

T-12720

ORIGINAL

T-12720

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-12720 .....  
\*  
Classification No. Incomplete Edition No. .... 1 .....

### LOCALITY

State ..... Alaska .....  
General Locality ..... Montague Island .....  
Locality ..... San Juan Bay .....

19 64 TO 19

### REGISTRY IN ARCHIVES

DATE .....

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

\* CLASS III MANUSCRIPT

## DESCRIPTIVE REPORT - DATA RECORD

T - 12720

PROJECT NO. (II):

PH-6410

FIELD OFFICE (II):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, Va.

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):

Aug 1978

GEOGRAPHIC DATUM (III):

N.A., 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~~

REFERENCE STATION (III):

JUAN, 1965 (T-12704)

LAT.:

LONG.:

☐ ADJUSTED☒ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 2,121,561.64 Ft.      X = 149,035.78 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 SURVEYDESCRIPTIVE REPORT - DATA RECORD  
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FIELD INSPECTION BY (III):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air photo compilation - August 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  3/18/66
PROJECTION AND GRIDS CHECKED BY (IV):  R. Glaser		DATE  3/22/66
CONTROL PLOTTED BY (III):  L. O. Neterer, Jr.		DATE  3/25/66
CONTROL CHECKED BY (III):  K. G. Boyle		DATE  3/25/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  D. O. Norman		DATE  11/65
STEREOSCOPIC INSTRUMENT COMPILATION (III):  Kelsh Plotter		PLANIMETRY J. S. Place DATE 05/66 REVIEWED: B. H. Barnes 05/66 CONTOURS Inapplicable
MANUSCRIPT DELINEATED BY (III):  J. S. Place		DATE  05/66
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: B. Wilson FIELD EDIT: SCRIBING & STICKUP:		DATE 9/06/68
REMARKS: FIELD EDIT BY: FIELD EDIT CANCELLED DATE 8/06/75		



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
64-W-1863 thru 1865	08/15/64	10:58	1:30,000	4.0' above MLLW
64-W-1807	08/15/64	10:20	1:30,000	4.3' above MLLW
64-W-1432 thru 1442	08/07/64	14:33	1:10,000	2.8' below MHW

PREDICTED

TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	<del>EXTREME</del> RANGE
REFERENCE STATION: CORDOVA, ALASKA		10.0	12.4
SUBORDINATE STATION: MACLEOD HARBOR, ALASKA		9.0	11.3
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

None

RECOVERED:

None

IDENTIFIED:

None

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

None

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.	9/06/68	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	"

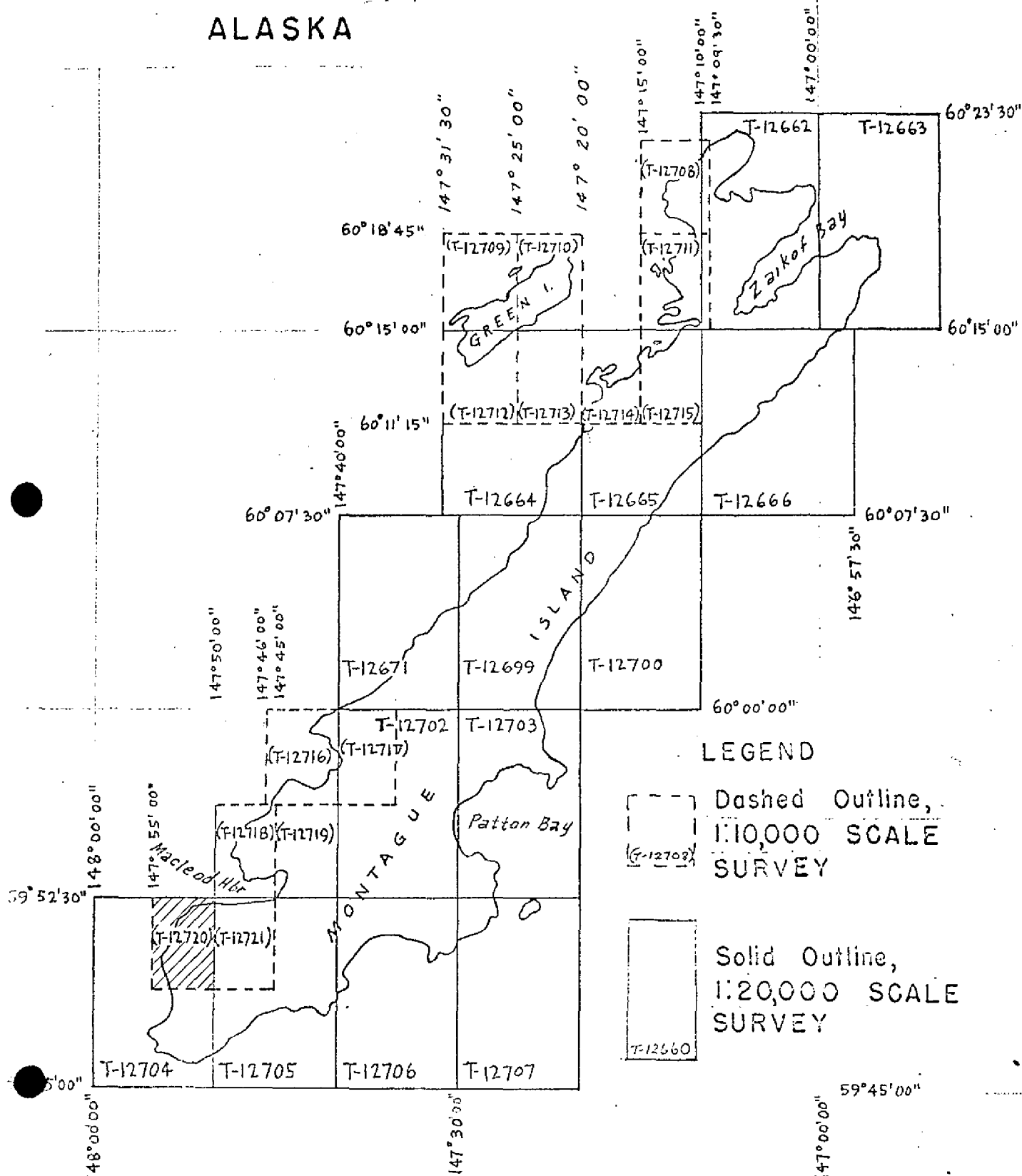
# JOB PH-6410

## 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-12720

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

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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

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## COMPILATION REPORT

T-12720

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 photographs.

36. OFFSHORE DETAILS:

Photography was of sufficient scale and quality to allow the complete delineation of all kelp and foul areas within the map limits.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions are in agreement with T-12705 and T-12721 to the east and with T-12704 to the south and west. There is no contemporary survey to the north. T-12704 and T-12705 are ~~1:10,000~~ scale maps.

1:20,000

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle BLYING SOUND (D-3), Alaska, scale 1:63,360, dated 1953.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Albert C. Rauck, Jr.*  
J. S. Place *Fok.*  
Cartographer

Approved:

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



July 12, 1977

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12720

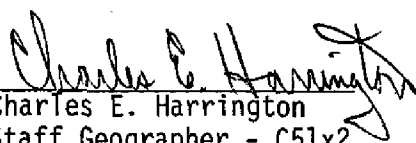
Montague Island ✓

Montague Strait ✓

Point Bryant ✓

San Juan Bay ✓

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-12720			
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 Albert C. Rauck, Jr. FOR B. Wilson		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. 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-12720

SHORELINE

August 3, 1977

61. GENERAL STATEMENT:

This map covers the northeast quadrant of 1:20,000 scale map, T-12704. Details in the area are compiled on this map only.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-4311, 1:20,000 scale, dated August, 1927 compiled on the Valdez Datum. The shoreline was observed on T-12720 to be several hundred meters seaward of that shown on T-4311. The shoreline and alongshore area features mapped on T-12720 were formed after the 1964 earthquake when the area was uplifted.

A swamp area, several piles and pier ruins mapped on T-4311 at the southwest entrance to Macleod Harbor are not visible on the photographs. Two large ponds are shown on T-12720 in the position occupied by the swamp on T-4311.

~~In the area compared, T-12720 supersedes T-4311 for nautical chart construction.~~ A.L.S.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle BLYING SOUND (D-3) ALASKA, 1:63,360 scale, dated 1953. The shoreline differences observed are as stated in Paragraph 62 above. No other significant differences were observed.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic surveys were conducted in the area bounded by this map.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition, dated March 10, 1973. The differences 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: <sup>sw</sup>

*John D. Perrow Jr.*

Chief, Photogrammetric Branch

*John C. ...*

Chief, Coastal Mapping Division