<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job No.</td>
<td>PH-6502</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-12792</td>
</tr>
<tr>
<td>Classification No.</td>
<td>III</td>
</tr>
<tr>
<td>Edition No.</td>
<td>1</td>
</tr>
</tbody>
</table>

**LOCALITY**

- State: Alaska
- General Locality: Glacier Bay
- Locality: Beartrack Cove-Entrance

1964 TO 1972

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901
# Descriptive Report - Data Record

**Photogrammetric Office**
Coastal Mapping Division, AMC  
Norfolk, Va.

**Officer-In-Charge**
Jeffrey G. Carlen, CDR

**I. Instructions Dated**

<table>
<thead>
<tr>
<th>Office</th>
<th>Field</th>
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<tbody>
<tr>
<td>Aerotriangulation 5/18/73</td>
<td>Compilation-Supp. II 6/14/73</td>
</tr>
<tr>
<td>Final Review 6/03/77</td>
<td>Feb. 17, 1970</td>
</tr>
</tbody>
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**II. Datums**

1. Horizontal: 1927 North American  
2. Vertical: Other (Specify)  
3. Map Projection: Polyconic  
4. Grid(s): Alaska Zone 1  
5. 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>2. Control and Bridge Points Method: Coradomat</td>
<td>Allen</td>
<td>Jul 1973</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L. O. Neterer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R. R. White</td>
</tr>
<tr>
<td>5. Office Inspection Prior to Field Edit</td>
<td>R. R. White</td>
<td>Sep 1973</td>
</tr>
<tr>
<td>6. Application of Field Edit Data</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>7. Compilation Section Review</td>
<td>None after 5. above</td>
<td></td>
</tr>
</tbody>
</table>
1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC8 "E" and "M"

TYPES OF PHOTOGRAPHY
- X (C) COLOR
- X (P) PANCHROMATIC
- (I) INFRARED

TIDE STAGE REFERENCE: JUNEAU
- Willoughby Island

TIME REFERENCE:
- ZONE: Pacific
- MERIDIAN: 120th
- STANDARD TIME: DAYLIGHT

<table>
<thead>
<tr>
<th>NUMBER AND TYPE</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
<tr>
<td>72E(C) 4796-4798</td>
<td>4 JUL '72</td>
<td>14:49</td>
<td>1:30,000</td>
<td>3.5 ft. above MLLW</td>
</tr>
<tr>
<td>72E(C) 4763</td>
<td>4 Jul '72</td>
<td>14:25</td>
<td>1:30,000</td>
<td>3.3 ft. above MLLW</td>
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<tr>
<td>64M(P) 3701-3703</td>
<td>12 Jun '64</td>
<td>11:05</td>
<td>1:40,000</td>
<td>2.9 ft. below MLLW</td>
</tr>
</tbody>
</table>

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was delineated from office interpretation of the above listed photographs.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

Office interpretation of the 1972 photographs listed above, supplemented by reference to the 1964 photographs.

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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</table>

5. FINAL JUNCTIONS

<table>
<thead>
<tr>
<th>NORTH</th>
<th>EAST</th>
<th>SOUTH</th>
<th>WEST</th>
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<tbody>
<tr>
<td>T-12785</td>
<td>T-12793</td>
<td>T-12797</td>
<td>T-12791</td>
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REMARKS
### HISTORY OF FIELD OPERATIONS

#### 1. FIELD INSPECTION OPERATION

<table>
<thead>
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<th>Name</th>
<th>Date</th>
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<tr>
<td>CHIEF OF FIELD PARTY</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>HORIZONTAL CONTROL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>VERTICAL CONTROL</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>LANDMARKS AND AIDS TO NAVIGATION</td>
<td>None</td>
<td>None</td>
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</table>

#### 5. GEOGRAPHIC NAMES INVESTIGATION

- [ ] COMPLETE
- [x] SPECIFIC NAMES ONLY
- [ ] NO INVESTIGATION

#### 6. PHOTO INSPECTION

- [ ] CLARIFICATION OF DETAILS

#### 7. BOUNDARIES AND LIMITS

- [ ] SURVEYED OR IDENTIFIED

### SOURCE DATA

#### 1. HORIZONTAL CONTROL IDENTIFIED

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Station Name</th>
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#### 2. VERTICAL CONTROL IDENTIFIED

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Station Designation</th>
</tr>
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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

#### 6. BOUNDARY AND LIMITS

- [ ] REPORT
- [x] NONE

#### 7. SUPPLEMENTAL MAPS AND PLANS

None

#### 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None
## I. Manuscript Copies

<table>
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<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
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<tr>
<td>Compilation complete pending field edit.</td>
<td>Sep 1973</td>
<td>CLASS III manuscript</td>
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<tr>
<td>Final review prior to registration</td>
<td>Aug. 1977</td>
<td>CLASS III-Extensive revision of foul line, MLLW added.</td>
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## II. Landmarks and Aids to Navigation

<table>
<thead>
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<th>Number</th>
<th>Chart Letter Number Assigned</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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</table>

2. Report to Marine Chart Division, Coast Pilot Branch. Date Forwarded: 
3. Report to Aeronautical Chart Division, Aeronautical Data Section. Date Forwarded: 

## 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.

## IV. Survey Editions

<table>
<thead>
<tr>
<th>Second Edition</th>
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<th>Job Number</th>
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<td>PH -</td>
<td>Revised</td>
<td>Resurvey</td>
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<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Type of Survey</th>
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<td>TP - (3)</td>
<td>PH -</td>
<td>Revised</td>
<td>Resurvey</td>
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<table>
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<tr>
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<th>Job Number</th>
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<tbody>
<tr>
<td></td>
<td>TP - (4)</td>
<td>PH -</td>
<td>Revised</td>
<td>Resurvey</td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12792

This 1:10,000 scale shoreline survey is one of 80 maps that comprise Project PH-6502, Glacier Bay, Alaska. The job diagram shows its location in the project.

There was no field inspection or field edit for this map.

Aerotriangulation was done in Rockville in July 1973.

Compilation is from office interpretation of the photographs only—it is subject to correction by field edit, if that should occur in the future.

Final review was done at the Atlantic Marine Center in August 1977. The foul (kelp) lines were revised extensively at this time. The approximate mean lower low water line was added, using the 1972 photography taken at 3.5 feet above MLLW, with constant reference to the 1964 photography, which was taken at 2.9 feet below MLLW.

The original manuscript was a stabilene sheet 3' 45" in latitude by 5' in longitude. It was forwarded to Rockville for processing a film positive for filing in the Archives, one reproduction negative to be filed in the Reproduction Branch, and two negatives to be forwarded to the Photo Map and Imagery Information Section for dispersal.
GLACIER BAY, ALASKA
Southern Part
Job PH-6502
July 1973

21. **Area Covered.** This report pertains to twenty-two sheets in the southern part of Glacier Bay, Alaska. The sheets covered are T-12773, T-12778, T-12779, T-12783 thru T-12785, T-12789 thru T-12801, and T-12642 thru T-12644.

22. **Method.** Five strips of RC-8 photography at 1:40,000 scale were bridged by analytic aerotriangulation methods and adjusted to ground using Alaska state plane coordinates, zone 1. Points were established for setting 1:30,000 scale compilation photography. Points were also established for determining ratios of this photography. These points were plotted by the Coradomat.

23. **Adequacy of Control.** The control was adequate.

24. **Supplemental Data.** USGS topographic quadrangles were used in determining elevations for strip adjustments.

25. **Photography.** The photography was adequate; however, points could not be established for the compilation of islands on sheets T-12784, T-12791, and T-12796. These islands will have to be put in by a field party.

Submitted by,

Don O. Norman

approved by:

John D. Perrow, Jr.
Chief, Aerotriangulation Section
AEROTRIANGULATION SKETCH
GLACIER BAY, ALASKA
PH-6502
JULY, 1973
BRIDGING PHOTOGRAPHY
1:40000 scale color
AEROTRIANGULATION SKETCH
GLACIER BAY, ALASKA
PH-5502
JULY, 1973
COMPILATION PHOTOGRAPHY
01:30000 scale color
GLACIER BAY
Southern Part
Fit to Control

Strip 1
5 CARO, 1923 (+0.4, -0.4)
4 JILL, 1938 (-0.8, +2.2)
2 OPEN, 1939 (+2.1, -2.6)
1 RIDGE, 1939 (-1.8, +0.8)

Strip 2
1 RIDGE, 1939 (0.0, 0.0)
2 OPEN, 1939 (0.0, 0.0)
3 STAR, 1938 (0.0, 0.0)

Strip 3
11 GOAT, 1938 (-0.3, -2.6)
10 CANT, 1939 (+1.9, +2.6)
9 VEGA, 1939 (+1.2, +0.5)
8 SOCK, 1938 (-3.5, -1.9)
7 NAME, 1938 (+0.6, +1.2)

Strip 4
6 STAVE, 1938 (+1.5, -1.3)
773602 (-6.2, +2.7)
736801 (+3.4, -2.0)
9 VEGA, 1939 (+3.3, +0.3)
733802 (-2.0, +0.3)

Strip 5
9 VEGA, 1939 (-0.4, -0.8)
10 CANT, 1939 (-0.1, +2.3)
11 GOAT, 1939 (-2.3, -0.2)
14 LITE, 1939 (-0.5, -2.6)
12 EARL, 1970 (+3.0, +1.8)
13 SHOWHITE, 1970 (-0.5, -0.1)
<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION</th>
<th>AEROTRI-ANGLE POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>TWIN, 1939</td>
<td>G.P.VOL 3</td>
<td>P. 799</td>
<td>x=</td>
<td>φ 58 34 33.432</td>
<td>1034.5</td>
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<td>λ 135 56 52.522</td>
<td>848.9</td>
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<td>BACK, 1939</td>
<td>G.P.VOL 3</td>
<td>P. 799</td>
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<td>φ 58 34 53.142</td>
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<td></td>
<td></td>
<td>y=</td>
<td>λ 135 55 01.559</td>
<td>25.2</td>
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</tbody>
</table>

COMPUTED BY: A. C. Rauck, Jr.  DATE: 7/27/73
COMPUTATION CHECKED BY: Charles Parker  DATE: 8/2/73
LISTED BY: DATE
LISTING CHECKED BY: DATE
HAND PLOTTING BY: DATE
HAND PLOTTING CHECKED BY: DATE
31. **DELINEATION:**

Delineation was by the Wild B-8 stereoplotter using 1:30,000 scale color photography. Coverage was adequate.

32. **CONTROL:**


33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from office interpretation of the photographs.

36. **OFFSHORE DETAILS:**

None.

37. **LANDMARKS AND AIDS:**

None.
38. **CONTROL FOR FUTURE SURVEYS:**

None.

39. **JUNCTIONS:**

See the attached Form 76-36b, Item #5 of the Descriptive Report concerning junctions.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

No statement.

46. **COMPARISON WITH EXISTING MAPS:**

A comparison has been made with the following USGS Quadrangle: Juneau (C-6) Alaska, scale 1:63,360, dated 1948.

47. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison has been made with the following Coast & Geodetic Survey chart: 8202, scale 1:209,978, 17th edition, Sept. 11, 1971.

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

None.

**ITEMS TO BE CARRIED FORWARD:**

None.

Submitted by:

[Signature]

W. Gilbert
Cartographic Aid
Sept. 20, 1973

Approved:

[Signature]

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section
ADDENDUM TO COMPILATION REPORT
T-12792

During Final Review, the foul (kelp) line was revised and the approximate mean lower low water line was added from office interpretation of the 1972 photography (3.5 ft. above MLLW), with frequent reference to the 1964 photographs (2.9 ft. below MLLW).

Submitted by:

Charles H. Bishop
Charles H. Bishop
Final Reviewer
August 25, 1972
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6502 (Glacier Bay, Alaska)
T-12792

Beardslee Islands
Beartrack Cove
Flapjack Island
Glacier Bay
Glacier Bay National Monument

Approved by:

[Signature]
Charles E. Harrington
Staff Geographer - C51x2
### PHOTOGRAFMETRIC OFFICE REVIEW

**TR - 12792**

<table>
<thead>
<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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<tbody>
<tr>
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**CONTROL STATIONS**

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<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>
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<table>
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<tr>
<th>8. BENCHMARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAFMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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**ALONGSHORE AREAS (Nautical Chart Data)**

<table>
<thead>
<tr>
<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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<tbody>
<tr>
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<tr>
<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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**PHYSICAL FEATURES**

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<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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<tr>
<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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**CULTURAL FEATURES**

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<thead>
<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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**BOUNDARIES**

<table>
<thead>
<tr>
<th>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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**MISCELLANEOUS**

<table>
<thead>
<tr>
<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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<tbody>
<tr>
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<td>RRW</td>
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<table>
<thead>
<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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<tbody>
<tr>
<td>RRW</td>
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<td>RRW</td>
</tr>
</tbody>
</table>

**REVIEWER**

Richard R. White 9/21/73

**SUPERVISOR**

Albert C. Hauck, Jr.

**REMARKS**

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**

**SUPERVISOR**

**REMARKS**


REVIEWS REPORT
T-12792
SHORELINE
August 1977

61. **GENERAL STATEMENT:**

See Summary, which is Page 6 of this Descriptive Report.

No comparison print was made for this map.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:**

A comparison was made with Survey No. 6677, 1:20,000 scale, dated Sept. 1938 and June-Sept. 1939, and with Survey No. 6678, 1:20,000 scale, dated Aug.-Sept. 1939. Shoreline differs considerably; the mean high water line on the prior surveys is consistently inshore from the same feature on T-12792. Several of the rocks mapped on the prior surveys are not visible or identifiable on the photographs, and, therefore, could not be mapped on T-12792.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**

A visual comparison was made with USGS Quadrangle JUNEAU (C-6), ALASKA, 1:63,360 scale, dated 1948. No significant difference was noted.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

None - no contemporary hydrographic survey was available for comparison.

65. **COMPARISON WITH NAUTICAL CHARTS:**

A visual comparison was made with Chart 17300 (8202), 1:209,978 scale, 29th edition, dated Jan. 1, 1977. No significant difference was noted. The chart scale is too small for adequate comparison.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Charles H. Bishop
Cartographer
August 25, 1977

Approved for forwarding:

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Coastal Mapping Div.