T-12787

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Job No. PH-6502 Map No. T-12787

Classification No. Edition No. 1

Field edited

LOCALITY

State Alaska

General Locality Glacier Bay

Locality Geikie Inlet

1966 TO 1970

REGISTRY IN ARCHIVES

DATE

© U.S. GOVERNMENT PRINTING OFFICE: 1972-78-1752
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
**DESCRIPTIVE REPORT - DATA RECORD**

**PHOTOGRAHMETRIC OFFICE**
Coastal Mapping Division (Norfolk)

**OFFICER-IN-CHARGE**
JEFFREY G. CARLEN

**I. INSTRUCTIONS DATED**

<table>
<thead>
<tr>
<th>1. OFFICE</th>
<th>2. FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 16, 1964</td>
<td>December 18, 1969</td>
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**II. DATUMS**

<table>
<thead>
<tr>
<th>1. HORIZONTAL:</th>
<th>OTHER (Specify)</th>
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<tbody>
<tr>
<td>☑ 1927 NORTH AMERICAN</td>
<td>MEAN HIGH-WATER</td>
</tr>
<tr>
<td></td>
<td>MEAN LOW-WATER</td>
</tr>
<tr>
<td></td>
<td>MEAN LOWER LOW-WATER</td>
</tr>
<tr>
<td></td>
<td>MEAN SEA LEVEL</td>
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</tbody>
</table>

**3. MAP PROJECTION**
Polyconic

**4. GRID(S)**
STATE: 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>1. AEROTRIANGULATION</td>
<td>G. Ball</td>
<td>Aug 1965</td>
</tr>
<tr>
<td>METHOD: Analytic</td>
<td>LANDMARKS AND AIDS BY</td>
<td>N. A.</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>A. Shands, C. Blood</td>
<td>4/70; 5/70</td>
</tr>
<tr>
<td>METHOD: Coordinatograph</td>
<td>PLOTTED BY</td>
<td>L. Neterer, B. Wilson</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT</td>
<td>A. Shands</td>
<td>Apr 1970</td>
</tr>
<tr>
<td>COMPILATION</td>
<td>PLANIMETRY BY</td>
<td>L. Neterer</td>
</tr>
<tr>
<td>INSTRUMENT: Wild B-8</td>
<td>CHECKED BY</td>
<td>N.A.</td>
</tr>
<tr>
<td>SCALE: 1:15,000</td>
<td>CONTOURS BY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHECKED BY</td>
<td></td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>C. Blood</td>
<td>May 1970</td>
</tr>
<tr>
<td>METHOD: Smooth ink drafting</td>
<td>PLANIMETRY BY</td>
<td>R. Pate</td>
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<td>CHECKED BY</td>
<td>N.A.</td>
</tr>
<tr>
<td></td>
<td>CONTOURS BY</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHECKED BY</td>
<td></td>
</tr>
<tr>
<td>SCALE: 1:10,000</td>
<td>HYDRO SUPPORT DATA BY</td>
<td>C. Blood</td>
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<td></td>
<td>CHECKED BY</td>
<td>R. Pate</td>
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<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>R. Pate</td>
<td>Jun 1970</td>
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<tr>
<td>BY</td>
<td></td>
<td></td>
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<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>B. Barge</td>
<td>Nov 1971</td>
</tr>
<tr>
<td>BY</td>
<td>R. White</td>
<td>Nov 1971</td>
</tr>
<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>R. White</td>
<td>Nov 1971</td>
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<tr>
<td>BY</td>
<td>C. Bishop</td>
<td>Jul 1975</td>
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<td>8. FINAL REVIEW</td>
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<td>9. DATA FORWARDED TO PHOTOGRAHMETRIC BRANCH</td>
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<td>BY</td>
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<tr>
<td>10. DATA EXAMINED IN PHOTOGRAHMETRIC BRANCH</td>
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</tr>
<tr>
<td>BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BY</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**U.S. G.P.O. 1972-769382/582 REG.#6**
1. **Compilation Photography**

### Camera(s)

- **Wild RC-9 “M”**

### Tide Stage Reference

- **Juneau (Willoughby Id.)**

### Types of Photography

- **C** Color
- **P** Panchromatic
- **I** Infrared

### Time Reference

- **Zone:** Pacific
- **Meridian:** 120W

### Number and Type

<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>64 M 3749 thru 3751</td>
<td>6-12-64</td>
<td>12:13</td>
<td>1:40,000</td>
<td>1.0 ft above MLLW</td>
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### Remarks

2. **Source of Mean High-Water Line:**

Field inspection and office interpretation of photos listed above.

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

Office interpretation of photos listed above.

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**

- **North:** T-12780
- **East:** T-12788
- **South:** No Survey
- **West:** T-12786

### Remarks

- **No survey:**
### HISTORY OF FIELD OPERATIONS

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. CHIEF OF FIELD PARTY</strong></td>
<td>R. H. HOULDER</td>
<td>Summer 1964</td>
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<td></td>
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<td>Aug 1964</td>
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<td><strong>2. HORIZONTAL CONTROL</strong></td>
<td>R. H. HOULDER</td>
<td>Aug 1964</td>
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<tr>
<td></td>
<td>W. H. SHEARouse</td>
<td></td>
</tr>
<tr>
<td><strong>3. VERTICAL CONTROL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>4. LANDMARKS AND AIDS TO NAVIGATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>5. GEOGRAPHIC NAMES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>6. PHOTO INSPECTION</strong></td>
<td>W. H. SHEARouse</td>
<td>Aug 1964</td>
</tr>
<tr>
<td><strong>7. BOUNDARIES AND LIMITS</strong></td>
<td>N.A.</td>
<td></td>
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<td><strong>II. SOURCE DATA</strong></td>
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<td><strong>1. HORIZONTAL CONTROL IDENTIFIED</strong></td>
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<td><strong>2. VERTICAL CONTROL IDENTIFIED</strong></td>
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<tr>
<td><strong>3. PHOTO NUMBERS (Clarification of details)</strong></td>
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<td><strong>4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED</strong></td>
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#### PHOTO NUMBER
- 64M3749 KNOB 1944
- 64 M 3750

#### OTHER FIELD RECORDS
- Field Inspection Report and CSI card
**T12787**

**HISTORY OF FIELD OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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</thead>
<tbody>
<tr>
<td>Field Inspection Operation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field Edit Operation</td>
<td>J. B. WATKINS, JR.</td>
<td>Summer 1970</td>
</tr>
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</table>

1. **CHIEF OF FIELD PARTY**

2. **HORIZONTAL CONTROL**

3. **VERTICAL CONTROL**

4. **LANDMARKS AND AIDS TO NAVIGATION**

5. **GEOGRAPHIC NAMES**

   - [ ] Complete
   - [ ] Specific Names Only
   - [X] No Investigation

6. **PHOTO INSPECTION**

   - [ ] Clarification of Details
   - [ ] None

7. **BOUNDARIES AND LIMITS**

   - [ ] Surveyed or Identified
   - [ ] None

**SOURCE DATA**

1. **HORIZONTAL CONTROL IDENTIFIED**

   - [ ] Photo Number
   - [ ] Station Name

2. **VERTICAL CONTROL IDENTIFIED**

   - [ ] Photo Number
   - [ ] Station Designation

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**

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

   - Field Edit Report, Field Edit Ozalid
### T-12787

#### RECORD OF SURVEY USE

### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<tr>
<td>Compilation complete pending field edit</td>
<td>May 1970</td>
<td>Superseded</td>
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<td>6-9-70</td>
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<tr>
<td>Field edit applied, compilation complete</td>
<td>Nov 1971</td>
<td></td>
<td></td>
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<tr>
<td>Final review</td>
<td>Jul 1975</td>
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### II. LANDMARKS AND AIDS TO NAVIGATION

#### 1. 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>
</tr>
</thead>
</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. 587 submitted by field parties.
3. Source data (except for Geographic Names Report) as listed in Section II, NOAA Form 76-36C.
   Account for exceptions:

#### 4. DATA TO FEDERAL RECORDS CENTER. DATE Forwarded: 

### IV. SURVEY EDITIONS

(This section shall be completed each time a new map edition is registered)

| Second Edition | Survey Number | Job Number | Type of Survey | Map Class |
|               | TP            | PH         | Revised        | Final     |
|               | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT |             |           |

| Third Edition | Survey Number | Job Number | Type of Survey | Map Class |
|              | TP            | PH         | Revised        | Final     |
|              | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT |             |           |

| Fourth Edition | Survey Number | Job Number | Type of Survey | Map Class |
|               | TP            | PH         | Revised        | Final     |
|               | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT |             |           |
JOB PH-6502
GLACIER BAY
ALASKA
Shoreline Mapping
SCALE 1:10,000
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12787

This 1:10,000 scale shoreline manuscript is one of 80 maps that comprise Project PH-6502 which covers Glacier Bay, Alaska and its numerous tributaries. For convenience of compilation, the project was divided into five parts, according to aerotriangulation bridges. This map is one of 21 maps that comprise Part I which covers Glacier Bay from Geikie Inlet to Composite Island.

Field inspection was done by an experienced photogrammetrist in August 1964.

Bridging was done by analytic aerotriangulation methods in the Rockville Office in August 1965 using 1:40,000 scale panchromatic wide angle photography taken in June 1964.

Compilation was done at the Atlantic Marine Center, Norfolk, in June 1970, using the Wild B-8 plotter, with 1:40,000 scale photography taken in June 1964. Photographs were ratioed to 1:10,000 scale for photo-hydro support and field edit use. The time of photography was near low water.

Field edit was done in conjunction with hydrography in July 1970.

Final review was done at the Atlantic Marine Center in July 1975.

The original manuscript was a stabilene sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude.

A stable base positive copy and a negative of the final reviewed manuscript were forwarded for record and registry.
FIELD INSPECTION REPORT

Project 21423 - Glacier Bay

2. AREAL FIELD INSPECTION

No map numbers appear on the Project Diagram for this part of Glacier Bay which includes inspection of the islands and bays on the west side from the south end of Willoughby Island northward to Tlingit Point, then both shores northwestward to Tidal Inlet on the north, Gilbert Island and Hugh Miller Inlet on the south.

There are no populated places. All the area lies within the Glacier Bay National Monument and is managed by the National Park Service. A pamphlet regarding the Monument is enclosed, herewith.

The shoreline varies from that at the base of rock bluffs or steep slopes, where there is no beach, to the irregular type where there are numerous indentations, ledge outcroppings and narrow gravel and boulder-strewn beaches.

There are two major inlets on the southeast shore, (Geikie and Hugh Miller -Charpentier) and one on the north (Tidal). At the heads of these inlets and the principal coves off them are tidal flats probably caused by streams flowing from the receding glaciers. These are gravel and silt. The one at the head of Geikie Inlet is near the base of a glacier partly visible on the photographs - 644 3752 and 3753. It is interesting to note the large "mountains" of loose gravel on the north side evidently left by the receding glacier.

Field inspection was of necessity rather hurriedly done due to a bad weather period and completion deadline. However, practically the entire shoreline was covered and inspection is believed to be adequate.

Field inspection notes will be found on the following 1:40,000 scale photographs: 644 3646, 3651, 3652, 3661, 3662, 3663, 3665 thru 3670, 3682, 3684, 644 3743 thru 3750, 3755 thru 3757, 3761 thru 3764, 3766 thru 3768.

The photography is of excellent quality with no significant problems as to definition or interpretation. Coverage is complete except for Lone Island, a small island approximately midway between north and south shores in Glacier Bay. Triangulation Station Lone 1939 at Lat. 52° 43' 20.492", Long. 136°17' 35.614", is on the island. About half of the island is visible on photo 644 3757.

3. HORIZONTAL CONTROL

Photogrammetric plot requirements are believed to be satisfied by (1) recovery and identification of existing stations as called for on the project diagram and (2) establishment and identification of two new stations by triangulation methods.

Enlargements of sections of the 1:40,000 scale contact photographs were furnished for identification of several of the required control stations. These proved very useful. However, enlargements were not received for Stations: STAR, ELSE, OPHN and DRAE on flight strip No. 3. These were identified on the contact photos.

The two stations established are RANA and ACE. Positions are furnished with project data. These stations marks were set in 1944 by S.B.G., but the season apparently ended before positions were determined.
3. Cont.

One required station could not be found. In place of it, (DIGG), nearby station KNOB was identified.

All stations recovered and identified are Coast and Geodetic Survey stations except HUGH MILLER EAST BASE 1907 and GLOOMY 1907, which were established by the International Boundary Commission.

Note: The U. S. Geological Survey is in process of publishing new quadrangle maps of the northwest part of Glacier Bay, the field work having been done in the early 1960's. It is believed that they established additional horizontal control that may prove useful to future surveys northwestward of our 1964 work. It is suggested that this be investigated before the next season's work is begun.

4. VERTICAL CONTROL

Inapplicable.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

The photographs show many small streams flowing down the mountains from the melting snow and ice. Many were labelled but thorough check was not attempted. The photographs were taken in June when the runoff was building to its height and the streams are readily seen. It is felt that they should be delineated "Perennial", as the snow and ice melts all summer, never entirely dissipating in most areas.

6. WOODLAND COVER

Except where covered by snow, the wooded areas are obvious on the photographs. Usually where there is a beach, it is fringed with dense alder. The alder seems to be gaining in its northward growth as the glaciers recede. It is thick and tall and is worthy of being mapped as trees or woods and has been so labelled numerous times. Other trees are mostly conifers with some deciduous here and there.

7. SHORELINE AND ALONGSHORE FEATURES

These were visually inspected from a skiff running close to shore. Mean high-water line has been indicated by dashes in red ink on the photographs. An attempt was made to place the line in its true position as viewed from the skiff. In some instances the compiler, working under more favorable conditions can delineate the line more accurately, particularly with regards small indentures and added character that will readily be seen on large scale photos or plates. At times, notes were made indicating that the mean high-water line was obvious, such as at the base of a bare rock mountain where high-water and low-water lines are synonymous, or practically so. Along numerous stretches of shoreline where there is a narrow beach, the mean high-water line lies against the vegetation; other stretches find the line offshore 3 to 5 meters from the vegetation. Notes cover most of these cases.

The photographs were taken at or near low-water. The low-water line is obvious and has been indicated as approximate with green dots at many places.
7. Cont.

A large part of the inspection was done at low tide and the fore-
shore classified at that time. It is reasonably thorough and accurate.

There are no man-made shoreline structures. Many protruding ledges
are visible, a large number being labelled.
There is no "apparent" shoreline.
Mean high-water lines crossing the tidal flats have been labelled
"approximate". The line as shown was arrived at by observing (1) slight
change of photographic tone, (2) crossing the flat from a snow line which
comes down to high water, (3) detecting a tiny streak of debris deposited
at high-water, or (4) accomplishing the inspection at or near high water.

8. OFFSHORE FEATURES

Rocks and a few shoals constitute the offshore features. These were
visited and labelled. Height of rocks above mean high-water was obtained
by carefully estimating the amount (in feet) that is above the high-water
markings on the rock, or the height bare at hour and date of inspection.
Time did not permit accurately measuring these features but it is believed
they are labelled within a foot or two of true heights.
Refer to item 7 for a discussion of low-water line and foreshore.

9. LANDMARKS

None

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

None established.

12. OTHER INTERIOR FEATURES

None.

13. GEOGRAPHIC NAMES

No systematic investigation was made. No conflicts or new names came
to light during the course of the work. It is suggested that comparison
of charted names be made with the latest U. S. Geological Survey quadrangals.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

None.
15. SUMMARY

The recovery and identification of horizontal control was completed for the central section of Glacier Bay between Willoughby Island and Gilbert Island. Field inspection of this area was also completed.

It appears that it will be necessary to establish an extensive sea level control scheme northwest of Gilbert Island and in Tarr Inlet in order to meet photogrammetric and hydrographic requirements. The only stations in this area are 1909 IBC stations on mountains peaks normally covered with snow thus difficult to recover and impossible to identify on the photography. In order to comply with 2nd order specifications, this scheme should start in central Glacier Bay at stations G3SE and G6E and should consist of a combination of triangulation and electronic traverse.

William H. Shearouse
William H. Shearouse
Cartographer

Approved and Forwarded

Richard H. Houlder, LCDR, USCG
Stations which were recovered, or searched for, or established, and/or identified are tabulated below.

<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>RECOVERED</th>
<th>IDENTIFIED</th>
<th>PHOTO NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JILL 1938</td>
<td>yes</td>
<td>yes</td>
<td>64 M 3692 (enlarg)</td>
</tr>
<tr>
<td>NONE 1938</td>
<td>yes</td>
<td>no</td>
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</tr>
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<td>ALUM 1938</td>
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<tr>
<td>TREE 1938</td>
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<td>no</td>
<td></td>
</tr>
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<td>SPIT, 1938</td>
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<tr>
<td>STAR 1938</td>
<td>yes</td>
<td>yes</td>
<td>64 M 3653 (contact)</td>
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<td>EVER 1939</td>
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<td>64 M 3648 (contact)</td>
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<td>RIDGE 1939</td>
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<td>DESERT 1944</td>
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<td>64 M 3746 (enlarg)</td>
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<td>JUMBO 1944</td>
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<td>BUTE 1944</td>
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<td>QUICK 1939</td>
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21. **Area Covered**

This report covers an area of Alaska in a portion of Glacier Bay from 136° 05' 00" W to 136° 36' 00" W, including Geikie Inlet.

22. **Method**

Analytic aerotriangulation methods were used to bridge six strips of "M" photography at the scale of 1:40,000. The attached sketches of strips bridged shows the triangulation used in the adjustments. Closures to control and tie points have been tabulated.

23. **Adequacy of Control**

Horizontal control identified and required to adjust these strips was very fine. Control identification, with the exception of RANA, 1964 and CASE, 1939 which could not be positively identify by the instrument operators, was of superior quality. The field party is to be complimented on their excellent work. For the most part, triangulation sub points, were clearly visible on the cross flights, this was accomplished in an area of extremely rough terrain. All stations were used in this adjustment except RANA, 1964 and CASE 1939, the results of the six bridges should comply to the National Standards of Map Accuracy for the twenty shoreline sheets to be compiled.

24. **Supplemental Data**

Numerous USGS quads were used to obtain elevations required for the final horizontal and vertical adjustments.

25. **Photography**

Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:

George M. Ball

Approved and Forwarded:

Henry P. Elchert
Acting Chief, Aerotriangulation Section
Closure to control and tie points

STRIPE #1

DRAKE, 1939

SS#1  (-0.7  +0.3)
SS#2  (-3.1  +3.7)

OPEN, 1939

SS#1  (+4.7  +2.0)
SS#2  (+0.4  -1.1)

ELSE, 1939

SS#1  (-0.5  +5.5)
SS#2  (+9.8  +5.1)

EVER, 1939

SS#1  (-3.0  -3.0)
SS#2  (-1.7  -0.8)

PAR, 1939

SS#1  (+0.3  +0.8)
SS#2  (+3.6  +12.7)

Ties to Stripe #2

13501  (-6.5  -3.4)
13504  (+2.6  -3.4)
13505  (-4.3  -3.5)

STRIPE #2

JILL, 1938

SS#1  (0.0  0.0)
SS#2  (+4.9  -1.9)

EVER, 1939

SS#1  (+0.8  +1.6)
SS#2  (0.0  0.0)

STRIPE #3

ELSE, 1939

SS#1  (-0.1  -0.5)
SS#2  (This pt. could not be seen on this strip)
EVER, 1939

SS#1  (+3.8  -3.2)
SS#2  (+1.8  -1.3)

OPEN, 1939

SS#1  (-0.3  +1.3)
SS#2  (-1.1  +4.4)

DESERT, 1944

SS#1  (0.0  -4.3)
SS#2  (+2.2  -2.5)

FLAT, 1939

SS#1  (-0.8  +3.1)
SS#2  (-0.3  +3.6)

ARCH, 1944

SS#1  (+0.9  +0.3)
SS#2  (-0.4  -2.5)

HUGH MILLER E. BASE, 1907

SS#1  (-0.1  -0.1)
SS#2  (+4.5  +0.1)

RANA, 1964

(Neither of these points could be clearly seen)

Home Sta.  (+8.2  -11.7)
SS#1  (+7.9  16.9)

Ties to Strip #2

13501  (+6.8  -8.9)
15502  (+4.6  -9.6)
15504  (+1.2  -7.6)
15505  (-1.5  -7.7)

Ties to Strip #1

15504  (+3.9  -10.5)
15505  (+1.0  -4.4)
19501  (-0.9  +1.3)
19502  (-6.7  -0.9)
9503   (-12.8  -4.2)

STRIP #4
STRIP #4 (continued from page 2)

CUBE, 1944

SS#1  (+0.6  -1.0)
SS#2  (-1.8  -1.2)

KNOB, 1944

SS#1  (+1.2  -5.8)
SS#2  (-1.9  +1.1)

ARCH, 1944

SS#1  (+0.8  +1.2)
SS#2  (+3.8  +0.3)

DESERT, 1944

SS#1  (+2.7  +0.9)
SS#2  (+2.8  +2.7)

FLAT, 1939

SS#1  (+0.5  -0.7)
SS#2  (-2.3  -2.4)

STRIP #5

DESERT, 1944

SS#1  (+0.6  -1.0)
SS#2  (+2.3  -0.5)

FLAT, 1939

SS#1  (+3.5  +2.0)
SS#2  (Point not visible on this strip)

ARCH, 1944

SS#1  (-1.8  +1.3)
SS#2  (+1.5  +1.5)

KNOB, 1944

SS#1  (+2.5  -8.4)
SS#2  (+1.6  -0.9)

CUBE, 1944

SS#1  (-0.5  +0.3)
SS#2  (-2.8  +1.0)
Tie points to Strip #3
35503  (+4.9  -1.3)
35504  (+5.4  -1.2)

Tie points to Strip #4
56501  (+1.8  +1.0)
56502  (-4.7  -4.9)
56503  (-1.7  -1.0)
54501  (-2.3  +0.7)

STRIP #6

TLINGIT, 1939
SS#1  (0.0  0.0)
SS#2  (+3.5  -3.5)

DONE, 1939
SS#1  (+1.3  +0.1)
SS#2  (0.0  -0.1)

CASE, 1939  (Neither of these points were clearly seen)
SS#1  (-3.4  -25.2)
SS#2  (-1.5  -8.3)

ACE, 1964
SS#1  (0.0  0.0)
SS#2  (+0.1  +1.7)

GLOOMY, 1907
SS#1  (+0.1  +2.7)
SS#2  (-0.1  0.0)
GLACIER BAY
DIAGRAM
1 of 2

1. 1:9,000 SCALE PHOTOS

TRIANGULATION KEY
1. RANA
2. HUGH MILLER EBASE
3. FLAT
4. DESERT
5. ARCH
6. KWOS
7. CUBE
8. DWIKE

△ USED IN ADJUSTMENTS

△ NOT USED IN ADJUSTMENTS.
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<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 304.8006 meter)</th>
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<tr>
<td>KNOB, 1944</td>
<td>GP Vol. 3 Page 853</td>
<td>N.A. 1927</td>
<td>58° 36' 46.385&quot; 136° 27' 18.892&quot;</td>
<td>1,435.2 (421.3)</td>
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<td>BALD, 1944</td>
<td>GP Vol. 3 Page 853</td>
<td>N.A. 1927</td>
<td>58° 37' 12.873&quot; 136° 26' 18.057&quot;</td>
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<td>DINGO, 1944</td>
<td>G.P. Vol. 3 Page 854</td>
<td>N.A. 1927</td>
<td>58° 35' 31.201&quot; 136° 29' 00.764&quot;</td>
<td>965.4 (891.1)</td>
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<td>POINT, 1944</td>
<td>G.P. Vol 3 Page 854</td>
<td>N.A. 1927</td>
<td>58° 36' 34.443&quot; 136° 29' 21.754&quot;</td>
<td>1065.7 (790.8)</td>
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Plotted by: C. BLOOD
Checked by: B. WILSON
May 23, 1970 Plotted
May 25, 1970 Checked

COMPUTED BY      DATE      CHECKED BY      DATE
C. BLOOD         4/24/70      R. WHITE        4/24/70
COMPILATION REPORT
PH 6502
T-12787

31. **DELENEATION:**

The Wild B-8 plotter was used. Photographic coverage was adequate.

32. **CONTROL:**


33. **SUPPLEMENTAL DATA:**

None

34. **CONTOURS AND DRAINAGE:**

Inapplicable

35. **SHORELINE AND ALONGSHORE DETAILS:**

The MHWL and foreshore area was compiled from office interpretation of the photographs with the aid of field inspection.

The approximate MLLWL was shown from office interpretation of the photographs.

36. **OFF SHORE DETAILS:**

No statement.

37. **LANDMARKS AND AIDS:**
38. CONTROL FOR FUTURE SURVEYS:

A sufficient number of shoreline pass points were located to facilitate the location of photo-hydro stations.

39. JUNCTIONS:

Junctions are in agreement with T-12780 to the north, T-12786 to the west, and T-12788 to the east. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement

41. FIELD EDIT:

The field edit was adequate.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with USGS Quadrangle MT. FAIRWEATHER (C-2), Alaska, scale 1:63,360, dated 1950, reprinted 1956.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 8202, scale 1:209,978, 15th edition, dated October 21, 1968.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE

ITEMS TO BE CARRIED FORWARD:

NONE

Approved:  ALBERT C. RAUCK, JR.
Chief, Coastal Mapping Section

Submitted:  CHARLES BLOOD
Cartographic Technician
May 30, 1970
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12787

Geikie Inlet

Glacier Bay National Monument

Wood Lake

Approved by:

Chas. E. Harrington
Staff Geographer-C51x2
### PHOTOGRAMMETRIC OFFICE REVIEW

**T-12787**

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#### Alongsore Areas (Nautical Chart Data)

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#### Cultural Features

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#### Boundaries

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#### Miscellaneous

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#### REVIEWER

**Charles H. Bishop**

**DATE:** June 5, 1970

**SUPERVISOR:** Albert C. Rauck, Jr.

**Note:** The manuscript is now complete except as noted under item 34.

### 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

**Charles H. Bishop**

**DATE:** 11/8/71

**SUPERVISOR:** Albert C. Rauck, Jr.

#### Reviewer

**R. R. White**

**DATE:** 11/8/71

**SUPERVISOR:** Albert C. Rauck, Jr.

#### Remarks

Field edit applied from: 12 June 1965, 64-M-3749, 3750

Field edit ozalid T-12787
FIELD EDIT REPORT

MAP T-12787

Glacier Bay

Field edit of Map T-12787 was accomplished during July, 1970. Inspection was done from a skiff and from a launch during hydrographic survey.

METHOD

The shoreline features and mean high water line were verified by visual comparison of the shore area to the field ratio photographs and field edit ozalid of the map manuscript. Notes have been made in violet on the field edit ozalid. Unless otherwise indicated all shoreline features are correct as interpreted.

All times are based on meridian 105° W.

ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of features compares well to photogrammetric location. Corrections and additional details have been indicated on the field edit ozalid.

Field inspection of the map is complete.

RECOMMENDATIONS

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

Respectfully submitted,

Martin R. Mulhern

Martin R. Mulhern
LTJG, USESSA
TRANSMITTAL SHEET

Preparation of these reports was done under the supervision of this Command and was found to be accurate and complete.

John B. Watkins, Jr.
CAPTAIN, USESSA
Commanding Officer
USC&GSS FAIRWEATHER
REVIEW REPORT T-12787

Shoreline

July 14, 1975

61. GENERAL STATEMENT:

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

A comparison print, showing differences noted in Par. 64 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No registered topographic surveys were available for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle Mt. FAIRWEATHER (C-2), Alaska, scale 1:63,360, dated 1950. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of the smooth sheet for Survey H-9140 (FA-10-5-70), scale 1:20,000, dated 1970. Significant differences are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8202, scale 1:209,978, 18th edition, dated November 23, 1973. The chart scale is too small to detect significant differences.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with job instructions and meets Bureau standards and the requirements for National Standards of Map Accuracy.
Reviewed by:

Charles H. Bishop

CHARLES H. BISHOP
Cartographer
14 July 1970

Approved for forwarding:

VICTOR E. SERENA
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
Rocks deleted by field editor