NOAA FORM 76-35
(6-80)
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.  
T-11978

Edition No.  
1

Job No.  
PH-6303

Map Classification  
FINAL FIELD EDITED MAP

Type of Survey  
SHORELINE

LOCALITY

State  
ALASKA

General Locality  
CLARENCE STRAIT

Locality  
WESTERLY ISLAND

1965 TO 1972

REGISTERED IN ARCHIVES

DATE
**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>OFFICE</th>
<th>FIELD</th>
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<tbody>
<tr>
<td>Aerotriangulation Jan 9, 1967</td>
<td>Field Feb 10, 1966</td>
</tr>
<tr>
<td>Compilation Mar 20, 1967</td>
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</tr>
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<td>Compilation Supp 1 Nov 6, 1970</td>
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<td>Compilation Supp 2 Nov 23, 1970</td>
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<td>Compilation Supp 3 Nov 5, 1971</td>
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<tr>
<td>Compilation Amend 1 Dec 7, 1971</td>
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</tbody>
</table>

**II. DATUMS**

1. **HORIZONTAL:**
   - 1927 North American

2. **VERTICAL:**
   - Mean High Water
   - Mean Low Water
   - Mean Lower Low Water
   - Mean Sea Level

3. **MAP PROJECTION**
   - Polyconic

4. **SCALE**
   - 1:10,000

---

**III. HISTORY OF OFFICE OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aerotriangulation</td>
<td>John Perrow</td>
<td>Dec 1970</td>
</tr>
<tr>
<td>Method: Stereoplanigraph</td>
<td></td>
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<tr>
<td>Landmarks and Aids</td>
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<td></td>
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<tr>
<td>2. Control and Bridge Points</td>
<td>John Perrow</td>
<td>Dec 1970</td>
</tr>
<tr>
<td>Method: Coromad</td>
<td></td>
<td></td>
</tr>
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<td>Plotted by</td>
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<tr>
<td>Checked by</td>
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<tr>
<td>Instrument: Wild B-8</td>
<td>R. White</td>
<td>Nov 1971</td>
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<td>B. Wilson</td>
<td>Nov 1971</td>
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<td>F. Gustafson</td>
<td>Apr 1974</td>
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<td>J. Byrd</td>
<td>May 1978</td>
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<td></td>
<td>L.O. Neterer, Jr.</td>
<td>May 1987</td>
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<td>L.O. Neterer, Jr.</td>
<td>May 1987</td>
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<td>6. Application of Field Edit Data</td>
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<td>8. Final Review</td>
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* U.S. P.O. 1972-769932/582 REG. #6
1. COMPILED PHOTOGRAPHY

<table>
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<tr>
<td>65L(P) 5027-5029</td>
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<td>65L(P) 5102-5103</td>
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<td>Jul 30, 65</td>
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<td>1:30,000</td>
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REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:
The mean high water line was compiled from the above listed photographs.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:
The mean lower low water line was compiled from the above listed photographs.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

5. FINAL JUNCTIONS

<table>
<thead>
<tr>
<th>NORTH</th>
<th>EAST</th>
<th>SOUTH</th>
<th>WEST</th>
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<tr>
<td>T-13238</td>
<td>T-11979</td>
<td>T-11980</td>
<td>T-11977</td>
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REMARKS
## HISTORY OF FIELD OPERATIONS

### 1. FIELD INSPECTION OPERATION

<table>
<thead>
<tr>
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<th>NAME</th>
<th>DATE</th>
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<tbody>
<tr>
<td>CHIEF OF FIELD PARTY</td>
<td>B. Williams</td>
<td>April 66</td>
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<td>HORIZONTAL CONTROL</td>
<td>R. Melby</td>
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<tr>
<td>VERTICAL CONTROL</td>
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<td>NA</td>
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<td>LANDMARKS AND AIDS TO NAVIGATION</td>
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<td>May 66</td>
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### 5. GEOGRAPHIC NAMES

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<tr>
<td>TYPE OF INVESTIGATION</td>
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</table>

### 6. PHOTO INSPECTION

CLARIFICATION OF DETAILS: None

### 7. BOUNDARIES AND LIMITS

SURVEYED OR IDENTIFIED BY: NA

## SOURCE DATA

### 1. HORIZONTAL CONTROL IDENTIFIED

Photo identified

<table>
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<td>65L 5129</td>
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<tr>
<td>65L 5124</td>
<td>Glow, 1916 sub pts</td>
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</table>

### 3. PHOTO NUMBERS (Clarification of details)

None

### 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

### 5. GEOGRAPHIC NAMES:

REPORT: X
NONE: None

### 7. SUPPLEMENTAL MAPS AND PLANS

None

### 8. OTHER FIELD RECORDS

Skeptic books, etc. DO NOT list data submitted to the Geodesy Division

<table>
<thead>
<tr>
<th>REPORT</th>
<th>NONE</th>
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<td>Form 152</td>
<td>Form 567</td>
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**HISTORY OF FIELD OPERATIONS**

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<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. H. Houlder</td>
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<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
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<td>6. PHOTO INSPECTION</td>
<td>E. Wood</td>
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<td>7. BOUNDARIES AND LIMITS</td>
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**II. SOURCE DATA**

- **1. HORIZONTAL CONTROL IDENTIFIED**
  - None

- **2. VERTICAL CONTROL IDENTIFIED**
  - NA

- **3. PHOTO NUMBERS (Clarification of details)**
  - 65L(P) 5022-5023, 65L(P) 5103-5109, BKW-10-107-108

- **4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**
  - None

- **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
  - Field edit Report
### I. MANUSCRIPT COPIES

<table>
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<th>REMARKS</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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### II. LANDMARKS AND AIDS TO NAVIGATION

1. **REPORT TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

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<th>DATE FORWARDED</th>
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<td>1</td>
<td></td>
<td>Dec 2, 1977</td>
<td>Aids to be charted</td>
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### III. 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 76-36C. ACCOUNT FOR EXCEPTIONS:**

### IV. SURVEY EDITIONS

- **Second Edition**
  - **Survey Number**: TP - (2)
  - **Job Number**: PH -
  - **Date of Photography**: 
  - **Date of Field Edit**: 
  - **Type of Survey**: 
    - Revised
    - Resurvey
  - **Map Class**: II, III, IV, V, FINAL

- **Third Edition**
  - **Survey Number**: TP - (3)
  - **Job Number**: PH -
  - **Date of Photography**: 
  - **Date of Field Edit**: 
  - **Type of Survey**: 
    - Revised
    - Resurvey
  - **Map Class**: II, III, IV, V, FINAL

- **Fourth Edition**
  - **Survey Number**: TP - (4)
  - **Job Number**: PH -
  - **Date of Photography**: 
  - **Date of Field Edit**: 
  - **Type of Survey**: 
    - Revised
    - Resurvey
  - **Map Class**: II, III, IV, V, FINAL
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-11978

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 April and 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 May 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, 12353 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. Ferrow, Jr.

Approved by:

Henry F. Eichert
Chief, Aerotriangulation Section
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 matching 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 closer 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

<table>
<thead>
<tr>
<th>MAP NO.</th>
<th>JOB NO.</th>
<th>SOURCE OF INFORMATION (Index)</th>
<th>AEROTRI-ANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>ORIGINATING ACTIVITY</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>T-11978</td>
<td>PH-6303</td>
<td></td>
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<td>WORD</td>
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<td>φ 55 54 08.843</td>
<td>273.5 (1582.2)</td>
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**COMPUTED BY** A. C. Rauck, Jr.  
**DATE** 12/31/70  
**COMPUTATION CHECKED BY** R. J. Pate  
**DATE** Nov. 2, 1971

**LISTED BY**  
**DATE**  
**LISTING CHECKED BY**  
**DATE**  
**HAND PLOTTING BY**  
**DATE**
COMPILATION REPORT
T-11978

31. DELINEATION:

This map was compiled using the Wild B-8 and 1:30,000 scale photography, except for Westerly Island, which was compiled graphically with the 1:15,000 scale photographs, using Glow 1916 sub points and one detail point for control.

32. CONTROL:


33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. There was no drainage compiled.

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:

One copy of Form 76-40 for 2 non-floating aids to navigation was forwarded to the Rockville, MD office on November 29, 1977.

38. CONTROL FOR FUTURE SURVEYS:

None.
39. **JUNCTIONS:**
   
   See Form 76-36B with this report for junctions.

40. **HORIZONTAL AND VERTICAL ACCURACY:**
   
   See the Photogrammetric Plot Report Part II, dated December 3, 1970.

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 12, 1971

Approved and forwarded:

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

FINAL NAME SHEET

PH-6303 (Clarence Strait, Alaska)

T-11978

Brownson Island
Easterly Island
Ernest Sound
Westerly 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:

<table>
<thead>
<tr>
<th>T-11977</th>
<th>T-11981</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-11978</td>
<td>T-11982</td>
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<tr>
<td>T-11979</td>
<td>T-12368</td>
</tr>
<tr>
<td>T-11980</td>
<td>T-12371</td>
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</table>

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:

<table>
<thead>
<tr>
<th>T-11977</th>
<th>T-12368</th>
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</thead>
<tbody>
<tr>
<td>T-11978</td>
<td></td>
</tr>
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</table>

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:

[Signature]

R. H. Houlder
CAPT NOAA
Cmdg Ship FAIRWEATHER
FIELD EDIT REPORT

Map T-11978

Ernest Sound - S.E. Alaska

Field edit of Map T-11978 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 were referenced on the ozalid:

65L-5022 Forest Service Photographs:
65L-5023 EXW-10-107
65L-5109 (Field Copy)
65L-5103 & -108
(Stereo Pair)

All times are based on 120°W meridian except for the inspection of Brownson Is. Rocks and Westerly Is., which were based on 105°W meridian.

Easterly Island was delineated by locating two photo-identified points on Forest Service photographs EXW-10-107 and -108 (Stereo Pair), and on photograph 65L-5103. 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 photo, EXW-10-108.

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:

The reef that Brownson Is. Rks. Daybeacon is located on is inaccurately compiled on the field edit ozalid. Reference is made to photographs 65L-5109, field copy.
Three rocks located at Lat. 55°55.1'N., Long. 132°09.7'W, were not found, although the water in this area was turbid. Hydrographic records for FA 10-2-72 indicate that all three rocks do exist, with a least depth in the area of 1.2 fms.

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.

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 Surveys H-9286, scale 1:10,000 and H-9988, scale 1:20,000.

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
May 4, 1987

Approved for forwarding:

Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Chief, Photogrammetric Production Sect.  Chief, Photogrammetry Branch
<table>
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<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHODOLOGY</th>
<th>FIELD INSPECTION</th>
<th>COMPILED</th>
<th>FIELD EDIT</th>
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<tr>
<td>DAY BEACON</td>
<td>Brownson Island Rocks Daybeacon</td>
<td>55 55</td>
<td>58°49' 132°06'</td>
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<td>5/17/72</td>
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<td>LIGHT</td>
<td>Easterly Island Light</td>
<td>55 53</td>
<td>17°79' 132°09'</td>
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<td>4/26/66</td>
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The following objects have been inspected from seaward to determine their value as landmarks. (See reverse for responsible personnel.)
### Field Inspection and Collection Title

<table>
<thead>
<tr>
<th>Type of Entries</th>
<th>INSTRUCTIONS FOR METHOD AND DATE OF LOCATION SECTION</th>
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<tbody>
<tr>
<td><strong>GROUP REPRESENTATIVE</strong></td>
<td>QE. Quality Control and Review</td>
</tr>
<tr>
<td><strong>Complete CAGE &amp; ALD</strong></td>
<td>P. R. Guarantee</td>
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<tr>
<td><strong>Field Editor</strong></td>
<td>Field Editor</td>
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<tr>
<td><strong>Field Inspector</strong></td>
<td>Field Inspector</td>
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**NOTE:** Photogrammetric Positions are determined by field observations based entirely upon ground control.

Field Positions are determined by field observations based entirely upon ground control. Review group and final review activities are performed by Quality Control and Review.

1. Oblique's inspected from second |
2. Positions determined and verified |
3. Forms submitted by Quality Control and Review |

**NAME:**

**DATE:**

**RESPONSIBLE PERSONNEL**
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.

<table>
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<th>CHART</th>
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<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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