
<td>IDENTIFIED:</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):</th>
<th>None</th>
</tr>
</thead>
</table>

**REMARKS:**
<table>
<thead>
<tr>
<th>Project Description</th>
<th>Completion Date</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alongshore Area For Hydro</td>
<td>Nov. 1968</td>
<td>Superseded</td>
</tr>
<tr>
<td>Field Edit Applied</td>
<td>July 1970</td>
<td>Superseded</td>
</tr>
<tr>
<td>Compilation Complete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final Review</td>
<td>April, 1973</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
T-13178 thru 13190

Shoreline surveys T-13178 thru 13190 are part of project PH-6306. The project is located in southeastern Alaska in the Hoonah Sound area adjacent to Peril Straits.

There was no field work preceding the incomplete manuscripts.

Compilation was at 1:10,000 scale mostly by B-8 plotter the remainder by graphic methods. A copy of each manuscript classified "Incomplete" along with ozalids and specially prepared photographs were furnished for the preparation of the boat sheets, location of photo hydro signals and field edit use.

Surveys T-13187 thru T-13189 lacked field edit below 57° 35' and those portions of the manuscripts were declared Class III. Field edit was in 1969. After field edit was applied the manuscripts were scribed, stuck-up and reproduced on cronaflex. Final review was at AMC during March and April, 1973. One cronaflex and negative of the final reviewed manuscripts are being forwarded for record and registry.
FIELD INSPECTION

T-13184

There was no field inspection prior to compilation.
21. **Area Covered**

This report covers Hoonah Sound, Alaska, the area which is covered by 1:10,000 scale T-sheets only. There are thirteen (13) 1:10,000 scale T-sheets, T-13178 thru T-13190. Sheets T-11939 thru T-11942 will be bridged at a later date.

22. **Method**

Six (6) strips were bridged using analytical aerotriangulation methods. Strips 1 and 2 were 1:60,000 scale panchromatic and strips 4 thru 7 were 1:30,000 scale color. Numerous tie points were located to control the various strips due to lack of horizontal control.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to horizontal control are shown for each strip on the IBM read-outs, along with all bridge points on Alaska Zone 1 plane coordinates.

23. **Adequacy of Control**

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

It will be noted that this bridge was not run in accordance with instructions for this job. It was intended to bridge the 1:60,000 scale RC-9 "M" photography only and drop compilation points on the color photographs. However, upon examination of the "M" photography it was discovered that much of the premarked control could not be seen because of tree overhang. Some of the stations that were white-washed blended with the rock background and were not discernible.

It was therefore decided to bridge the 1:10,000 scale sheets using the color photography where the premarked stations could be seen.
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" and RC-8 "L" color photography were good. Coverage was adequate to compile all sheets either by stereoscopic plotting instrument or graphically.

Cronapaque and matte ratio prints have been ordered from the 1:30,000 scale color photographs on black and white base.

Respectfully submitted,

[Signature]

I. I. Saperstein

Approved and forwarded,

[Signature]

Chief, Aerotriangulation Section
NOTES TO COMPILER

Photos 67-L(C)-3181, 3182, 3183 on Strip 5 could not be bridged because of water areas. However, points were dropped from Strip 1 common to points on the above photos so that several offshore islands can be compiled. Models 3181-3182-3183 can be set on the B-8 using positions for these points from Strip 1, (see photos 67-M-692, 693).

Photos 67-L(C)-3212 thru 3215, the southern extension of Strip 4 could not be bridged because of water areas. Sufficient common points between the above photos and Strip 1 were located and transferred to the ratio prints so that sheets T-13189 and T-13190 could be compiled graphically. Positions for these common points can be found on the IBM readout for Strip 1, (see photos 67-M-692 thru 694).
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fick, 1966</td>
<td>I.B.M.</td>
<td>N.A. 1927</td>
<td>57° 37' 54.68487&quot;</td>
<td>1691.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>135° 39' 08.42793&quot;</td>
<td>(164.4)</td>
</tr>
</tbody>
</table>
COMPILATION REPORT
PH-6306
T-13184

31. **DELINEATION**
   The Wild B-8 Stereoplotter was used. Photograph coverage was adequate.

32. **CONTROL**

33. **SUPPLEMENTAL DATA**
   None

34. **CONTOURS AND DRAINAGE**
   Contours are inapplicable. Drainage has been shown from Office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS**
   The mean high water line, approximate lower low water line and foreshore area was delineated from office interpretation of the photographs. There was no field inspection.

36. **OFFSHORE DETAILS**
   No statement.

37. **LANDMARKS AND AIDS**
   None
38. **CONTROL FOR FUTURE SURVEYS**

   No recoverable topographic or photo hydro stations have been shown; however a sufficient number of shoreline pass points have been shown as an aid for the Hydrographer in establishing hydrographic signals.

39. **JUNCTIONS**

   Junctions are in agreement with T-13181 to the north, T-13185 to the east, T-13187 to the south, and T-13183 to the west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

   No statement.

41. **FIELD EDIT**

   The field edit for this sheet was well done and all items in question were answered very satisfactorily and cross referenced to the color ratio photographs.

   However two exceptions were noted: at approximate Lat. 57° 38'42", Long. 135°38'00" the field editor indicates a smaller ledge out-crop their appears on the photographs viewed in stereo. No change was made from the original delineation.

   At approximate Lat. 57°40'26" north to junction and approx. Long. 135°37'29" to 26'30" the field editor indicates several small ledge areas near the shallow line, these could not be seen on the photographs so were not shown on the manuscript.

42-45. Not applicable.

46. **COMPARISON WITH EXISTING MAPS**

   A comparison has been made with USGS Quadrangle SITKA (C-5) ALASKA, scale 1:63,360, dated 1951.

47. **COMPARISON WITH NAUTICAL CHARTS**

   A comparison has been made with USCGS Chart 8252, CORONATION ISLAND to LISANSKI STRAIT, scale 1:217,828, dated Nov. 1965.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None
ITEMS TO BE CARRIED FORWARD

None

Submitted:

R. R. White
R. R. White
Cartographic Aid
11/23/68

Approved for forwarding:

Kelvin J. Kruse, CDR, NOAA
Chief, Coastal Mapping Division
AMC

Approved:

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

FINAL NAME SHEET

PH-6306 (Hoonah Sound and Peril Strait, Alaska)
T-13184

- Chichagof Island
- Hoonah Sound
- Moser Island
- North Arm Hoonah Sound
- Pedersen Point
- South Arm Hoonah Sound
- White Cliff Point

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

3-22-77
T-13184

49. NOTES FOR THE HYDROGRAPHER:

NONE
### PHOTOGRAMMETRIC OFFICE REVIEW

**T-13184**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB</td>
<td>CHB</td>
<td>CHB</td>
<td></td>
</tr>
</tbody>
</table>

**Control Stations**

<table>
<thead>
<tr>
<th>5. Horizontal Control Stations of Third Order or Higher Accuracy</th>
<th>6. Recoverable Horizontal Stations of Less Than Third Order Accuracy (Topographic stations)</th>
<th>7. Photo Hydro Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Bench Marks**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>CHB</td>
<td>CHB</td>
</tr>
</tbody>
</table>

**Alongshore Areas (Nautical Chart Data)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB</td>
<td>CHB</td>
<td>CHB</td>
<td>X</td>
</tr>
</tbody>
</table>

**Aids to Navigation**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>CHB</td>
<td>X</td>
</tr>
</tbody>
</table>

**Physical Features**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB</td>
<td>X</td>
<td>None</td>
</tr>
</tbody>
</table>

**Stereoscopic Instrument Contours**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Cultural Features**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Boundaries**

<table>
<thead>
<tr>
<th>31. Boundary Lines</th>
<th>32. Public Land Lines</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Miscellaneous**

<table>
<thead>
<tr>
<th>33. Geographic Names</th>
<th>34. Junctions</th>
<th>35. Legibility of the Manuscript</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB</td>
<td>CHB</td>
<td>OK</td>
</tr>
<tr>
<td>183 OK</td>
<td>188 OK</td>
<td>CHB</td>
</tr>
</tbody>
</table>

**Discrepancy Overlay**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHB</td>
<td>CHB</td>
<td>None</td>
<td>CHB</td>
</tr>
</tbody>
</table>

**Reviewer**

<table>
<thead>
<tr>
<th>C.H. Bishop 12/13/68</th>
<th>A.C. Rauck, Jr.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Albert C. Rauck Jr.</td>
</tr>
</tbody>
</table>

**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.

**Compiler**

<table>
<thead>
<tr>
<th>A.L. Shands 7/8/70</th>
<th>SUPervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reviewer: R.J. Pate</td>
<td>July 20, 1970</td>
</tr>
</tbody>
</table>

**REMARKS**

Field Edit Applied From: Field edit ozalid T-13184
Field edit photos, 67-L-3187, 3188, & 3207
APPROVAL SHEET
for
FIELD EDIT
Hoonah Sound
Alaska
OPR-488

Field edit of the following manuscripts was accomplished under my supervision and are approved for submission.

T-13178 through T-13189

John B. Watkins, Jr.
CAPT, USESSA
FIELD EDIT REPORT
Map T-13184
Peril Strait
White Cliff Point
August - September 1969

Field edit of map T-13184 was accomplished during August and September 1969. Inspection was done from launches in conjunction with hydrography.

METHOD
Field photos 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 the field photographs and ozalid. Isolated rocks and reefs were located by sextant fixes, plotted on boat sheet FA-10-5-69, and compared to photogrammetric positions. Ledge limits were compared with those on the ozalid and extended or added, where necessary, on the field photos.

Notes have been made in violet pencil on the ozalid and in ink on the photos, and cross referenced on the ozalid by photograph number. All notes are on photo 67-L-3188.

ADEQUACY OF COMPILATION
Compilation of the map is good; the MHWL and ledge area on the small island SE of Fick Cove requires some revision, as indicated on the ozalid and field photo 67-L-3188. The field inspection is complete.

RECOMMENDATIONS
It is recommended that the map be revised in accordance with applicable notes and be accepted as an advance manuscript.

Respectfully Submitted,

Allan F. Divis
ENS, USESSA
REVIEW REPORT T-13184

SHORELINE

April, 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

A visual comparison was made with USGS Quadrangle Sitka (C-5), Alaska dated 1951 at 1:53,360 scale. There is general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of verified survey H-9056 1969. They compare extremely well except for minor variations in the MLLW line. The photogrammetric MLLW line was taken from photography at .2 ft above MLLW (predicted) and is retained on this survey for whatever use it may be to the chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with chart 8252 dated May 1, 1971 at 1:217,828 scale. There was general agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

[Signature]

Bernard Kurs
Cartographer
Approved for forwarding:

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

Approved:

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

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division