

T-12708 ORIGINAL

T-12708

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-12708
Classification No. ....	* Incomplete
Edition No. ....	1
LOCALITY	
State .....	Alaska
General Locality .....	Montague Island
Locality .....	Graveyard Point
1964 TO 19	
REGISTRY IN ARCHIVES	
DATE .....	

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

\* CLASS III MANUSCRIPT

## DESCRIPTIVE REPORT - DATA RECORD

T - 12708

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 - 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):

447 1978

GEOGRAPHIC DATUM (III):

N.A., 1927

VERTICAL DATUM (III):

MEAN ~~XXXXXX~~ <sup>High water</sup> EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., ~~XXXXXX~~ mean lower low water

REFERENCE STATION (III):

GRAVE 1933

LAT.:

60°20'03.855"(119.3M)

LONG.:

147°13'05.826"(89.4M)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 2,316,190.28 Ft.

X = 279,244.57 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-181b  
(12-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

T-12708

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  09/17/65
PROJECTION AND GRIDS CHECKED BY (IV):  R. Glaser		DATE  09/17/65
CONTROL PLOTTED BY (III):  L. O. Neterer		DATE  03/24/66
CONTROL CHECKED BY (III):  K. G. Boyle		DATE  03/24/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  D. O. Norman		DATE  11/65
STEREOSCOPIC INSTRUMENT COMPILATION (III):  Kelsh Plotter	PLANIMETRY K. G. Boyle REVIEWED: L. O. Neterer, Jr.	DATE 04/66 04/66
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  B. H. Barnes		DATE  04/66
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: B. Wilson & C. H. Bishop FIELD EDIT: SCRIBING & STICKUP:		DATE 01/18/68
REMARKS: FIELD EDIT BY: FIELD EDIT CANCELLED 8/06/75		



FORM C&GS-181c (3-68)		U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY		
DESCRIPTIVE REPORT - DATA RECORD T-12708				
CAMERA (KIND OR SOURCE) (III):  USC&GS Type "W"				
PHOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64W 1844, 1845	08/15/64	10:50	1:30,000	4.3 Ft. above MLLW
PREDICTED TIDE (III)			DIURNAL	
			RATIO OF RANGES	MEAN RANGE
REFERENCE STATION: CORDOVA, ALASKA				10.0
SUBORDINATE STATION: PORT CHALMERS, ALASKA				9.3
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):			DATE:	
PROOF EDIT BY (IV):			DATE:	
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 1		RECOVERED: 1	IDENTIFIED: 1	
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:				

T-12708

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	1/18/68	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	"

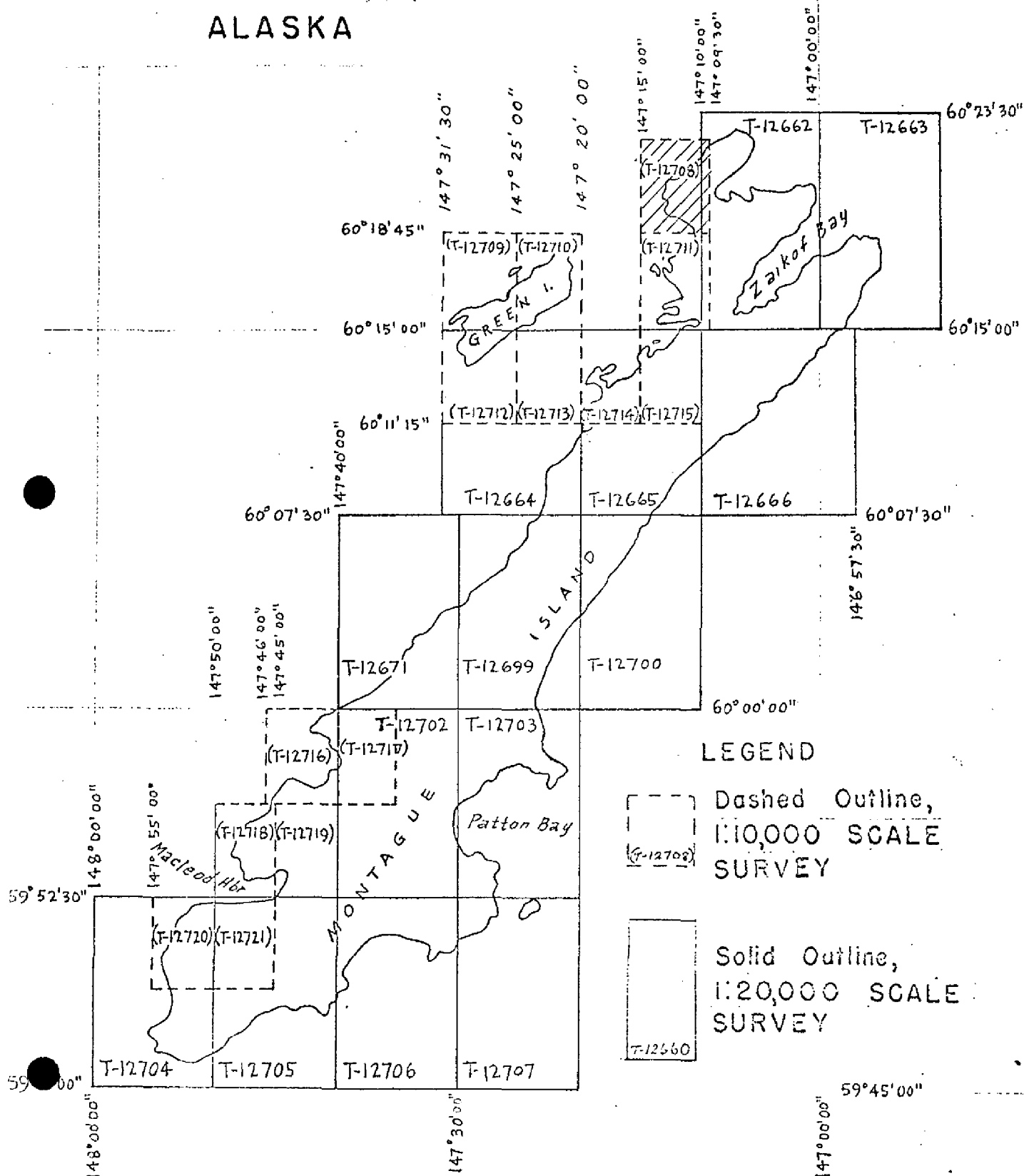
# JOB PH-6410

## 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-12708

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:

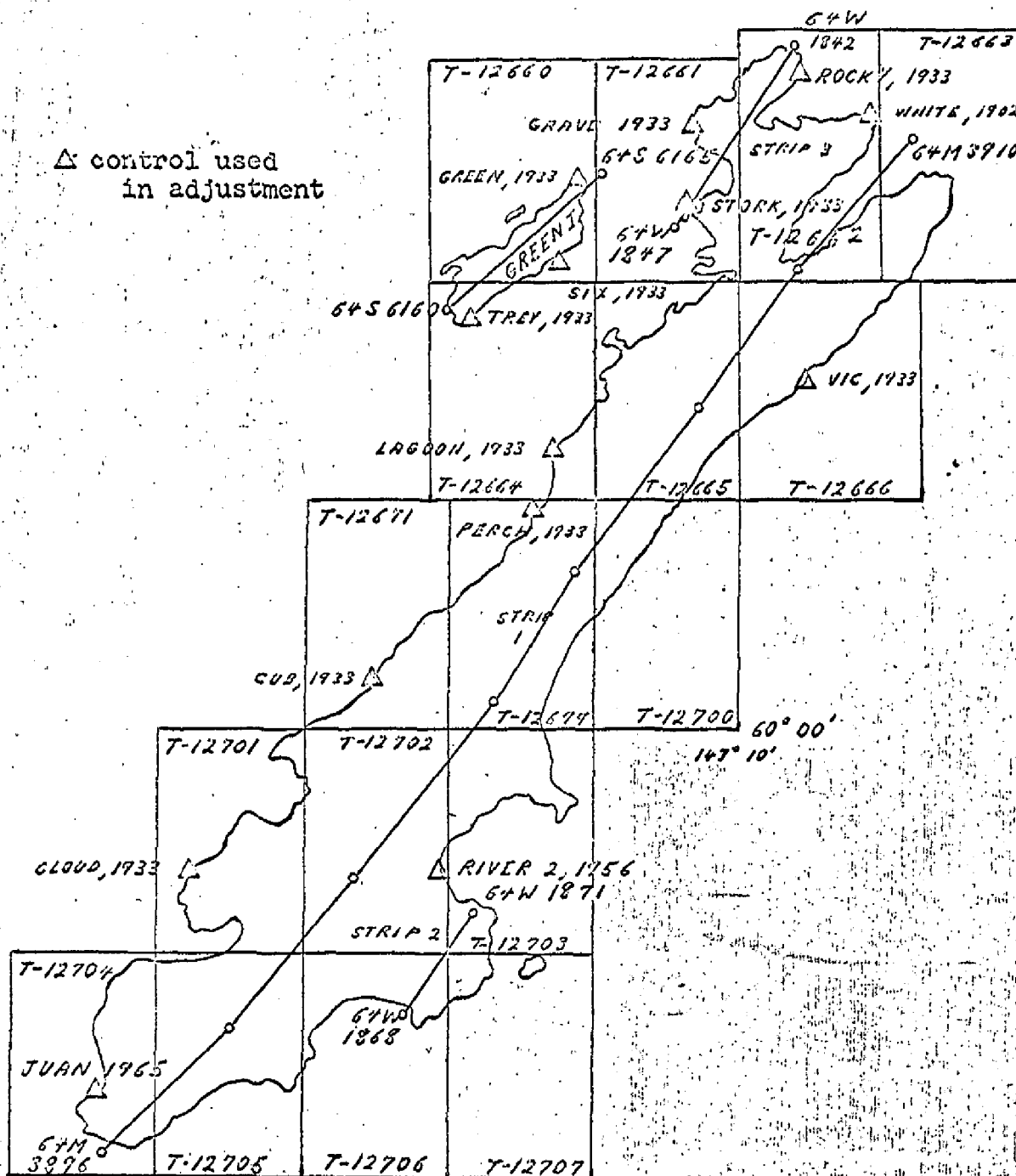
  
Don O. Norman

Approved and forwarded:

  
Henry P. Eichert  
Acting Chief, Aerotriangulation Section

AEROTRIANGULATION SKETCH  
MONTAGUE ISLAND  
PH-6410  
November, 1965

△ control used  
in adjustment







## COMPILATION REPORT

T-12708

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:

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

36. OFFSHORE DETAILS:

Photographs were of sufficient scale and quality to allow the delineation of several reef, foul, and ledge areas.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

A routine junction was made with T-12711 to the south.

To the east, one-half minute of longitude overlaps 1:20,000 scale T-12662. This area was applied to the smaller scale map by tracing a photo-reduction of this map.

There are no contemporary surveys to the north and west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41. COMPARISON WITH OLD SURVEYS:

A comparison has been made with Hydrographic Survey No. 5421, GREEN ISLAND TO SEAL ISLAND, dated May 25 - October 12, 1933.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle SEWARD (B-1), ALASKA, scale 1:63,360, dated 1951, minor revisions 1963.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart No. 8515, scale 1:81,436, edition of 2/14/49.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Approved:

Submitted by:

*Albert C. Rauck, Jr.*

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

*Albert C. Rauck, Jr. For*

B. Wilson  
Cartographic Technician

July 12, 1977

GEOGRAPHIC NAMES

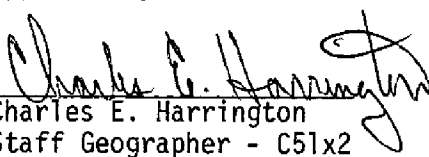
FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12708

- ✓ Graveyard Point
- ✓ Montague Island
- ✓ Prince William Sound
- ✓ Stockdale Harbor

Approved by:

  
 Charles E. Harrington  
 Staff Geographer - C51x2



NOAA FORM 75-74 (2-74)		T-12708		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW					
<del>NO 10368</del>					
1. PROJECTION AND GRIDS		2. TITLE		3. MANUSCRIPT NUMBERS	
BW		BW		BW	
4. MANUSCRIPT SIZE					
BW					
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
BW			NA		NA
8. BENCH MARKS		9. PLOTTING OF SEXTANT FIXES		10. PHOTOGRAMMETRIC PLOT REPORT	
NA		NA		BW	
11. DETAIL POINTS					
CHB					
ALONGSHORE AREAS (Nautical Chart Data)					
12. SHORELINE		13. LOW-WATER LINE		14. ROCKS, SHOALS, ETC.	
BW		BW		BW	
16. AIDS TO NAVIGATION		17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES	
BW		BW		BW	
19. OTHER ALONGSHORE CULTURAL FEATURES					
BW					
PHYSICAL FEATURES					
20. WATER FEATURES			21. NATURAL GROUND COVER		22. PLANETABLE CONTOURS
BW			NA		NA
23. STEREOSCOPIC INSTRUMENT CONTOURS		24. CONTOURS IN GENERAL		25. SPOT ELEVATIONS	
NA		NA		NA	
26. OTHER PHYSICAL FEATURES					
BW					
CULTURAL FEATURES					
27. ROADS		28. BUILDINGS		29. RAILROADS	
BW		BW		BW	
30. OTHER CULTURAL FEATURES					
BW					
BOUNDARIES					
31. BOUNDARY LINES			32. PUBLIC LAND LINES		
NA			NA		
MISCELLANEOUS					
33. GEOGRAPHIC NAMES			34. JUNCTIONS		35. LEGIBILITY OF THE MANUSCRIPT
BW			BW		BW
36. DISCREPANCY OVERLAY		37. DESCRIPTIVE REPORT		38. FIELD INSPECTION PHOTOGRAPHS	
BW		BW		NA	
39. FORMS					
BW					
40. REVIEWER			SUPERVISOR, REVIEW SECTION OR UNIT		
<i>Albert C. Rauck, Jr.</i> FOR B. Wilson			<i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.		
1/18/68					
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-12708

## SHORELINE

September 1, 1977

61. GENERAL STATEMENT:

See Summary ~~which is~~<sup>ON</sup> Pages 6a and 6b of this Descriptive Report.

T-12708 overlaps 1:20,000 scale map T-12662 on the east by 30 minutes of longitude (147° 09' 30" to 147° 10' 00"). Details falling in the overlap area are shown on both maps.

Field edit was cancelled.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4837, 1:20,000 scale, dated June-September, 1933. The comparison was made from lat. 60° 20' 00" southward to the south limit of the map. From 60° 20' 00" northward no comparison was made. T-4834 which covers the northern area was not available at the Atlantic Marine Center during final review. A general seaward movement of the shoreline and alongshore area limits was observed.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Seward (B-1), ALASKA, 1:63,360 scale, dated 1951. Differences observed in the shoreline and alongshore details are as noted in Paragraph 62 above.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No comparison was made. No contemporary hydrographic surveys were conducted.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition dated March 10, 1973. Differences observed are as stated in Paragraph 62.

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: <sup>BW</sup>

*John D. Perraw Jr.*

Chief, Photogrammetric Branch

*James L. ...*

Chief, Coastal Mapping Div.