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

DESCRIPTIVE REPORT

<table>
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<th>Type of Survey</th>
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<tr>
<td>Job No.</td>
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<tr>
<td>Map No.</td>
<td>T-12776</td>
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<td>Classification No.</td>
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<td>Edition No.</td>
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LOCALITY

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<tr>
<th>State</th>
<th>Alaska</th>
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<tbody>
<tr>
<td>General Locality</td>
<td>Glacier Bay</td>
</tr>
<tr>
<td>Locality</td>
<td>Hugh Miller Rocks</td>
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1964 TO 1970

REGISTRY IN ARCHIVES

DATE

© U.S. GOVERNMENT PRINTING OFFICE: 1973-781-776
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
**NOAA FORM 76-36A**

**U.S. DEPARTMENT OF COMMERCE**

**NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.**

---

**DESCRIPTIVE REPORT - DATA RECORD**

**PHOTOGRAMMETRIC OFFICE**

Coastal Mapping Division, Norfolk

**OFFICER-IN-CHARGE**

Jeffrey G. Carlen, CDR

---

**I. INSTRUCTIONS DATED**

1. **OFFICE**

   - November 16, 1964
   - December 18, 1969

2. **FIELD**

---

**II. DATUMS**

1. **HORIZONTAL:**

   - Check box for 1927 North American

2. **VERTICAL:**

   - Check box for Mean High-water
   - Other (Specify)

3. **MAP PROJECTION**

   Polyconic

---

**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><strong>METHOD:</strong> Analytic</td>
<td>G. Ball</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td><strong>METHOD:</strong> Coordinograph</td>
<td>C. Blood</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT COMPIIATION</td>
<td><strong>INSTRUMENT:</strong> Wild B-8</td>
<td>R. White</td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td><strong>METHOD:</strong> Smooth ink drafting</td>
<td>A. Shands</td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td></td>
<td>A. Rauck &amp; L. Neterer</td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td></td>
<td>N.A.</td>
</tr>
<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td></td>
<td>B. Wilson</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td></td>
<td>R. Pate</td>
</tr>
<tr>
<td>9. DATA FORWARD TO PHOTOGRAMMETRIC BRANCH</td>
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<td>A. Shands</td>
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<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td></td>
<td>B. Barge</td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td></td>
<td>C. Bishop</td>
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**NOAA FORM 76-36A**

**SUPERSEDES FORM CGS 161 SERIES**

*U.S. G.P.O. 1972-769382/582 REG.66*
1. COMPILE PHOTOGRAPHY

<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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<tr>
<td>64 M(P) 3757</td>
<td>6/12/64</td>
<td>12:19</td>
<td>1:40,000</td>
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<tr>
<td>64 M(P) 3666 &amp; 3667</td>
<td>6/12/64</td>
<td>10:06</td>
<td>1:40,000</td>
<td>4.0 ft. below MLLW</td>
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2. SOURCE OF MEAN HIGH-WATER LINE:


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

Office interpretation of above listed photos.

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

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<thead>
<tr>
<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
<th>SURVEY COPY USED</th>
<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
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<td>T-12771</td>
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<td>T-12775</td>
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<td>T-12781</td>
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5. FINAL JUNCTIONS

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<th>SOUTH</th>
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T-12776
HISTORY OF FIELD OPERATIONS

1. [ ] FIELD INSPECTION OPERATION  [ ] FIELD EDIT OPERATION

<table>
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<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R.H. Houlder</td>
<td>Summer 1964</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>None</td>
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</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>None</td>
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</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. GEOGRAPHIC NAMES INVESTIGATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. PHOTO INSPECTION</td>
<td>W.H. Shearouse</td>
<td>Aug. 1964</td>
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<tr>
<td>7. BOUNDARIES AND LIMITS</td>
<td>N.A.</td>
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II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
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2. VERTICAL CONTROL IDENTIFIED

3. PHOTO NUMBERS (Clarification of details)

   64 M(P) 3667

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 Inspection Report.
### HISTORY OF FIELD OPERATIONS

<table>
<thead>
<tr>
<th>OPERATION DESCRIPTION</th>
<th>NAME</th>
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<tbody>
<tr>
<td>Chief of Field Party</td>
<td>J.B. Watkins, Jr.</td>
<td>Summer 1970</td>
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<tr>
<td>Horizontal Control</td>
<td>None</td>
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<tr>
<td>Vertical Control</td>
<td>None</td>
<td></td>
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<td>Landmarks and Aids to Navigation</td>
<td>None</td>
<td></td>
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<tr>
<td>Geographic Names Investigation</td>
<td></td>
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<tr>
<td>Photo Inspection</td>
<td>M.R. Mulhern</td>
<td>Aug. 1970</td>
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<tr>
<td>Boundaries and Limits</td>
<td>N.A.</td>
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### SOURCE DATA

1. Horizontal Control Identified
   - None

2. Vertical Control Identified
   - None

3. Photo Numbers (Clarification of details)
   - 64 M(P) 3666

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 book, etc. DO NOT list date submitted to the Geodesy Division)
   - Field Edit Report, Field Edit Ozalid.
### I. MANUSCRIPT COPIES

<table>
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<th>DATE</th>
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<td>Field edit applied, compilation complete</td>
<td>Nov. 1971</td>
<td>Class I</td>
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<tr>
<td>Final Review</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 NUMBER ASSIGNED</th>
<th>DATE forwarded</th>
<th>REMARKS</th>
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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. Account for exceptions:](#)
4. [□ DATA TO FEDERAL RECORDS CENTER. DATE ForsWARDED:](#)

### IV. SURVEY EDITIONS

<table>
<thead>
<tr>
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*U.S. G.P.O. 1972-769380/548 REG.46*
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12776

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. No horizontal control identification was required in the area covered by this map.

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 May, 1970, using the Wild B-9 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 June, and August, 1970.

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

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

A stable base positive copy and a negative of the final reviewed manuscript were forwarded for record and registry.
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 - 64M 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: 64M 3645, 3651, 3652, 3661, 3662, 3663, 3665 thru 3670, 3681, 3682, 3684, 64M 3748 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. 58° 43' 20.492", Long. 136°17' 35.614", is on the island. About half of the island is visible on photo 64M 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, OPEN and BANGE 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, (DINGO), nearby station AMB 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 quadrangal 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 seasons 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 ink 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 foreshore 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 low 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. Those 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 highwater 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 C3SE and GEASE and should consist of a combination of triangulation and electronic traverse.

William H. Shearouse  
Cartographer

Approved and Forwarded

Richard H. Houlser, 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>
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<td>STAR 1938</td>
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<td>PHOTO NO.</td>
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<tr>
<td>VEIN 1944</td>
<td>yes</td>
<td>no</td>
<td>64 M 3749 (contact)</td>
</tr>
<tr>
<td>ROUND ?</td>
<td>yes</td>
<td>no</td>
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<tr>
<td>SNOW 1944</td>
<td>yes</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>BALD 1944</td>
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<td>no</td>
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<tr>
<td>KNOB 1944</td>
<td>yes</td>
<td>yes</td>
<td>64 M 3750 (enlarg)</td>
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<tr>
<td>DINGO 1944</td>
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<tr>
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<td>yes</td>
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<tr>
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<tr>
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<td>yes</td>
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<tr>
<td>NORTE 1939</td>
<td>yes</td>
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<tr>
<td>QUICK 1939</td>
<td>yes</td>
<td>no</td>
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PHOTOGRAMMETRIC PLOT REPORT
Project 21511
Alaska
August 1965

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. Eichert
Acting Chief, Aerotriangulation Section
Closure to control and tie points

STRIP #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 \((-1.7 \ -0.8)\)

TAR, 1939

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

Ties to Strip #2

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

STRIP #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 \((0.0 \ 0.0)\)

STRIP #3

ELSE, 1939

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

<table>
<thead>
<tr>
<th>SS#1</th>
<th>SS#2</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.8</td>
<td>-3.2</td>
</tr>
<tr>
<td>+1.8</td>
<td>-1.3</td>
</tr>
</tbody>
</table>

### OPEN, 1939

<table>
<thead>
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<th>SS#1</th>
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</thead>
<tbody>
<tr>
<td>-0.3</td>
<td>+1.3</td>
</tr>
<tr>
<td>-1.1</td>
<td>+4.4</td>
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</tbody>
</table>

### DESERT, 1944

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<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>-4.3</td>
</tr>
<tr>
<td>+2.2</td>
<td>-2.5</td>
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### FLAT, 1939

<table>
<thead>
<tr>
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</thead>
<tbody>
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<td>-0.8</td>
<td>+3.1</td>
</tr>
<tr>
<td>-0.3</td>
<td>+3.6</td>
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### ARCH, 1944

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<tbody>
<tr>
<td>+0.9</td>
<td>+0.3</td>
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<tr>
<td>-0.4</td>
<td>-2.5</td>
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### HUGH MILLER E. BASE, 1907

<table>
<thead>
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<td>-0.1</td>
</tr>
<tr>
<td>+4.5</td>
<td>+0.1</td>
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</tbody>
</table>

### RANA, 1964

(Neither of these points could be clearly seen)

Home Sta. (+8.2 -11.7)

<table>
<thead>
<tr>
<th>SS#1</th>
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<tbody>
<tr>
<td>+7.9</td>
</tr>
<tr>
<td>16.9</td>
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</tbody>
</table>

**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

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<table>
<thead>
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<tr>
<td>35504</td>
<td>(+5.4, -1.2)</td>
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Tie points to Strip #4

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<tr>
<td>56502</td>
<td>(-4.7, -4.9)</td>
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<tr>
<td>54501</td>
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STRIP #6

TLINGIT, 1939

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<td>SS#2</td>
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DONE, 1939

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<tbody>
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<td>(+1.3, +0.1)</td>
</tr>
<tr>
<td>SS#2</td>
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CASE, 1939 (Neither of these points were clearly seen)

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ACE, 1964

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<td>(+0.1, +1.7)</td>
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GLOOMY, 1907

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</tr>
<tr>
<td>SS#2</td>
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GLACIER BAY
DIAGRAM
1 of 2

STRIP 3
6/1/3626

JOINTS DIAGRAM
4

STRIP 4
6/1/3727

STRIP 5
6/1/3744

STRIP 6
6/1/3648

STRIP 7
6/1/3644

STRIP 8
6/1/3520

STRIP 9
6/1/3524

1: 10,000 SCALE PHOTOS

TRIANGULATION KEY
1. RAPA
2. HIGH HILLS E. BASE
3. FLAT
4. DESERT
5. ARCH
6. KNOSH
7. CUBE
8. DANA
9. OPEN
10. EVAR
11. ELSE
12. STAR
13. JILL

△ USED IN ADJUSTMENTS

△ NOT USED IN ADJUSTMENTS.
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pl. = 3048006 meter)</th>
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<tr>
<td>ZOE, 1944</td>
<td>G.P. Vol. 3 Pg. 1038</td>
<td>N.A. 1927</td>
<td>58° 43' 30.03537</td>
<td>136° 24' 23.04476</td>
<td>929.3 (927.2)</td>
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</table>

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<th>DATE</th>
<th>CHECKED BY</th>
<th>DATE</th>
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</thead>
<tbody>
<tr>
<td>C. Blood</td>
<td>4/24/70</td>
<td>R. White</td>
<td>4/24/70</td>
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</tbody>
</table>
COMPILATION REPORT
T-12776

31. **DELINEATION**

The Wild B-8 plotter was used. The photography was satisfactory. Field inspection was adequate.

32. **CONTROL**


33. **SUPPLEMENTAL DATA**

None

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable. Drainage was delineated from office interpretation of the photos.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline was delineated as inspected. The approximate mean lower low water line shown from office interpretation of the photos.

36. **OFFSHORE DETAILS**

The cluster of offshore rocks was not indicated by the field inspector; they were delineated from office interpretation of the photos.

37. **LANDMARKS AND AIDS**

None
38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with:

T-12775 to the west       T-12781 to the south
T-12777 to the east       T-12769 to the north

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

41. FIELD EDIT

Field edit was adequate

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Quadrangle MT. FAIRWEATHER (C-2), ALASKA, scale 63,360, dated 1950. The offshore rocks do not appear on this quadrangle.

47. COMPARISON WITH NAUTICAL CHARTS


There is shown on the chart an unidentified obstruction at 50° 44' 45" latitude and 136° 24' 45" longitude. At chart scale this is about 4 millimeters difference in latitude and 3 millimeters in longitude from the position on the manuscript of the offshore rock cluster.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Charles N. Bishop

for B. Wilson, May 8, 1970
Cartographic Technician

Approved:

Albert C. Rauck, Jr., Chief, Coastal Mapping Section, AMC
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12776

Glacier Bay

Glacier Bay National Monument

Hugh Miller Rocks

Approved by:

Chas. E. Harrington
Staff Geographer-051x2
# Photogrammetric Office Review

**T-12776**

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<tr>
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## Control Stations

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## Bench Marks

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### Alongshore Areas (Nautical Chart Date)

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## Aids to Navigation

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## Physical Features

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## Stereoscopic Instrument Contours

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## Cultural Features

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## Boundaries

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## Miscellaneous

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<th>33. Geographic Names</th>
<th>34. Juncions</th>
<th>35. Legibility of the Manuscript</th>
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## Discrepancy Overlay

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##ewriter

<table>
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<tr>
<th>40. Reviewer</th>
<th>Date</th>
<th>Supervisor, Review Section or Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJP</td>
<td>5/12/70</td>
<td>Albert C. Rauck, Jr.</td>
</tr>
</tbody>
</table>

## Remarks (See attached sheet)

**Field Completion Additions and Corrections to the Manuscript**

**42.** 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**

<table>
<thead>
<tr>
<th>C. L. Shands</th>
<th>11/2/71</th>
<th><strong>Supervisor:</strong> Albert C. Rauck, Jr.</th>
</tr>
</thead>
</table>

**Reviewer:** B. L. Barge

| 11/4/71 | Albert C. Rauck, Jr. |

**43. Remarks**

Field Edit Applied From: field edit ozalid and field ratio 64 M-3666
FIELD EDIT REPORT

MAP T-12776

Glacier Bay

Field edit of map T-12776 was accomplished during August, 1970. Inspection was done from a launch following 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 and cross referenced where necessary to field ratio photograph 64M3666. 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 identifiable features have been indicated on the field edit ozalid and photographs.

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

LFJC, USESSA
TRANSMITTAL SHEET

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

[Signature]
John B. Watkins, Jr.
CAPTAIN, USESSA
Commanding Officer
USC&GSS FAIRWEATHER
REVIEW REPORT T-12776
SHORELINE
June 26, 1976

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:**
    No registered topographic surveys were available for comparison.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**
    A visual comparison was made with U.S.G.S. 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-9139 (FA-20-4-70), scale 1:20,000, dated 1970. No significant differences were noted.

65. **COMPARISON WITH NAUTICAL CHARTS:**
    A visual comparison was made with Chart 8202, scale 1:209,978, 18th edition, dated Nov. 23, 1973. No significant differences were noted. The chart scale is too small for an adequate comparison.

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
Cartographer
26 June 1975

Approved for forwarding:

Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch  Chief, Coastal Mapping Div.