

T-12782

T-12782

| | |
|---|--------------------|
| 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-12782 |
| Classification No. | Edition No. 1 |
| Field Edited | |
| LOCALITY | |
| State | Alaska |
| General Locality | Glacier Bay |
| Locality | Shag Cove, Head of |
| <hr/> 19 64 TO 19 70 <hr/> | |
| REGISTRY IN ARCHIVES | |
| DATE | |

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

| | | | |
|--|--|---|--|
| NOAA FORM 76-36A (3-72) | | U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. | |
| DESCRIPTIVE REPORT - DATA RECORD | | TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division (Norfolk) OFFICER-IN-CHARGE Jeffrey G. Carlen | | SURVEY NO. T-12782 MAP EDITION NO. (1) MAP CLASS 1 JOB PH. 6502 | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division (Norfolk) OFFICER-IN-CHARGE Jeffrey G. Carlen | | LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__ | |
| I. INSTRUCTIONS DATED | | | |
| 1. OFFICE | | 2. FIELD | |
| November 16, 1964 December 18, 1969 | | | |
| II. DATUMS | | | |
| 1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN | | OTHER (Specify) | |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | OTHER (Specify) | |
| 3. MAP PROJECTION Polyconic | | 4. GRID(S) STATE Alaska ZONE 1 | |
| 5. SCALE 1:10,000 | | STATE _____ ZONE _____ | |
| III. HISTORY OF OFFICE OPERATIONS | | | |
| OPERATIONS | | NAME | DATE |
| 1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY | | G. Ball | Aug. 1965 |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coordinatograph CHECKED BY | | B. Wilson R. White | Apr. 1970 Apr. 1970 |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:15,000 CHECKED BY | | A. Shands C. Bishop; L. Neterer N.A. | Apr. 1970 Apr. 1970 |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Ink Drafting CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY | | B. Wilson L. Graves N.A. B. Wilson L. Graves | June 1970 June 1970 June 1970 June 1970 |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | L. Graves | June 1970 |
| 6. APPLICATION OF FIELD EDIT DATA BY | | B. Barge | Nov. 1971 |
| 7. COMPILATION SECTION REVIEW BY | | R. White | Nov. 1971 |
| 8. FINAL REVIEW BY | | C. Bishop | July 1975 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | | |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY | | n. J. Francis | Aug. 26 1975 |

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12782
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|---|---------|---|----------|---|--|
| CAMERA(S) Wild RC-9 "M" | | TYPES OF PHOTOGRAPHY LEGEND | | TIME REFERENCE | |
| TIDE STAGE REFERENCE JUNEAU | | <input type="checkbox"/> (C) COLOR <input checked="" type="checkbox"/> (P) PANCHROMATIC <input type="checkbox"/> (I) INFRARED | | ZONE Pacific | |
| <input checked="" type="checkbox"/> PREDICTED TIDES (Willoughby Island) <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT | |
| | | | | MERIDIAN 120 W | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| 64 M(P) 3663-3665 | 6/12/64 | 10:06 | 1:40,000 | 4.0 ft. below MLLW | |
| 64 M(P) 3746-3747 | 6/12/64 | 12:13 | 1:40,000 | 1.0 ft. above MLLW | |

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

Field inspection (Aug. 1964), Field edit (Aug. 1970),
and office interpretation of the above listed photos.

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

Office interpretation of the above listed photos.

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

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
| | | | | | |

5. FINAL JUNCTIONS

| NORTH | EAST | SOUTH | WEST |
|---------|---------|-----------|---------|
| T-12777 | T-12783 | No Survey | T-12781 |

REMARKS

T-12782
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|--|---|-------------|
| 1. CHIEF OF FIELD PARTY | R.H. Houlder | Summer 1964 |
| 2. HORIZONTAL CONTROL | RECOVERED BY R.H. Houlder ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY W.H. Shearouse | Aug. 1964 |
| 3. VERTICAL CONTROL NA | RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY | |
| 4. LANDMARKS AND AIDS TO NAVIGATION None | RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION | N.A. |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY W.H. Shearouse | Aug. 1964 |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY NA | |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
| 64 M 3746 | DESERT, 1944 | | |

3. PHOTO NUMBERS (Clarification of details)

64 M 3663, 3765

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. 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, CSI cards.

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12782
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|--|-------------------|-------------|
| 1. CHIEF OF FIELD PARTY | J.B. Watkins, Jr. | Summer 1970 |
| 2. HORIZONTAL CONTROL None RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY | | |
| 3. VERTICAL CONTROL None RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION None RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY | | |
| 5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | | |
| 6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY | M.R. Mulhern | Aug. 1970 |
| 7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY | NA | |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER

STATION NAME

PHOTO NUMBER

STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

64 M 3665

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER

OBJECT NAME

PHOTO NUMBER

OBJECT NAME

5. GEOGRAPHIC NAMES:

☐ REPORT☒ NONE

6. BOUNDARY AND LIMITS:

☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

Field Edit Report, Field Edit Ozalid

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-12782
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

| COMPILATION STAGES | | | DATE MANUSCRIPT FORWARDED | |
|---|-----------|------------|---------------------------|---------------|
| DATA COMPILED | DATE | REMARKS | MARINE CHARTS | HYDRO SUPPORT |
| Compilation complete pending field edit | June 1970 | Superseded | | 6-24-70 |
| Field edit applied, compilation complete | Nov. 1971 | Superseded | | |
| Final Review | July 1975 | | | |
| | | | | |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|--------|---------------------------------|-------------------|---------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

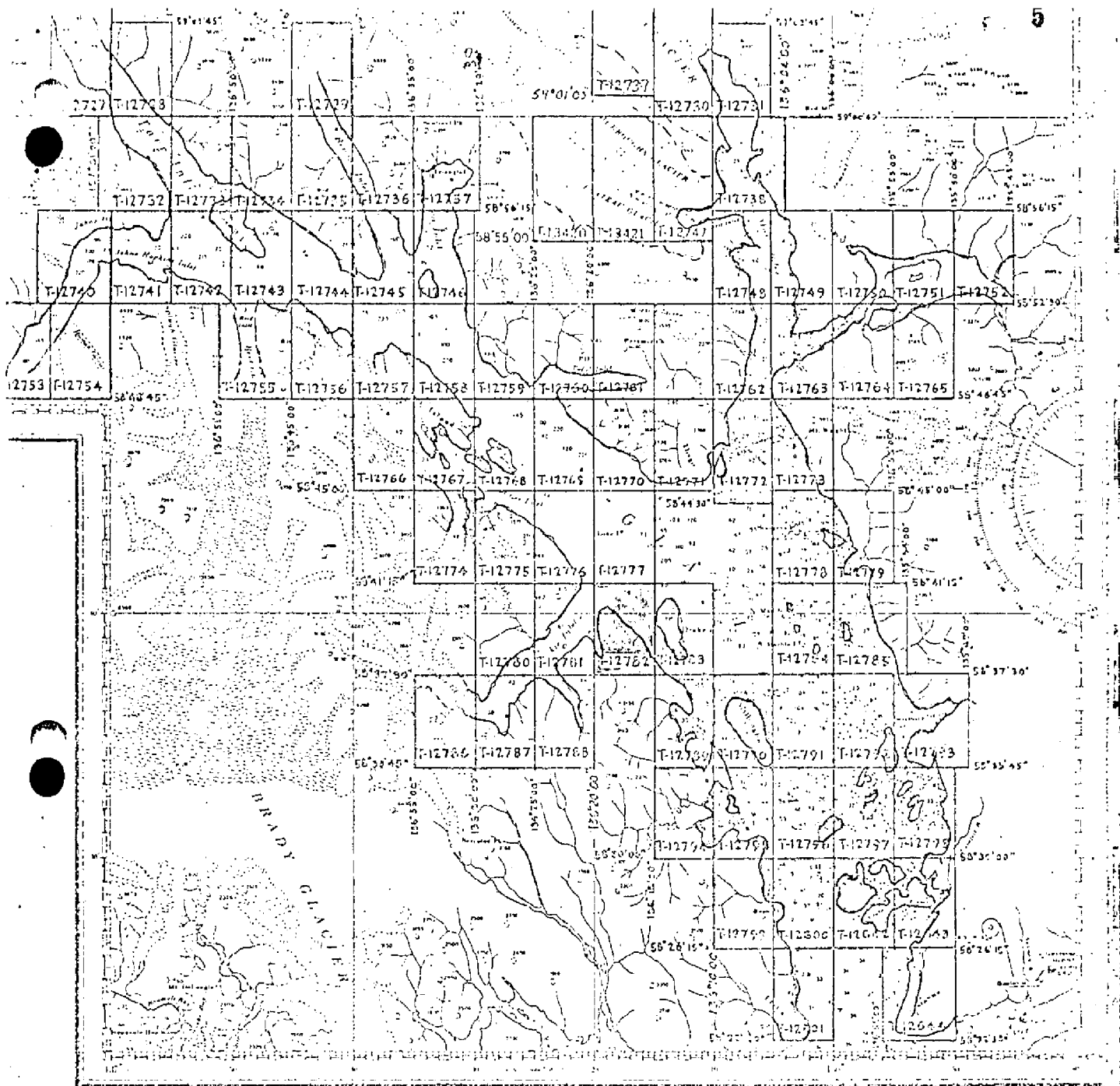
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

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 FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

| | | | |
|-------------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER TP - _____ (2) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| THIRD EDITION | SURVEY NUMBER TP - _____ (3) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| FOURTH EDITION | SURVEY NUMBER TP - _____ (4) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |



REVISED 9-5-12 RWH

JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12782

This 1:10,000 scale shoreline manuscript is one of 80 maps that comprise Project PH-6502 which covers Glacier Bay 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 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. $58^{\circ} 43' 20.492''$, Long. $136^{\circ} 17' 35.614''$, 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 DRAKE on flight strip No. 3. These were identified on the contact photos.

The two stations established are RAMA 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 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 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 northward 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 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 GEIKIE and should consist of a combination of triangulation and electronic traverse.

William H. Shearouse

William H. Shearouse
Cartographer

Approved and Forwarded

Richard H. Houlder

Richard H. Houlder, LCDR, USC&GS

Stations which were recovered, or searched for, or established, and/or identified are tabulated below.

| STATION NAME | RECOVERED | IDENTIFIED | PHOTO NO. |
|-----------------|-----------|------------|---------------------|
| JILL 1938 | yes | yes | 64 M 3692 (enlarg) |
| NONE 1938 | yes | no | |
| ALUM 1938 | yes | no | |
| TREE 1938 | yes | no | |
| SPIT, 1938 | yes | no | |
| STAR 1938 | yes | yes | 64 M 3653 (contact) |
| EVER 1939 | yes | yes | 64 M 3661 (enlarg) |
| ELSE 1939 | yes | yes | 64 M 3649 (enlarg) |
| VENT 1939 | yes | no | |
| SINK 1939 | yes | no | |
| FRANK 1939 | yes | no | |
| OPEN 1939 | yes | yes | 64 M 3649 (contact) |
| GOLD 1939 | yes | no | |
| JUST 1939 | yes | no | |
| DUCE 1939 | yes | no | |
| ENTER 1939 | yes | no | |
| KILL 1939 | yes | no | |
| DRAKE 1939 | yes | yes | 64 M 3648 (contact) |
| RIDGE 1939 | yes | no | |
| DESERT 1944 | yes | yes | 64 M 3746 (enlarg) |
| KELP 1944 | yes | no | |
| JUMBO 1944 | yes | no | |
| MID 1944 | yes | no | |
| BUTE 1944 | yes | no | |

| STATION NAME | RECOVERED | IDENTIFIED | PHOTO NO. |
|---------------------------------|-----------|----------------------|---------------------------------------|
| VEIN 1944 | yes | no | |
| ROUND ? | yes | no | |
| SNOW 1944 | yes | no | |
| BALD 1944 | yes | no | |
| KNOB 1944 | yes | yes | 64 M 3749 (contact) |
| DINGO 1944 | no | | |
| CUBE 1944 | yes | yes | 64 M 3750 (enlarg) |
| POINT 1944 | yes | no | |
| FOX 1944 | yes | no | |
| MINK 1944 | yes | no | |
| ARCH 1944 | yes | yes | 64 M 3685 (enlarg) |
| RAMPART 1944 | yes | no yes | |
| FLAT 1939 | yes | yes | 64 M 3666 (enlarg) |
| HUGH MILLER W BASE 1907 | no | | |
| HUGH MILLER E BASE 1907/1944 | yes | yes | 64 M 3668 (enlarg) |
| GLOOMY 1907 | yes | yes | 64 M 3768 (enlarg) |
| CASE 1939 | yes | yes | 64 M 3762 (enlarg) |
| DONE 1939 | yes | yes | 64 M 3761 (enlarg) |
| TLINGIT 1939 | yes | yes | 64 M 3761 (enlarg) |
| GEIKIE 1939 | yes | no | |
| LONE 1939 | yes | no | |
| RANA 1964 | yes | yes | 64 M 3669 (enlarg) ^{contact} |
| ACE 1964 | yes | yes | 64 M 3765 (contact) |
| FLAG 1944 | yes | no | |
| NORTE 1939 | yes | no | |
| QUICK 1939 | yes | no | |

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 $136^{\circ} 05' 00''$ W to $136^{\circ} 36' 00''$ 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 } |

FAR, 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

LSE, 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}
19503 {-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} |

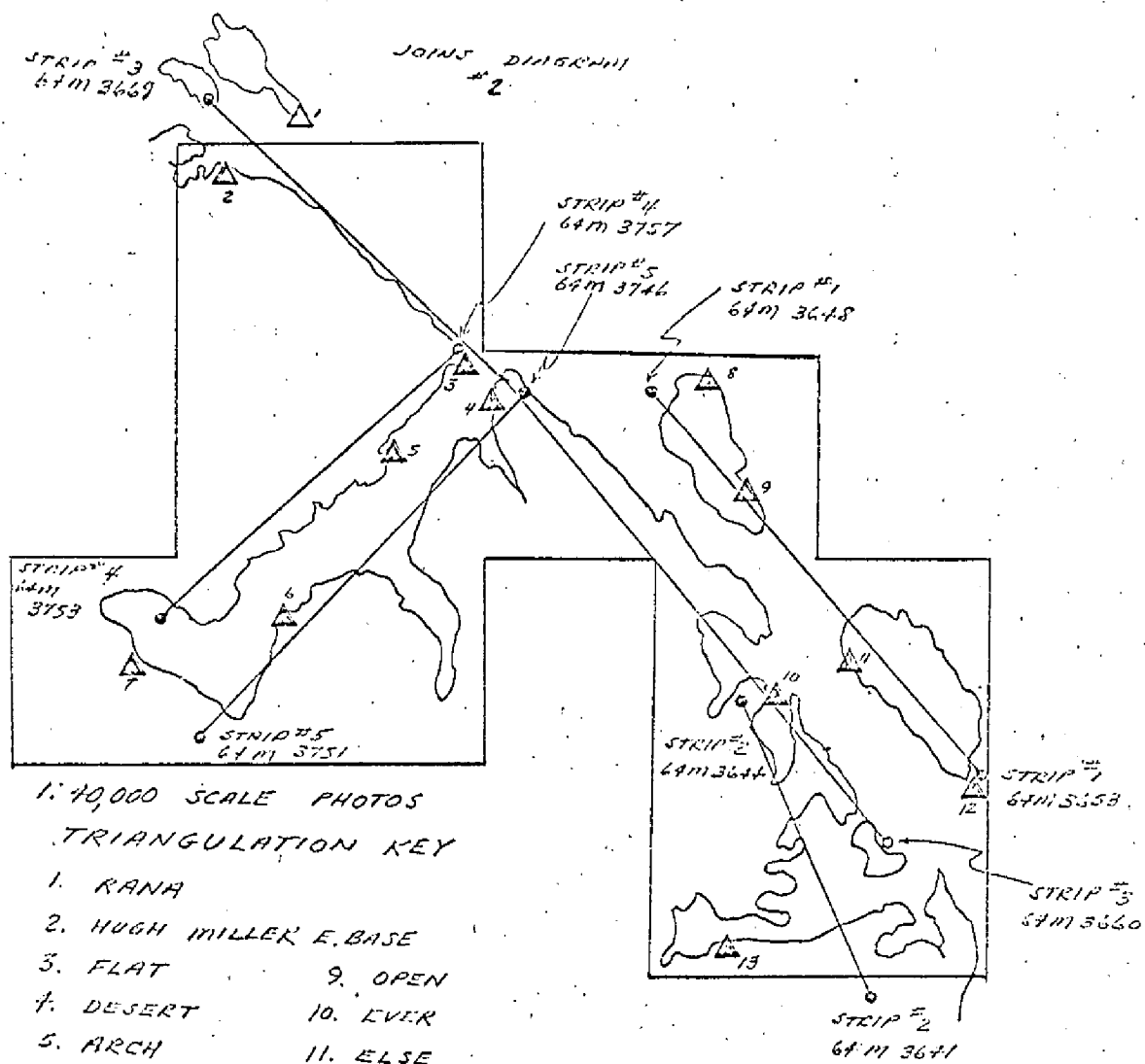
ACE, 1964

| | | |
|------|-------|-------|
| SS#1 | {0.0 | 0.0} |
| SS#2 | {+0.1 | +1.7} |

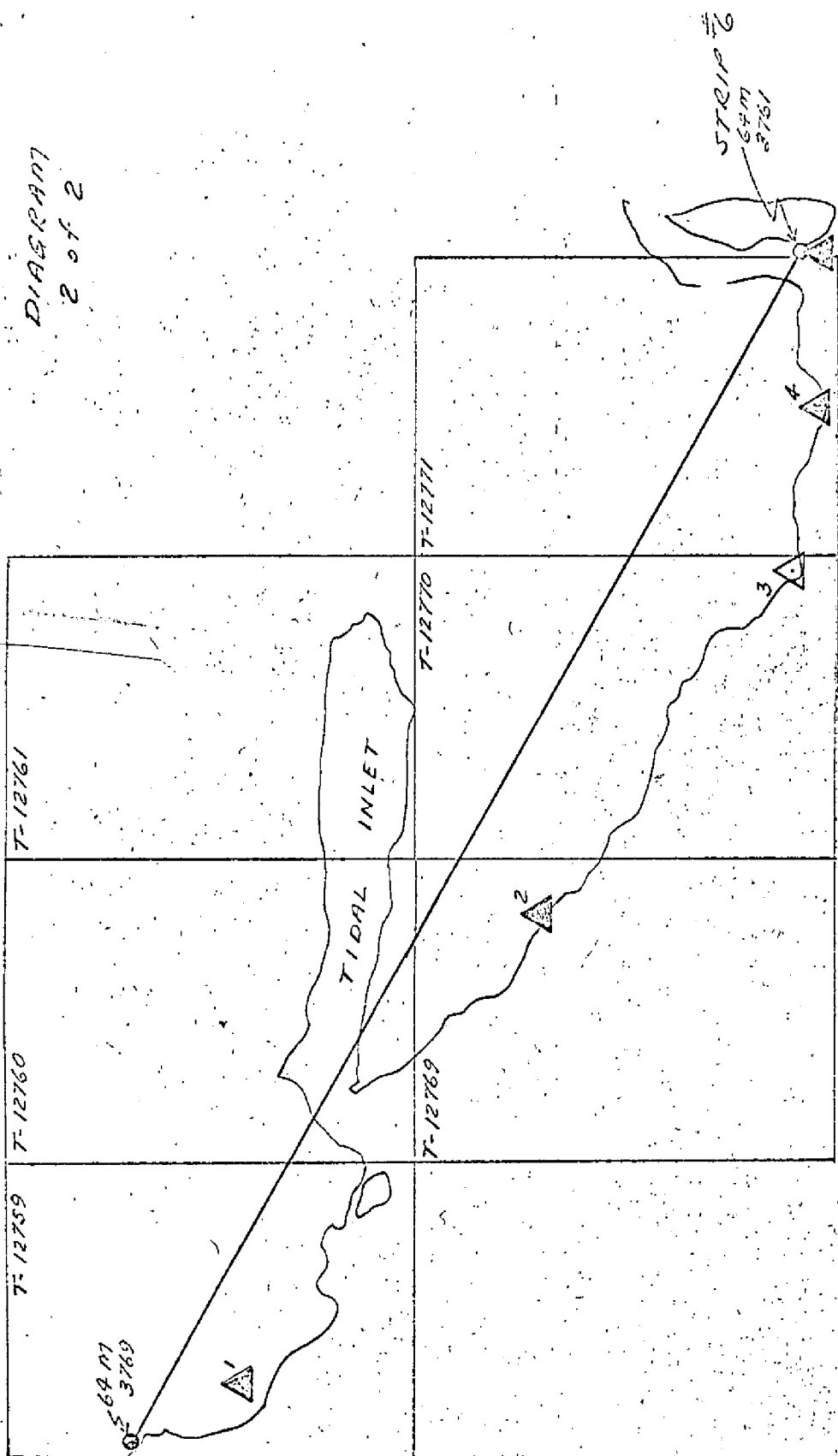
GLOOMY, 1907

| | | |
|------|-------|-------|
| SS#1 | {+0.1 | +2.7} |
| SS#2 | {-0.1 | 0.0} |

GLACIER BAY DIAGRAM 1 of 2



DIARRA
2 of 2



1: 40,000 SCALE PHOTOS
TRIANGULATION KEY
1 GLOOMY (I.B.C.)
2 ACE
3 CASE
4 DONE
5 TILINGIT

△ USED IN ADJUSTMENT
△ NOT USED IN ADJUSTMENT

COMPILATION REPORT

T-12782

31. DELINEATION

The Wild B-8 plotter was used with the assistance of field inspection which was on contact prints of photographs 64 M 3663 and 3665.

Field inspection and photography were satisfactory.

32. CONTROL

See "Photogrammetric Plot Report", dated August, 1965.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated with the Wild B-8 as inspected.

35. SHORELINE AND ALONGSHORE DETAILS

See Item #31.

The approximate mean lower low water line was compiled from office interpretation of the photographs, assisted by field inspection.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with T-12781 to the west, T-12777 to the north (no detail at the junction), and T-12783 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 U.S.G.S. Quadrangle MT. FAIRWEATHER (C-1), ALASKA, scale 1:63,360, dated 1949.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8202, STEPHENS PASSAGE TO CROSS SOUND, scale 1:209,978, 15th edition, dated Oct. 21, 1968.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Charles H. Bishop

for B. Wilson, Cartographic Tech.
June 8, 1970

Approved:

Albert C. Rauck, Jr.

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

28 March 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12782

Geikie Inlet

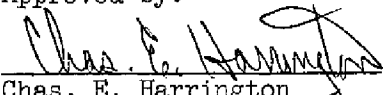
Glacier Bay

Glacier Bay National Monument

Shag Cove

Whidbey Passage

Approved by:


Chas. E. Harrington
Staff Geographer-C51x2

NOAA FORM 75-74
(2-74)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-12782

| | | | | | | | |
|---|--|--|--|---|--|--|--|
| 1. PROJECTION AND GRIDS RJP | | 2. TITLE RJP | | 3. MANUSCRIPT NUMBERS RJP | | 4. MANUSCRIPT SIZE RJP | |
| CONTROL STATIONS | | | | | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LLG | | | | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X X | | 7. PHOTO HYDRO STATIONS X X | |
| 8. BENCH MARKS X X | | 9. PLOTTING OF SEXTANT FIXES X X | | 10. PHOTOGRAMMETRIC PLOT REPORT Rockville Office | | 11. DETAIL POINTS LLG | |
| ALONGSHORE AREAS (Nautical Chart Data) | | | | | | | |
| 12. SHORELINE LLG | | 13. LOW-WATER LINE LLG | | 14. ROCKS, SHOALS, ETC. LLG | | 15. BRIDGES X X | |
| 16. AIDS TO NAVIGATION X X | | 17. LANDMARKS X X | | 18. OTHER ALONGSHORE PHYSICAL FEATURES LLG | | 19. OTHER ALONGSHORE CULTURAL FEATURES X X | |
| PHYSICAL FEATURES | | | | | | | |
| 20. WATER FEATURES LLG | | | | 21. NATURAL GROUND COVER X X | | 22. PLANETABLE CONTOURS X X | |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS X X | | 24. CONTOURS IN GENERAL X X | | 25. SPOT ELEVATIONS X X | | 26. OTHER PHYSICAL FEATURES LLG | |
| CULTURAL FEATURES | | | | | | | |
| 27. ROADS X X | | 28. BUILDINGS X X | | 29. RAILROADS X X | | 30. OTHER CULTURAL FEATURES X X | |
| BOUNDARIES | | | | | | | |
| 31. BOUNDARY LINES X X | | | | 32. PUBLIC LAND LINES X X | | | |
| MISCELLANEOUS | | | | | | | |
| 33. GEOGRAPHIC NAMES CHB | | | | 34. JUNCTIONS LLG | | 35. LEGIBILITY OF THE MANUSCRIPT LLG | |
| 36. DISCREPANCY OVERLAY LLG | | 37. DESCRIPTIVE REPORT LLG | | 38. FIELD INSPECTION PHOTOGRAPHS LLG | | 39. FORMS LLG | |
| 40. REVIEWER <i>Charles H. Bishop</i> L.L. Graves | | | | SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck Jr.</i> Albert C. Rauck, Jr. | | | |
| 41. 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. | | | | | | | |
| COMPILED BY <i>B.L. Barge</i> R.R. White | | | | SUPERVISOR <i>Albert C. Rauck Jr.</i> Albert C. Rauck, Jr. | | | |
| Reviewer: R.R. White | | | | 11/9/71 | | | |
| 43. REMARKS Field Edit Applied From: Field photo 64 M 3665 and field edit ozalid T-12782. | | | | | | | |

FIELD EDIT REPORT

MAP T-12782

Glacier Bay

Field edit of map T-12782 was accomplished during August, 1970. Inspection was done from both a skiff and a launch.

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 64M3665. 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

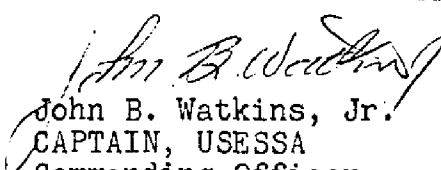
It is recommended that the map be revised in accordance with the notes and be accepted as an advance manuscript.

Respectfully submitted,

Martin R. Mulhern
Martin R. Mulhern
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-12782

SHORELINE

July 9, 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 U.S.G.S. Quadrangle MT. FAIRWEATHER (C-1), ALASKA, scale 1:63,360, dated 1949. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

West of Long. 136° 19', a comparison was made with a verified copy of the smooth sheet for Survey H-9140 (FA-20-5-70), 1:20,000 scale, dated 1970. Significant differences are noted on the comparison print in purple. There are no contemporary surveys covering the remainder of the map.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8202, scale 1:209,978, 18th edition, dated Nov. 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
9 July 1975

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch,

Chief, Coastal Mapping Div.

y=2,495,000FT

JUMBO 1944

36'

B

B

C

O

V.

E

No rock visible
on photos at
this position

Scattered
boulders

Le

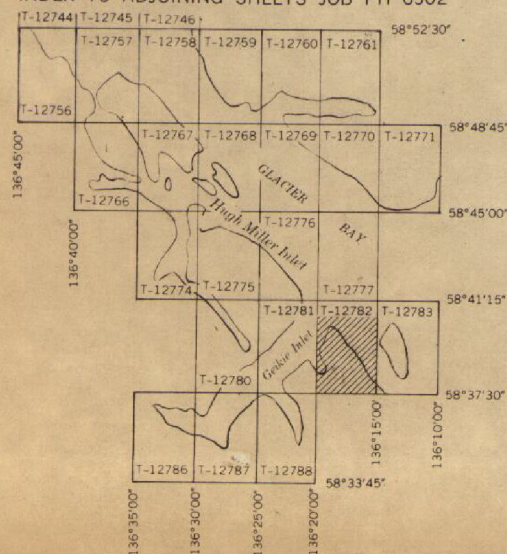
58° 37' 30"

136° 20' 00"

19' 30" X=2,180,000FT. - 19'

18' 30"

INDEX TO ADJOINING SHEETS JOB PH 6502



COMPARISON PRINT

Purple = H-9140

T-12782
1:10,000