

T-12717

ORIGINAL

T-12717

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-12717
Classification No. * Incomplete Edition No. ... 1

LOCALITY

State Alaska
General Locality Montague Island
Locality Hanning Bay, East

1964 TO 19

REGISTRY IN ARCHIVES

DATE

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

* CLASS III MANUSCRIPT

DESCRIPTIVE REPORT - DATA RECORD

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PROJECT NO. (II):

PH-6410

FIELD OFFICE (III):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, Va.

OFFICER-IN-CHARGE

J. Bull - Director

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

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):

Aug 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~~ mean lower low water

REFERENCE STATION (III):

Hanning 2, 1927 (on T-12716)

LAT.:

LONG.:

59°59' 07.106" (219.9M)

147°42' 06.079" (94.3M)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 2,190,561.66 Ft.

X = 188,374.81 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

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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		9/20/65
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		9/28/65
CONTROL PLOTTED BY (III):		DATE
K. G. Boyle		3/26/66
CONTROL CHECKED BY (III):		DATE
L. O. Neterer, Jr.		3/26/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
D. O. Norman		3/65
STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh Plotter	PLANIMETRY L. O. Neterer Reviewed by: K. G. Boyle	DATE 4/66 4/66
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
A. L. Shands		5/66
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: B. Wilson FIELD EDIT: SCRIBING & STICK UP:		DATE 7/30/66
REMARKS:		
FIELD EDIT BY: FIELD EDIT CANCELLED DATE 8/06/75		

FORM C&GS-181c
(3-66)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEYDESCRIPTIVE REPORT - DATA RECORD
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CAMERA (KIND OR SOURCE) (III):

U.S.C. & G.S. Type "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
None (See T-12716)				

PREDICTED

TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	DIURNAL RANGE
REFERENCE STATION: Cordova, Alaska		10.0	12.4
SUBORDINATE STATION: Hanning Bay, Alaska		9.2	11.5
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): None

RECOVERED:
NoneIDENTIFIED:
None

NUMBER OF BM(S) SEARCHED FOR (II): None

RECOVERED:
NoneIDENTIFIED
None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:

T-12717

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	7/30/68	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	8/77	Class III manuscript
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRA- TION.	TO MARINE CHARTS 6/8/78	"

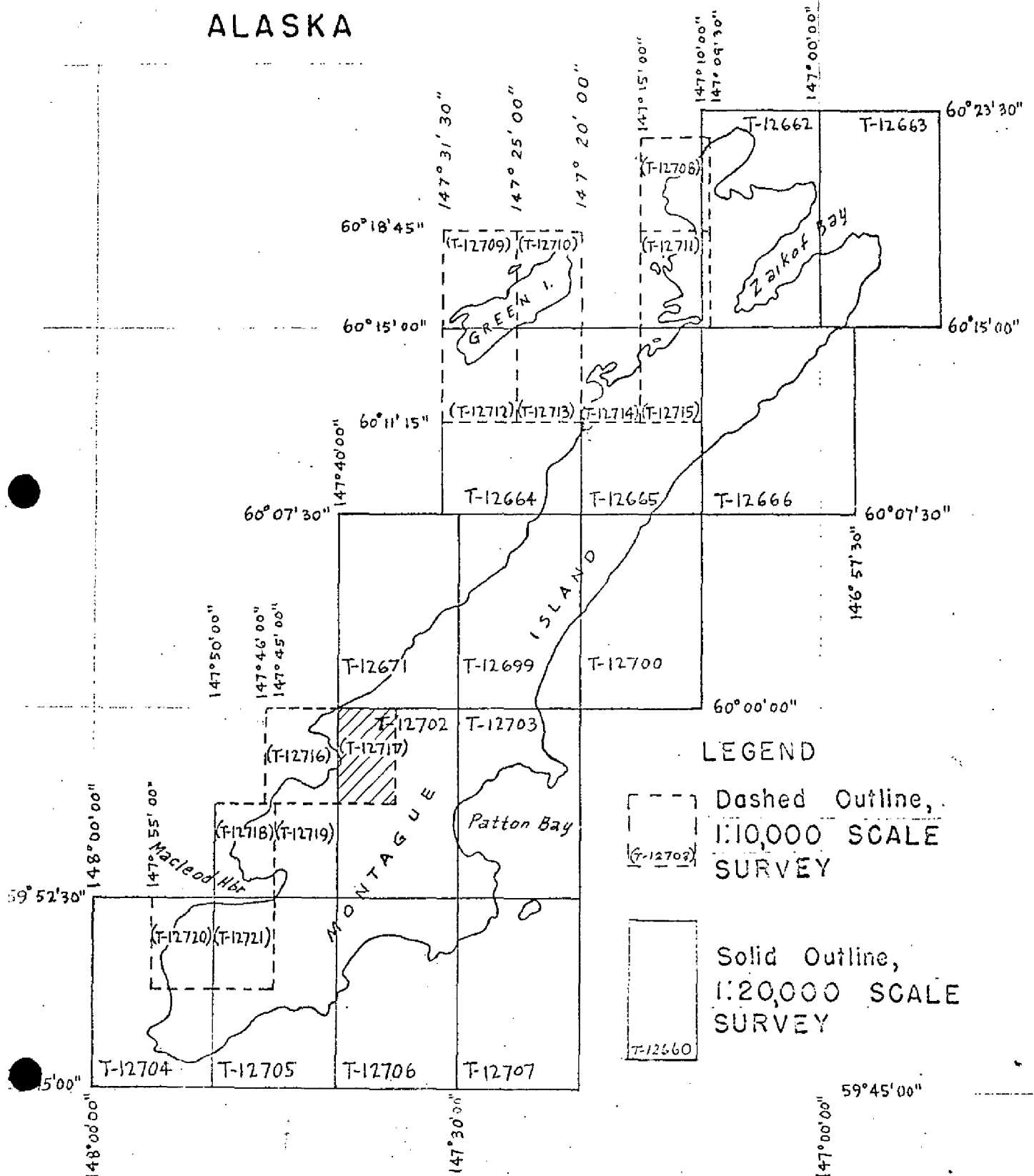
JOB PH-6410

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-12717

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
Don O. Norman

Approved and forwarded:

Henry P. Eichert

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

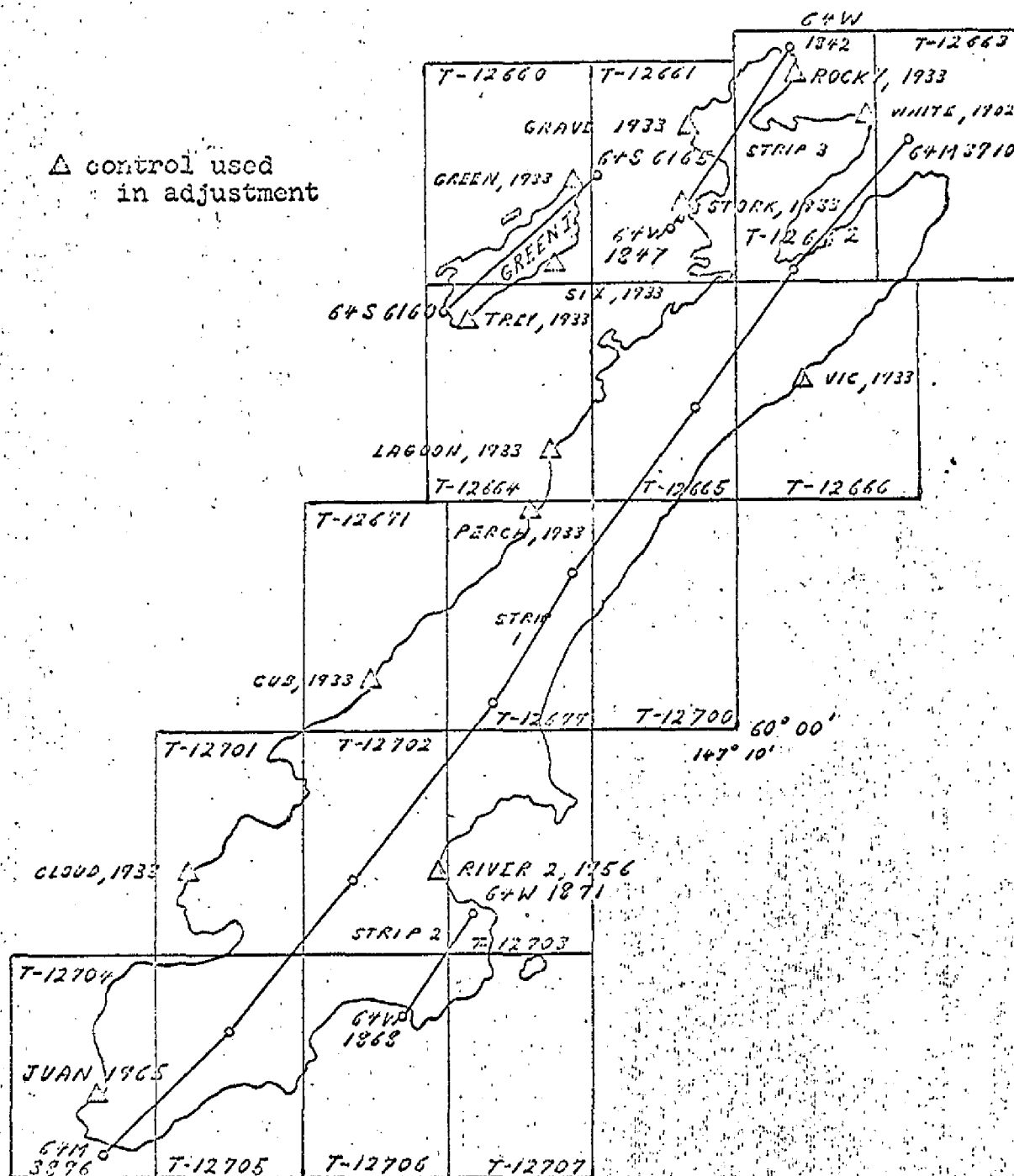
GREEN ISLAND

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



COMPILATION REPORT
T-12717

31. DELINEATION:

The Kelsh Plotter was used. Photography was satisfactory. There was no field inspection.

32. CONTROL:

See the plot report, herewith.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Drainage was compiled from office interpretation of the photos. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and all alongshore details were compiled from office interpretation of the photos.

36. OFFSHORE DETAILS:

None

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junction has been made with T-12716 (1:10,000) to the west. There are no compiled details along the north, east and south limits. T-12671 (1:20,000) lies to the north. This map forms the northwest quarter of T-12702 (1:20,000).

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

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

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart 8515, scale 1:81,436 (at Lat. 60° 00"), dated November 1935 (7th edition), revised to February 14, 1949.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck, Jr.
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-12717

- ✓ Hanning Bay
- ✓ Montague Island

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74 (2-74)		T-12717		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW XT-10363					
1. PROJECTION AND GRIDS BW		2. TITLE BW		3. MANUSCRIPT NUMBERS BW	
4. MANUSCRIPT SIZE BW					
CONTROL STATIONS					
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					
ALONGSHORE AREAS (Nautical Chart Data)					
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					
PHYSICAL FEATURES					
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					
CULTURAL FEATURES					
27. ROADS BW		28. BUILDINGS BW		29. RAILROADS BW	
30. OTHER CULTURAL FEATURES BW					
BOUNDARIES					
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA			
MISCELLANEOUS					
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.</i> B. Wilson		7/30/68		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-12717

SHORELINE

August 10, 1977

61. GENERAL STATEMENT:

See Summary ~~which is~~^{on} Pages 6a and 6b of this Descriptive Report.

The shoreline on this map was severely affected by the 1964 earthquake and now extends several hundred meters seaward of its previously mapped position. The head of Hanning Bay is composed primarily of loose materials. As such the area is unstable and subject to frequent changes.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-2741, 1:20,000 scale dated 1905. See Paragraph 61 above.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Blying Sound (D-1 and D-2), 1:63,360 scale dated 1953. See Paragraph 61.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in this area.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made ~~with~~^{with} Chart 16101, 1:80,000 scale dated March 10, 1973, 11th edition. See Paragraph 61.

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: ^{Rev}
John D. Perrine Jr.
Chief, Photogrammetric Branch

James L. ...
Chief, Coastal Mapping Div.