<table>
<thead>
<tr>
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<tr>
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<table>
<thead>
<tr>
<th>Job No.</th>
<th>Map Classification</th>
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<tbody>
<tr>
<td>PH-6303</td>
<td>FINAL FIELD EDITED MAP</td>
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<table>
<thead>
<tr>
<th>Type of Survey</th>
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<tbody>
<tr>
<td>SHORELINE</td>
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**LOCALITY**

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>CLARENCE STRAIT</td>
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<table>
<thead>
<tr>
<th>Locality</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEERESSEN ISLAND</td>
</tr>
</tbody>
</table>

1965 TO 1972

REGISTERED IN ARCHIVES

DATE

U.S. GOVERNMENT PRINTING OFFICE: 1980-555-115
### Descriptive Report - Data Record

**Photogrammetric Office**
- Coastal Mapping Division
- AMC, Norfolk, VA

**Officer-in-Charge**
- Jeffrey G. Carlen

#### I. Instructions Dated

<table>
<thead>
<tr>
<th>1. Office</th>
<th>2. Field</th>
</tr>
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<tbody>
<tr>
<td>Aerotriangulation</td>
<td>Jan 9, 1967</td>
</tr>
<tr>
<td>Compilation</td>
<td>March 20, 1967</td>
</tr>
<tr>
<td>Compilation Supp. 1</td>
<td>Nov 6, 1970</td>
</tr>
<tr>
<td>Compilation Supp. 2</td>
<td>Nov 23, 1970</td>
</tr>
<tr>
<td>Compilation Supp. 3</td>
<td>Nov. 5, 1971</td>
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<tr>
<td>Compilation Amend. 1</td>
<td>Dec 7, 1971</td>
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<tr>
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<tr>
<td>⊗ Mean High-Water</td>
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</tr>
<tr>
<td>⊗ Mean Low-Water</td>
<td></td>
</tr>
<tr>
<td>⊗ Mean Lower Low-Water</td>
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<tr>
<td>⊗ Mean Sea Level</td>
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<th>3. Map Projection</th>
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<td>State:</td>
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#### III. History of Office Operations

<table>
<thead>
<tr>
<th>Operations</th>
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<th>Date</th>
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<tbody>
<tr>
<td>1. Aerotriangulation</td>
<td>John Perrow, Jr.</td>
<td>Dec 2, 1970</td>
</tr>
<tr>
<td>Method: stereoplanigraph</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landmarks and Aids by</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Method: coradomat | | |
| Plotted by | | |
| Checked by | | |

| Instrument: Wild B-8 | | |
| Planimetry by | A. Shands | Nov 1971 |
| Checked by | | |
| Contours by | N.A. | |
| Checked by | N.A. | |

| 4. Manuscript Delineation | R. White | Nov 1971 |
| Method: smooth drafted | | |
| Planimetry by | L. Graves | Nov 1971 |
| Checked by | | |
| Contours by | N.A. | |
| Checked by | N.A. | |

| 5. Office Inspection Prior to Field Edit | L. Graves | Nov 1971 |
| by | | |

| 6. Application of Field Edit Data | F. Gustafson | Apr 1974 |
| by | | |
| Checked by | J. Byrd | May 1978 |

| 7. Compilation Section Review | J. Byrd | May 1978 |
| by | | |

| by | | |

| by | | |

| 10. Data Examined in Photogrammetric Branch | | |
| by | | |

| 11. Map Registered - Coastal Survey Section | | |
| by | | |

---

* U.S. G.P.O. 1972-769382/882 REG.#6
1. Compilation Photography

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
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<tr>
<td>65L(P 5038 &amp; 5039)</td>
<td>Jul 30, 65</td>
<td>09:45</td>
<td>1:15,000</td>
<td>3.7 ft below MLLW</td>
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<td>10:41</td>
<td>1:30,000</td>
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<td>Jul 30, 65</td>
<td>09:32</td>
<td>1:15,000</td>
<td>4.0 below MLLW</td>
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Remarks

2. Source of Mean High-Water Line:

The mean high water line was compiled from the above listed photography.

3. Source of Mean Low-Water or Mean Lower Low-Water Line:

The mean lower low water line was compiled from the above listed photography.

4. Contemporary Hydrographic Surveys (*List only those surveys that are sources for photogrammetric survey information.*)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
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5. Final Junctions

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<tr>
<th>North</th>
<th>East</th>
<th>South</th>
<th>West</th>
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<tbody>
<tr>
<td>T-13237</td>
<td>T-11978</td>
<td>No survey</td>
<td>T-12368</td>
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Remarks
### HISTORY OF FIELD OPERATIONS

#### 1. FIELD INSPECTION OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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<tbody>
<tr>
<td>Chief of Field Party</td>
<td>L. Riggers</td>
<td>April 1966</td>
</tr>
<tr>
<td>Horizontal Control</td>
<td>B.I. Williams</td>
<td>April 1966</td>
</tr>
<tr>
<td>Vertical Control</td>
<td>L. Riggers</td>
<td>April 1966</td>
</tr>
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</table>

#### 4. LANDMARKS AND AIDS TO NAVIGATION

- Recovered (Triangulation Stations) by: None
- Located (Field Methods) by: None
- Identified by: None

#### II. SOURCE DATA

1. **Horizontal Control Identified**
   - Photo identified

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
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<tbody>
<tr>
<td>65L-5112</td>
<td>PASS, 1916 (sub pt)</td>
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</tr>
<tr>
<td>65L-5120</td>
<td>WOOD, 1916 (sub pt)</td>
<td></td>
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2. **Vertical Control Identified**
   - N.A.

3. **Photo Numbers (Clarification of Details)**
   - None

4. **Landmarks and Aids to Navigation Identified**
   - None

5. **Geographic Names**
   - Type of Investigation: None
   - Specific Names Only: None
   - No Investigation: None

6. **Boundary and Limits**
   - Surveyed or Identified by: N.A.

7. **Supplemental Maps and Plans**
   - None

8. **Other Field Records**
   - Sketch books, etc. DO NOT list data submitted to the Geodesy Division
   - 4 forms 152
### History of Field Operations

1. **Field Inspection Operation**
   - **Operation**: Chief of Field Party
   - **Name**: R. H. Houlder
   - **Date**: Mar & May 1977

2. **Horizontal Control**
   - **Recovered By**: None
   - **Established By**: None
   - **Pre-Marked or Identified By**: None

3. **Vertical Control**
   - **Recovered By**: NA
   - **Established By**: NA
   - **Pre-Marked or Identified By**: NA

4. **Landmarks and Aids to Navigation**
   - **Recovered (Triangulation Stations) By**: None
   - **Located (Field Methods) By**: None
   - **Identified By**: None

5. **Geographic Names Investigation**
   - **Type of Investigation**:
     - [ ] Complete
     - [ ] Specific Names Only
     - [ ] No Investigation
   - **By**: E. Wood
   - **Date**: Apr & May 1977

### Source Data

1. **Horizontal Control Identified**: None
2. **Vertical Control Identified**: NA

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Station Name</th>
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3. **Photo Numbers (Clarification of Details)**
   - 63W(P) 7904-7905, 65L(P) 5020-5022

4. **Landmarks and Aids to Navigation Identified**: None

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<th>Object Name</th>
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5. **Geographic Names**: [ ] Report [ ] None

6. **Boundary and Limits**: [ ] Report [ ] None

7. **Supplemental Maps and Plans**: None

8. **Other Field Records (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)**
   - Field edit ozalid and field edit report.
## Manuscript Copies

<table>
<thead>
<tr>
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<th>Date</th>
<th>Remarks</th>
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<td>Class I</td>
<td>Jun 15, 1978</td>
<td>April 9, 1974</td>
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<tr>
<td>compilation complete</td>
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<tr>
<td>Final Review</td>
<td>April 1987</td>
<td>Final Field Edited Map</td>
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## Landmarks and Aids to Navigation

None

## Reports to Marine Chart Division, Nautical Data Branch

<table>
<thead>
<tr>
<th>Number</th>
<th>Chart Letter</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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2. Report to Marine Chart Division, Coast Pilot Branch. Date Forwarded: None
3. Report to Aeronautical Chart Division, Aeronautical Data Section. Date Forwarded: None

## Federal Records Center Data

1. Bridging Photographs; Duplicate Bridging Report; Computer Readouts.
2. Control Station Identification Cards; Form NOS 567 Submitted by Field Parties.
3. Source Data (except for Geographic Names Report) as listed in Section II, NOAA Form 76-86C. Account for Exceptions:

## Survey Editions

<table>
<thead>
<tr>
<th>Second Edition</th>
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<th>Job Number</th>
<th>Type of Survey</th>
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NOAA Form 76-36D
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-11977

This 1:10,000 scale shoreline map is one of thirty-four maps that comprise project PH-6303, Clarence Strait, Alaska. This project encompasses Clarence Strait and Ernest Sound, latitude 55° 28' 45" north to latitude 56° 00' 00" and longitude 131° 55' 00" west to longitude 132° 45' 00".

Photographic coverage was provided in July 1965 using black and white panchromatic film with the "L" camera (focal length 152.21 millimeters) at 1:15,000 and 1:30,000 scale.

Field work prior to compilation consisted of photoidentification of horizontal control for aerotriangulation in May 1966.

Analytic aerotriangulation was performed at the Washington Science Center in December 1970.

Compilation was performed at the Atlantic Marine Center during November 1971.

Field edit was accomplished during March through May 1972.

Application of field edit and advancing this map to Class I status was achieved in May 1978 at the Atlantic Marine Center.

Final review was completed at the Atlantic Marine Center during April 1987.

This Descriptive Report contains all pertinent information used to compile this Final Field Edited map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.
FIELD INSPECTION

There was no photo field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

An areal descriptive report on the character of the shoreline was prepared by Mr. Robert Melby in May, 1966.

This descriptive material was intended to aid the compilers in their interpretation of the location of the mean high water line.
Photogrammetric Plot Report
Job PH-6303
Clarence Strait, Alaska
Part II - Northern Half

December 3, 1970

21. Area Covered

The area covered is in and around the junction of Ernest Sound and Clarence Strait, Alaska. Included are T-Sheets 11977 thru 11982, 12363 thru 12371, 12374, and 13237 thru 13240, at 1:10,000 scale, in Zone 1, Alaska Plane Coordinates.

22. Method

Seven strips were bridged on the stereoplanigraph and adjusted by I.B.M. 1620 methods. Strip #4 (63-W-7254 thru 7258) was adjusted on three triangulation sub-stations and two tie points from Strip #3 (Part I). Companion sub-stations and additional tie points served as checks. Strip #7 (65-L-5098 thru 5105) was adjusted on four triangulation sub-stations with companion sub-stations and tie points from Strip #12 as checks. Strip #8 (63-W-7324 thru 7330) was bridged only in part. 63-W-7324 thru 7328 was bridged and adjusted by a first order curve (straight line). The method employed two sub-stations for adjustment, with companion sub-stations and six tie points as checks. The remainder of the Strip (63-W-7329 and 7330) must be detailed graphically from ratio prints. Strip #9 (65-L-5109 thru 5116) was adjusted on four triangulation sub-stations with companion sub-stations, one additional triangulation station and five tie points with Strip #10 as checks. Strip #10 (63-W-7311 thru 7319) was bridged on three triangulation sub-stations with companion sub-stations and eleven tie points with Strips #8 and #9 as checks. Strip #11 (63-W-7291 thru 7306) was adjusted on four triangulation sub-stations and checked with tie points from Strip #6. Strip #12 (65-L-5091 thru 5096) was adjusted on four triangulation sub-stations with tie points from Strips #4 and #7 as checks. All points were drilled on the PUG. All tie points between strips were averaged. Some outlying islands in Sheet T-11977 and T-11978 could not be covered by bridging, nor can the area be compiled, with any accuracy, by graphic methods. Completion of these two sheets should be completed by the ship during the hydrographic survey.
23. Adequacy of Control

Horizontal control was adequate and complied with project instructions. All stations held within National Map Accuracy Standards with the following exceptions:

(1) Drag, 1916 SS "C". This position was of poor image quality. In addition, it was allowed to drift by using tie points from Strip #3, as control on Strip #4. This solution provided the best overall fit.

24. Supplemental Data

Local GS quads were used to provide level points for bridging operations. Due to the nature of the terrain and the scale of the quads, these elevations are very approximate.

25. Photography

Photography was good in coverage, overlap, and definition.

Submitted by:

John D. Perrow, Jr.

Approved by:

Henry F. Eichert
Chief, Aerotriangulation Section
Notes to Compiler
PH-6303
Clarence Strait, Alaska

December 3, 1970

Strip #4 does not fit within itself too well. However, the best overall fit was made so that the strip could be tied to Strip #3 (Part I), which had been compiled at an earlier date.

Strip #8 is positioned too far out over the water to provide more than a quarter of a model in that portion of the strip north of triangulation station Mabel. These small portion models would be extremely difficult to bridge, and equally as difficult to set in a compilation instrument. Therefore, points common to both strips in that area were selected in critical areas to establish ratioing constants for Strip #8, so that those photographs could be used in compiling the alongshore detail by graphic methods.

Just south of the area covered by Strip #9, are a number of islands which could not be covered by bridging operations, due to excessive water areas. These islands are located on T-Sheets 11977 and 11978. Ratio prints of this area were made at a three time enlargement, however, these are uncontrolled, and the exact scale cannot be determined. It is recommended that the islands on these two T-Sheets be located and positioned by the hydrographic survey party.

Strip #11. It is recommended that the area covered by model 63-W-7291 - 7292 be detailed from Strip #6 (Part I), since Strip #6 seems to be the stranger photogrammetric bridge.

Note: The published position of station HASH, 1966, is in error. A new position was provided by Geodesy. The sub-stations for Station OVAL, 1916, could not be seen on the bridging photography.
### Descriptive Report Control Record

**Map No.** T-11977  
**Job No.** PH-6301

**Geodetic Datum** NA 1927

**Originating Activity** Coastal Mapping Division, Norfolk, Va.

<table>
<thead>
<tr>
<th>Station Name</th>
<th>Source of Information (Index)</th>
<th>Aerotriangulation Point Number</th>
<th>Coordinates in Feet</th>
<th>Geographic Position</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>WOOD, 1916</td>
<td>55132</td>
<td>Pg. 25.</td>
<td>x=</td>
<td>φ 55 52 59.084</td>
<td>1827.3 (28.4)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>y=</td>
<td>λ 132 13 31.176</td>
<td>542.0 (-501.0)</td>
</tr>
<tr>
<td>PASS, 1916</td>
<td>55132</td>
<td>Pg. 17</td>
<td>x=</td>
<td>φ 55 55 13.921</td>
<td>430.5 (1425.2)</td>
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<td></td>
<td></td>
<td>y=</td>
<td>λ 132 14 04.403</td>
<td>76.5 (965.6)</td>
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**Computed by** A. C. Rauck, Jr.  
**Date** 12/31/70  
**Computation Checked by** P. P. Margiotta  
**Date** 11/4/71

Supersedes NOAA Form 76-41, 2-71 Edition Which Is Obsolete.
Compilation Report
T-11977

31. DELINEATION:

Compilation was done using the Wild B-8 stereoplotter with the 1:30,000 scale photography.

The area between latitude 55° 52' 30" and 55° 54' 00" is incomplete. The bridging photography did not cover this area. The rocks and islands in this area will have to be positioned by the hydrographer.

32. CONTROL:


33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

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

35. SHORELINE AND ALONGSHORE DETAILS:

All details were compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS:

See Item #31.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.
39. **JUNCTIONS:**

   See Form 76-36B with this report.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

   No Statement.

46. **COMPARISON WITH EXISTING MAPS:**

   A comparison has been made with U.S.G.S. Quadrangle Craig (D-1), Alaska, scale 1:63,360 dated 1951.

47. **COMPARISON WITH NAUTICAL CHARTS:**

   A comparison has been made with Chart 8161, scale 1:80,000, 3rd edition dated April 11, 1966.

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

None.

**ITEMS TO BE CARRIED FORWARD:**

None.

Submitted by:

Richard R. White
Cartographic Technician
November 5, 1971

Approved and forwarded:

A. C. Rauck, Jr.
Chief, Coastal Mapping Section
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6303 (Clarence Strait, Alaska)

T-11977

Brownson Island
Canoe Passage
Ernest Sound
Etolin Island

Approved:

Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services
FIELD EDIT REPORT

Ernest Sound – S.E. Alaska

OPR 465

March–May 1972

INTRODUCTION

Field edit reports are attached for the following maps:

T-11977    T-11981
T-11978    T-11982
T-11979    T-12368
T-11980    T-12371

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Sextant fixes were plotted on boat sheets FA 10-1-72, FA 10-2-72, and FA 10-3-72. The hydrographic location was then compared with the photogrammetric position. Height data for all rocks, ledges and some shoreline is either written directly on the ozalid or entered in the field edit notebook along with position data, in which case the notebook and page number are referenced on the ozalid.

Notes have been made in violet on the office photographs and have been cross-referenced on the field edit ozalids by photograph number. All notes on the field photographs have been transferred to the office photos due to the poor condition of the field photographs.

All times through 30 April 1972 are based on 120°W meridian. All times after this date are based on 105°W meridian due to conversion to Daylight Saving Time. The following maps are affected by both time zones:

T-11977    T-12368
T-11978

Compilation of the maps is good. It is recommended that the maps be revised in accordance with the notes on the photographs and the field edit notebook before acceptance as advance manuscripts. Field inspection of these maps is complete.

Approved by:

R. H. Houlber

CAPT NOAA

Cmdg Ship FAIRWEATHER
FIELD EDIT REPORT

Map T-11977

Ernest Sound - S.E. Alaska

Field edit of map T-11977 was done by LT (jg) Emerson G. Wood during April and May 1972. Inspection was done from a small boat and on foot when fixes on land were required.

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 beach area and the ozalid in the field, and by measured distances from the MHWL to photo-identifiable objects. Isolated rocks, ledges, and some shoreline were located by sextant fixes and plotted on boat sheet FA 10-2-72. Heights of rocks, reefs, and high points of ledges are noted on the photographs, in the field edit notebook, or directly on the ozalid.

Notes have been made in violet on the office photographs and have been cross-referenced on the field edit ozalid by photograph number. The following photographs are referenced on the ozalid:

<table>
<thead>
<tr>
<th>65L-5020</th>
<th>63W-7904</th>
<th>Forest Service Photographs:</th>
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<tr>
<td>65L-5021</td>
<td>63W-7905</td>
<td>EMR-4-687 (Stereo &amp; -688 Pair)</td>
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All times are based on 120°W meridian except for the following item:

Petersen Island was delineated by locating three photo-identified points on Forest Service photographs EMR-4-687 and -688 (Stereo Pair). These points were then located in the field by 3-pt. sextant fixes with a check angle and plotted on boat sheet FA 10-2-72. All fix data is contained on the back of Forest Service photograph EMR-4-688.

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic location of features compares well to photogrammetric location. Note is made of the following items which were verified by Launch FA-6 (Boat sheet FA 10-2-72):

Three rocks in the area of Lat. 55°55.7'N, Long. 132°10.8'W. A bare rock is shown on the ozalid at Lat. 55°55.6'N, Long. 132°13.7'W. This area was thoroughly searched at low water on 15 May 1972 (105°W meridian) but no rock was visible. A least depth of 3 fms. was discovered by Launch FA-6 (FA 10-2-72). It is recommended that the bare rock symbol be replaced by a sunken rock symbol.
A rock and submerged ledge at 55°55.6' Lat. and 132°10.4' Long. Hydro records show a least depth of 2.5 fms.

Two rocks at Lat. 55°55.1'N, Long. 132°11.3'W. Hydrographic records of FA 10-2-72 show a least depth of 4.8 fms. in this area.

Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the photographs and in the field edit notebook, and that the map be accepted as an advance manuscript.

Respectfully submitted,

Emerson G. Wood

Emerson G. Wood
LT (jg), NOAA
61. GENERAL STATEMENT:

See Summary included with this report. Petersen Islands located at approximately latitude 56° 53.2' longitude 132° 13.6' were not compiled due to insufficient horizontal control and photography.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U. S. Geological Survey Quadrangle: Craig (D-1) Alaska, scale 1:63,360, dated 1951.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with registered Hydrographic Survey H-9286, scale 1:10,000.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS charts:
17385, 11th edition, dated August 11, 1984, scale 1:80,000;
17360, 26th edition, dated August 18, 1984, scale 1:217,828; and

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

Lowell O. Neterer, Jr.
Final Reviewer
April 28, 1987

Approved for forwarding:

Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Chief, Photogrammetric Production Sect.
Chief, Photogrammetry Branch
**INSTRUCTIONS**
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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