

T-12715 ORIGINAL

T-12715

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-12715
Classification No. Incomplete *	Edition No. 1
LOCALITY	
State Alaska	
General Locality Montague Island	
Locality Wilby Island	
1964 TO 19	
REGISTRY IN ARCHIVES	
DATE	

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

* CLASS III MANUSCRIPT

DESCRIPTIVE REPORT - DATA RECORD

T - 12715

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 (III) (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 A.L.S.		
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): STORK, 1933		
LAT.: 60° 17' 25.832" (799.5M)	LONG.: 147° 13' 55.297" (849.6M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 2,300,194.12 ft. X = 276,454.97 ft.		STATE 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

FIELD INSPECTION BY (II): None		DATE:
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): A. E. Roundtree		DATE Nov. 18, 1965
PROJECTION AND GRIDS CHECKED BY (IV): R. S. Kornspan		DATE Nov. 18, 1965
CONTROL PLOTTED BY (III): L. O. Neterer, Jr.		DATE Mar. 24, 1966
CONTROL CHECKED BY (III): K. G. Boyle		DATE Mar. 24, 1966
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): D. O. Norman		DATE Nov. 1965
STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh	PLANIMETRY K. G. Boyle	DATE Apr. 15, 1966
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): C. Blood		DATE Apr. 1966
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation B. Wilson Field Edit Scribing and Stickup		DATE July 14, 1968
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 SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64W-1788 thru 1790	Aug. 15, 1964	10:12	1:30,000	4.7' above MLLW

PREDICTED

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	XXXX SPRING 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): 0	RECOVERED: 0	IDENTIFIED: 0
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED: 0	IDENTIFIED: 0
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0		

REMARKS:

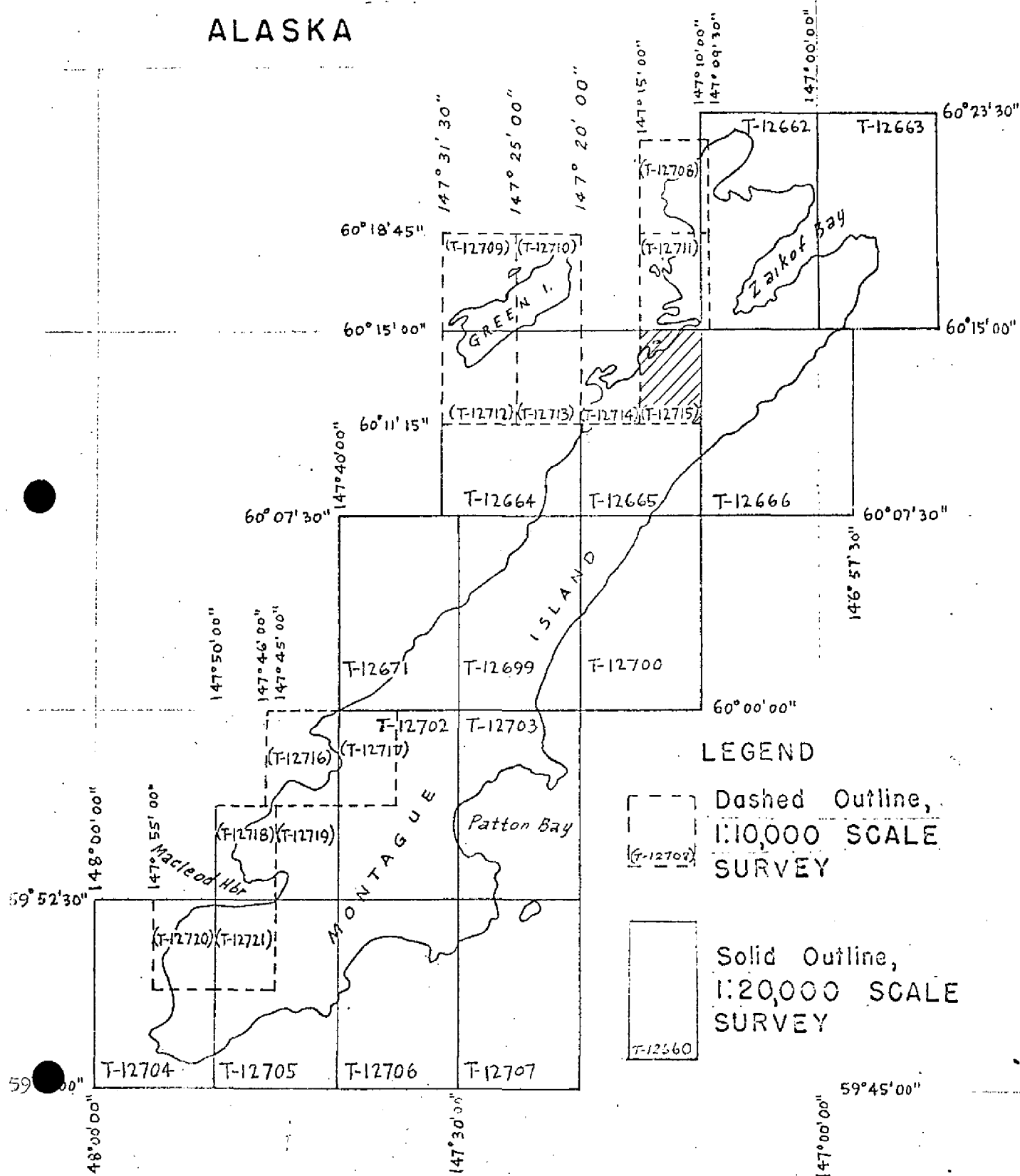
T-12715

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	7/14/68	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

T-12715

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)

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

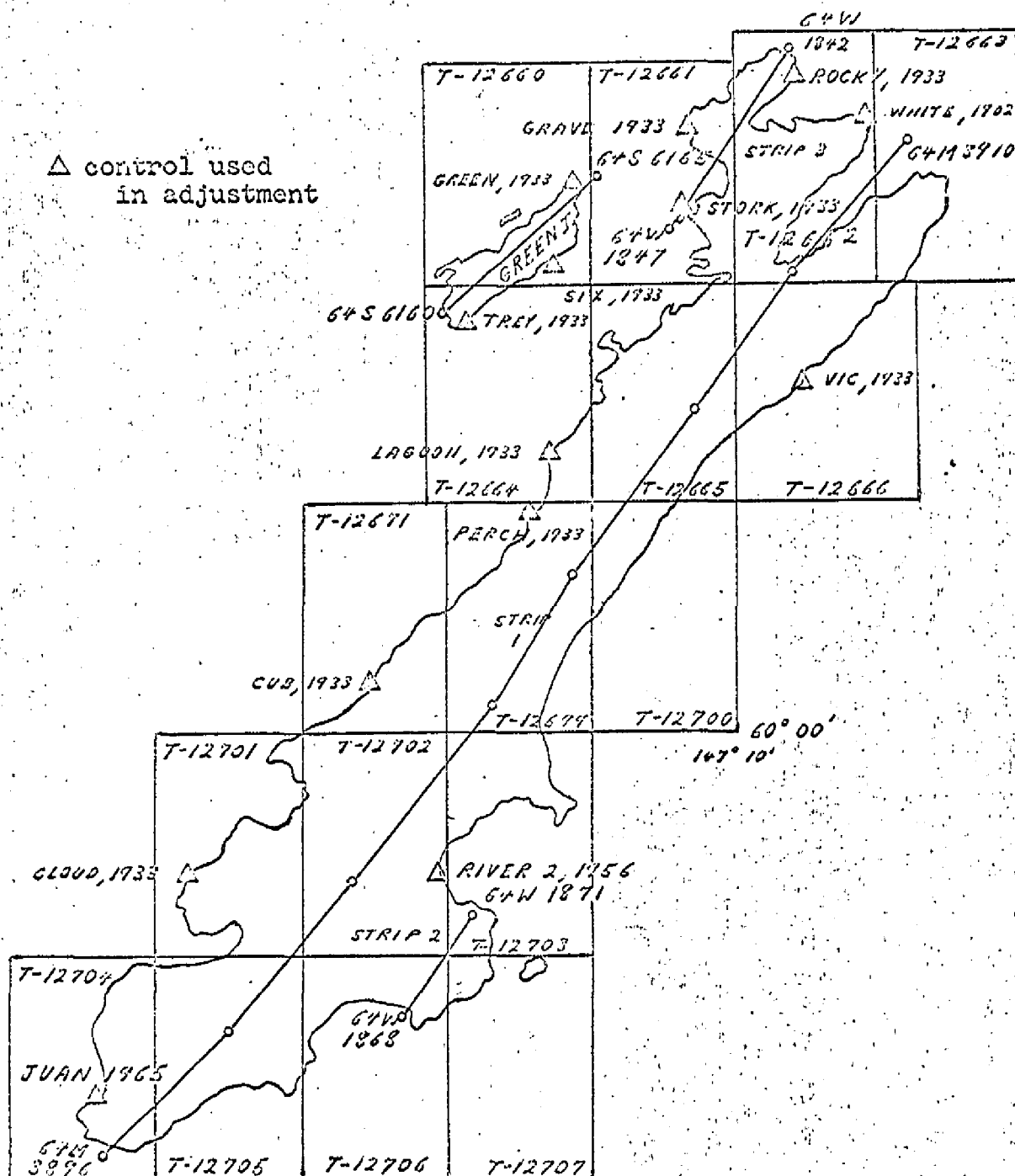
TREY, 1933
 ▲ sub station "A" 0.0 0.0
 △ sub station "B" - 0.3 + 1.6

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

Δ control used
in adjustment



COMPILATION REPORT
T-12715

31. DELINEATION:

The Kelsh plotter was used.

Photography was satisfactory.

There was no field inspection.

32. CONTROL:

See Photogrammetric Plot Report.

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 photography.

36. OFFSHORE DETAILS:

Reefs, located in the northern section of the sheet, were delineated by graphic methods.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Junctions have been made with:

T-12714 to the west (1:10,000)
T-12711 to the north (1:10,000)
T-12666 to the east (1:20,000)
T-12665 to the south (1:20,000)

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.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart No. 8515, scale 1:81,436, (at Lat. 60° 00'), dated November 1935 (7th Edition), and corrected to February 14, 1949.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

C. Blood

C. Blood
Cartographic Technician

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

July 12, 1977

GEOGRAPHIC NAMES

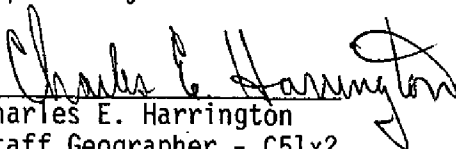
FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12715

- ✓ Montague Island
- ✓ Port Chalmers
- ✓ Wilby Island

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

PHOTOGRAMMETRIC OFFICE REVIEW

~~XT-100000~~

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 B. Wilson		SUPERVISOR, REVIEW SECTION OR UNIT 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-12715

SHORELINE

August 29, 1977

61. GENERAL STATEMENT:

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

T-12715 is inscribed in and forms the northeast quarter of T-12665. Comparisons of T-12715 with the registered topographic map, USGS quadrangle and nautical chart listed below reveal that the earthquake induced uplift of the area in 1964 has produced new shoreline and alongshore details which are more seaward than those previously mapped.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4837, 1:20,000 scale dated June-September, 1933. The differences observed are described in Paragraph 61 above.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle, Seward (A-1), Alaska, 1:63,360 scale, dated 1953. Differences observed are described in Paragraph 61 above.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No comparison was made. No contemporary hydrographic survey was conducted within the boundaries of map T-12715.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition dated March 10, 1973. Differences in the shoreline and alongshore area details were caused by the 1964 earthquake.

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: ^{pw}

John D. Perrow Jr.

Chief, Photogrammetric Branch

James L. ...

Chief, Coastal Mapping Div.