

# T-12705

ORIGINAL

T-12705

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-12705  
Classification No. \* Incomplete Edition No. ... 1 .....

### LOCALITY

State ..... Alaska  
General Locality ..... Montague Island  
Locality ..... Neck Point

1964 TO 19

### REGISTRY IN ARCHIVES

DATE .....

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

\* CLASS III MANUSCRIPT

## DESCRIPTIVE REPORT - DATA RECORD

T-12705

PROJECT NO. (II):		
PH-6410		
FIELD OFFICE (III):		CHIEF OF PARTY
None		
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE
Atlantic Marine Center		J. Bull-Director
INSTRUCTIONS DATED (II) (III):		
Field	8/21/64	
Office	2/08/65	
Field	2/18/65	
Office, Amendment I	2/19/65	
Office, Amendment I to Feb. 19, 1965 Instructions	2/26/65	
Field	4/02/65	
Office	12/06/65	
Office Amendment I	1/66	
Field	3/15/66	
Office Amendment I	4/26/66	
METHOD OF COMPILATION (III):		
Kelsh & Graphic		
MANUSCRIPT SCALE (III):		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:20,000		1:6,000 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):
		Aug 1978
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III):
N.A., 1927		<del>XXXXXX</del> EXCEPT AS FOLLOWS: MHW Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e. <del>XXXXXX</del> mean lower low water
REFERENCE STATION (III):		
JUAN, 1965 (on T-12704)		
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED
M	M	
PLANE COORDINATES (IV):		STATE
Y = 2,121,561.64 Ft. X = 149,035.78		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-12705

2

FIELD INSPECTION BY (II):

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.*

PROJECTION AND GRIDS RULED BY (IV):

A. E. Roundtree

DATE

9/23/65

PROJECTION AND GRIDS CHECKED BY (IV):

R. Glaser

DATE

9/29/65

CONTROL PLOTTED BY (III):

A. Santillan

DATE

3/28/66

CONTROL CHECKED BY (III):

K. G. Boyle

DATE

3/28/66

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

D. O. Norman

DATE

11/65

STEREOSCOPIC INSTRUMENT COMPILATION (III):

Kelsh Plotter

PLANIMETRY

C. Blood

DATE

4/66

Reviewed

L. O. Neterer, Jr.

4/66

CONTOURS

Inapplicable

DATE

MANUSCRIPT DELINEATED BY (III):

B. Wilson

DATE

11/05/68

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-12705

CAMERA (KIND OR SOURCE) (III):

USC&amp;GS Type "W"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64W-1757 and 1758	8/15/64	09:50	1:30,000	4.3 ft. above MLLW
64W-1814 thru 1816	8/15/64	10:26	1:30,000	4.1 ft. above MLLW
64W(C)-5765 thru 5770	4/14/64	14:13	1:20,000	1.0 ft. above MLLW

## Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>XS</del> RANGE
REFERENCE STATION: Cordova, Alaska		10.0	12.4
SUBORDINATE STATION: Macleod Harbor, Alaska		9.0	11.3
SUBORDINATE STATION: Patton Bay, Alaska		7.9	10.2

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): 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:



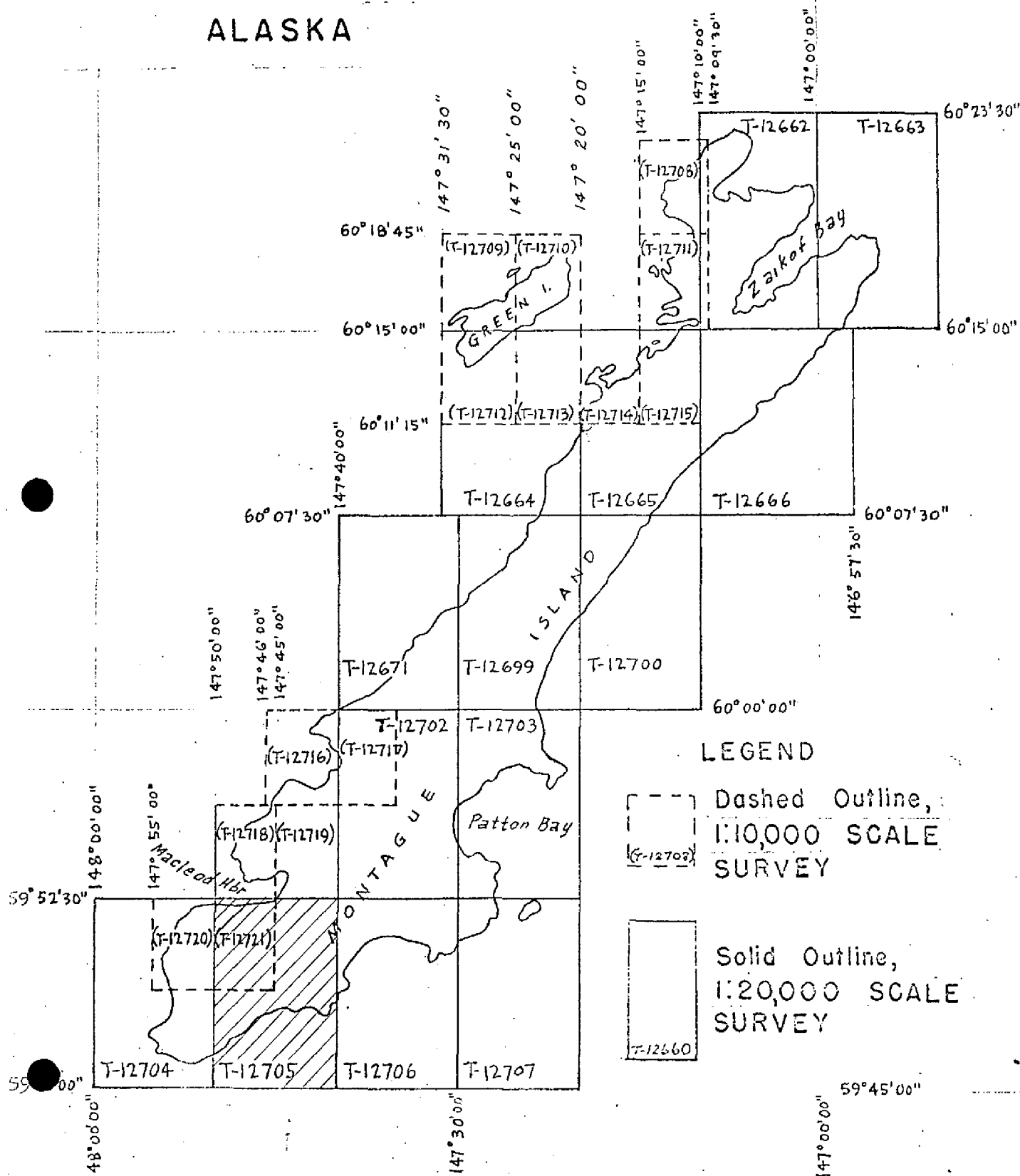
T-12705

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	<del>12</del> 12/68	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	7/77	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-12705

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)

8c

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

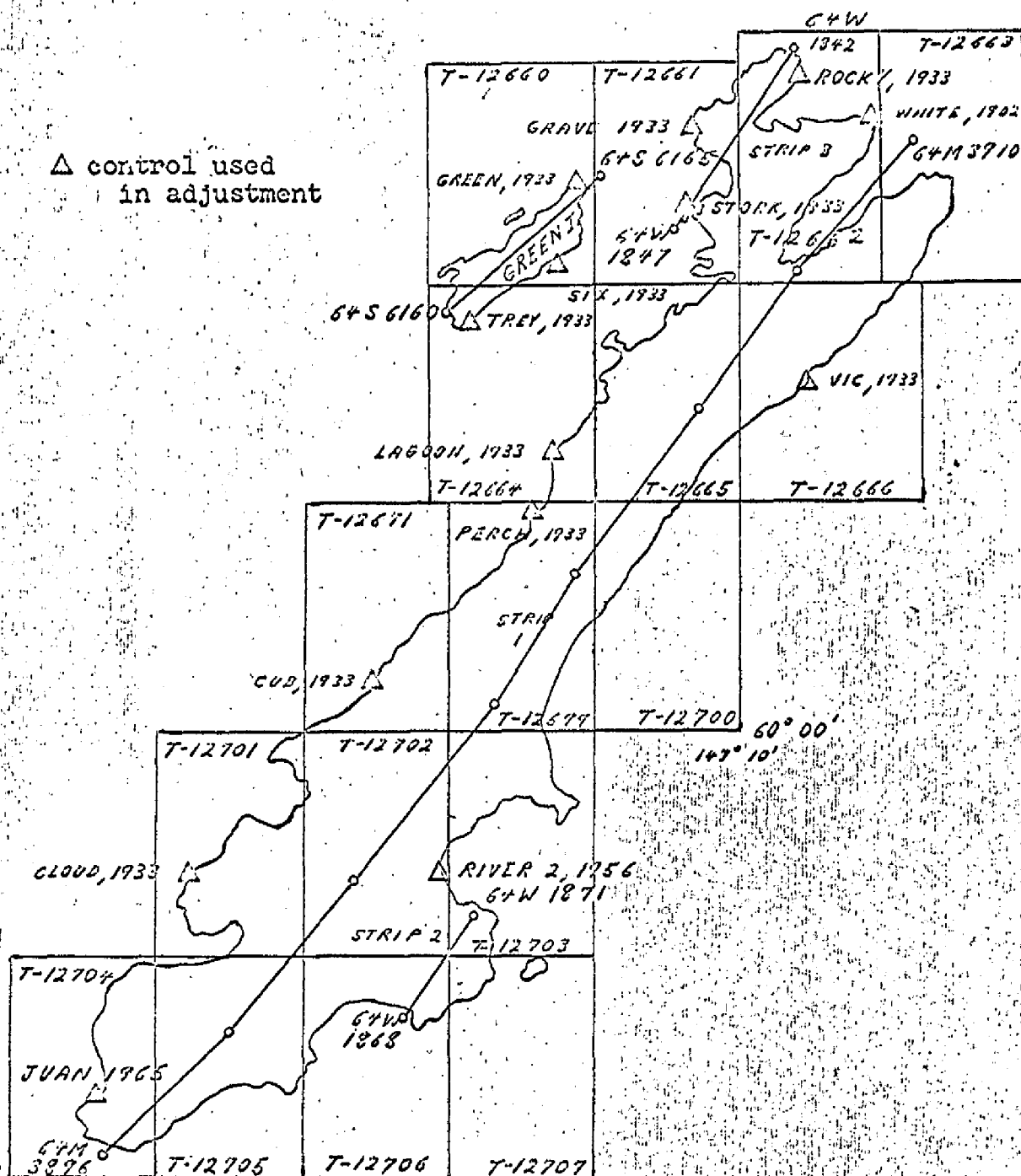
## SIX, 1933 RM #2

△ 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-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.

32. CONTROL

See Photogrammetric Plot Report No. 2, dated Nov., 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

None

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junction has been made with:

T-12718 to the north.

T-12719 to the north.

T-12704 to the west.

T-12706 to the east.

There is no contemporary survey to the south.

T-12721 (scale 1:10,000), reduced, comprises the NW quarter of T-12705.

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 Quadrangles BLYING SOUND (D-1) and (D-2), ALASKA and BLYING SOUND (D-3), ALASKA, both dated 1953 and 1:63,360 scale.

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.

Approved:

Submitted by:

*Albert C. Rauck, Jr.*  
Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

*Albert C. Rauck, Jr. For*  
B. Wilson

Cartographic Technician



July 12, 1977

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

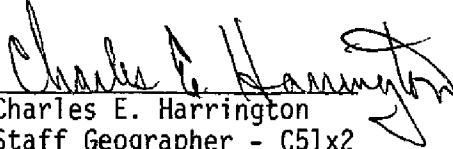
T-12705

Gulf of Alaska ✓

Montague Island ✓

Neck Point ✓

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-12705			
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 <i>Albert C. Rauck, Jr.</i> FOR L. L. Graves 12/68		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  FIELD EDIT CANCELLED 8/06/75			

## REVIEW REPORT T-12705

## SHORELINE

July 29, 1977

61. GENERAL STATEMENT:

See Summary, <sup>ON</sup> ~~which is~~ pages 6a and 6b of this Descriptive Report. Field edit was cancelled.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No comparison was made. Registered topographic surveys of the area were not available at the Atlantic Marine Center at the time of final review.

~~T-12705 supersedes all previously registered surveys of the area for nautical chart production.~~

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparisons were made with U.S.G.S. Quadrangles Blying Sound (D-2) and Blying Sound (D-3), Alaska, each 1:63,360 scale, dated 1953. The shoreline and along-shore details on T-12705 were observed to be generally seaward of those on the quadrangle. This is indicative of the uplift experienced in the area following the 1964 earthquake.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No comparison was made. 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 shoreline and alongshore features on T-12705 are much more irregular than and considerably seaward of those charted. Bluffs

also appear to be more extensive than those shown on the chart.

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>ew</sup>

*John D. Perrow Jr.*

Chief, Photogrammetric Branch

*James L. ...*

Chief, Coastal Map. Div.