

T-12712

ORIGINAL

T-12712

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-12712
Classification No. * Incomplete Edition No. 1

LOCALITY

State Alaska
General Locality Montague Island
Locality Little Green Island

1964 TO 19

REGISTRY IN ARCHIVES

DATE

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

* CLASS III MANUSCRIPT

DESCRIPTIVE REPORT - DATA RECORD

T- 12712

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, RADM, Director																				
INSTRUCTIONS DATED (II) (III): <table border="0"><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 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 7 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 low, mean low water or mean lower low water																				
REFERENCE STATION (III): TREY, 1933																						
LAT.: 60° 13' 46.141" (1428.1M)	LONG.: 147° 28' 15.056" (231.8M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED																				
PLANE COORDINATES (IV): y = 2,278,780.28 ft. x = 232,629.18 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.																						

FORM C&GS-181b
(3-66)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

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		Nov. 1965
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. S. Kornspan		Nov. 1965
CONTROL PLOTTED BY (III):		DATE
K. G. Boyle		March 1966
CONTROL CHECKED BY (III):		DATE
L. O. Neterer		March 1966
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
D. O. Norman		Nov. 1966
STEREOSCOPIC INSTRUMENT COMPILATION (III): Kelsh Plotter	PLANIMETRY	DATE
	L. O. Neterer (REVIEWED BY K. Boyle)	April 1966
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
L. O. Neterer		April 1966
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION REVIEW		DATE
C. H. Bishop		Oct. 1966
REMARKS FIELD EDIT REVIEW SCRIBING AND STICKUP REVIEW		
REMARKS FIELD EDIT BY		DATE 8/06/75
FIELD EDIT CANCELLED		

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 "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64S-6159 and 6160	15 Aug. 1964	09:09	1:30,000	5.5' ft. above MLLW

TIDE (III) PREDICTED

DIURNAL

	RATIO OF RANGES	MEAN RANGE	SEMI RANGE
REFERENCE STATION: CORDOVA		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):

RECOVERED:

IDENTIFIED:

1

1

1

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED:

IDENTIFIED

None

None

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

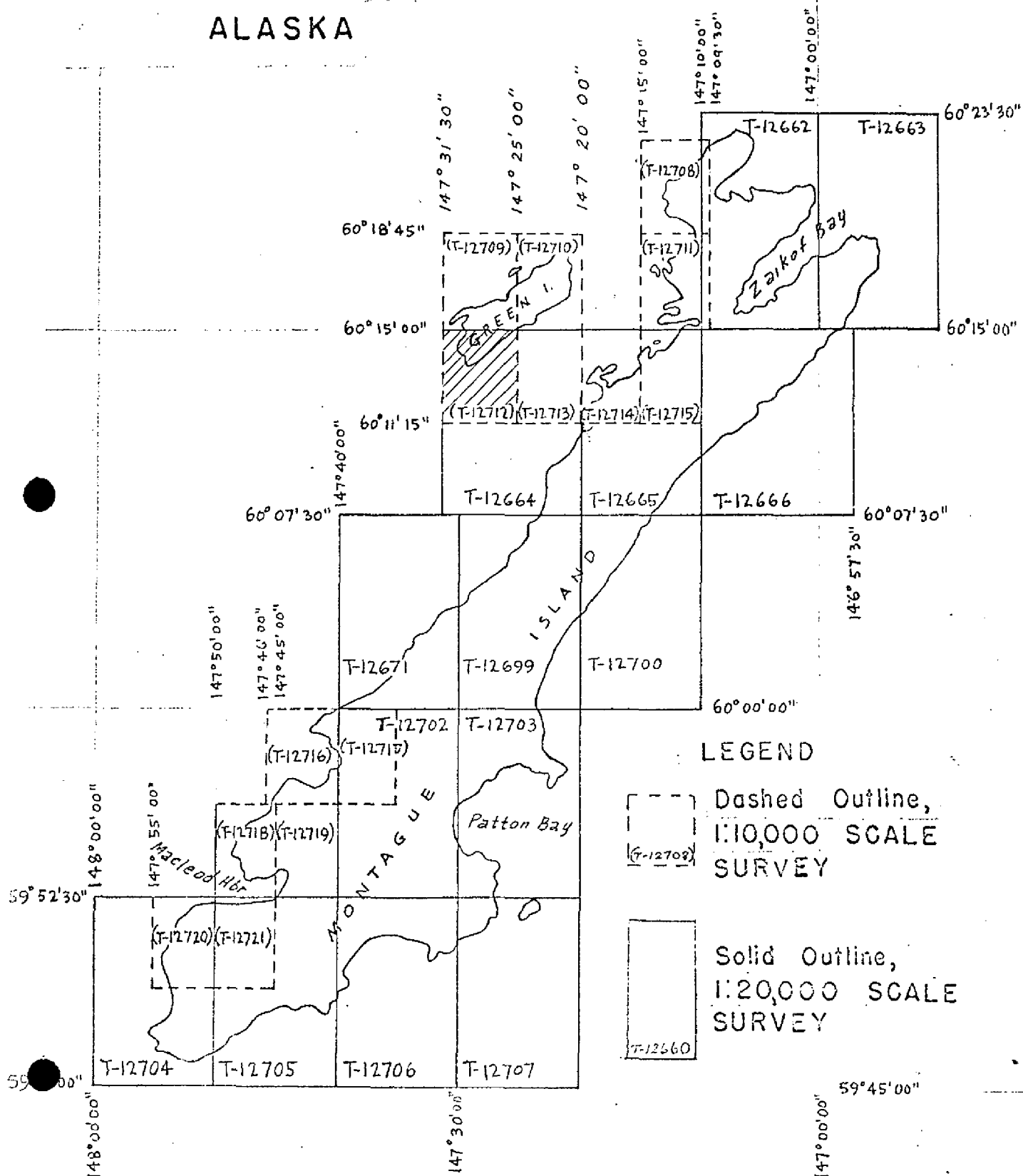
T-12712

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	10/66	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
Project PH-6410
T-12712

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" -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

MAP T- 12712 PROJECT NO. PH-6410 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 ft. = 3048006 meter)	
				FORWARD	(BACK)
✓ TREY, 1933	Alaska 60147, Pg. 25	N.A. 1927	2,278,780.28	3,780.28	(1,219.72)
TREY, 1933	G.P. Vol V 6, Pg. 286	"	232,629.18	2,629.18	(2,370.82)
			60° 13' 46.44"	1428.1	(428.9)
			147° 28' 15.056"	231.8	(691.8)
COMPUTED BY C. H. Bishop	DATE 10-12-66	CHECKED BY C. H. Bishop	DATE 10-12-66		

COMPILATION REPORT
T-12712

31. DELINEATION:

Planimetry was delineated with the Kelsh Plotter. Photography was satisfactory, except that there was no stereoscopic coverage of the south half of little Green Island. This part of the island was delineated monoscopically with the Kelsh Plotter.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Drainage was delineated from office interpretation of the photography. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS:

All details were delineated from office interpretation of the photography.

36. OFFSHORE DETAILS:

The approximate position of a rock awash was shown at latitude $60^{\circ} 11.9''$, longitude $146^{\circ} 27.1''$. The position is not covered by photography; It was taken from Chart 8515.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Junctions have been made with 1:10,000 scale Maps T-12709 to the north and T-12713 to the east. Reduced to 1:20,000 scale, this map becomes the northwest quarter of Map T-12664. No detail on this map junctions with the other three quarters of T-12664. There is no contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41. COMPARISON WITH OLD SURVEYS:

A comparison was made with Hydrographic Survey No. 5427, MONTAGUE STRAIT, Green Island to Montague Island, dated June 26 - October 13, 1933. See Item No. 36, OFFSHORE DETAILS, this report.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle SEWARD (A-2), ALASKA, scale 1:63,360, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 8515, scale 1:81,436, revised February 13, 1961.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles Blood

Charles Blood
Cartographic Aid

Approved:

Albert C. Rauck, Jr.

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

July 12, 1977

GEOGRAPHIC NAMES

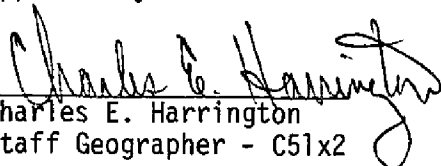
FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12712

- ✓ Green Island
- ✓ Little Green Island
- ✓ Montague Strait

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74 (2-74)		T-12712 PHOTOGRAMMETRIC OFFICE REVIEW 120361		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
1. PROJECTION AND GRIDS CHB		2. TITLE CHB		3. MANUSCRIPT NUMBERS CHB	
4. MANUSCRIPT SIZE CHB					
CONTROL STATIONS					
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB		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 CHB	
11. DETAIL POINTS CHB					
ALONGSHORE AREAS (Nautical Chart Data)					
12. SHORELINE CHB		13. LOW-WATER LINE CHB		14. ROCKS, SHOALS, ETC. CHB	
15. BRIDGES CHB		16. AIDS TO NAVIGATION CHB		17. LANDMARKS CHB	
18. OTHER ALONGSHORE PHYSICAL FEATURES CHB		19. OTHER ALONGSHORE CULTURAL FEATURES CHB			
PHYSICAL FEATURES					
20. WATER FEATURES CHB		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 CHB					
CULTURAL FEATURES					
27. ROADS CHB		28. BUILDINGS CHB		29. RAILROADS CHB	
30. OTHER CULTURAL FEATURES CHB					
BOUNDARIES					
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA			
MISCELLANEOUS					
33. GEOGRAPHIC NAMES CHB		34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT 	
36. DISCREPANCY OVERLAY CHB		37. DESCRIPTIVE REPORT CHB		38. FIELD INSPECTION PHOTOGRAPHS NA	
39. FORMS CHB					
40. REVIEWER <i>Charles H. Bishop</i> C. H. Bishop		10/66		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-12712

SHORELINE

August 17, 1977

61. GENERAL STATEMENT:

This map is entirely inscribed in 1:20,000 scale map T-12664. Details in this area are shown on this map only. No transfer of details was made.

A rock awash shown on both the chart and quadrangle of the area at lat. $60^{\circ} 11.9'$, long. $147^{\circ} 27.2'$ was not mapped because of insufficient photocoverage. Also, the southwest end of Little Green Island was delineated monoscopically because of a lack of stereo coverage. Several rocks which appear to be a southwest extension of Little Green Island fall beyond the limits of stereo-photo coverage and lie outside the western limits of this map. This is also outside the project limits. There is no control on the rocks and therefore they were not mapped.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-3232, 1:20,000 scale, dated 1911. Differences are attributed to uplift caused by the 1964 earthquake and also advancements in mapping methods and equipment.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Seward (A-2), ALASKA, 1:63,360 scale, dated 1951 with revisions in 1963. See Paragraphs 61 and 62 for differences.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was preformed in the area bounded by this map.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, dated March 10, 1973, 11th edition. See Paragraphs 61 and 62 for differences.

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

^{ew}
Approved:

John D. Perrow Jr.

Chief, Photogrammetric Branch

James L. ...

Chief, Coastal Mapping Div.