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-6/10 Map No.: T-12720
Classification No.: Incomplete Edition No.: 1

LOCALITY
State: Alaska
General Locality: Montague Island
Locality: San Juan Bay

1964 TO 19

REGISTRY IN ARCHIVES

DATE

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* CLASS III MANUSCRIPT
DESCRIPTIVE REPORT - DATA RECORD

T - 12720

PROJECT NO. (iii):
PH-6410

FIELD OFFICE (iii):
None

CHIEF OF PARTY

PHOTOGRAWMETRIC OFFICE (iii):
Atlantic Marine Center, Norfolk, Va.

OFFICER-IN-CHARGE
J. Bull, Director

INSTRUCTIONS DATED (iii) (iv):
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):
4-9-1978

GEOGRAPHIC DATUM (iii):
N.A., 1927

VERTICAL DATUM (iii):
NHW

REFERENCE STATION (iii):
JUAN, 1965 (T-1270h)

LAT.: LONG.: ADJUSTED X UNADJUSTED

PLANE COORDINATES (iv):
Y = 2,121,561.61 Ft. X = 149,035.78 Ft.

STATE ZONE
Alaska 3

roman numerals indicate whether the item is to be entered by (i) 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-12720

FIELD INSPECTION BY (III):

None

DATE:

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Air photo compilation - August 15, 1964

NO MEAN LOWER LOW WATER LINE IS DELINEATED ON THIS MAP.

DATE

PROJECTION AND GRIDS RULED BY (IV):

A. E. Roundtree
3/18/66

PROJECTION AND GRIDS CHECKED BY (IV):

R. Glaser
3/22/66

CONTROL PLOTTED BY (III):

L. O. Neterer, Jr.
3/25/66

CONTROL CHECKED BY (III):

K. G. Boyle
3/25/66

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

D. O. Norman
11/65

STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY

Kelsh Plotter
05/66

REVIEWED: B. H. Barnes
05/66

CONTOURS

Inapplicable

DATE

MANUSCRIPT DELINEATED BY (III):

J. S. Place
05/66

DATE

SCRIBING BY (III):

DATE

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

COMPILATION: B. Wilson
9/06/68

FIELD EDIT:

SCRIBING & STICKUP:

DATE

REMARKS:

FIELD EDIT BY: FIELD EDIT CANCELLED
8/06/75

DATE
**CAMERA (KIND OR SOURCE) (III):**

**U.S.G.S. Type**

**PHOTOGRAPHS (III)**

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<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<td>6h-W-1863 thru 1865</td>
<td>08/15/64</td>
<td>10:58</td>
<td>1:30,000</td>
<td>4.0' above MLLW</td>
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<tr>
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<tr>
<td>64-W-1432 thru 1442</td>
<td>08/07/64</td>
<td>14:33</td>
<td>1:10,000</td>
<td>2.8' below MHW</td>
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**PREDICTED TIDE (III)**

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<th>REFERENCE STATION:</th>
<th>Cordova, Alaska</th>
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**DIURNAL**

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<th>SUBORDINATE STATION:</th>
<th>Macleod Harbor, Alaska</th>
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**WASHINGTON OFFICE REVIEW BY (IV):**

**PROOF EDIT BY (IV):**

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):**

- None

**NUMBER OF BM(S) SEARCHED FOR (III):**

- None

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

- None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):**

- None

**REMARKS:**

- None
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<th>Completion Date</th>
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<td>Incomplete manuscript</td>
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<td>pending field edit.</td>
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<td>Incomplete manuscript</td>
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<tr>
<td>Final Review</td>
<td>8/77</td>
<td>Class III Manuscript</td>
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</table>

A few corrections were made prior to registration. Charts 6/3/78.
JOB PH-6410
SHORELINE MAPPING
SCALE, 1:10,000 - 1:20,000
MONTAGUE ISLAND
ALASKA

LEGEND

Dashed Outline,
1:10,000 SCALE SURVEY

Solid Outline,
1:20,000 SCALE SURVEY
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° 06.7', long. 147° 36.1' (THE NEEDLE) and lat. 60° 11.9', long. 147° 27.1' and a rock at lat. 60° 17.3', long. 147° 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-12720

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 aero triangulation.
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 ad-
justed 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 prelimi-
inary 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:

[Signature]

Don O. Norman

Approved and forwarded:

[Signature]

Henry P. Eichert
Acting Chief, Aerotriangulation Section
Fit to Control (feet)

**STRIP #1**

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<thead>
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<th>1933</th>
<th>PERCH, 1933</th>
<th>LAGOON, 1933</th>
<th>WHITE, 1902</th>
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**STRIP #2** (adjusted on tie points from Strip #1)

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**GREEN ISLAND**

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**COMPUTED BY**

A. C. Rauck, Jr.  
01/23/68

**CHECKED BY**

B. Wilson  
08/28/68
31. **DELINEATION:**

   The Kelsh Plotter was used. Photography was satisfactory. There was no Field Inspection.

32. **CONTROL:**

   See Photogrammetric Plot Report, herewith.

33. **SUPPLEMENTAL DATA:**

   None.

34. **CONTOURS AND DRAINAGE:**

   Contours are inapplicable.

   Drainage was delineated from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

   All details were delineated from office interpretation of photographs.

36. **OFFSHORE DETAILS:**

   Photography was of sufficient scale and quality to allow the complete delineation of all kelp and foul areas within the map limits.

37. **LANDMARKS AND AIDS:**

   None.
38. **CONTROL FOR FUTURE SURVEYS:**

None.

39. **JUNCTIONS:**

Junctions are in agreement with T-12705 and T-12721 to the east and with T-12704 to the south and west. There is no contemporary survey to the north. T-12704 and T-12705 are 1:20,000 scale maps.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

No statement.

46. **COMPARISON WITH EXISTING MAPS:**

Comparison has been made with USGS Quadrangle BLYING SOUND (D-3), Alaska, scale 1:63,360, dated 1953.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:**

None.

**ITEMS TO BE CARRIED FORWARD:**

None.

Submitted by:

Albert C. Rauck, Jr.
J. S. Place
Cartographer

Approved:

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

FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12720

Montague Island
Montague Strait
Point Bryant
San Juan Bay

Approved by:

Charles E. Harrington
Staff Geographer - C51x2
<table>
<thead>
<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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**CONTROL STATIONS**

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<tr>
<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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<tr>
<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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**ALONGSHORE AREAS (Nautical Chart Data)**

<table>
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<tr>
<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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<tr>
<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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**PHYSICAL FEATURES**

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<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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<tr>
<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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**CULTURAL FEATURES**

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<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
</tr>
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**BOUNDARIES**

<table>
<thead>
<tr>
<th>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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**MISCELLANEOUS**

<table>
<thead>
<tr>
<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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<table>
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<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
</tr>
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<tbody>
<tr>
<td>BW</td>
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40. REVIEWER:  
Albert C. Ranck, Jr.  
B. Wilson  
9/06/68

**SUPERVISOR, REVIEW SECTION OR UNIT:**  
Albert C. Ranck, 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-12720

SHORELINE

August 3, 1977

61. GENERAL STATEMENT:

This map covers the northeast quadrant of 1:20,000 scale map, T-12704. Details in the area are compiled on this map only.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4311, 1:20,000 scale, dated August, 1927 compiled on the Valdez Datum. The shoreline was observed on T-12720 to be several hundred meters seaward of that shown on T-4311. The shoreline and alongshore area features mapped on T-12720 were formed after the 1964 earthquake when the area was uplifted.

A swamp area, several piles and pier ruins mapped on T-4311 at the southwest entrance to Macleod Harbor are not visible on the photographs. Two large ponds are shown on T-12720 in the position occupied by the swamp on T-4311.

In the area compared, T-12720 supersedes T-4311 for nautical chart preparation. A.L.S.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle BLYING SOUND (D-3) ALASKA, 1:63,360 scale, dated 1953. The shoreline differences observed are as stated in Paragraph 62 above. No other significant differences were observed.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic surveys were 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. The differences are the same as those noted in Paragraph 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
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division