

# T-12714

ORIGINAL

T-12714

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-12714  
Classification No. .... \* Incomplete ..... Edition No. .... 1 .....

### LOCALITY

State ..... Alaska  
General Locality ..... Montague Island  
Locality ..... Port Chalmers

1964 TO 19

### REGISTRY IN ARCHIVES

DATE .....

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

\* CLASS III MANUSCRIPT

## DESCRIPTIVE REPORT - DATA RECORD

T - 12714

PROJECT NO. (II):

PH - 6410

FIELD OFFICE (III):

NONE

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, Virginia

OFFICER-IN-CHARGE

J. Bull, RADM, Director, A.M.C.

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 and graphic

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):

AK 9 1978

GEOGRAPHIC DATUM (III):

N. A. 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~~ or mean lower low water

REFERENCE STATION (III):

FOUL, 1933

LAT.:

61° 12' 55.061" (1704.1M)

LONG.:

147° 19' 16.732" (257.7M)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

y = 2,273,019.84 ft.

x = 259,705.15 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

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation - Aug. 15, 1964 <i>NO MEAN LOWER LOW-WATER LINE IS DELINEATED ON THIS MAP.</i>		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		Nov. 18, 1965
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. S. Kornspan		Nov. 18, 1965
CONTROL PLOTTED BY (III):		DATE
L. O. Neterer, Jr.		Mar. 24, 1966
CONTROL CHECKED BY (III):		DATE
K. G. Boyle		Mar. 24, 1966
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
D. O. Norman		Nov. 1965
STEREOSCOPIC INSTRUMENT COMPILATION (III):  Kelsh	PLANIMETRY	DATE
	K. G. Boyle	Apr. 16, 1966
	CONTOURS	DATE
Inapplicable		
MANUSCRIPT DELINEATED BY (III):		DATE
K. G. Boyle		Apr. 20, 1966
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation      Bi Wilson Field Edit <del>Scribing and Stickup</del>		DATE July 8, 1968
REMARKS:		
Field Edit by                      FIELD EDIT CANCELLED                      Date      8/06/75		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

USC&amp;GS Type "W"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64W-1848 thru 1850 64W-1790 and 1791	Aug. 15, 1964 "	1050 1012	1:30,000 "	4.3' above MLLW 4.7' " "

## PREDICTED

## TIDE (III)

## Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>SEMI</del> 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):

RECOVERED:

IDENTIFIED:

0

0

0

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

RECOVERED:

IDENTIFIED

0

0

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

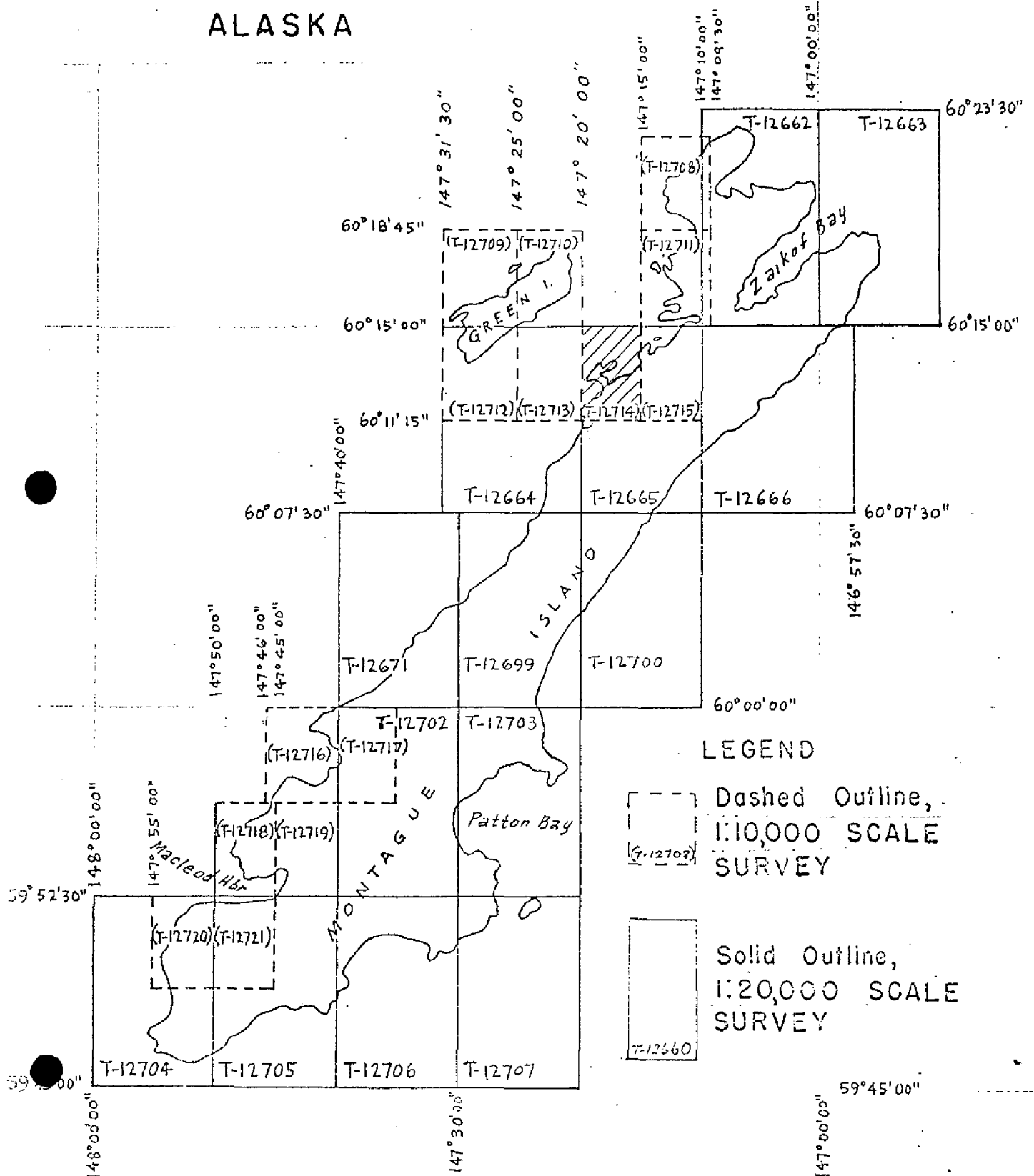
REMARKS:



T-12714

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	7/08/68	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	<del>5</del> 2 5/77	Class III manuscript
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRA- TION.	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-12714

There was no 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

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" -0.2 - 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

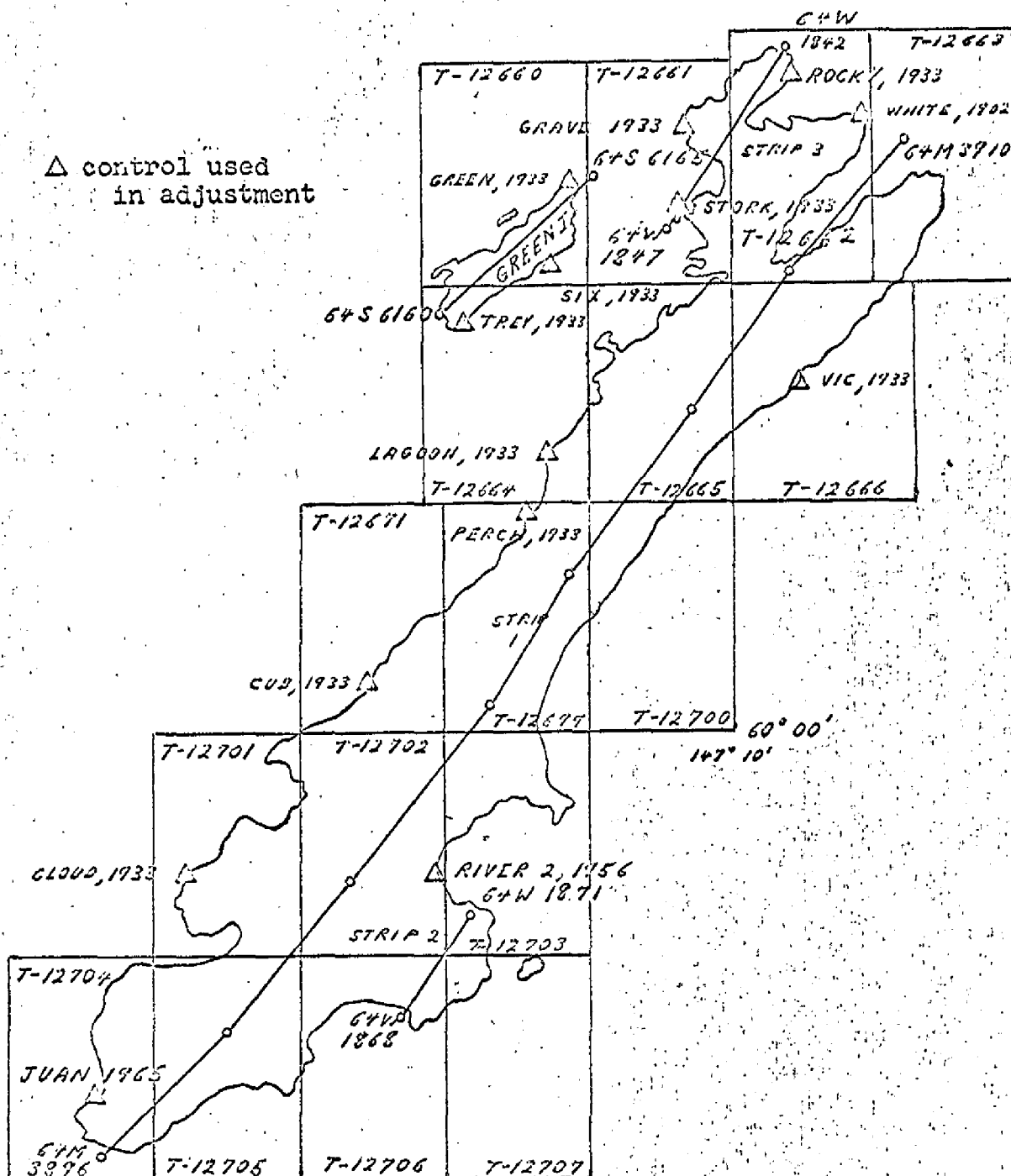
## SIX, 1933 RM #2

△ 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-12714

31. DELINEATION:

The Kelsh plotter was used and a few rocks were added graphically.

There was no field inspection prior to compilation.

Photography was satisfactory.

32. CONTROL:

See Photogrammetric Plot Report attached.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation of the photos.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline, low water line and alongshore details were delineated from office interpretation of the photos.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Junctions are in agreement with T-12715 to the east, T-12713 to the west, <sup>and</sup> T-12665 (1:20,000) to the south, ~~for the northwest quarter of which this manuscript has been reduced.~~ A.L.S. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle SEWARD (A-1), ALASKA, scale 1:63,360, dated 1953.

The two are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 8515, scale 1:81,436 (at Lat. 60° 00'), published November 1935 (7th Edition), revised February 14, 1949.

The two are in fair agreement.

ITEMS TO BE APPLIED TO 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



July 12, 1977

## GEOGRAPHIC NAMES

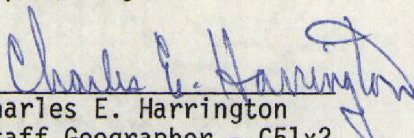
## FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12714

- ✓ Montague Island
- ✓ Montague ~~Point~~ <sup>AW</sup> STRAIT
- ✓ Port Chalmers

Approved by:

  
Charles E. Harrington  
Staff Geographer - C51x2

NOAA FORM 75-74 (2-74)		T-12714 <del>XT-10363</del>		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
<b>PHOTOGRAMMETRIC OFFICE REVIEW</b>					
1. PROJECTION AND GRIDS  BW		2. TITLE  BW		3. MANUSCRIPT NUMBERS  BW	
4. MANUSCRIPT SIZE  BW					
<b>CONTROL STATIONS</b>					
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY  BW			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  BW	
11. DETAIL POINTS  BW					
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>					
12. SHORELINE  BW		13. LOW-WATER LINE  BW		14. ROCKS, SHOALS, ETC.  BW	
15. BRIDGES  BW					
16. AIDS TO NAVIGATION  BW		17. LANDMARKS  BW		18. OTHER ALONGSHORE PHYSICAL FEATURES  BW	
19. OTHER ALONGSHORE CULTURAL FEATURES  BW					
<b>PHYSICAL FEATURES</b>					
20. WATER FEATURES  BW			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  BW					
<b>CULTURAL FEATURES</b>					
27. ROADS  BW		28. BUILDINGS  BW		29. RAILROADS  BW	
30. OTHER CULTURAL FEATURES  BW					
<b>BOUNDARIES</b>					
31. BOUNDARY LINES  NA			32. PUBLIC LAND LINES  NA		
<b>MISCELLANEOUS</b>					
33. GEOGRAPHIC NAMES  BW			34. JUNCTIONS  BW		35. LEGIBILITY OF THE MANUSCRIPT  BW
36. DISCREPANCY OVERLAY  BW		37. DESCRIPTIVE REPORT  BW		38. FIELD INSPECTION PHOTOGRAPHS  NA	
39. FORMS  BW					
40. REVIEWER <i>Albert C. Rauck, Jr. FOR.</i> B. Wilson			SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr. 7/08/68		
41. REMARKS (See attached sheet)					
<b>FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</b>					
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-12714

SHORELINE

August 25, 1977

61. GENERAL STATEMENT:

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

T-12714 is inscribed in and forms the northwest quarter of T-12665 (1:20,000 scale).

In making comparisons with the survey, map and chart discussed in paragraphs 62, 63 and 65 below it was observed that the shoreline shown on T-12714 is seaward of its previously mapped position. This was caused by the uplift resulting from the 1964 earthquake.

Field edit was cancelled for T-12714. However, while performing edit of an adjacent map (T-12664) the field editor gave elevations of two rocks and identified a small gravel beach area near the southern limit of T-12714. This information was applied to T-12714.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4837, 1:20,000 scale, dated June-September, 1933. See Paragraph 61 for observed differences.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Seward (A-1), Alaska, 1:63,360 scale, dated 1953. See Paragraph 61.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the area bounded by T-12714.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000, dated March 10, 1973. See Paragraph 61 for the differences observed.

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>BW</sup>

*John D. Berrow Jr.*

Chief, Photogrammetric Branch

*James L. ...*

Chief, Coastal Mapping Div.