

# T-12707

ORIGINAL

T-12707

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-12707  
Classification No. <sup>\*</sup>Incomplete Edition No. .... 1.....

### LOCALITY

State ..... Alaska  
General Locality ..... Montague Island  
Locality ..... Wooded Islands

1964 TO 19

### REGISTRY IN ARCHIVES

DATE .....

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

\* CLASS III MANUSCRIPT

## DESCRIPTIVE REPORT - DATA RECORD

T-12707

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 - Director																				
INSTRUCTIONS DATED (II) (III): <table><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
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Office	Dec. 6, 1965																					
Office Amendment I	Jan. 1966																					
Field	Mar. 15, 1966																					
Office Amendment I	Apr. 26, 1966																					
METHOD OF COMPILATION (III): Graphic, tying to analytic aerotriangulation bridge and extending to triangulation points.																						
MANUSCRIPT SCALE (III):  1:20,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  Inapplicable																					
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):																					
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV): 4119 1978																				
GEOGRAPHIC DATUM (III):  NA, 1927	VERTICAL DATUM (III): MHW <del>XXXXXXXXXX</del> EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., <del>XXXXXXXXXX</del> mean lower low water																					
REFERENCE STATION (II): ISLE 2, 1956 (TEMP.) (on T-12703)																						
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED																				
PLANE COORDINATES (IV):  Y = 2,151,173.89 ft.      X = 252,908.01 ft.		STATE  Alaska																				
		ZONE  3																				
ROMAN NUMERALS INDICATE WHETHER THE NUMBER TO BE ENTERED BY THE FIELD PARTY, THE 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-12707

FIELD INSPECTION BY (II): 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 4/04/66
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser		DATE 4/06/66
CONTROL PLOTTED BY (III):  B. Wilson		DATE 4/12/66
CONTROL CHECKED BY (III):  B. Barnes		DATE 4/12/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): D. O. Norman and B. Wilson (radial extension)		DATE 11/65 & 12/03/68
STEREOSCOPIC INSTRUMENT COMPILATION (III):  Inapplicable	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): B. Wilson		DATE 12/09/68
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: L. L. Graves		DATE 1/69
REMARKS:  FIELD EDIT CANCELLED 8/06/75		



## DESCRIPTIVE REPORT - DATA RECORD

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CAMERA (KIND OR SOURCE) (III):

USC&amp;GS Type "W"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64W-1878 thru 1881	8/15/64	11:13	1:30,000	4.0 ft. above MLLW

Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>MEAN</del> 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 (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-12707

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	1/69	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	"

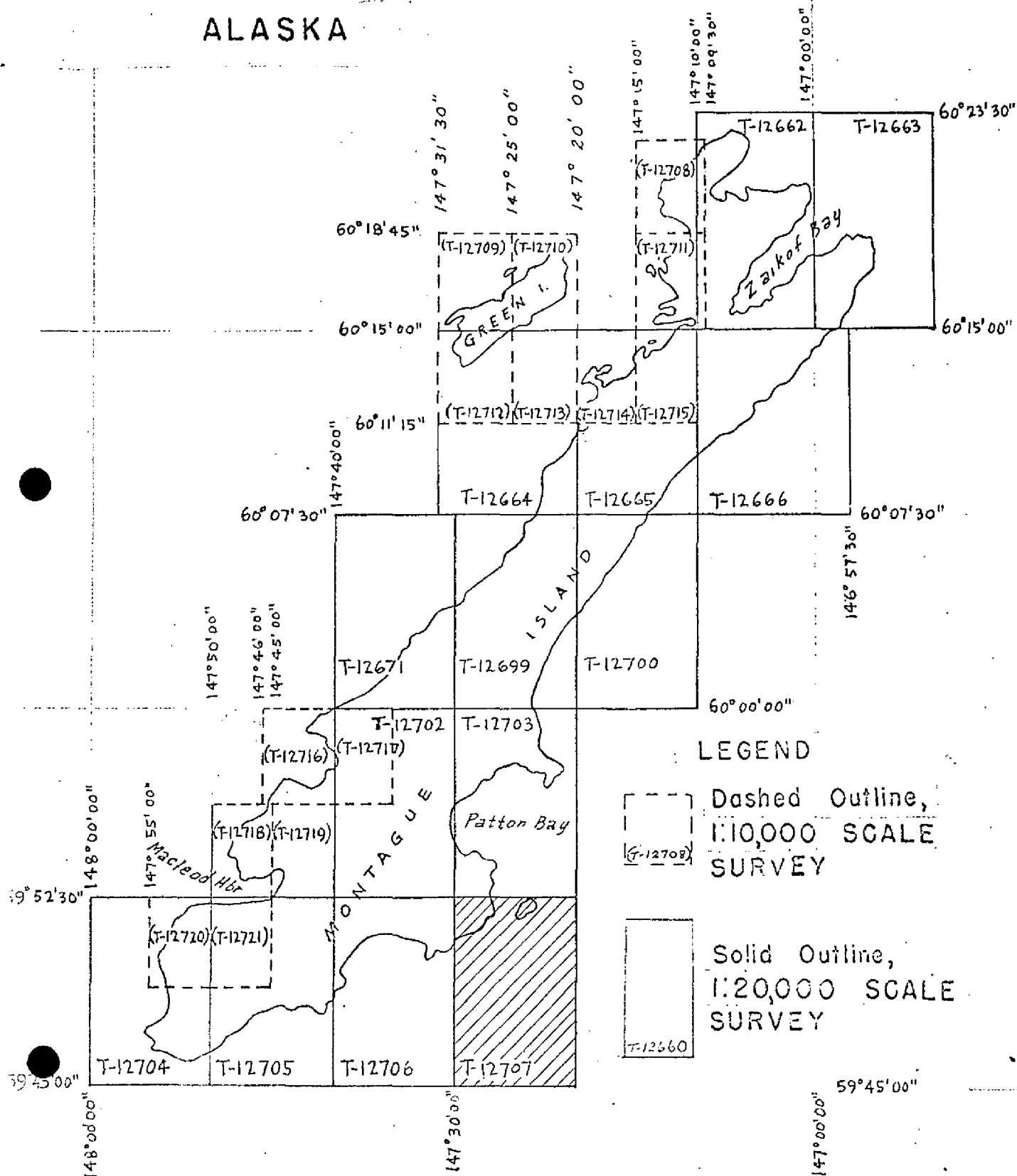
# JOB PH-6410

## 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-12707

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.

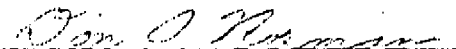
24. Supplemental Data

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

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

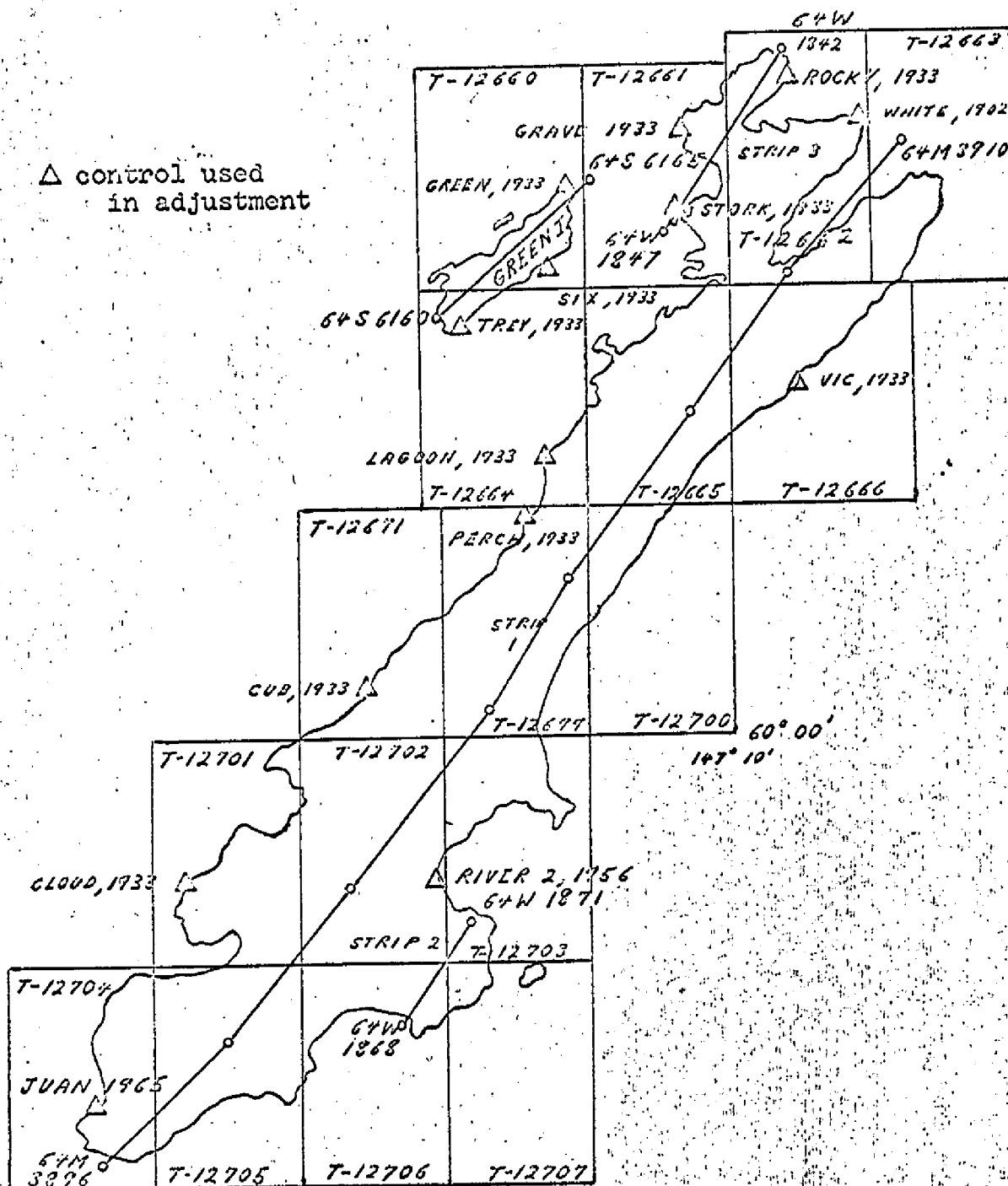
## SIX, 1933 RM #2

△ 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



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	T-12707	JOB NO.	PH-6410	GEODETIC DATUM	NA	1927	ORIGINATING ACTIVITY	AMC
							Coastal Mapping Div., Norfolk, VA	
STATION NAME		SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE			GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE	REMARKS
NONE				X=		$\phi$		
				Y=		$\lambda$		
				X=		$\phi$		
				Y=		$\lambda$		
				X=		$\phi$		
				Y=		$\lambda$		
				X=		$\phi$		
				Y=		$\lambda$		
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				X=		$\phi$		
				Y=		$\lambda$		
				X=		$\phi$		
				Y=		$\lambda$		
COMPUTED BY	A. C. Rauck, Jr.	DATE	1/19/68	COMPUTATION CHECKED BY	B. Wilson	DATE	12/01/68	
LISTED BY		DATE		LISTING CHECKED BY		DATE		
HAND PLOTTING BY		DATE		HAND PLOTTING CHECKED BY		DATE		

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

## COMPILATION REPORT

T-12707

31. DELINEATION:

This manuscript was compiled graphically from satisfactory photographs without benefit of prior field inspection.

32. CONTROL:

See Photogrammetric Plot Report No. 2, dated November 1965. This covered the Montague Island "mainland" but not the islands to the east and south.

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:

Satisfactory junction has been made with T-12706 to the west and T-12703 to the north. The east and south limits are water areas.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41. COMPARISON WITH OLD HYDRO SURVEYS:

Comparison has been made with H-4730, scale 1:60,000, probably on Valdez datum, dated 1927; and with H-8312, scale 1:20,000, on NA - 1927 datum, dated 1956 and 1957.

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 1:81,436 scale Chart 8515, published in 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-12707

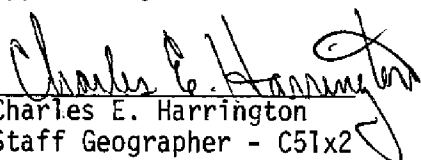
Gulf of Alaska ✓

Montague Island ✓

Tanker Island ✓

Wooded Islands ✓

Approved by:

  
Charles E. Harrington  
Staff Geographer - C51x2

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T- 12707			
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. FOR</i> L. L. Graves 1/69		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A. 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-12707

SHORELINE

July 20, 1977

61. GENERAL STATEMENT:

See Summary, pages 6a and 6b, of this Descriptive Report. Field edit was cancelled for this manuscript.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4870, 1:20,000 scale, compiled on the Valdez Datum from photography taken in 1943. Differences noticed in the configuration and placement of the shoreline are due to effects of the 1964 earthquake and advancements in mapping techniques and equipment.

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 mapped on T-12707 is generally seaward of that shown on the quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No comparison was made. No contemporary hydrographic survey was conducted.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale dated March 10, 1973. The differences noticed in the placement and configuration of the shoreline

and alongshore details are attributable to the effects of the 1964 earthquake and advancements in mapping techniques, methods and equipment.

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

<sup>SW</sup>  
Approved:

*John D. Perrow Jr.*

Chief, Photogrammetric Branch

*James L. ...*

Chief, Coastal Map. Div.