**DESCRIPTIVE REPORT**

Type of Survey: Shoreline

Job No. EM-6306, Map No. T-13180

Classification No. Edition No.
Field Edited

**LOCALITY**

State: Alaska

General Locality: Hoonah Sound & Peril Strait

Locality: Moser Island, North End

1967 TO 1969
Alfred C. Holmes, Director, AMC

**REGISTRY IN ARCHIVES**

DATE
**DESCRIPTIVE REPORT - DATA RECORD**

**PROJECT NO. (III):**
PH-6306

**FIELD OFFICE (III):**
None

**PHOTOMETRIC OFFICE (III):**
Atlantic Marine Center, Norfolk, VA

**CHIEF OF PARTY**
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

**VERTICAL DATUM (III):**
Mean and low water chart datum as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

**REFERENCE STATION (III):**
None

**LAT.:**

**LONG.:**

☐ ADJUSTED
☐ UNADJUSTED

**PLANE COORDINATES (IV):**

<table>
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<th>Y</th>
<th>X</th>
<th>STATE</th>
<th>ZONE</th>
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NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
DESCRIPTIVE REPORT - DATA RECORD

T-13180

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. 13, 1968

PROJECTION AND GRIDS CHECKED BY (IV):
L. F. Van Scy

DATE
Sept. 23, 1968

CONTROL PLOTTED BY (III):
Drilled Points: - A. Shands
Triangulation: - None

DATE
Oct. 7, 1968

CONTROL CHECKED BY (III):
Drilled Points: - R. White
Triangulation: - None

DATE
Oct. 17, 1968

RADIAL PLOT OR STEREOGRAPHIC CONTROL EXTENSION BY (III):
I. I. Saperstein

DATE
Oct. 1968

STEREOSCOPIC INSTRUMENT COMPILATION (III):
PLANIMETRY By: R.R. White
Reviewed By: L.O. Neterer and A.L. Shands

DATE
Nov. 1968

CONTOURS

DATE

MANUSCRIPT DELINEATED BY (III):
R.R. White

DATE
Nov. 1968

SCRIBING BY (III):
Charles Parker

DATE
May 26, 1972

PHOTOGAMMETRIC OFFICE REVIEW BY (III):
C.H. Bishop

DATE
Dec. 1968

REMARKS:

DATE


**Photograph Number:** 66-L-(c)-3203 & 3204  
**Date:** June 8, 1967  
**Time:** 09:42  
**Scale:** 1:30,000  
**Stage of Tide:** 0.2 above MLLW

**Reference Station:** Jumeau, Alaska  
**Reference Station:** Nisemeni Cove, Alaska

**Number of Triangulation Stations Searched for:** None  
**Recovered:** None  
**Identified:** None

**Number of BM(s) Searched for:** None  
**Recovered:** None  
**Identified:** None

**Number of Recoverable Photo Stations Established:** None

**Number of Temporary Photo Hydro Stations Established:** None

**Remarks:**
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<th>Completion Date</th>
<th>Remarks</th>
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<td>Alongshore Area For Hydro</td>
<td>Nov. 1968</td>
<td>Superseded</td>
</tr>
<tr>
<td>Field Edit Applied Compilation Complete</td>
<td>July 1970</td>
<td>Superseded</td>
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<tr>
<td>Final Review</td>
<td>March 1972</td>
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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-13180

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,

I. I. Saperstein

Approved and forwarded,

Chief, Aërotriangulation 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).
AEROTRIANGULATION SKETCH
HOONAH SOUND & PERIL STRAIT, ALASKA
Oct. 1950  Part 1

- 1:50,000 panchromatic
- 1:30,000 color
△ horizontal control
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<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 = 304.806 MM)</th>
<th>FORWARD (BACK)</th>
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COMPUTED BY A.C. Rauck, Jr. DATE Oct. 25, 1968 CHECKED BY DATE
COMPILATION REPORT
PH-6306
T-13180

31. **DELINEATION**

All details on the manuscript were compiled from the color photography taken at 0.2 ft above mean lower low water using the Wild B-8 Stereoplotter. There was no field inspection.

32. **CONTROL**


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**

See Item 31. The mean high water line, the mean lower low water line, and all other details were compiled from office interpretation of the photographs.

36. **OFFSHORE DETAILS**

No offshore details were compiled.

37. **LANDMARKS AND AIDS**

None
38. CONTROL FOR FUTURE SURVEYS
   No statement

39. JUNCTIONS
   Junctions are in agreement with T-13181 scale 1:10,000 to the east, T-13183, scale 1:10,000 to the south, and T-13179 scale 1:10,000 to the west. There is no contemporary survey to the north.

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.

42-45. Not applicable.

46. COMPARISON WITH EXISTING MAPS
   A comparison has been made with USGS Quadrangle SITKA (C-6) ALASKA scale 1:63,360 dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS
   A comparison has been made with USCGS Chart 8252, CORONATION ISLAND to LISIANSKI 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
Cartographic Aid
11/6/68
Approved for forwarding:

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

Approved:

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

FINAL NAME SHEET

PH-6306 (Hoonah Sound and Peril Strait, Alaska)
T-13180

- Chichagof Island
- Douglass Bay
- Moser Island
- North Arm Hoonah Sound
- South Arm Hoonah Sound

Approved by:

[Signature]
A. Joseph Wraight
Chief Geographer

Prepared by:

3-22-73
Frank W. Pickett
Cartographic Technician
T-13180

49. NOTES FOR THE HYDROGRAPHER:

NONE
PHOTOGALMATIC OFFICE REVIEW
T. 13180

1. PROJECTION AND GRIDS
   CHB

2. TITLE
   CHB

3. MANUSCRIPT NUMBERS
   CHB

4. MANUSCRIPT SIZE
   CHB

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY
   None

6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY
   (Topographic stations)
   X

7. PHOTO HYDRO STATIONS
   X

8. BENCH MARKS
   X

9. PLOTTING OF SEXTANT FIXES
   CHB

10. PHOTOGRAMMETRIC PLOT REPORT
    CHB

11. DETAIL POINTS
    CHB

ALONGSHORE AREAS (Nautical Chart Data)

12. SHORELINE
    CHB

13. LOW-WATER LINE
    CHB

14. ROCKS, SHOALS, ETC.
    CHB

15. BRIDGES
    X

16. AIDS TO NAVIGATION
    Noneq.

17. LANDMARKS
    None

18. OTHER ALONGSHORE PHYSICAL FEATURES
    CHB

19. OTHER ALONGSHORE CULTURAL FEATURES
    X

PHYSICAL FEATURES

20. WATER FEATURES
    CHB

21. NATURAL GROUND COVER
    CHB

22. PLANETABLE CONTOURS
    None

23. STEREOSCOPIC INSTRUMENT CONTOURS
    None

24. CONTOURS IN GENERAL
    None

25. SPOT ELEVATIONS
    None

26. OTHER PHYSICAL FEATURES
    X

CULTURAL FEATURES

27. ROADS
    X

28. BUILDINGS
    X

29. RAILROADS
    X

30. OTHER CULTURAL FEATURES
    None

BOUNDARIES

31. BOUNDARY LINES
    None

32. PUBLIC LAND LINES
    None

MISCELLANEOUS

33. GEOGRAPHIC NAMES
    CHB

34. JUNCTIONS
    CHB

35. LEGIBILITY OF THE MANUSCRIPT
    CHB

36. DISCREPANCY OVERLAY
    CHB

37. DESCRIPTIVE REPORT
    CHB

38. FIELD INSPECTION PHOTOGRAPHS
    None

39. FORMS
    CHB

40. REVIEWER
    C.H. Bishop

41. REMARKS (See attached sheet)

42. ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

43. REMARKS
   Field Edit Applied From: Field Photos, 67-L-3191 and 67-L-3203
   Field Edit Ozalid T-13180
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

[Signature]
John B. Watkins, Jr.
CAPT, USESSA
FIELD EDIT REPORT

Map T-13180
Peril Strait
Moser Island, North End

Field edit of map T-13180 was accomplished during September 1969. Inspection was done from a launch in conjunction with 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. Isolated rocks and reefs were located by sextant fixes, plotted on boatsheets FA-10-6-69 and FA-10-7-69, and compared with photogrammetric positions. Notes on heights of rocks, etc. have been made in violet ink or pencil on the ozalid and cross-referenced to notes in violet ink on the photographs.

All times are based on meridian 105W. All notes are on photograph 67-L-3191.

ADEQUACY OF COMPILATION

Compilation of the map is fair. The MHWL compares well with that found in the field with the exception of the area at the head of the South Arm. Field inspection showed that the MHWL was about 300 meters east of its compiled position. Its approximate location is delineated on matte ratio print 67-L-3191; the area of slightly higher density to the west of the line is grassland above MHW, to the east, a lighter area is stone and gravel below MHW.

Field inspection of the map 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
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 U.S.G.S. Quadrangle Sitka (C-6), Alaska, 1:63,360 scale and dated 1951. This is general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with Verified Surveys H-9057, H-9058 dated Sept. 1969 and at 1:10,000 scale. They are in agreement except for the mean lower low water line at the heads of the bays. The photogrammetric mean lower low water line was determined from photos taken at .2ft above MLLW (predicted) and is retained on the 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 1 May 1971, at 1:217,828 scale. There is 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. Anisich
CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

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

Approved:

John W. Aywood
Chief, Photogrammetric Branch

Charles A. Brown
Chief, Coastal Mapping Division