

T-12706 ORIGINAL

T-12706

| | |
|---|-----------------|
| 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-6410 | Map No. T-12706 |
| Classification No. 3 | Edition No. 1 |
| LOCALITY | |
| State Alaska | |
| General Locality Montague Island | |
| Locality Jeanie Cove | |
| 1964 TO 19 | |
| REGISTRY IN ARCHIVES | |
| DATE | |

DESCRIPTIVE REPORT - DATA RECORD

T - 12706

| | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-------|---------------|--------|--------------|-------|---------------|---------------------|---------------|---|---------------|-------|--------------|--------|--------------|--------------------|-----------|-------|---------------|--------------------|---------------|
| 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): <table border="0"><tr><td>Field</td><td>Aug. 21, 1964</td></tr><tr><td>Office</td><td>Feb. 8, 1965</td></tr><tr><td>Field</td><td>Feb. 18, 1965</td></tr><tr><td>Office, Amendment I</td><td>Feb. 19, 1965</td></tr><tr><td>Office, Amendment I to Feb. 19, 1965 Instructions</td><td>Feb. 26, 1965</td></tr><tr><td>Field</td><td>Apr. 2, 1965</td></tr><tr><td>Office</td><td>Dec. 6, 1965</td></tr><tr><td>Office Amendment I</td><td>Jan. 1966</td></tr><tr><td>Field</td><td>Mar. 15, 1966</td></tr><tr><td>Office Amendment I</td><td>Apr. 26, 1966</td></tr></table> | | | 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 |
| 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 and graphic | | | | | | | | | | | | | | | | | | | | | | |
| MANUSCRIPT SCALE (III): 1:20,000 | STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6000 pantographed to 1:20,000 | | | | | | | | | | | | | | | | | | | | | |
| DATE RECEIVED IN WASHINGTON OFFICE (IV): | DATE REPORTED TO NAUTICAL CHART BRANCH (IV): | | | | | | | | | | | | | | | | | | | | | |
| APPLIED TO CHART NO. | DATE: | DATE REGISTERED (IV): 449 1978 | | | | | | | | | | | | | | | | | | | | |
| GEOGRAPHIC DATUM (III): NA, 1927 | | VERTICAL DATUM (III): MHW MEAN LOW WATER EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., MEAN LOW WATER mean lower low water | | | | | | | | | | | | | | | | | | | | |
| REFERENCE STATION (III): RIVER 2, 1956 (on T-12703) | | | | | | | | | | | | | | | | | | | | | | |
| LAT.: 59° 54' 43.381" (1342.6M) | LONG.: 147° 29' 47.742" (742.0M) | <input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED | | | | | | | | | | | | | | | | | | | | |
| PLANE COORDINATES (IV): y = 2,162,883.50 ft. x = 225,323.04 ft. | | STATE Alaska | | | | | | | | | | | | | | | | | | | | |
| | | ZONE 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-12706

2

| | | |
|--|--------------------------|------------------|
| FIELD INSPECTION BY (III): None | | DATE: |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation - August 15, 1964 <i>NO MEAN LOWER LOW-WATER LINE IS DELINEATED ON THIS MAP.</i> | | |
| PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree | | DATE 3/18/66 |
| PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser | | DATE 3/22/66 |
| CONTROL PLOTTED BY (III): L. O. Neterer, Jr. | | DATE 3/30/66 |
| CONTROL CHECKED BY (III): K. G. Boyle | | DATE 3/30/66 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): D. O. Norman | | DATE 11/65 |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh Plotter | PLANIMETRY C. Blood | DATE 2/68 |
| | REVIEWED: L. O. Neterer | DATE 2/68 |
| | CONTOURS Inapplicable | DATE |
| MANUSCRIPT DELINEATED BY (III): B. Wilson | | DATE 11/25/68 |
| SCRIBING BY (III): | | DATE |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: L. L. Graves | | DATE 12/68 |
| REMARKS: FIELD EDIT CANCELLED 8/06/75 | | |

DESCRIPTIVE REPORT - DATA RECORD

T-12706

CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W"

PHOTOGRAPHS (III)

| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE |
|-------------------|---------|-------|----------|--------------------|
| 64W-1817 and 1818 | 8/15/64 | 10:26 | 1:30,000 | 4.1 ft. above MLLW |
| 64W-1882 and 1883 | 8/15/64 | 11:13 | 1:30,000 | 4.0 ft. above MLLW |
| 64W-1868 and 1869 | 8/15/64 | 11:10 | 1:30,000 | 4.0 ft. above MLLW |

Predicted TIDE (III)

Diurnal

| | | RATIO OF RANGES | MEAN RANGE | SEMI RANGE |
|--|-----------------|------------------|------------|-----------------------|
| REFERENCE STATION: Cordova, Alaska | | | 10.0' | 12.4' |
| SUBORDINATE STATION: Patton Bay, Alaska | | | 7.9' | 10.2' |
| SUBORDINATE STATION: | | | | |
| WASHINGTON OFFICE REVIEW BY (IV): | | DATE: | | |
| PROOF EDIT BY (IV): | | DATE: | | |
| NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): None | RECOVERED: None | IDENTIFIED: None | | |
| NUMBER OF BM(S) SEARCHED FOR (III): None | RECOVERED: None | IDENTIFIED: None | | |
| NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None | | | | |
| NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None | | | | |

REMARKS:

T-12706

| COMPILATION RECORD | COMPLETION DATE | REMARKS |
|---|-----------------------------------|--------------------------|
| Compilation complete pending field edit. | 11 12/68 | Incomplete manuscript |
| Field edit cancelled. | 8/06/75 | Incomplete manuscript |
| Final Review | July 1977 | Class III manuscript |
| A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRATION. | TO MARINE CHARTS 6/8/78 | . |
| | | |

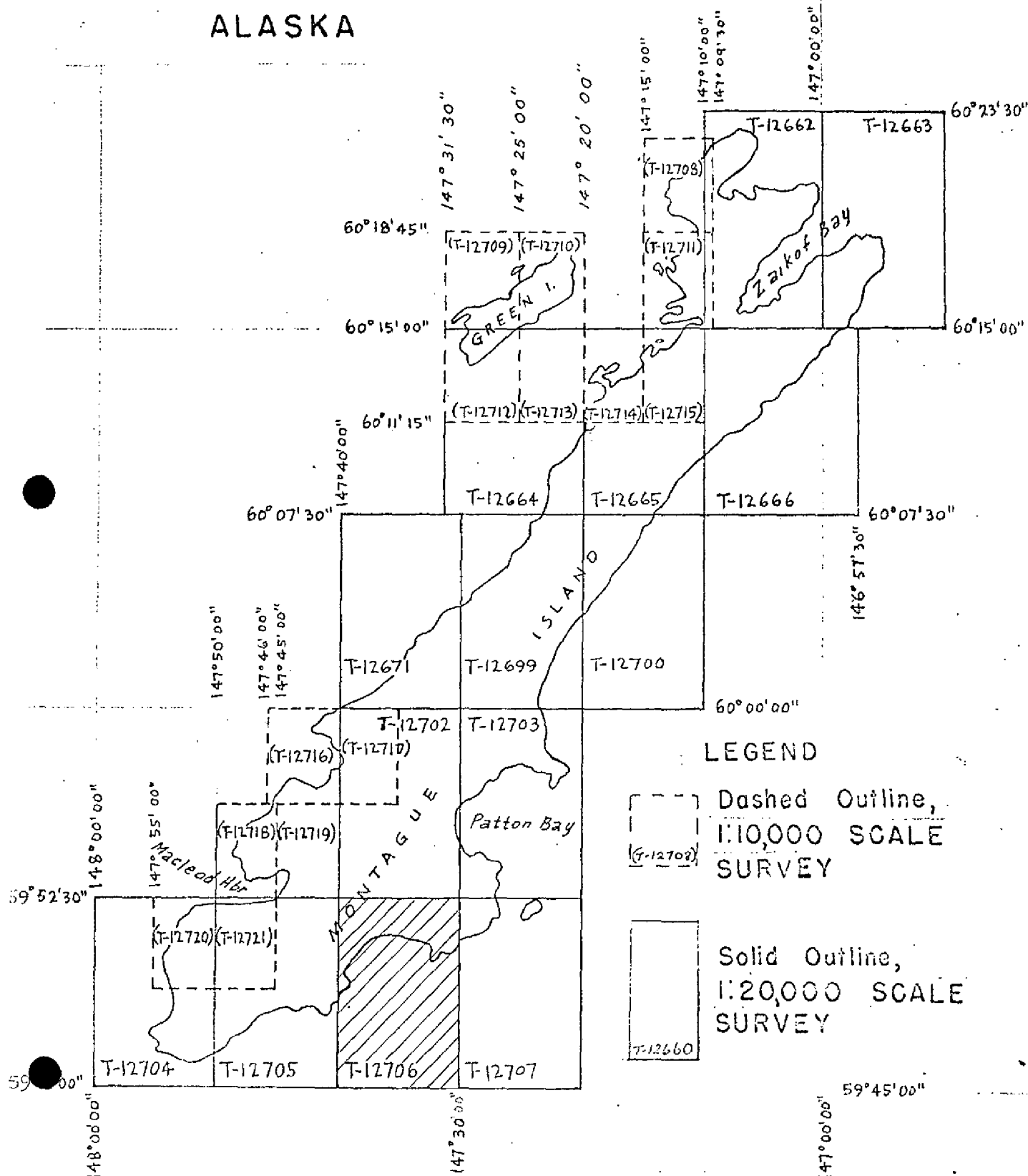
JOB PH-6410

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-12706

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 |

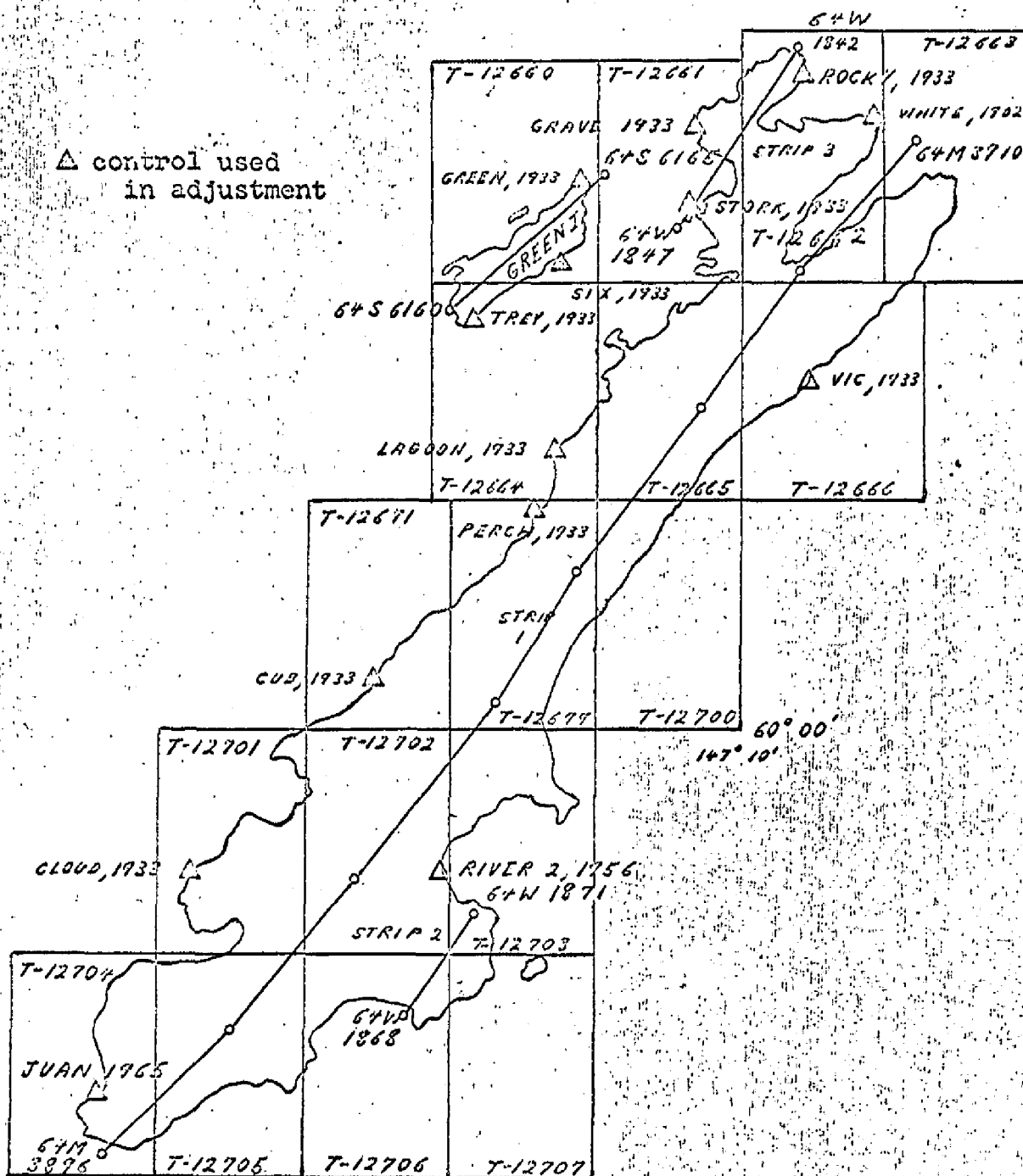
GREEN ISLAND

| | | |
|-------------------|-------|-------|
| 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
MONTAQUE ISLAND
PH-6410
November, 1965

△ control used
in adjustment



COMPILATION REPORT

T-12705

31. DELINEATION:

The Kelsh plotter was used for the pass points, some of the bluff, and drainage; The rest of the detail was compiled graphically without field inspection.

The photographs were satisfactory, except that the limits of the foul area are in doubt because of light reflection.

32. CONTROL:

See Photogrammetric Plot Report No. 2, dated November 1965, attached.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours - inapplicable.

Drainage - See Item 31.

35. SHORELINE AND ALONGSHORE DETAILS:

See Item 31.

36. OFFSHORE DETAILS:

See Item 31.

37. LANDMARKS AND AIDS:

No charted landmarks or aids were noted during compilation.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junction has been made with T-12705 to the west and T-12707 to the east. There is no detail at the north junction and no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41. COMPARISON WITH OLD HYDRO SURVEYS:

Comparison has been made with H-4730, scale 1:60,000, dated 1927.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle BLYING SOUND (D-1 and D-2), ALASKA, scale 1:63,360, dated 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 8515, scale 1:81,436, published November 1935 (7th Edition), and revised to February 14, 1949.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by,

Albert C. Rauck, Jr. FOR
B. Wilson
Cartographic Technician

Approved:

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

July 12, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12706

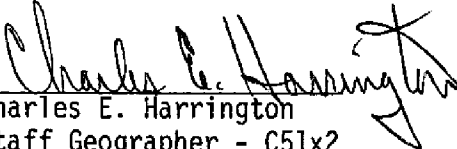
Gulf of Alaska ✓

Jeanie Cove ✓

Jeanie Point ✓

Montague Island ✓

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

FORM C&GS-1002
(9-66)U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T- 12706

| | | | |
|---|---|--|---|
| 1. PROJECTION AND GRIDS LLG | 2. TITLE LLG | 3. MANUSCRIPT NUMBERS LLG | 4. MANUSCRIPT SIZE LLG |
| 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) NA | | 7. PHOTO HYDRO STATIONS NA |
| 8. BENCH MARKS NA | 9. PLOTTING OF SEXTANT FIXES NA | 10. PHOTOGRAMMETRIC PLOT REPORT LLG | 11. DETAIL POINTS LLG |
| ALONGSHORE AREAS (Nautical Chart Data) | | | |
| 12. SHORELINE LLG | 13. LOW-WATER LINE LLG | 14. ROCKS, SHOALS, ETC. LLG | 15. BRIDGES LLG |
| 16. AIDS TO NAVIGATION LLG | 17. LANDMARKS LLG | 18. OTHER ALONGSHORE PHYSICAL FEATURES LLG | 19. OTHER ALONGSHORE CULTURAL FEATURES LLG |
| PHYSICAL FEATURES | | | |
| 20. WATER FEATURES LLG | | 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 LLG |
| CULTURAL FEATURES | | | |
| 27. ROADS LLG | 28. BUILDINGS LLG | 29. RAILROADS LLG | 30. OTHER CULTURAL FEATURES LLG |
| BOUNDARIES | | | |
| 31. BOUNDARY LINES NA | | 32. PUBLIC LAND LINES NA | |
| MISCELLANEOUS | | | |
| 33. GEOGRAPHIC NAMES LLG | | 34. JUNCTIONS LLG | 35. LEGIBILITY OF THE MANUSCRIPT LLG |
| 36. DISCREPANCY OVERLAY LLG | 37. DESCRIPTIVE REPORT LLG | 38. FIELD INSPECTION PHOTOGRAPHS NA | 39. FORMS LLG |
| 40. REVIEWER Albert C. Rauck, Jr. FOR L. L. Graves 12/68 | | SUPERVISOR, REVIEW SECTION OR UNIT 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 FIELD EDIT CANCELLED 8/06/75 | | | |

REVIEW REPORT
T-12706

SHORELINE

July 28, 1977

61. GENERAL STATEMENT:

Two foul areas on the west side of Jeanie Cove are very near the seaward limit of photocoverage. It is possible that other foul areas may lie beyond the photo limit. Because of this the limit of photo coverage is shown on the map.

Field edit was cancelled for this map.

See Summary, Pages 6a and 6b, of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-8470, 1:20,000 scale compiled on the Valdez Datum from photography flown in June 1943. T-8470 covers the shoreline area from longitude 147° 39' 00" eastward to longitude 147° 30' 00" which is the eastern limit of T-12706. No comparison was made in the area from longitude 147° 39' 00" to longitude 147° 40' 00". No registered topographic survey of that area was available at the Atlantic Marine Center at the time of final review.

The comparison with T-8470 revealed that the area has experienced an uplift causing a seaward shift of the shoreline and alongshore details.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Blying Sound (D-1 and D-2), ALASKA, 1:63,360 scale, dated 1953. The shoreline shown on T-12706 is generally seaward of that shown on the quadrangle. No other significant differences were noticed.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic surveys were conducted in the area.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition, dated March 10, 1973. The area just outside of Jeanie Cove where a 7 fathom sounding is recorded (Lat. $59^{\circ} 48.8'$, Long. $147^{\circ} 34.1'$) is beyond the limits of the photography. The uplift caused by the earthquake make this a potentially dangerous feature. Rocks charted in Jeanie Cove and off Jeanie Point were observed to have risen considerably.

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: ^{BW}

John D. Perrow Jr.

Chief, Photogrammetric Branch

James A. Allen

Chief, Coastal Mapping Div.