

ORIGINAL

T-12789

T-12789

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-12789
Classification No. II Edition No. 1
.....

LOCALITY

State Alaska
General Locality Glacier Bay
Locality Fingers Bay
.....

19 64 TO 1972

REGISTRY IN ARCHIVES

DATE

| | | | |
|--|--|--|--|
| 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, Va. OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR. | | SURVEY T. <u>12789</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>II</u> JOB <u>PH.6502</u> LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u> | |
| I. INSTRUCTIONS DATED | | | |
| 1. OFFICE | | 2. FIELD | |
| Compilation Supplement II Jun 14, 1973 Aerotriangulation May 18, 1973 Final Review Jun 3, 1973 | | February 12, 1970 | |
| 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 type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | OTHER (Specify) | |
| 3. MAP PROJECTION Polyconic | | 4. GRID(S) STATE <u>Alaska</u> ZONE <u>1</u> | |
| 5. SCALE 1:10,000 | | STATE _____ ZONE _____ | |
| III. HISTORY OF OFFICE OPERATIONS | | | |
| OPERATIONS | | NAME | DATE |
| 1. AEROTRIANGULATION METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY _____ | | D. O. Norman | Jul 1973 |
| 2. CONTROL AND BRIDGE POINTS METHOD: <u>Cordomat</u> | | D. Phillips D. Phillips | Jul 1973 Jul 1973 |
| 3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: <u>Wild B-8</u> SCALE: <u>1:15,000</u> | | L.O.N. R.R.W. NA NA | Sep 1973 Sep 1973 |
| 4. MANUSCRIPT DELINEATION METHOD: <u>Smooth drafting</u> SCALE: <u>1:10,000</u> | | W. Gilbert R. R. White NA NA W. Gilbert R. R. White | Sep 1973 Sep 1973 Sep 1973 Sep 1973 |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT | | R. R. White | Sep 1973 |
| 6. APPLICATION OF FIELD EDIT DATA | | None NA | |
| 7. COMPILATION SECTION REVIEW | | None after 5 above | |
| 8. FINAL REVIEW | | C. H. Bishop | Aug 1977 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH | | C. H. Bishop | Dec 1977 |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH | | J. B. Phillips | Jan 1978 |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION | | R. T. Cator | Mar 1978 |

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

T-12789

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|---|--|---|-------|----------------|--------------------|
| CAMERA(S) Wild RC-8 "E" & "M" | | TYPES OF PHOTOGRAPHY LEGEND | | TIME REFERENCE | |
| TIDE STAGE REFERENCE JUNEAU | | X (C) COLOR X X (P) PANCHROMATIC (I) INFRARED | | ZONE | |
| <input checked="" type="checkbox"/> PREDICTED TIDES Willoughby Island | | | | Pacific | |
| <input type="checkbox"/> REFERENCE STATION RECORDS | | | | MERIDIAN | |
| <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | 120th | |
| NUMBER AND TYPE | | DATE | TIME | SCALE | STAGE OF TIDE |
| 72E(C) 4864-4865 | | 7/2/72 | 15:28 | 1:30,000 | 5.0 ft. above MLLW |
| 72E(C) 4838-4841 | | 7/4/72 | 15:38 | 1:30,000 | 4.6 ft. above MLLW |
| *64M(P) 3661-3663 | | 6/12/64 | 10:05 | 1:40,000 | 4.0 ft. below MLLW |

REMARKS

*Field Inspection

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was delineated from office interpretation of the above listed photographs and field inspection on the 1964 photographs.

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

Office interpretation of the 1972 photography listed above. Comparison was made with the 1964 photographs.

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-12783 | T-12790 | T-12794 | No survey |
| REMARKS | | | |
| | | | |

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12789
HISTORY OF FIELD OPERATIONS

| | | | | | | | |
|---|--------------|--|--|--|---------------------|--|----------|
| I. <input checked="" type="checkbox"/> FIELD INSPECTION OPERATION | | | | <input type="checkbox"/> FIELD EDIT OPERATION | | | |
| OPERATION | | | NAME | | DATE | | |
| 1. CHIEF OF FIELD PARTY | | | J. B. Watkins, Jr. | | Aug 1964 | | |
| 2. HORIZONTAL CONTROL | | | RECOVERED BY | | None | | |
| | | | ESTABLISHED BY | | None | | |
| | | | PRE-MARKED OR IDENTIFIED BY | | None | | |
| 3. VERTICAL CONTROL | | | RECOVERED BY | | NA | | |
| | | | ESTABLISHED BY | | NA | | |
| | | | PRE-MARKED OR IDENTIFIED BY | | NA | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | | | RECOVERED (<i>Triangulation Stations</i>) BY | | None | | |
| | | | LOCATED (<i>Field Methods</i>) BY | | None | | |
| | | | IDENTIFIED BY | | None | | |
| 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 | | W. H. Shearouse | | Aug 1964 |
| 7. BOUNDARIES AND LIMITS | | | SURVEYED OR IDENTIFIED BY | | None | | |
| II. SOURCE DATA | | | | | | | |
| 1. HORIZONTAL CONTROL IDENTIFIED | | | | 2. VERTICAL CONTROL IDENTIFIED | | | |
| None | | | | NA | | | |
| PHOTO NUMBER | STATION NAME | | | PHOTO NUMBER | STATION DESIGNATION | | |
| | | | | | | | |
| 3. PHOTO NUMBERS (<i>Clarification of details</i>) | | | | | | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED | | | | | | | |
| None | | | | | | | |
| PHOTO NUMBER | OBJECT NAME | | | PHOTO NUMBER | OBJECT NAME | | |
| | | | | | | | |
| 5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE | | | | 6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE | | | |
| 7. SUPPLEMENTAL MAPS AND PLANS | | | | | | | |
| None | | | | | | | |
| 8. OTHER FIELD RECORDS (<i>Sketch books, etc. DO NOT list data submitted to the Geodesy Division</i>) | | | | | | | |
| Field Inspection Report | | | | | | | |

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

T-12789

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 | Sep 1973 | Class III | 10/5/73 | |
| Final Review prior to registration | Aug 1977 | Class II-Field inspection, previously lost, applied-numerous corrections made. | Nov. 1977 | |
| | | | | |
| | | | | |

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 9-5-72 RHW

JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12789

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

Field inspection was done by a photogrammetric party in August 1964.

Aerotriangulation was done in Rockville in July 1973.

Compilation was done at the Atlantic Marine Center in Sept.-1973. Hydrographic support data was prepared, but never used.

There was no field edit for this map.

Final review was done at the Atlantic Marine Center in August 1977.

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

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 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 ANOB 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 GELKIE and should consist of a combination of triangulation and electronic traverse.

William H. Shearouse

William H. Shearouse
Cartographer

Approved and Forwarded

Richard H. Moulder

Richard H. Moulder, LCDR, USC&GS

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

11

| 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 | yes no | |
| 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 3763 (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) |
| PIAG 1944 | yes | no | |
| NORTE 1939 | yes | no | |
| QUICK 1939 | yes | no | |

GLACIER BAY, ALASKA
Southern Part
Job PH-6502
July 1973

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

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

23. Adequacy of Control. The control was adequate.

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

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

Submitted by,

Don O. Norman

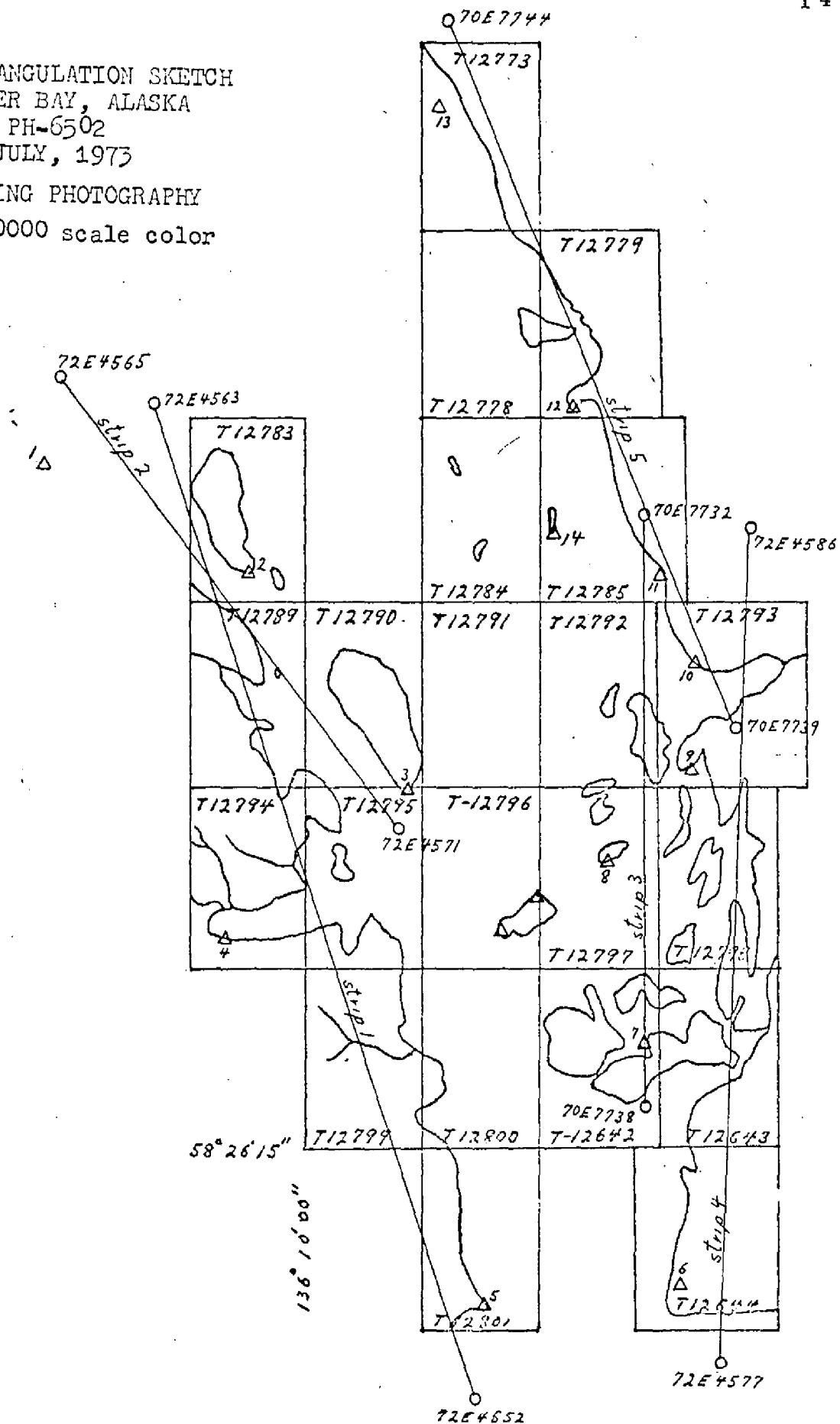
Don O. Norman

approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation
Section

AEROTRIANGULATION SKETCH
GLACIER BAY, ALASKA
PH-6502
JULY, 1973

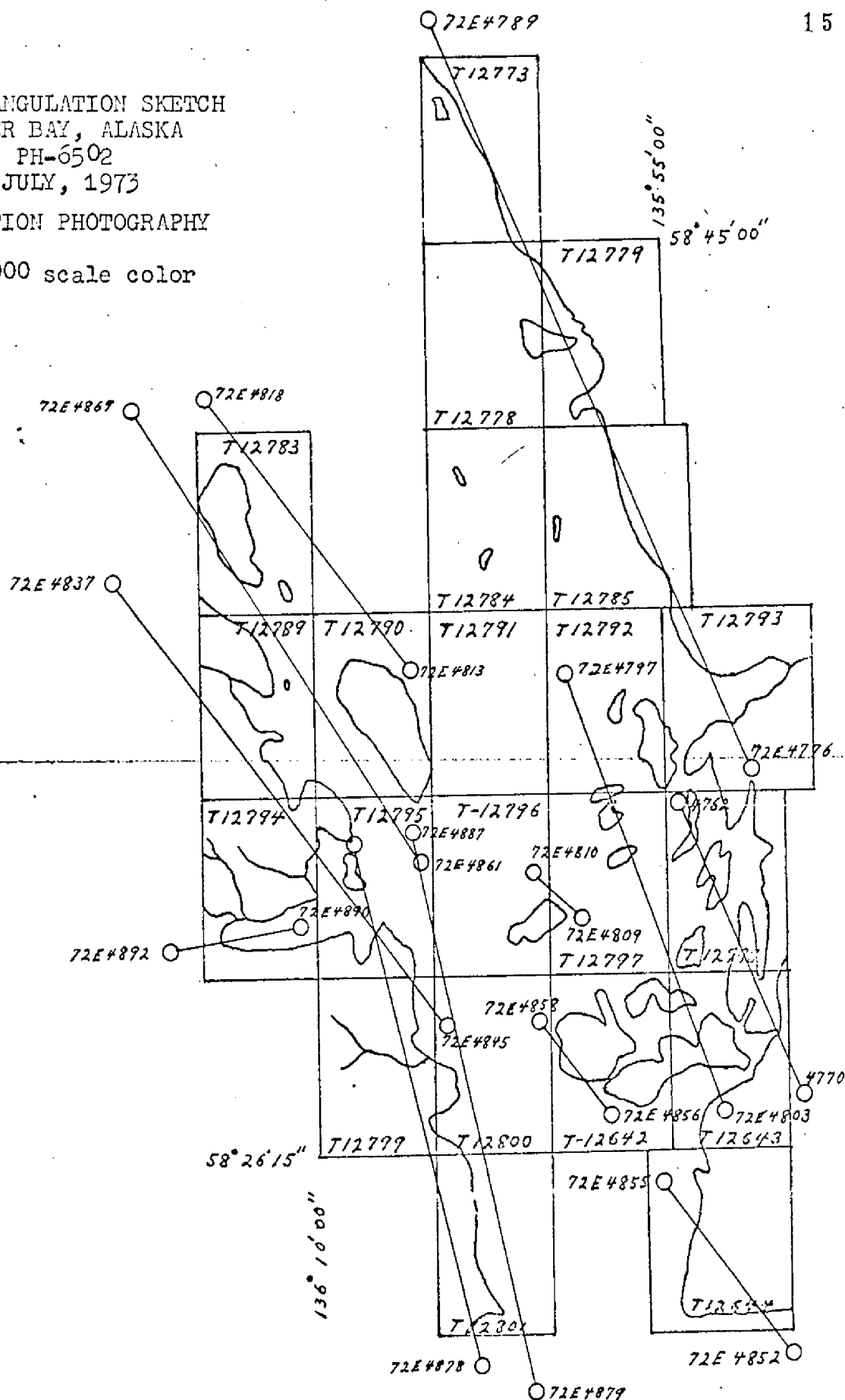
BRIDGING PHOTOGRAPHY
o1:40000 scale color



AEROTRIANGULATION SKETCH
GLACIER BAY, ALASKA
PH-6502
JULY, 1973

COMPILATION PHOTOGRAPHY

○ 1:30000 scale color



GLACIER BAY
Southern Part
Fit to Control

Strip 1

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

Strip 2

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

Strip 3

11 GOAT, 1938 (-0.3, -2.6)
10 CANT, 1939 (+1.9, +2.8)
9 VEGA, 1939 (+1.2, +0.5)
8 SOCK, 1938 (-3.5, -1.9)
7 NAME, 1938 (+0.6, +1.2)

Strip 4

6 STAVE, 1938 (+1.5, -1.3)
773802 (-6.2, +2.7)
736801 (+3.4, -2.0)
9 VEGA, 1939 (+3.3, +0.3)
733802 (-2.0, +0.3)

Strip 5

9 VEGA, 1939 (-0.4, -0.8)
10 CANT, 1939 (-0.1, +2.3)
11 GOAT, 1939 (-2.3, -0.2)
14 LITE, 1939 (-0.5, -2.8)
12 EARL, 1970 (+3.0, +1.8)
13 SNOWHITE, 1970 (-0.5, -0.1)

COMPILATION REPORT

T-12789

31. DELINEATION:

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

32. CONTROL:

See the attached Photogrammetric Plot Report, dated July 1973.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

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

35. SHORELINE AND ALONGSHORE DETAILS:

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

The mean high water line was delineated from the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

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

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: Mt. Fairweather (C-1), ALASKA, scale 1:63,360, dated 1949.

47. COMPARISON WITH NAUTICAL CHARTS:

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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck, Jr. For
W. Gilbert
Cartographic Aid
Sept. 17, 1973

Approved:

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

ADDENDUM TO COMPILATION REPORT

T-12789

Field inspection, which was not utilized during compilation, was taken into consideration during Final Review. The mean high water line was corrected extensively. Foreshore classifications were made to agree with field inspection. The approximate mean low water line was added from office interpretation of the 1972 photographs; comparison was made with the 1964 photographs during this operation.

Submitted by:

Charles H. Bishop

Charles H. Bishop
Final Reviewer
Aug. 16, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12789

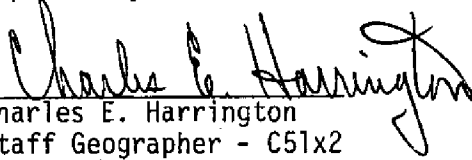
Fingers Bay

Francis Island

Whidbey Passage

Glacier Bay National Monument

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74
(7-75)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T - 12789

| | | | |
|---|---|---|---|
| 1. PROJECTION AND GRIDS RRW | 2. TITLE RRW | 3. MANUSCRIPT NUMBERS RRW | 4. MANUSCRIPT SIZE RRW |
| CONTROL STATIONS | | | |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RRW | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA | | 7. PHOTO HYDRO STATIONS RRW |
| 8. BENCH MARKS NA | 9. PLOTTING OF SEXTANT FIXES NA | 10. PHOTOGRAMMETRIC PLOT REPORT RRW | 11. DETAIL POINTS RRW |
| ALONGSHORE AREAS (Nautical Chart Data) | | | |
| 12. SHORELINE RRW | 13. LOW-WATER LINE RRW | 14. ROCKS, SHOALS, ETC. RRW | 15. BRIDGES RRW |
| 16. AIDS TO NAVIGATION RRW | 17. LANDMARKS RRW | 18. OTHER ALONGSHORE PHYSICAL FEATURES RRW | 19. OTHER ALONGSHORE CULTURAL FEATURES RRW |
| PHYSICAL FEATURES | | | |
| 20. WATER FEATURES RRW | 21. NATURAL GROUND COVER NA | | 22. PLANETABLE CONTOURS NA |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS NA | 24. CONTOURS IN GENERAL NA | 25. SPOT ELEVATIONS NA | 26. OTHER PHYSICAL FEATURES RRW |
| CULTURAL FEATURES | | | |
| 27. ROADS RRW | 28. BUILDINGS RRW | 29. RAILROADS RRW | 30. OTHER CULTURAL FEATURES RRW |
| BOUNDARIES | | | |
| 31. BOUNDARY LINES NA | | 32. PUBLIC LAND LINES NA | |
| MISCELLANEOUS | | | |
| 33. GEOGRAPHIC NAMES RRW | 34. JUNCTIONS RRW | | 35. LEGIBILITY OF THE MANUSCRIPT RRW |
| 36. DISCREPANCY OVERLAY RRW | 37. DESCRIPTIVE REPORT RRW | 38. FIELD INSPECTION PHOTOGRAPHS NA | 39. FORMS RRW |
| 40. REVIEWER <i>Richard R. White</i> Richard R. White 8/18/73 | | 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. | | | |
| COMPILER | | SUPERVISOR | |
| 43. REMARKS | | | |

REVIEW REPORT
T-12789

SHORELINE

August 1977

61. GENERAL STATEMENT:

See Summary which is Page 6 of this Descriptive Report and Addendum to Compilation Report.

No comparison print was made.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

North of Lat. $58^{\circ} 37'$ a comparison was made with a copy of Survey T-6754, 1:20,000 scale, dated Aug.-Sept. 1940 and south of Lat. $58^{\circ} 37'$ a comparison was made with a copy of Survey T-6680, 1:10,000 scale, dated Sept.-Oct. 1939. On both of these prior surveys, the mean high water line is inshore from the mean high water line on T-12789. No other significant differences were noted.

In the area compared, T-12789 supersedes T-6754 and T-6680 for nautical chart construction purposes. T-6754 and T-6680 are the latest registered prior surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle MT. FAIRWEATHER (C-1), ALASKA, 1:63,360 scale, dated 1949. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

North of Station QUICK 1939 a comparison was made with a copy of the verified smooth sheet for Survey H-8817 (LJ-20-2-64), surveyed in June-Aug. 1964. Shoreline is different. Apparently this feature was carried forward from Registered Survey No. 6754. No other significant differences were noted in this area.

No contemporary hydrographic survey was available for comparison south of Station QUICK 1939.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 17300 (8202), 1:209,978 scale, 20th edition, dated Jan. 1, 1977. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with project instructions and meets requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted by:

Charles H. Bishop

Charles H. Bishop
Cartographer
August 16, 1977

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

A.K. Hargood

Chief, Photogrammetric Branch

James Allen

Chief, Coastal Mapping Div.