

T-12664

T-12664

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-12664

Classification No. 1 Edition No. ... 1

Field Edited Map

LOCALITY

State ... Alaska

General Locality ... Montague Island

Locality ... Green Island

 19 64 TO 1975

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T - 12664

PROJECT NO. (II): PH-6410		
FIELD OFFICE (III): None		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Coastal Mapping Division Atlantic Marine Center, Norfolk, Va.		OFFICER-IN-CHARGE 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): Wild B-8 Plotter and graphic		
MANUSCRIPT SCALE (III): 1:20,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:15,000 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): NA, 1927		VERTICAL DATUM (III): MHW MEAN SEA LEVEL 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): LAGOON, 1933		
LAT.: 60°09'27.550"(852.7M)	LONG.: 147°22'27.787"(428.7M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 2,252.151.48 ft. X = 249,616.07 ft.		STATE: Alaska ZONE:
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		11/19/65
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. S. Kornspan		11/19/65
CONTROL PLOTTED BY (III):		DATE
K. Boyle		3/29/66
CONTROL CHECKED BY (III):		DATE
A. Santillan		3/29/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Don O. Norman		11/65
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	Wild B-8	J. R. Minton Reviewed by: L. O. Neterer 12/67 12/67
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
C. Blood		12/67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
Compilation B. Wilson <i>COMPILATION</i>		9/68
REMARKS:		
Field Edit by: M. H. Fleming, CDR 5/75		

DESCRIPTIVE 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
64W-1792-1794	Aug. 15, 1964	10:12	1:30,000	4.5 above MLLW

TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	FORMER RANGE
REFERENCE STATION: Cordova, Alaska			10.0	12.4
SUBORDINATE STATION: Port Chalmers			9.3	11.7
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE:		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2	RECOVERED: 2	IDENTIFIED: 2		
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:

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit	Sept 1968	Incomplete Manuscript
Field edit applied compilation complete	Jun 1977	Class I Manuscript
Final Reviewed	July ^{AUG.} 1977	
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRATION.	TO MARINE CHARTS 6/8/78	CLASS I

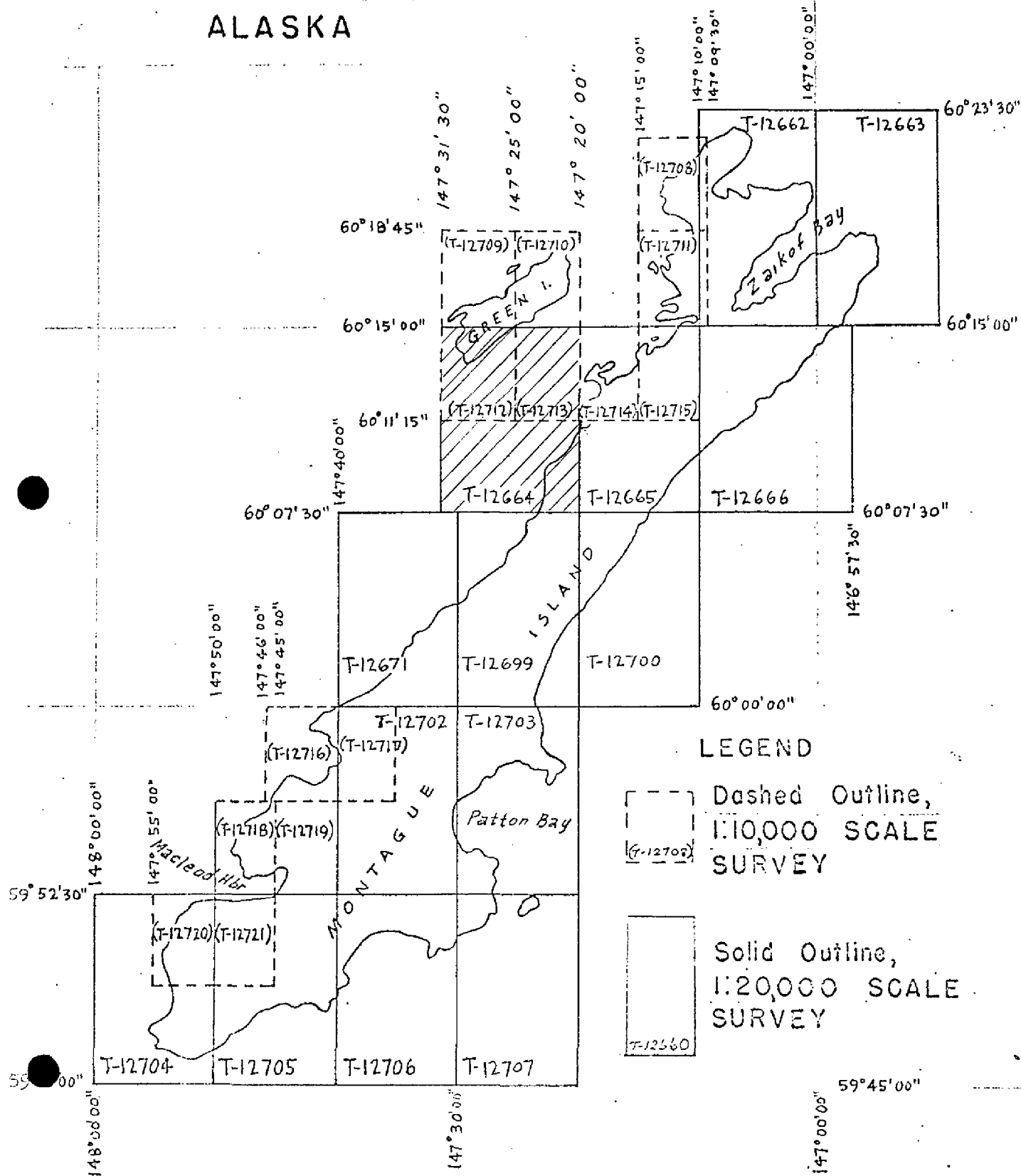
JOB PH-6410

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-12664

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)

8

STRIP #1

▲ used in adjustment

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

▲ used as check

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

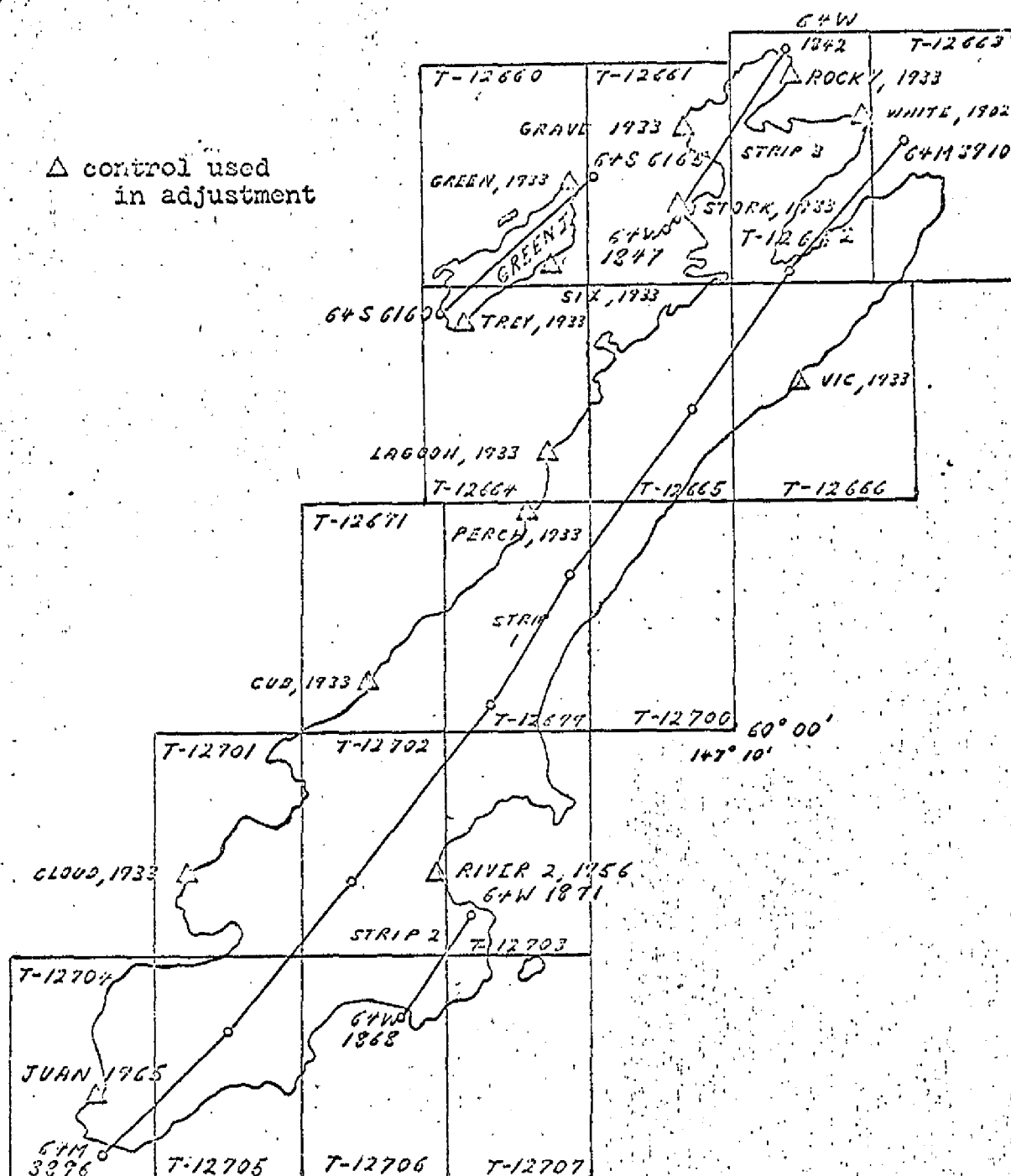
TREY, 1933
 ▲ sub station "A" 0.0 0.0
 ▲ sub station "B" - 0.3 + 1.6

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-12664

31. DELINEATION:

The north half of this map was compiled at 1:10,000 scale as T-12712 and T-12713. Refer to the reports for T-12712 and T-12713 for methods of delineation, etc.

For the south half the Wild B-8 plotter was used to delineate the drainage, ledge, foul, and shallow lines and to locate pass points. The MHWL, MLLWL and remaining details were delineated graphically. There was no field inspection.

32. CONTROL:

See Photogrammetric Plot Report no. 2, dated November 1965.

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:

See item 31. All shoreline and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

No unusual problems were encountered.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions have been made with T-12665 to the east, T-12699 and T-12671 to the south and T-12709 and T-12710 each 1:10,000 scale to the north.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41. COMPARISON WITH OLD HYDRO SURVEYS:

A comparison has been made with 1:20,000 Hydro survey H-5427, dated 1933, Valdez datum, unadjusted. Discrepances are noted on the field edit ozalid.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle SEWARD (A-1), Alaska, dated 1953 and SEWARD (A-2), Alaska, dated 1951. Each 1:63,360 scale.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart No. 8515, scale 1:81,436 (at lat. 60°00') published November 1935 (7th Edition) corrected 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.
A. C. Rauck, Jr.
Chief, Coastal Mapping ~~Division~~, AMC
Section

July 12, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

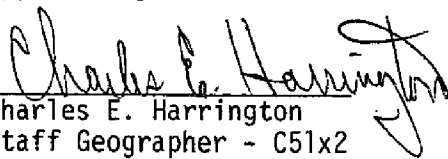
PH-6410 (Montague Island, Alaska)

T-12664

Montague Island ✓

Montague Strait ✓

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74 (7-75)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T. -12664			
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) XX	
7. PHOTO HYDRO STATIONS XX			
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT BW	11. DETAIL POINTS XX
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE BW	13. LOW-WATER LINE BW	14. ROCKS, SHOALS, ETC. BW	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES BW	19. OTHER ALONGSHORE CULTURAL FEATURES XX
PHYSICAL FEATURES			
20. WATER FEATURES BW		21. NATURAL GROUND COVER BW	
22. PLANETABLE CONTOURS XX			
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES XX
CULTURAL FEATURES			
27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
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 XX	39. FORMS BW
40. REVIEWER <i>Albert C. Rauck, Jr.</i> B. WILSON 9/13/68		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 J. R. Minton <i>J. R. Minton</i> 6/6/77		SUPERVISOR <i>Albert C. Rauck, Jr.</i>	
Reviewer: L.O. Neterer Jr. 6/28/77 <i>L.O. Neterer Jr.</i>		A. C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: Field Copy Field Edit Ozalid, and Field Annotated Matte Photos 64W 1792 thru 64W 1794			

FIELD ~~INSPECTION~~ ^{EDIT} REPORT
T-12664
in support of the

MONTAGUE ISLAND AMPHIBIOUS TRAINING CHART SURVEY
SP-PMC-4-DA-75

INSPECTION

The area covered by this report is that of Montague Island between LAT 60/07/30 N, LONG 147/24/00 W and LAT 60/10/40 N, LONG 147/20/00 W. The area is rocky sedimentary coastline, forests and swamps inshore, and numerous kelp and rocky areas offshore.

METHODS

Photographs and a field ozalid work copy were taken into the field for this inspection. Special attention was paid to locating additional seaward hazards to navigation and fore-shore classification. Any features noted as additions to the field edit ozalid were located with respect to recognizable local features and hydrographic control methods. A cursory inspection was made also of the apparent MHHW line and tree-vegetation line.

RECOMMENDATIONS

All foreshore features are now classified, and all additional navigation hazards have been located.

Photogrammetric compilation is in general excellent, and the approximate MLLW, MHHW, and vegetation lines should be accepted as adequate for use on the chart.

Submitted by:

David J. Tennesen

D. J. Tennesen, ENS NOAA

Approved by:

Michael H. Fleming

M. H. Fleming, CDR NOAA
Chief of Party

REVIEW REPORT
T-12664

SHORELINE

August 15, 1977

61. GENERAL STATEMENT:

See Summary ~~which~~^{on} is pages 6a and 6b of this Descriptive Report. T-12664 was field edited in May, 1975.

Two 1:10,000 scale maps, T-12712 and T-12713 are entirely inscribed in and constitute the northern half of T-12664. All details falling in the area of overlap is mapped on the 1:10,000 scale maps only. Descriptive Reports of T-12712 and T-12713 should be consulted for information regarding the compilation of such details.

It is evident from the comparisons that this area experienced an uplift following the 1964 earthquake. The shoreline and alongshore area on T-12664 is generally seaward of that previously mapped. Differences of as much as 500 meters were observed.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

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

~~In the area compared T-12664 supersedes T-4837
for nautical chart construction purposes. A.L.S.~~

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangles Seward (A-1) and Seward (A-2), Alaska, each 1:63,360 scale, dated 1953 and 1951 (revised 1963) respectively. Two cabins mapped at lat. 60° 09.5; long. 147° 22.4 are not discernible on the photographs. See Paragraph 61 for shoreline differences.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No comparison was made. No contemporary hydrographic survey of the area was available at the Atlantic Marine Center during final review.

6. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition dated March 10, 1973. See Paragraph 61 for shoreline differences. A large pond mapped on T-12664 at lat. $60^{\circ}09.5'$, long. $147^{\circ}22.0'$ is not 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: ^{SW}

John P. Brown Jr.

Chief, Photogrammetric Branch

James L. ...

Chief, Coastal Mapping Div.