

T-12663

ORIGINAL

T-12663

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-12663
Classification No. * Incomplete Edition No. .1.....

LOCALITY

State Alaska
General Locality Montague Island
Locality Zaikof Point

19 64 TO 19

REGISTRY IN ARCHIVES

DATE

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

* CLASS III MANUSCRIPT

DESCRIPTIVE REPORT - DATA RECORD

T - 12663

PROJECT NO. (II):

PH-6410

FIELD OFFICE (II):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, Virginia

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):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

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):

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 (II):

SCHOONER ROCK, 1902

LAT.:

60°18'24.444" (765.5M)

LONG.:

146°54'21.513" (330.4M)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 2,305,185.93 Ft.

X = 335,694.07 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.

FORM C&GS-181c (3-68)		U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY		
DESCRIPTIVE REPORT - DATA RECORD				
T-12663				
CAMERA (KIND OR SOURCE) (III):				
U.S.C. & G.S. Type "W"				
PHOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64-W-1838	08/15/64	10:38	1:30,000	4.0 ft. above MLLW
64-W-1839	08/15/64	10:39	1:30,000	4.0 ft. above MLLW
64-W-1840	08/15/64	10:39	1:30,000	4.0 ft. above MLLW
PREDICTED TIDE (III)				
DIURNAL			RATIO OF RANGES	MEAN RANGE
REFERENCE STATION: Cordova				10.0
SUBORDINATE STATION: Port Chalmers				9.3
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):		RECOVERED: None	IDENTIFIED None	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):			None	
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):			None	
REMARKS:				

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COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	10/66	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	7/77 6/77	Class III Manuscript
FEW CORRECTIONS MADE PRIOR TO REGISTRATION	TO MARINE CHARTS 6/8/78	"

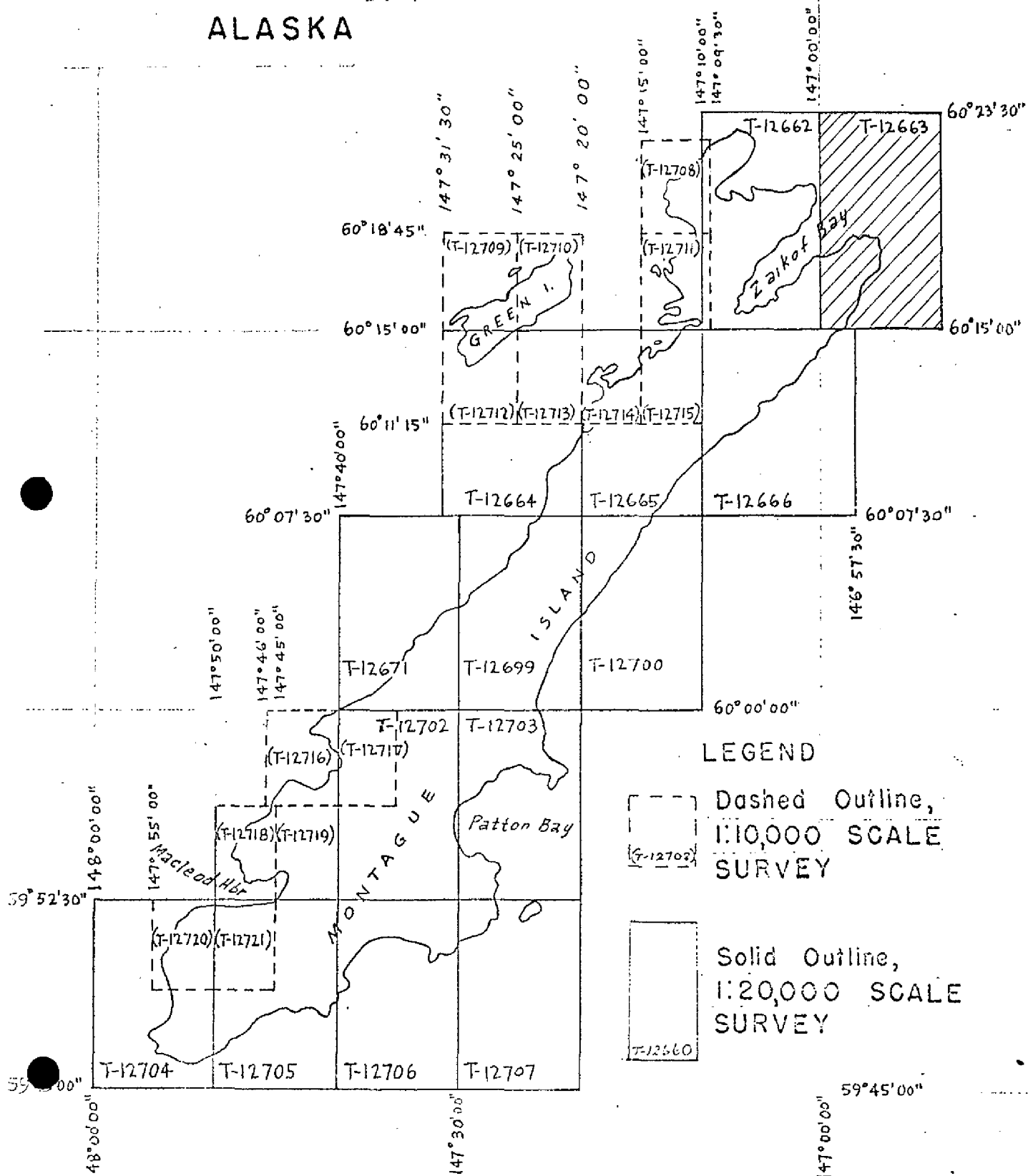
JOB PH-6410

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-12663

There was no Field Inspection prior to compilation.

8a

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

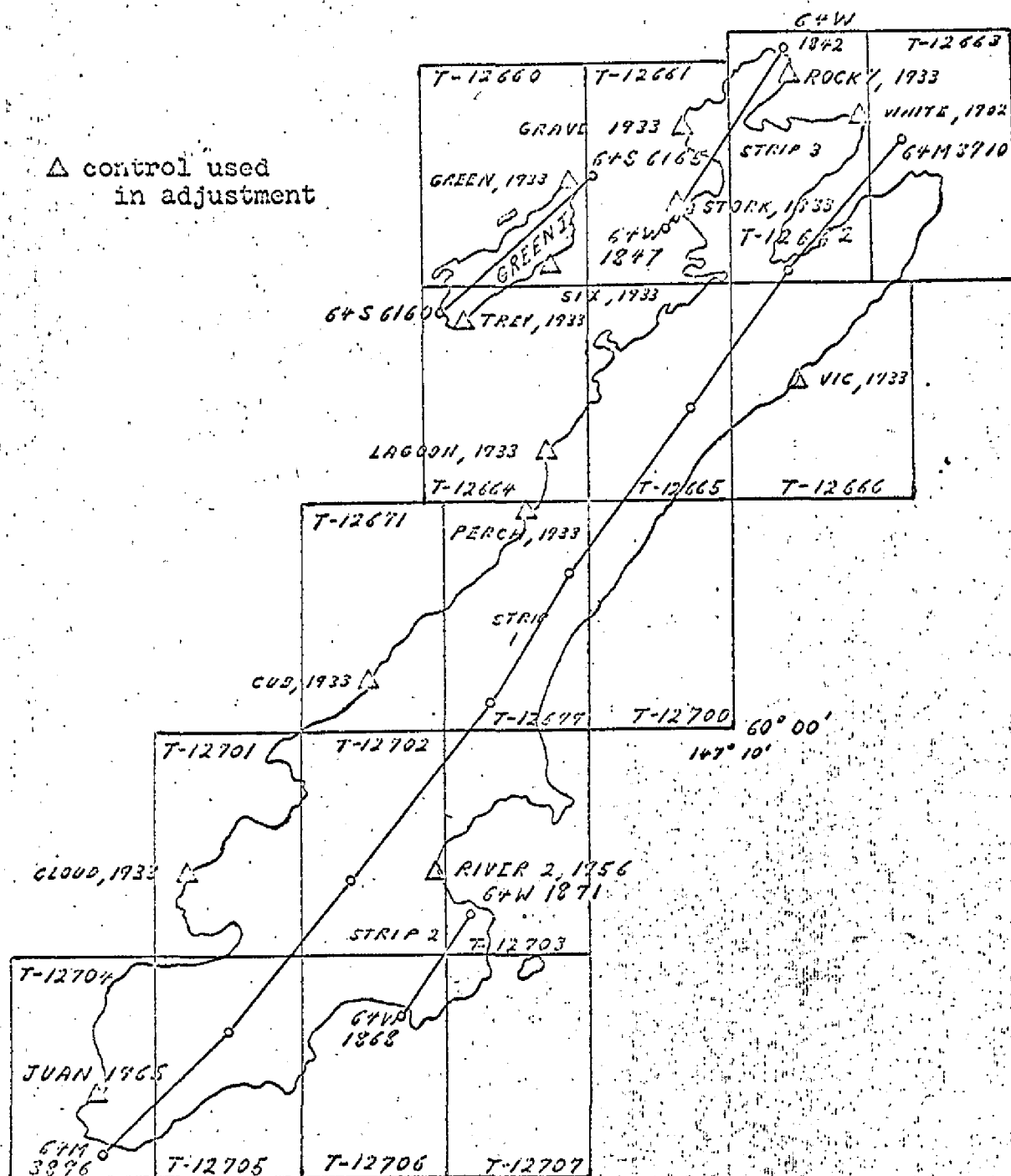
TREY, 1933
 ▲ sub station "A" 0.0 0.0
 ▲ sub station "B" - 0.3 + 1.6

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



COMPILATION REPORT
T-12663

31. DELINEATION:

The Kelsh Plotter was used. Photography was satisfactory.
There was no Field Inspection.

32. CONTROL:

See Photogrammetric Plot Report herewith.

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
the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions have been made with T-12662 to the west and T-12666 to the south. There are no contemporary surveys to the north or east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No Statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with U.S.G.S. quadrangle CORDOVA (B-8), ALASKA, scale 1:63,360, dated 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with chart No. 8520, scale 1:80,000, 12th edition, dated July 20, 1964 and with chart No. 8515, scale 1:81,436, revised Feb. 13, 1961.

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ITEMS TO BE APPLIED TO NAUTICAL 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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12663

Hinchinbrook Entrance ✓

Middle Point ✓

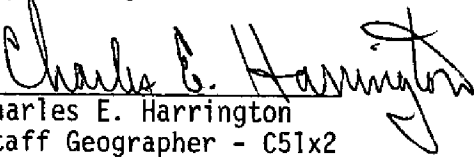
Montague Island ✓

Schooner Rock ✓

Zaikof Bay ✓

Zaikof Point ✓

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74 (2-74)		T-12663		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW					
XX-10363					
1. PROJECTION AND GRIDS		2. TITLE		3. MANUSCRIPT NUMBERS	
CHB		CHB		CHB	
4. MANUSCRIPT SIZE					
CHB					
CONTROL STATIONS					
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY			6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)		7. PHOTO HYDRO STATIONS
CHB			NA		NA
8. BENCH MARKS		9. PLOTTING OF SEXTANT FIXES		10. PHOTOGRAMMETRIC PLOT REPORT	
NA		NA		CHB	
11. DETAIL POINTS					
CHB					
ALONGSHORE AREAS (Nautical Chart Data)					
12. SHORELINE		13. LOW-WATER LINE		14. ROCKS, SHOALS, ETC.	
CHB		CHB		CHB	
15. BRIDGES		16. AIDS TO NAVIGATION		17. LANDMARKS	
CHB		CHB		CHB	
18. OTHER ALONGSHORE PHYSICAL FEATURES		19. OTHER ALONGSHORE CULTURAL FEATURES		20. WATER FEATURES	
CHB		CHB		CHB	
PHYSICAL FEATURES					
21. NATURAL GROUND COVER			22. PLANETABLE CONTOURS		
NA			NA		
23. STEREOSCOPIC INSTRUMENT CONTOURS		24. CONTOURS IN GENERAL		25. SPOT ELEVATIONS	
NA		NA		NA	
26. OTHER PHYSICAL FEATURES					
CHB					
CULTURAL FEATURES					
27. ROADS		28. BUILDINGS		29. RAILROADS	
CHB		CHB		CHB	
30. OTHER CULTURAL FEATURES					
CHB					
BOUNDARIES					
31. BOUNDARY LINES			32. PUBLIC LAND LINES		
NA			NA		
MISCELLANEOUS					
33. GEOGRAPHIC NAMES			34. JUNCTIONS		35. LEGIBILITY OF THE MANUSCRIPT
CHB			CHB		CHB
36. DISCREPANCY OVERLAY		37. DESCRIPTIVE REPORT		38. FIELD INSPECTION PHOTOGRAPHS	
CHB		CHB		NA	
39. FORMS					
CHB					
40. REVIEWER			SUPERVISOR, REVIEW SECTION OR UNIT		
<i>Charles H. Bishop</i> C. H. Bishop			<i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.		
10/66					
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-12663

SHORELINE

June 24, 1977

61. GENERAL STATEMENT:

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

1:20,000 scale ratio photographs 64 W 1838 through 1840 covering the shoreline on this map were not available at AMC during final review. Schooner Point Light was established since photography and is not shown. Field edit was cancelled.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with a copy of T-2612, 1:40,000 scale, dated 1902. T-2612 covers the Zaikof Bay from Zaikof Point westward to the map limits and includes Middle Point. The shoreline from Zaikof Point southward to the south limit is covered by T-4834, which was not available at AMC during final review. No significant differences were noted in the shoreline. None of the kelp shown on T-2612 is visible on the photographs.

~~In the area compared, T-12663 supersedes both T-2612 and T-4834 for nautical chart construction purposes. A.L.S.~~

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle CORDOVA (B-8), ALASKA, 1:63,360, dated 1953. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic surveys were conducted in the area.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 16709, 1:80,000 scale, 17th edition, dated November 27, 1976. Kelp patches charted around Zaikof Point are not visible on the photographs.

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: ^{on}

John D. Perron Jr.

Chief, Photogrammetric Branch

James L. ...

Chief, Coastal Mapping Division