

T-12710

ORIGINAL

T-12710

|   |                 |
|---|-----------------|
| NOAA FORM 76-35   |                 |
| U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION<br>NATIONAL OCEAN SURVEY |                 |
| DESCRIPTIVE REPORT  |                 |
| Type of Survey ..... Shoreline  |                 |
| Job No. .... PH-6410  | Map No. T-12710 |
| *<br>Classification No. Incomplete Edition No. ..1.....   |                 |
| LOCALITY  |                 |
| State ..... Alaska  |                 |
| General Locality ..... Montague Island  |                 |
| Locality ..... Green Island   |                 |
| .....   |                 |
| <hr/> 1964 TO 19 <hr/>  |                 |
| REGISTRY IN ARCHIVES  |                 |
| DATE .....  |                 |

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

\* CLASS III MANUSCRIPT

## DESCRIPTIVE REPORT - DATA RECORD

T- 12710

PROJECT NO. (II):

PH-6410

FIELD OFFICE (II):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, Virginia

OFFICER-IN-CHARGE

J. Bull - Director

INSTRUCTIONS DATED (II) (III):

|   |               |
|---|---------------|
| Field   | Aug. 21, 1964 |
| Office  | Feb. 8, 1965  |
| Field   | Feb. 18, 1965 |
| Office, Amendment I                               | Feb. 19, 1965 |
| Office, Amendment I to Feb. 19, 1965 Instructions | Feb. 26, 1965 |
| Field   | Apr. 2, 1965  |
| Office  | Dec. 6, 1965  |
| Office Amendment I                                | Jan. 1966     |
| Field   | Mar. 15, 1966 |
| Office Amendment I                                | Apr. 26, 1966 |

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

Aug 1978

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III): MHW

~~MEAN SEA LEVEL~~ EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., ~~MEAN SEA LEVEL~~ mean lower low water

REFERENCE STATION (III):

GREEN, 1933

LAT.:

60° 18' 15.067" (466.3M)

LONG.:

147° 20' 18.988" (291.6M)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 2,305,569.14 Ft.

X = 257,219.59 Ft.

Alaska

3

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,  
OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

## DESCRIPTIVE REPORT - DATA RECORD

T-12710

|   |                          |              |
|---|--------------------------|--------------|
| FIELD INSPECTION BY (III):  |                          | DATE:        |
| None  |                          |              |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):   |                          |              |
| Air photo compilation - Aug. 15, 1964<br><i>NO MEAN LOWER LOW-WATER LINE<br/>IS DELINEATED ON THIS MAP.</i> |                          |              |
| PROJECTION AND GRIDS RULED BY (IV):   |                          | DATE         |
| A. E. Roundtree   |                          | 11/65        |
| PROJECTION AND GRIDS CHECKED BY (IV):   |                          | DATE         |
| R. S. Kornspan  |                          | 11/65        |
| CONTROL PLOTTED BY (III):   |                          | DATE         |
| K. G. Boyle   |                          | 03/66        |
| CONTROL CHECKED BY (III):   |                          | DATE         |
| L. O. Neterer, Jr.  |                          | 03/66        |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):   |                          | DATE         |
| D. O. Norman  |                          | 11/65        |
| STEREOSCOPIC INSTRUMENT COMPILATION (III):<br><br>Kelsh Plotter   | PLANIMETRY               | DATE         |
|   | L. O. Neterer, Jr.       | 04/66        |
|   | REVIEWED BY: K. G. Boyle | 04/66        |
|   | CONTOURS                 | DATE         |
|   | Inapplicable             |              |
| MANUSCRIPT DELINEATED BY (III):   |                          | DATE         |
| K. G. Boyle   |                          | 04/66        |
| SCRIBING BY (III):  |                          | DATE         |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III):   |                          | DATE         |
| COMPILATION: C. H. Bishop<br>FIELD EDIT:<br>SCRIBING AND STICKUP:   |                          | 10/27/66     |
| REMARKS:  |                          |              |
| FIELD EDIT BY: FIELD EDIT CANCELLED   |                          | DATE 8/06/75 |



## DESCRIPTIVE REPORT - DATA RECORD

T-12710

CAMERA (KIND OR SOURCE) (III):

USC&amp;GS Type "S"

## PHOTOGRAPHS (III)

| NUMBER             | DATE     | TIME | SCALE    | STAGE OF TIDE   |
|--------------------|----------|------|----------|-----------------|
| 64S-6162 thru 6165 | 08/15/64 | 0909 | 1:30,000 | 5.5' above MLLW |

## PREDICTED TIDE (III)

## DIURNAL

|  | RATIO OF RANGES | MEAN RANGE | EXTREME RANGE |
|--|-----------------|------------|---------------|
| REFERENCE STATION: CORDOVA, ALASKA         |                 | 10.0'      | 12.4'         |
| SUBORDINATE STATION: PORT CHALMERS, ALASKA |                 | 9.3'       | 11.7'         |
| SUBORDINATE STATION:                       |                 |            |               |

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

2

RECOVERED:

2

IDENTIFIED:

2

NUMBER OF BM(S) SEARCHED FOR (II):

None

RECOVERED:

None

IDENTIFIED

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

T-12710

| COMPILATION RECORD                                   | COMPLETION DATE               | REMARKS                  |
|--|-------------------------------|--------------------------|
| Compilation complete<br>pending field edit.          | 10/27/66                      | Incomplete<br>manuscript |
| Field edit cancelled.                                | 8/06/75                       | Incomplete<br>manuscript |
| Final Review   | 8/77                          | Class III<br>manuscript  |
| A FEW CORRECTIONS WERE<br>MADE PRIOR TO REGISTRATION | TO MARINE<br>CHARTS<br>6/8/78 | "                        |
|  |                               |                          |

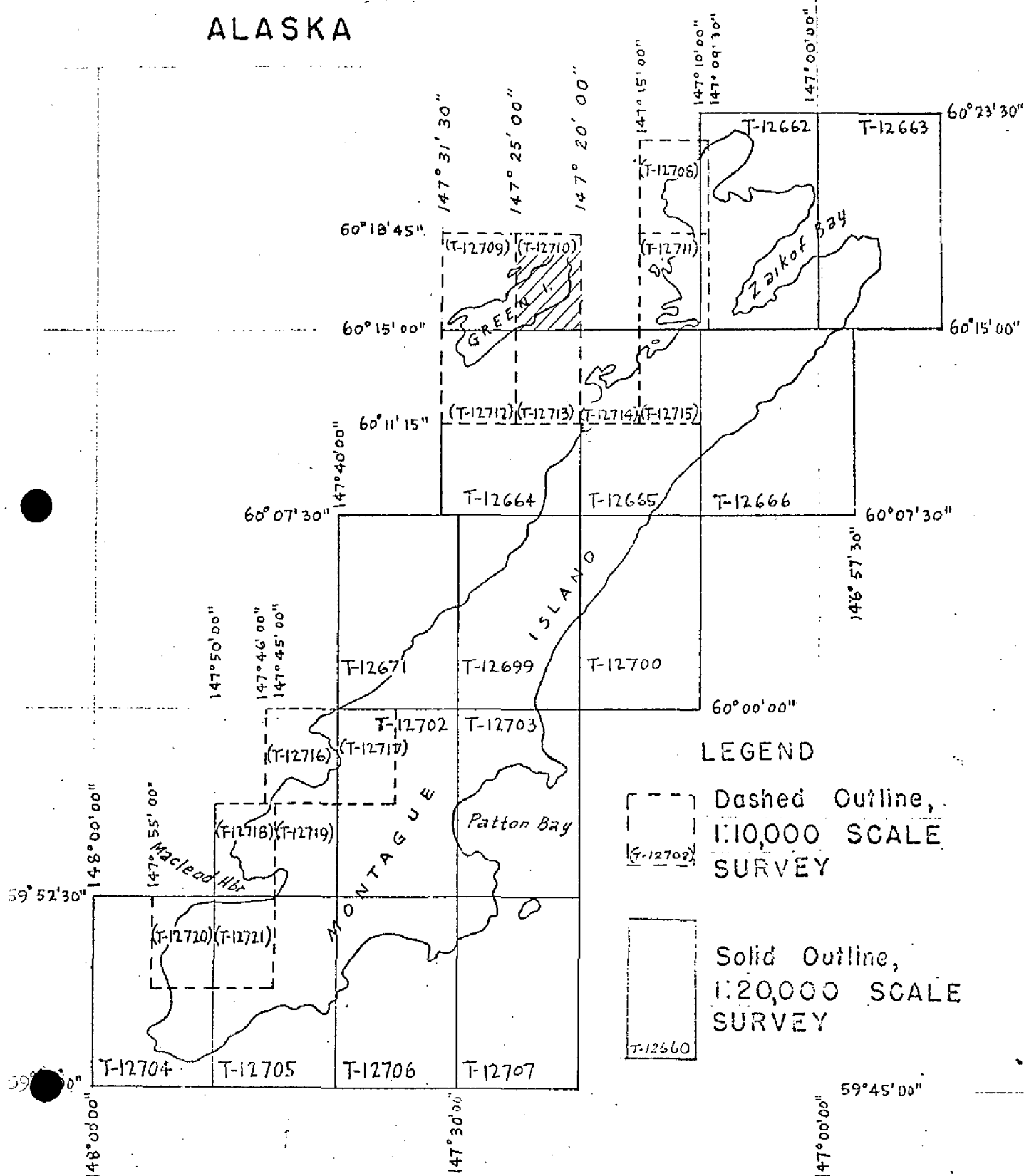
# JOB PH-6410

## SHORELINE MAPPING

SCALE, 1:10,000 - 1:20,000

### MONTAGUE ISLAND

### ALASKA



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORTS

T-12662 through T-12666, T-12671, T-12699,  
T-12700 and T-12702 through T-12721

Project PH-6410 was originally designated 21423 (3). It consists of fourteen maps at 1:10,000 scale and fourteen maps at 1:20,000 scale. Its purpose was to provide up-to-date shoreline for hydrography and for nautical chart construction. Map T-12701, 1:20,000 scale, originally a part of the project, was cancelled.

This project covers Montague Island, Green Island and Little Green Island bordered by Prince William Sound and the Gulf of Alaska. The area was significantly affected by the earthquake of March 27, 1964. Uplifts of as much as 32 ft. have been recorded. This action created new shoreline and alongshore features. The new features, in many instances, appear to be composed of loosely consolidated materials. The configuration of some features as recorded on the August, 1964 photographs could have changed significantly since photography as a result of natural weathering and settling forces.

Photograph coverage was not sufficient to allow the delineation of two previously charted offshore islands at lat.  $60^{\circ} 06.7'$ , long.  $147^{\circ} 36.1'$  (THE NEEDLE) and lat.  $60^{\circ} 11.9'$ , long.  $147^{\circ} 27.1'$  and a rock at lat.  $60^{\circ} 17.3'$ , long.  $147^{\circ} 28.0'$ . All three of which lie within the project limits.

Field work prior to compilation was limited to the recovery establishment and identification of horizontal control necessary for bridging.

The original project, designated 21423(3), was bridged at the Washington Science Center by analytic methods in February, 1965. This bridge did not yield a sufficiently satisfactory solution and resulted in a Preliminary Classification for all compilation derived from it. This compilation took place at the Portland Photogrammetric Office during March and April, 1965. All preliminary data including the base maps and ratio photography was later destroyed.

Incomplete maps were produced at the Atlantic Marine Center from a new bridge run in November, 1965. Compilation was by Kelsh instrument and graphic methods.

Details were delineated on the north margins of T-12716 and T-12718. This was necessary because of a lack of map coverage in these areas.

Map T-12701, a 1:20,000 scale map, was cancelled.

A partial field edit was done on maps T-12671 and T-12699 in May 1975. A complete edit was done for the details shown on T-12664 at the same time. Field edit was cancelled for all the remaining maps in the project. However, the field editor did give the height of three rocks and the identification of a small gravel beach area on T-12714, which was applied.

Final review was performed at the Atlantic Marine Center. The original base manuscripts were forwarded to the Rockville office in September, 1977 for final registration.



FIELD INSPECTION REPORT  
T-12710

There was no field inspection prior to compilation.

Photogrammetric Plot Report No. 2  
Montague Island, Alaska  
PH-6410  
November 1965

This report supersedes the plot report on Montague Island dated February 1965.

21. Area Covered

This report pertains to Montague and Green Islands, Alaska (Zone 3). The sheets covered are T-12660 through T-12666, T-12671 and T-12699 through T-12721.

22. Method

Four strips were bridged by analytic aerotriangulation. Three of the strips had been bridged in January 1965, but the control furnished at that time was inadequate. New control has since been furnished and it was necessary to remeasure only the models in which the new control appeared.

Strips #1, #3, and a strip covering Green Island were adjusted to ground in the normal manner. Strip #2 was adjusted to ground with common points transferred from Strip #1. Common points were also transferred from Strip #1 to the 1:30,000 scale photography that is to be used by compilation. The common points are 180 micron drill holes and there are four per model.

23. Adequacy of Control:

The new control was adequate, however, it was not possible to identify the sub-points of RIVER 2, 1955, or VIC, 1933, on the bridging photography. The use of these stations was not necessary for a satisfactory adjustment.

Sub-point "A" of JUAN, 1965, would not hold with its companion station, sub-point "B". Each sub-point was used in a preliminary straight line adjustment of the strip and sub-point "B" was found to fit well with the other control stations in the strip, while sub-point "A" was so far out of line that we strongly suspect a misidentification.

24. Supplemental Data

Approximate elevations were taken from U.S.G.S. topographic quadrangles to satisfy the requirements of the horizontal-vertical strip adjustment program.

25. Photography

The photography was adequate.

Respectfully submitted:

  
Don O. Norman

Approved and forwarded:



Henry P. Eichert  
Acting Chief, Aerotriangulation Section

## Fit to Control (feet)

STRIP #1

▲ used in adjustment

▲ used as check

JUAN, 1965  
 ▲ sub station "A" -45.1 +23.9  
 ▲ sub station "B" - 1.0 - 0.1  
 CLOUD, 1933  
 ▲ sub station "A" + 8.8 + 5.5  
 ▲ sub station "B" + 1.1 + 1.3  
 CUB, 1933  
 ▲ sub station "A" - 7.0 + 1.9  
 ▲ sub station "B" + 1.5 - 3.7  
 PERCH, 1933 RM #3  
 ▲ sub station "A" - 1.9 + 0.1  
 ▲ sub station "B" -00.2 - 1.1  
 LAGOON, 1933  
 ▲ sub station "A" - 0.2 + 3.0  
 ▲ sub station "B" + 3.6 +11.9  
 WHITE, 1902  
 ▲ sub station "A" +14.0 + 5.2  
 ▲ sub station "B" + 0.5 - 0.9

## STRIP #2 (adjusted on tie points from Strip #1)

▲ 14401 +0.4 -0.3  
 ▲ 14402 -0.8 +0.8  
 ▲ 14403 +0.9 -1.2  
 ▲ 14404 -0.4 +0.4

## STRIP #3

ROCKY, 1933  
 ▲ sub station "A" - 2.0 - 2.0  
 ▲ sub station "B" 0.0 0.0  
 GRAVE, 1933  
 ▲ sub station "A" 0.0 0.0  
 ▲ sub station "B" - 1.8 - 1.0  
 STORK, 1933  
 ▲ direct + 2.1 - 1.6  
 ▲ sub station + 0.1 0.0

## GREEN ISLAND

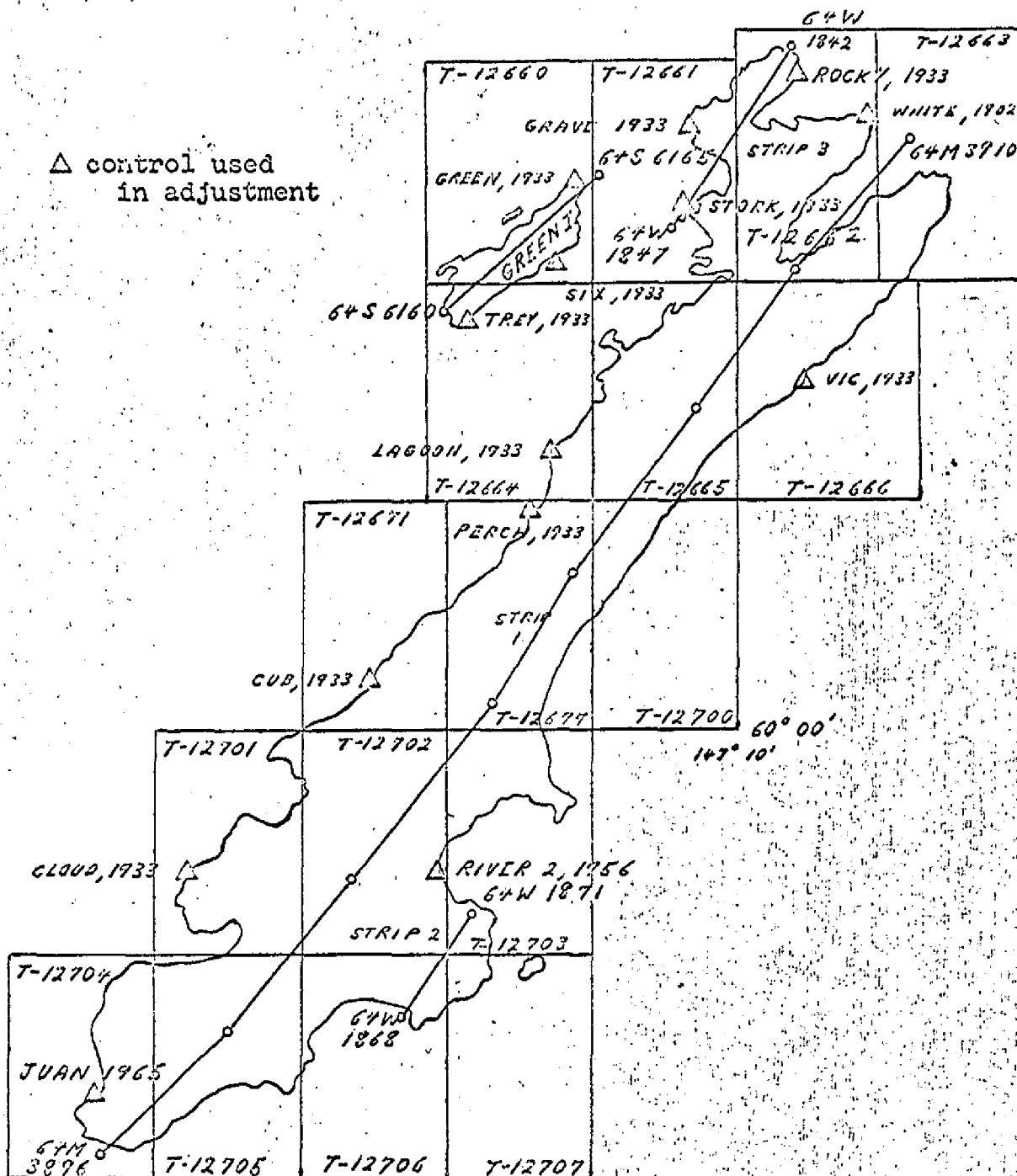
TREY, 1933  
 ▲ sub station "A" 0.0 0.0  
 ▲ sub station "B" - 0.3 + 1.6

SIX, 1933 RM #2  
 ▲ sub station "A" - 1.9 + 0.6  
 ▲ sub station "B" 0.0 0.0  
 GREEN, 1933  
 ▲ sub station "A" 0.0 0.0  
 ▲ sub station "B" - 0.4 + 2.4



AEROTRIANGULATION SKETCH  
MONTAGUE ISLAND  
PH-6410  
November, 1965

△ control used  
in adjustment





COMPILATION REPORT  
T-12710

31. DELINEATION:

The Kelsh Plotter was used. Photography was satisfactory. There was no field inspection.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

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

35. SHORELINE AND ALONGSHORE DETAILS:

All details were delineated from office interpretation of the photography.

36. OFFSHORE DETAILS:

None

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions have been made with T-12713 to the south and T-12709 to the west. There is no contemporary survey to the north or east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparisons have been made with USGS Quadrangles SEWARD (B-1), ALASKA, scale 1:63,360, dated 1952; and SEWARD (B-2), ALASKA, scale 1:63,360, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart No. 8515, scale 1:81,436, revised February 14, 1949.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*C. Blood*

C. Blood  
Cartographic Technician

Approved:

*Albert C. Rauck, Jr.*

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



July 12, 1977

## GEOGRAPHIC NAMES

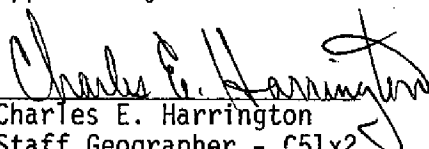
## FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12710

- ✓ Gibbon Anchorage
- ✓ Green Island
- ✓ Prince William Sound

Approved by:

  
Charles E. Harrington  
Staff Geographer - C51x2

## PHOTOGRAMMETRIC OFFICE REVIEW

XT-10368

|   |   |  |   |
|---|---|--|---|
| 1. PROJECTION AND GRIDS<br>CHB  | 2. TITLE<br>CHB   | 3. MANUSCRIPT NUMBERS<br>CHB   | 4. MANUSCRIPT SIZE<br>CHB                     |
| CONTROL STATIONS  |   |  |   |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY<br>CHB   | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)<br>NA |  | 7. PHOTO HYDRO STATIONS<br>NA                 |
| 8. BENCH MARKS<br>NA  | 9. PLOTTING OF SEXTANT FIXES<br>NA  | 10. PHOTOGRAMMETRIC PLOT REPORT<br>CHB   | 11. DETAIL POINTS<br>CHB                      |
| ALONGSHORE AREAS (Nautical Chart Data)  |   |  |   |
| 12. SHORELINE<br>CHB  | 13. LOW-WATER LINE<br>CHB   | 14. ROCKS, SHOALS, ETC.<br>CHB   | 15. BRIDGES<br>CHB                            |
| 16. AIDS TO NAVIGATION<br>CHB   | 17. LANDMARKS<br>CHB  | 18. OTHER ALONGSHORE PHYSICAL FEATURES<br>CHB                                  | 19. OTHER ALONGSHORE CULTURAL FEATURES<br>CHB |
| PHYSICAL FEATURES   |   |  |   |
| 20. WATER FEATURES<br>CHB   | 21. NATURAL GROUND COVER<br>NA  |  | 22. PLANETABLE CONTOURS<br>NA                 |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS<br>NA  | 24. CONTOURS IN GENERAL<br>NA   | 25. SPOT ELEVATIONS<br>NA  | 26. OTHER PHYSICAL FEATURES<br>CHB            |
| CULTURAL FEATURES   |   |  |   |
| 27. ROADS<br>CHB  | 28. BUILDINGS<br>CHB  | 29. RAILROADS<br>CHB   | 30. OTHER CULTURAL FEATURES<br>CHB            |
| BOUNDARIES  |   |  |   |
| 31. BOUNDARY LINES<br>NA  |   | 32. PUBLIC LAND LINES<br>NA  |   |
| MISCELLANEOUS   |   |  |   |
| 33. GEOGRAPHIC NAMES<br>CHB   | 34. JUNCTIONS<br>CHB  |  | 35. LEGIBILITY OF THE MANUSCRIPT<br>CHB       |
| 36. DISCREPANCY OVERLAY<br>CHB  | 37. DESCRIPTIVE REPORT<br>CHB   | 38. FIELD INSPECTION PHOTOGRAPHS<br>NA   | 39. FORMS<br>CHB                              |
| 40. REVIEWER<br>Charles H. Bishop<br>C. H. Bishop   |   | SUPERVISOR, REVIEW SECTION OR UNIT<br>Albert C. Rauck, Jr.<br>A. C. Rauck, Jr. |   |
| 10/27/66  |   |  |   |
| 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<br><br>FIELD EDIT CANCELED 8/06/75  |   |  |   |

REVIEW REPORT  
T-12710

SHORELINE

August 23, 1977

61. GENERAL STATEMENT:

See Summary ~~which is~~<sup>on</sup> Pages 6a and 6b of this Descriptive Report.

The differences observed in the shoreline and alongshore area details during comparisons discussed in Paragraphs 62, 63 and 65 below are results of the 1964 earthquake and advancements made in mapping equipment and methods. This map was not field edited.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-3232, 1:20,000 scale, dated 1911.

See Paragraph 61. Uplift in this area has created a new shoreline which is generally seaward of that previously mapped.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangles Seward (B-1) dated 1952 and Seward (B-2), ALASKA dated 1951, each 1:63,360 scale.

See Paragraphs 61 and 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the area bounded by this map.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition dated March 10, 1973. See Paragraphs 61 and 62.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

*A. L. Shands*

A. L. Shands  
Final Reviewer

Approved for forwarding:

*Joseph W. Vonasek*  
Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved: <sup>and</sup>

*John D. Perrow Jr.*  
Chief, Photogrammetric Branch

*James C. Bell*  
Chief, Coastal Mapping Div.