

T-12665

ORIGINAL

T-12665

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-12665
*
Classification No. Incomplete Edition No. ..1.....

LOCALITY

State Alaska
General Locality Montague Island
Locality Wilby Island

19 64 TO 19

REGISTRY IN ARCHIVES

DATE

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

* CLASS III MANUSCRIPT

DESCRIPTIVE REPORT - DATA RECORD

T-12665

1

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): <table><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
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 Wild B-8 Plotter																						
MANUSCRIPT SCALE (III): 1:20,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000 pantographed to 1:20,000 Kelsh 1:15,000 pantographed to 1:20,000 B-8																					
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):																					
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV): 449 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 LOWER LOW WATER mean lower low water																				
REFERENCE STATION (III): FOUL, 1933																						
LAT.: 60° 12' 55.061" (1704.1 M)	LONG.: 147° 19' 16.732" (257.7 M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED																				
PLANE COORDINATES (IV): Y = 2,273,019.84 ft. X = 259,705.15 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

2

T-12665

FIELD INSPECTION BY (II):

None

DATE:

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Air photo compilation - August 15, 1964

*NO MEAN LOWER LOW-WATER LINE
IS DELINEATED ON THIS MAP.*

PROJECTION AND GRIDS RULED BY (IV):

A. E. Roundtree

DATE

Nov. 19, 1965

PROJECTION AND GRIDS CHECKED BY (IV):

R. S. Kornspan

DATE

Nov. 19, 1965

CONTROL PLOTTED BY (III):

K. G. Boyle

DATE

Mar. 29, 1966

CONTROL CHECKED BY (III):

A. Santillan

DATE

Mar. 29, 1966

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

D. O. Norman

DATE

Nov. 1965

STEREOSCOPIC INSTRUMENT COMPILATION (III):

Kelsh Plotter
&
Wild B-8

PLANIMETRY J. R. Minton

REVIEWED: L. O. Neterer, Jr.

CONTOURS

Inapplicable

DATE Dec. 1967

Dec. 1967

DATE

MANUSCRIPT DELINEATED BY (III):

J. R. Minton

DATE

Jan. 18, 1968

SCRIBING BY (III):

DATE

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

COMPILATION: B. Wilson

DATE

Sep. 19, 1968

REMARKS:

FIELD EDIT CANCELLED

8/06/75

DESCRIPTIVE REPORT - DATA RECORD

T-12665

CAMERA (KIND OR SOURCE) (III):

USC & GS Type "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64W-1792	8/15/64	09:09	1:30,000	5.5 ft. above MLLW
64W-1831-1832	8/15/64	10:32	1:30,000	4.1 ft. above MLLW

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	diurnal RANGE
REFERENCE STATION: Cordova, Alaska		10.0	12.4
SUBORDINATE STATION: Port Chalmers		9.3	11.7
SUBORDINATE STATION: Patton Bay		7.9	10.2

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):

None

RECOVERED:

None

IDENTIFIED:

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

T-12665

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	9/19/68	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	7/77 6/77	Class III manuscript
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRATION.	TO MARINE CHARTS 6/8/78	"

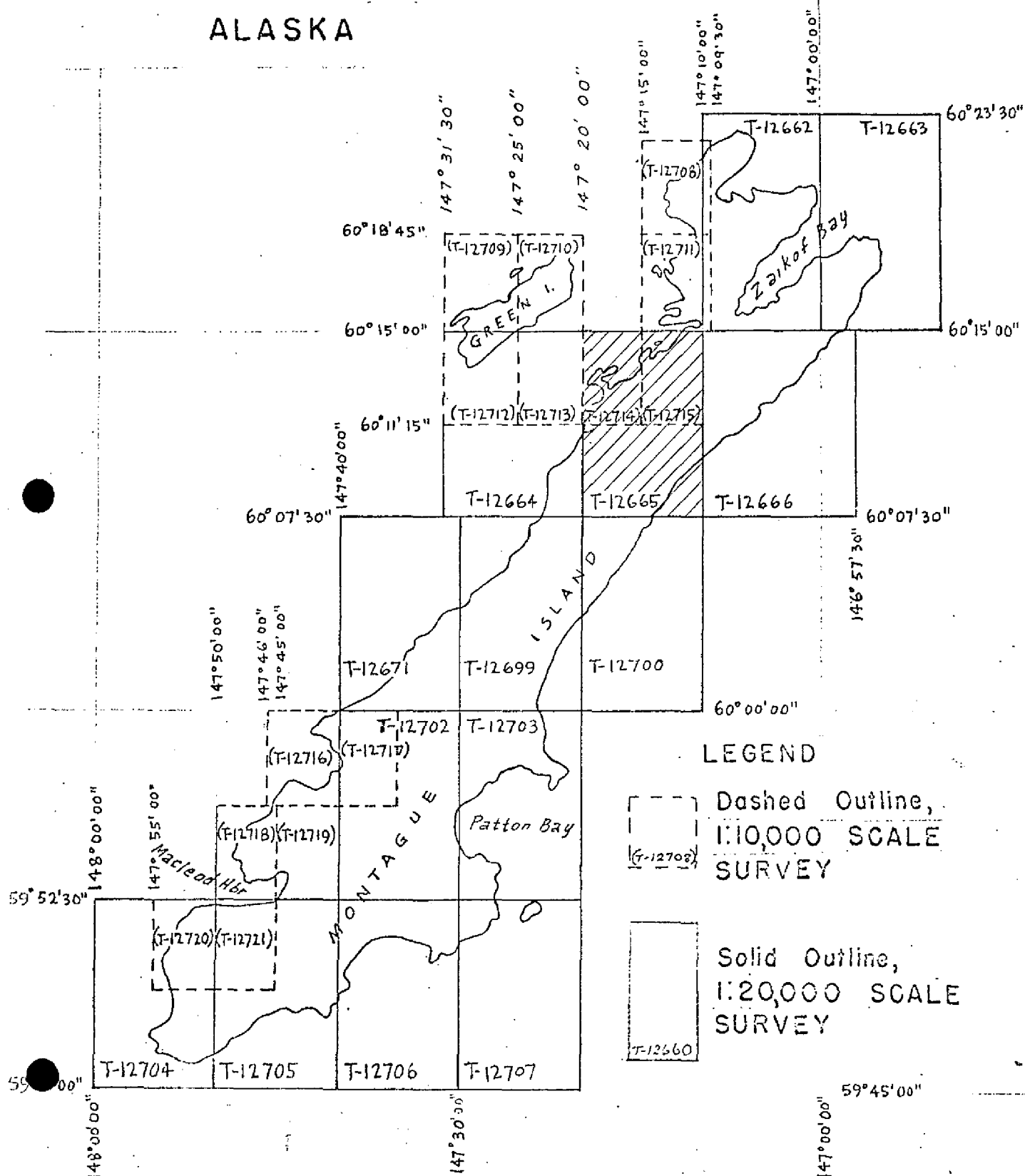
JOB PH-6410

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-12665

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

Fit to Control (feet)

8c

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

COMPILATION REPORT

T-12665

31. DELINEATION:

There was no field inspection. Photography was adequate. The Kelsh plotter was used for the northwest part of the map, the Wild B-8 plotter for the southeast part. The shoreline and other details were refined and completed during review.

32. CONTROL:

See Photogrammetric Plot Report No. 2, dated November 1965, attached.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours - inapplicable.

Drainage - see Item 35.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and all other details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

See Item 35.

37. LANDMARKS AND AIDS:

No charted landmarks or aids were noted during compilation.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions have been made with:

T-12713 (scale 1:10,000) to the west
T-12666 (scale 1:20,000) to the east.
T-12700 (scale 1:20,000) to the south.
T-12664 (scale 1:20,000) to the west.
T-12711 (scale 1:10,000) to the north.

The north half of T-12665 is a reduction of 1:10,000 scale T-12714 and T-12715.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41. COMPARISON WITH HYDRO SURVEYS:

Comparison has been made with H-5427 and H-5461, scale 1:20,000, dated 1933.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle SEWARD (A-1), ALASKA, dated 1953, scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 8515, scale 1:81,436, published November 1935 (7th Edition), and revised to February 14, 1949.

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

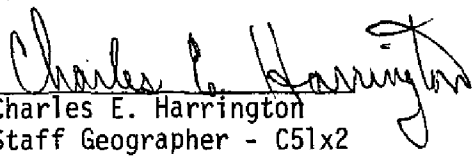
PH-6410 (Montague Island, Alaska)

T-12665

Gulf of Alaska ✓

Montague Island ✓

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

FORM C&GS-1002
(9-66)U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-12665

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 <i>Albert C. Rauck, Jr.</i> FOR B. Wilson 9/19/68		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		SUPERVISOR	
43. REMARKS FIELD EDIT CANCELLED 8/06/75			

REVIEW REPORT

T-12665

SHORELINE

June 30, 1977

61. GENERAL STATEMENT:

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

Field edit was cancelled for this map.

This map is covered from Latitude $60^{\circ} 11' 15''$ to its northern limit by two 1:10,000 scale maps, T-12714 and T-12715. The descriptive reports for these maps should be consulted for information concerning the compilation of that area.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with Topographic Surveys T-4811 and T-4837, each 1:20,000 scale, dated June - July 1933 and June - September 1933, respectively. The south shoreline has moved seaward about 90 meters, apparently as a result of the 1964 earthquake. An island mapped at Latitude $60^{\circ} 11.1'$, Longitude $147^{\circ} 19.6'$ is not visible on the photographs.

~~In the area compared, T-12665 supersedes T-4811 and T-4837 for nautical chart construction purposes. A.L.S.~~

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle SEWARD (A-1), ALASKA, 1:63,360 scale, dated 1953. The same differences noted in Paragraph 62, above, were observed in this comparison.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the project area.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition, dated March 10, 1973. The results of the comparison are the same as those noted 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: ^{sw}

John D. Perrau Jr.

Chief, Photogrammetric Branch

James L. ...

Chief, Coastal Mapping Division