**T-12767**

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

**DESCRIPTIVE REPORT**

<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-12767</td>
</tr>
<tr>
<td>Classification No.</td>
<td></td>
</tr>
<tr>
<td>Edition No.</td>
<td>1</td>
</tr>
<tr>
<td>Field Edited</td>
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</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Alaska</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Locality</td>
<td>Glacier Bay</td>
</tr>
<tr>
<td>Locality</td>
<td>Hugh Miller Inlet, Mouth Of</td>
</tr>
</tbody>
</table>

1964 TO 1970

**REGISTRY IN ARCHIVES**

<table>
<thead>
<tr>
<th>Date</th>
<th></th>
</tr>
</thead>
</table>

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*U.S. GOVERNMENT PRINTING OFFICE:1973-761-778*
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
COASTAL MAPPING DIVISION, NORFOLK

Jeffrey G. Carlen

1. INSTRUCTIONS DATED

Nov. 16, 1964
Dec. 18, 1969

2. FIELD

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. GRID(S)
   - State: Alaska
   - Zone: 1

5. SCALE
   - 1:10,000

III. HISTORY OF OFFICE OPERATIONS

1. AEROTRIANGULATION
   - METHOD: Analytic
   - LANDMARKS AND AIDS BY:
   - NAME: D. Brant
   - DATE: Jan. 1968

2. CONTROL AND BRIDGE POINTS
   - METHOD: Coordinatograph
   - PLOTTED BY:
   - CHECKED BY:
   - NAME: C. Blood
   - DATE: Apr. 1970
   - R. White
   - DATE: Apr. 1970

3. STEREOSCOPIC INSTRUMENT
   - COMPILATION
   - INSTRUMENT: Wild B-8
   - SCALE: 1:15,000
   - PLANIMETRY BY:
   - CHECKED BY:
   - NAME: A.L. Shands
   - DATE: Jul. 1970
   - L.O. Neterer
   - DATE: Jul. 1970
   - NA
   - NA

4. MANUSCRIPT DELINEATION
   - METHOD: Smooth ink drafting
   - PLANIMETRY BY:
   - CHECKED BY:
   - NAME: A.L. Shands
   - DATE: Jul. 1970
   - NA
   - NA
   - NA
   - NA

5. OFFICE INSPECTION PRIOR TO FIELD EDIT
   - METHOD: 
   - CHECKED BY:
   - NAME: R. White (Part)
   - DATE: Jul. 1970
   - A.L. Shands
   - DATE: Nov. 1971
   - E.L. Barge
   - DATE: Nov. 1971

6. APPLICATION OF FIELD EDIT DATA
   - METHOD: 
   - CHECKED BY:
   - NAME: C. Bishop
   - DATE: May, 1975

7. COMPIlation SECTION REVIEW
   - METHOD: 
   - CHECKED BY:
   - NAME: 
   - DATE: 

8. FINAL REVIEW
   - METHOD: 
   - CHECKED BY:
   - NAME: 
   - DATE: 

9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH
   - METHOD: 
   - CHECKED BY:
   - NAME: 
   - DATE: 

10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH
    - METHOD: 
    - CHECKED BY:
    - NAME: 
    - DATE: 

11. MAP REGISTERED - COASTAL SURVEY SECTION
    - METHOD: 
    - CHECKED BY:
    - NAME: 
    - DATE: 

NOAA FORM 76-36A
SUPERSEDES FORM C&GS 161 SERIES

* 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.

NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE
--- | --- | --- | --- | ---
64 M(P) 3669 - 3671 | 6/12/64 | 10:25 | 1:40,000 | 3.9 ft. below MLLW
64 M(P) 3680 | 6/12/64 | 10:07 | 1:40,000 | 4.0 ft. below MLLW

2. SOURCE OF MEAN HIGH-WATER LINE:

Photos listed above.

Field inspection (Aug., 1964) of 64 M(P) 3669 and 3670.

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.)

5. FINAL JUNCTIONS

NORTH: T-12758
EAST: T-12768
SOUTH: T-12774
WEST: T-12766

REMARKS
## HISTORY OF FIELD OPERATIONS

### OPERATION

<table>
<thead>
<tr>
<th>Operation</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<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>N.A.</td>
<td></td>
</tr>
<tr>
<td>3. Vertical Control</td>
<td>N.A.</td>
<td></td>
</tr>
<tr>
<td>4. Landmarks and Aids to Navigation</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>5. Geographic Names</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Photo Inspection</td>
<td>W.H. Shearouse</td>
<td>Aug. 1964</td>
</tr>
<tr>
<td>7. Boundaries and Limits</td>
<td>N.A.</td>
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### SOURCE DATA

<table>
<thead>
<tr>
<th>Operation</th>
<th>Photo Number</th>
<th>Station Name</th>
<th>Photo Number</th>
<th>Station Designation</th>
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<tbody>
<tr>
<td>1. Horizontal Control Identified</td>
<td></td>
<td>N.A.</td>
<td></td>
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</tr>
<tr>
<td>2. Vertical Control Identified</td>
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<tr>
<td>3. Photo Numbers (Classification of details)</td>
<td>64 M(P) 3669 and 3670</td>
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<tr>
<td>4. Landmarks and Aids to Navigation Identified</td>
<td>None</td>
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</table>

### Supplemental Maps and Plans

- None

### Other Field Records (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

- Field Inspection Report
# HISTORY OF FIELD OPERATIONS

### I. FIELD EDIT OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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<tbody>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>R.B. Melby</td>
<td>Sept. 1966</td>
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<tr>
<td>3. VERTICAL CONTROL</td>
<td>N.A.</td>
<td>Sept. 1966</td>
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<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>5. GEOGRAPHIC NAMES INVESTIGATION</td>
<td></td>
<td>Complete</td>
</tr>
<tr>
<td>6. PHOTO INSPECTION</td>
<td>W.D. Neff</td>
<td>Aug., 1970</td>
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<td>7. BOUNDARIES AND LIMITS</td>
<td>N.A.</td>
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### II. SOURCE DATA

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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<tr>
<td>64 M 3681</td>
<td>FOIR 1966</td>
<td></td>
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<tr>
<td>64 M(P) 3670 and 3681</td>
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<td></td>
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</table>

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

None

### IV. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

### V. GEOGRAPHIC NAMES:

None

### VI. BOUNDARY AND LIMITS:

None

### VII. SUPPLEMENTAL MAPS AND PLANS

None

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

Field Edit Ozalid and Field Edit Report.
# 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>July, 1970</td>
<td>Advance Superseded</td>
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<td>7/30/70</td>
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<tr>
<td>Field edit applied, Compilation complete</td>
<td>Nov., 1971</td>
<td>Class I Superseded</td>
<td></td>
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<tr>
<td>Final Review</td>
<td>May, 1975</td>
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<td></td>
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</table>

## II. LANDMARKS AND AIDS TO NAVIGATION

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

1. REPORT TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATEFORWARDED:

3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATEFORWARDED:

## 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

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Job Number</th>
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<td>SE Second Edition</td>
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<tr>
<td>TP - (2)</td>
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</tr>
<tr>
<td>DATE OF PHOTOGRAPHY</td>
<td>DATE OF FIELD EDIT</td>
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</tr>
<tr>
<td>Third Edition</td>
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<tr>
<td>TP - (3)</td>
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<tr>
<td>DATE OF PHOTOGRAPHY</td>
<td>DATE OF FIELD EDIT</td>
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</tr>
<tr>
<td>Fourth Edition</td>
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<tr>
<td>TP - (4)</td>
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</tr>
<tr>
<td>DATE OF PHOTOGRAPHY</td>
<td>DATE OF FIELD EDIT</td>
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NOAA FORM 76-36D

U.S. G.P.O. 1972-769380/548 REG.#6
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12767

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 of the area was done in August, 1964.

Bridging was done by analytic aerotriangulation methods in the Rockville Office in January 1968, using 1:40,000 scale panchromatic wide angle photography taken in June, 1964.

Compilation was done at the Atlantic Marine Center, Norfolk, using the Wild B-8 stereoplotter, 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. Photography of the area was taken near low tide.

Field edit was done in conjunction with hydrography in July and August, 1970. This work was adequate; no problems were encountered when it was applied to the manuscript.

Final review was done at the Atlantic Marine Center in May, 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 out-croppings 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 3646, 3651, 3652, 3661, 3662, 3663, 3665 thru 3670, 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 DRADE on flight strip No. 3. These were identified on the contact photos.

The two stations established are RANA and AOE. 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 NADIR was identified.

All stations recovered and identified are Coast and Geodetic Survey stations except HUGH MILLER EAST BASE 1907 and GLOONY 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 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 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 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 CASE and GEIIE and should consist of a combination of triangulation and electronic traverse.

William H. Shearouse
Cartographer

Approved and Forwarded

Richard H. Boulder, 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>
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<tr>
<td>ALUM 1938</td>
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<td>no</td>
<td></td>
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<tr>
<td>TREE 1938</td>
<td>yes</td>
<td>no</td>
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<tr>
<td>SPIT, 1938</td>
<td>yes</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>STAR 1938</td>
<td>yes</td>
<td>yes</td>
<td>64 M 3653 (contact)</td>
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<tr>
<td>EVER 1939</td>
<td>yes</td>
<td>yes</td>
<td>64 M 3661 (enlarg)</td>
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<tr>
<td>ELSE 1939</td>
<td>yes</td>
<td>yes</td>
<td>64 M 3649 (enlarg)</td>
</tr>
<tr>
<td>VENT 1939</td>
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<td>no</td>
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<td>SINK 1939</td>
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<td>ENTER 1939</td>
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<td>KILL 1939</td>
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<td>DRAKE 1939</td>
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<td>64 M 3746 (enlarg)</td>
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<td>KELP 1944</td>
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<td>BUTE 1944</td>
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<td>KNOB 1944</td>
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<tr>
<td>DINGO 1944</td>
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<tr>
<td>ARCH 1944</td>
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<td>yes</td>
<td>64 M 3685 (enlarg)</td>
</tr>
<tr>
<td>RAMPART 1944</td>
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<td>FLAT 1939</td>
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<td>yes</td>
<td>64 M 3666 (enlarg)</td>
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<td>HUGH MILLER W BASE 1907</td>
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<td>64 M 3668 (enlarg)</td>
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<td>64 M 3761 (enlarg)</td>
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<td>TLINGIT 1939</td>
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<td>64 M 3761 (enlarg)</td>
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<td>GEIKIE 1939</td>
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<td>RANA 1964</td>
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<td>64 M 3669 (enlarg)</td>
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<td>64 M 3765 (contact)</td>
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<tr>
<td>FLAG 1944</td>
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<td>NORTE 1939</td>
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<td>QUICK 1939</td>
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PHOTOGRAMMETRIC PLOT REPORT
Job PH-6502
Glacier Bay, Alaska

January 8, 1968

21. Area Covered

The area covered in this report is in the vicinity of
Glacier Bay, Alaska, and is a continuation of Project 21511
dated August 1965. The registry numbers of the 1:10,000
scale maps are T-12756 thru T-12758, T-12766 and T-12767
and T-12774. Maps T-12768 and T-12775 were partially com-
pleted from a previous bridge. The purpose of this bridging
is to furnish positions of points to control models for the
compilation of shoreline mapping. The attached sketch of
strips bridged shows the triangulation used in the adjustment.

22. Method

Two strips of photography were bridged using analytic aero-
triangulation methods. Strips 7 and 8 (1:40,000 scale, RC-9
panchromatic photography) were adjusted to ground positions
with field identified points. Satisfactory ties were made
between strips. The photographic plates used in bridging
are printed emulsion to emulsion.

23. Adequacy of Control

Horizontal control was adequate and complied with the project
instructions. All field identified control points were
natural objects. Closures to control are indicated on the
listing of the aerotriangulation adjustments.

24. Supplemental Data

USGS quadrangles were used to obtain vertical control needed
for the strip adjustments.

25. Photography

Photography was adequate and diapositives were of good quality.

Submitted by:

Donald M. Brant

Approved and forwarded:

H. P. Eichert, Chief
Aerotriangulation Section
Common pass points on photo 64-M-3669 were used for Strip 3 (old bridge) and Strip 7 (new bridge). A discrepancy exists between common pass point positions from both bridges. However, it is believed that Strip 7 is the stronger bridge, as the pass points from the above mentioned photo on Strip 3 went beyond control.

In order to get a satisfactory junction between Strips 3 and 7 it may be advisable to mean positions of these common pass points.
## Descriptive Report Control Record

<table>
<thead>
<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>Dist. from Grid or Projection Line (m)</th>
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<tbody>
<tr>
<td>Four, 1966</td>
<td>G.P. Vol. 3, Pg. 1038</td>
<td>N.A. 1927</td>
<td>58° 45' 26.24389&quot;</td>
<td>136° 31' 46.95978&quot;</td>
<td>812.0 (1044.6)</td>
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<td>Paul Alaska, 1907</td>
<td>G.P. Vol. 9, Pg. 65</td>
<td>N.A. 1927</td>
<td>58° 47' 50.000&quot;</td>
<td>136° 30' 58.703&quot;</td>
<td>1547.2 (309.4)</td>
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</table>

Computed by: C. Blood  Date: 4/24/70  Checked by: R. White  Date: 4/24/70
COMPILATION REPORT

T-12767

PH-6502

31. **DELINEATION**

The Wild B-8 Stereoplotter was used. Photograph coverage was adequate.

There was field inspection prior to compilation and it was used to great advantage during compilation.

32. **CONTROL**


33. **SUPPLEMENTAL DATA**

None

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs. One pond was identified by the field inspector.

35. **SHORELINE AND ALONGSHORE DETAILS**

The MHWL and all alongshore details were delineated on the wild B-8 stereoplotter using the data supplied by the field inspector as a guide.

36. **OFFSHORE DETAILS**

Several Islands, rocks, shoals, and kelp areas were delineated by B-8 method in accordance with the field inspection.
37. **LANDMARKS AND AIDS**

None

38. **CONTROL FOR FUTURE SURVEYS**

None

39. **JUNCTIONS**

Junctions were made with T-12774 to the south, T-12768 to the east, T-12766 to the west and T-12758 to the north.

40. **HORIZONTAL AND VERTICAL ACCURACY**

Common pass points for bridge strips #3 and strip #7 were positioned on photo 64-M-3669. A discrepancy was noticed in the positions of these common points. As suggested in the "Notes to Compiler" submitted with the "Photogrammetric Plot Report", dated January 8, 1968 the positions of these common points were meant for the final solution.

41. **FIELD EDIT**

Field edit was adequate. The reference made in the Field Edit Report and on the ozalid to photograph 64-M-3676 is an error. The manuscript is not covered by 64-M-3676. The reference should have been made to 64-M-3670.

46. **COMPARISON WITH EXISTING MAPS**

A comparison was made with U.S.G.S. Quadrangle, MT. FAIRWEATHER (D-2), ALASKA, scale 1:63,360, dated 1950.

47. **COMPARISON WITH NAUTICAL CHARTS**

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Arnold L. Shands
Cartographer
August 3, 1970

Approved:

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

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12767

Blue Mouse Cove
Charpentier Inlet
Gilbert Peninsula
Glacier Bay
Glacier Bay National Monument
Hugh Miller Inlet
Scidmore Bay

Approved by:

Chas. E. Harrington
Staff Geographer-051xE
### PHOTOGRAMMETRIC OFFICE REVIEW

**T-12767**

<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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#### CONTROL STATIONS

<table>
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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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#### ALONGSHORE AREAS (Nautical Chart Data)

<table>
<thead>
<tr>
<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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#### PHYSICAL FEATURES

<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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<table>
<thead>
<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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#### CULTURAL FEATURES

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<thead>
<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETARY CONTOURS</th>
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<table>
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<tr>
<th>23. STEREOGRAPHIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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#### BOUNDARIES

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<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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<table>
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<th>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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#### MISCELLANEOUS

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<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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<table>
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<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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<table>
<thead>
<tr>
<th>40. REVIEWER</th>
<th>41. REMARKS (See attached sheet)</th>
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<tbody>
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</table>

#### 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.

**COMPILED BY**

A.L. Sanders

**DATE**

Nov. 2, 1971

**SUPERVISOR**

Albert C. Rauch, Jr.

**Reviewer:**

B.L. Barge

Nov. 3, 1971

**REMARKS**

Field edit applied from:

Field edit ozalid and field ratio prints 64 M-3669, 3670 and 3681
FIELD EDIT REPORT  
MAP T-12767  
Glacier Bay

Field edit of map T-12767 was accomplished during July and August, 1970. Inspection was done from a skiff after the hydrography.

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 shore area to field photographs and ozalid. Notes on the heights of rocks, location of the MHWL, and other data pertaining to photo identifiable features have been made in violet on the Field Edit Ozalid and cross referenced where necessary, to field matte ratio prints. Unless otherwise indicated all shoreline features have been verified correct as interpreted. All notes are in violet ink on the following 1:10,000 field photos: 64M3669, 64M3670, 64M3676, and 64M3681.

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 Field Edit data provided and be accepted as an advance manuscript.

Respectfully submitted,

William D. Neff  
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
USCG&GSS FAIRWEATHER
REVIEW REPORT T-12767

SHORELINE

May 28, 1975

61. **GENERAL STATEMENT:**

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

A comparison print, showing differences noted in Items 64 and 65 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 U.S.G.S. Quadrangle MT. FAIRWEATHER (D-2), ALASKA, scale 1:63,360, dated 1950. No significant differences were noted.

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

A comparison was made with verified copies of Surveys H-9142 (FA-10-7-70) and H-9143 (FA-10-8-70), scale 1:10,000, dated 1970. Comparison was good, except for mean lower low water line. This line was not indicated on H-9143. It was indicated on H-9142 with short stretches of solid line connected by dotted line. The final reviewer assumed, after consultation with the hydrographic processing section of the Pacific Marine Center, that the dotted line represented "approximate MLLWL". The dotted line on H-9142 does not follow the MLLWL indicated on the T-sheet at the original compilation stage or after field edit was applied. The MLLWL was removed from T-12767 where soundings proved it to be incorrect.
65. **COMPARISON WITH NAUTICAL CHARTS**

A visual comparison was made with Chart 8202, scale 1:209,978, 18th edition, dated Nov. 23, 1973. A rock charted at Lat. 58° 46.7', Long. 136° 32.6' was not observed by the field inspector in 1964 or by the field editor or hydrographer in 1970. It was not noticed by the compiler and not compiled on the original map. At the time of final review, the photographs of the area were searched for a rock at this position. The predicted stage of tide on the photos was minus 4 feet. No rock could be found, however, a small dark area was noticed at the charted position. It was office interpreted as kelp and added to the manuscript.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

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

Reviewed by:

[Signature]

Charles H. Bishop  
Cartographer  
May 28, 1975

Approved for forwarding:

[Signature]

Victor E. Serena  
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch  
Chief, Coastal Mapping Div.
MONUMENT

COMPARISON PRINT
Purple = H-9142