NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Shoreline Type of Survey
LOCALITY
State Alaska
General Locality Montague Island
Locality Point Woodcock
1964 TO 19
REGISTRY IN ARCHIVES

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

* CLASS III. MANUSCRIPT

DESCRIPTIVE REPORT - DATA RECORD T = 12718

PROJECT NO. (11):	-			
PH-6410				
FIELD OFFICE (II):		CHIEF OF PARTY		
None	•			
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHAP	RGE	
Atlantic Marine Center, Norfolk, Virgi	nia	J. Bull,	Director	
INSTRUCTIONS DATED (III) (III):				
Field Office			Aug. 21, 1964	
Field			Feb. 8, 1965	
Office, Amendment I			Feb. 18, 1965	
Office, Amendment I to Feb. 19	1065 Tm	otmotions	Feb. 19, 1965 Feb. 26, 1965	
Field	1 TOO I	IS CLUC CTOUS	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 Graphic				
MANUSCRIPT SCALE (III):	STEREOSCO	PIC PLOTTING INS	TRUMENT SCALE (III):	
1:10,000	1:6,0	00 pantograp	hed to 1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	1		L CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:		DATE REGISTERED (IV):	
•			Aug 1978	
GEOGRAPHIC DATUM (III):		VERTICAL DATU	м (III) : МН W	,
		MENCACATION	LEXCEPT AS FOLLOWS:	
			as (25) refer to mean high water	•
N.A. 1927			as (5) refer to sounding datum	
M.R. 1/21		I.e., TABER AGNAVAN	mean lower low water	
			•	
		<u> </u>		
		·		
REFERENCE STATION (III):		•		
Cloud, 1933				
LAT.: LONG.:		XX ADJUSTED		
59° 55° 16.180°(500.8M) 147°48° 01.042" (1	16.2M)	UNADJUSTED		
PLANE COORDINATES (IV):		STATE	ZONE	
Y = 2,167,600.35 Ft. X = 169,683.50 Ft.		Alaska	3	
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTE	RED BY (II) F	IELD PARTY (III) S	PHOTOGRAMMETRIC OFFICE	
OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE T				

DESCRIPTIVE REPORT - DATA RECORD

T - 12718

FIELD INSPECTION BY (II): DATE: None MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation - Aug. 15, 1964 NO MEAN LOWER LOW-WATER LINE 15 DELINEATED ON THIS MAP. PROJECTION AND GRIDS RULED BY (IV): DATE A. E. Roundtree 3-18-66 PROJECTION AND GRIDS CHECKED BY (IV): DATE R. Glaser 3-22-66 CONTROL PLOTTED BY (III): DATE K. G. Boyle 3-25-66 CONTROL CHECKED BY (III): DATE L. O. Neterer, Jr. 3-25-66 RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): DATE D. O. Norman 11-30-66 STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY DATE J.S. Place B.H.Barnes Kelsh Plotter Reviewed: CONTOURS DATE Inapplicable MANUSCRIPT DELINEATED BY (III): DATE J. S. Place 5-30-66 SCRIBING BY (III): DATE PHOTOGRAMMETRIC OFFICE BEVIEW BY (III): COMPILATION: B. Wilson DATE 8-20-68 FIELD EDIT: SCRIBING AND STICK UP: REMARKS: FIELD EDIT BY: FIELD EDIT CANCELLED 8/06/75 DATE:

DESCRIPTIVE REPORT - DATA RECORD

T-12718

CAMERA (KIND OR SOURCE) (III):

U.S.C. & G. S. Type "W"

		IOTOGRAPHS (III)		,		
NUMBER	DATE	TIME	SCALE	S.	AGE OF TI	DE
69W 1859 thru 1862 64W 1805 thru 1807 64W 1423 thru 1431		10:58 10:19 14:30	1:30,000 1:30,000 1:10,000	4.0 ft 4.3 ft 7.9 ft		e MLLW
*Color photos cente	rs-not·estal	lished				
		i	·			
•					•	
		TIDE (III)	•			. Diuma
				RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Cordova, Ala	aska			10.0	12.4
SUBORDINATE STATION:	Macleod Harb	oor, Alaska			9.0	11.3
SUBORDINATE STATION:						<u> `</u>
WASHINGTON OFFICE REVIEW BY	(IV):			DATE:		;.
PROOF EDIT BY (IV):	·			DATE:		·
NUMBER OF TRIANGULATION ST	ATIONS SEARCHED FO	R (II): 1	RECOVERED:	IDENTIFIE	1	
NUMBER OF BM(S) SEARCHED FO	None		RECOVERED: None	IDENTIFIE	P Non	e
NUMBER OF RECOVERABLE PHO	TO STATIONS ESTABL	ISHED (III):	None	:		
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS ES	FABLISHED (III):	None			
REMARKS:			•		-	

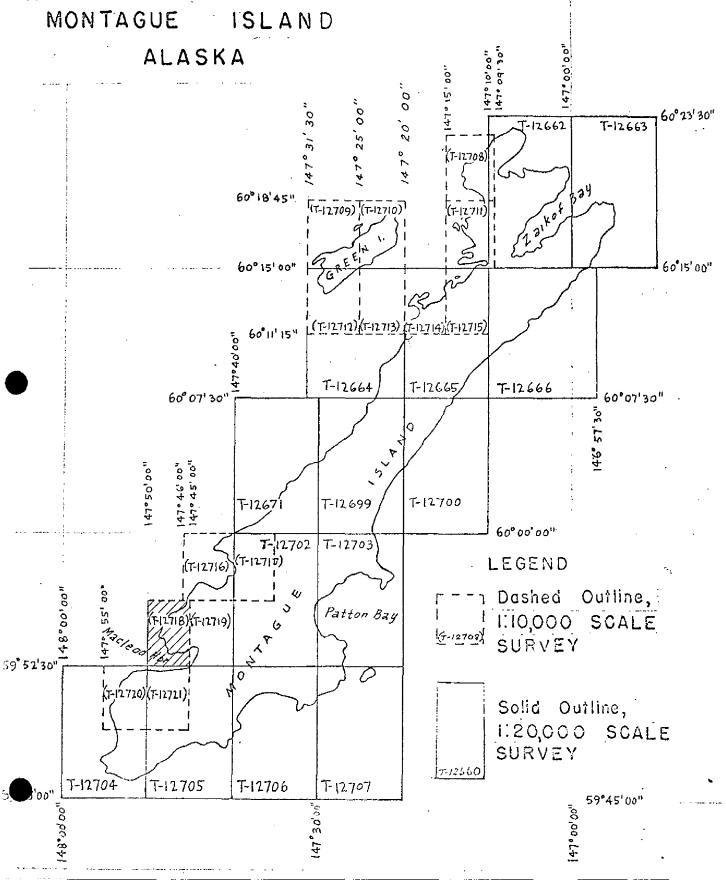
T-12718

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit.	8/20/68	Incomplete manuscript
Field edit cancelled.	8/06/75	Incomplete manuscript
Final Review	. 8/5/77	Class III manuscript
A FEW CORRECTIONS WERE MADE PRIOR TO REGISTRA-	TO MARINE CHARTS 6/8/28	"

JOB PH-6410

SHORELINE MAPPING

SCALE, 110,000 - 120,000



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° 06.7', long. 147° 36.1' (THE NEEDLE) and lat. 60° 11.9', long. 147° 27.1' and a rock at lat. 60° 17.3', long. 147° 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 drived 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-12718
PH-6410

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

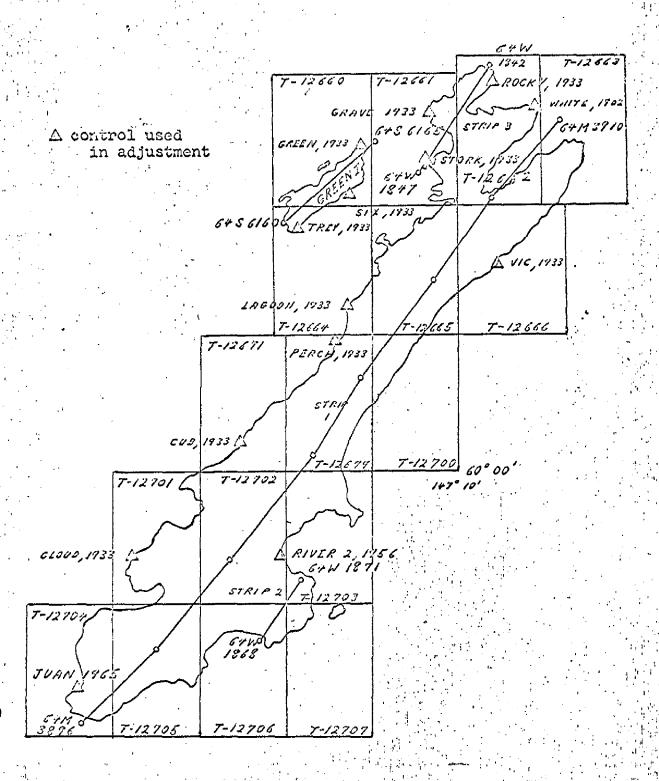
```
STRIP #1
                                                   ▲ used in adjustment
  JUAN, 1965
  ∆ sub station "A"
                                                   ∆used as check
                        -45.1
                                 +23.9
  ▲ sub station "B"
                        - 1.0
                                 - 0.1
  CLOUD, 1933
  △ sub station "A"
                        + 8.8
  ▲ sub station "B"
                        + 1.1
  CUB, 1933
  △ sub station "A"
                        - 7.0
  ▲ sub station "B"
                        + 1.5
  PERCH, 1933 RM #3

A sub station "A"
                        - 1.9
  △sub station "B"
                        -00.2
  LAGOON, 1933
  ▲ sub station "A"
                        - 0.2
                                + 3.0
  △sub station "B"
                        + 3.6
                                +11.9
  WHITE, 1902
  △ sub station "A"
                        +14.0
  ▲ sub station "B"
                                - 0.9
                        + 0.5
  STRIP #2 (adjusted on tie points from Strip #1)
  ▲ 14401
              ₩.4
                      -0.3
                     +0.8
  ▲ 14402
              -0.8.
  ▲ 14403
              +0.91
                     -1.2
  ▲ 14404
              -0.4
                     +0.4
  STRIP #3
  ROCKY, 1933
  △ sub station "A"
                        - 2.0
  ▲ sub station "B"
                          0.0
                                   0.0
  GRAVE, 1933
  A substation "A"
                          0.0
                                   0.0
  ∆ sub station "B"
                        - 1.8
  STORK, 1933
  △direct
                        + 2.1
  A sub station
                       + 0.1
                                   0.0
GREEN ISLAND
  TREY, 1933
  ▲ sub station "A"
                          0.0
                                   0.0
  △ sub station "B"
                        - 0.3
  SIX, 1933 RM #2

△ sub station "A"

▲ sub station "B"
                                 + 0.6
                         .0.0
                                  0.0
  GREEN, 1933
  A sub station "A"
                         0.0..
                                   0.0
  ∧sub station
```

AEROTRIANGULATION SKETCH
MONTACUE ISLAND
PH-6410
November, 1965





DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12718 PF	РРОЈЕСТ NO. РН-6410	scA	SCALE OF MAP 1:10,000 SCA	SCALE FACTOR None
STATION	SOURCE OF INFORMATION (INDEX)	БАТИМ	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
	G.P. Vol. 6	N.A.	590 551 16,180"	(1356.1)
Cloud, 1933		1927	147° 48° 01.042"	16.2 (916.1)
	<u> </u>	,		
	•••			
COMPUTED BY	T T C		\e 14/14/1	0.67.5
			ρ	
A. C. Kauck, Jr.	•811: 23: 1700	00	D. Wilson	97-71-00

COMPILATION REPORT T-12718

31. DELINEATION:

The Kelsh plotter was used. However, the mean high water line was completely revised graphically from the color photographs north of lat. 59° 53" 45" and from the matte ratio prints south of there. 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 photography.

35. SHORELINE AND ALONGSHORE DETAILS:

All details were delineated from office interpretation of photography.

36. OFFSHORE DETAILS:

None

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions have been made with T-12719 to the east and T-12721 to the south and T-12716 to the north. There is no contemporary survey to the west. This map; reduced, forms the SW quarter of T-12791 (T-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.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart No. 8515, Prince William Sound, Western Entrance, scale 1:81,436, at Lat. 60° 00', 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.

Submitted by:

albut C. Ranok. J. FOR B. Wilson

Cartographic Technician

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

Int c. Rouch. In

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6410 (Montague Island, Alaska)

T-12718

- MacLeod Harbor
- / Montague Island
- / Montague Strait
- /Point Woodcock

Approved by:

Charles E. Harrington Staff Geographer - C51x2

NOAA FORM 75-74 (2-74)		···	12718	J.S. DEPARTMENT OF COMMER
	PHO	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURV
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
Page 4				
BW	BI	<u> </u>	BW	BW
CONTROL STATIONS	ATIONS OF	14 propure	DI E NODIZANZAL STATIONE	7. PHOTO HYDRO STATIONS
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ACCURACY	OF LESS TH	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY Stations)	7. PHOTO REDRO STATIONS
BW			NA	NA
BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	N.	٨	BW	BW
ALONGSHORE AREAS (Nautica		<u> </u>		DM
2. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES
BW 16. AIDS TO NAVIGATION	17. LANDMARK		BW 18. OTHER ALONGSHORE	BW BW
IO. AIDS TO NAVIGATION	I. LANDMARK	19	PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
BW	J BI	W	BW) _{BW}
HYSICAL FEATURES		<u> </u>	<u> </u>	
O. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOU
ВW			NT A	BTA
3. STEREOSCOPIC	24. CONTOUR	S IN GENERAL	NA 25. SPOT ELEVATIONS	NA 26. OTHER PHYSICAL
INSTRUMENT CONTOURS				FEATURES
<u>N</u> A	NA	A	NA	BW
ULTURAL FEATURES	28. BUILDING		T 20 DAIL DO 100	20 071157 0111 7117
27. ROADS	28. BUILDING:	5	29. RAILROADS	30. OTHER CULTURAL FEATURES
BW	В₩		BW	BW
BOUNDARIES				
1. BOUNDARY LINES	7.8		32. PUBLIC LAND LINES	
	<u>AV</u>		<u> </u>	NA
NISCELLANEOUS 3. GEOGRAPHIC NAMES		34. JUNCTION	\$	35. LEGIBILITY OF THE
				MANUSCRIPT
BW	1.55	<u> </u>	BW	BW
6. DISCREPANCY OVERLAY	37. DESCRIPT	IVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
BW	BV	J	NA.	BW
O. REVIEWER	7		SUPERVISOR, REVIEW SECTI	ON OR UNIT.
	auck.Jr. F		albut C. M.	auch. Jr.
B. Wilson		8/20/68	A. C. Rauck, Jr.	
1. REMARKS (See attached she TELD COMPLETION ADDITION		TIONS TO THE	MANUSCRIPT	<u> </u>
			ion survey have been applied	to the manuscript. The manu-
script is now complete ex	cept as noted un	der item 43.		
COMPILER			SUPERVISOR 	
			ļ	
3. REMARKS			.H	
FIELD EDIT C	ANCELLED	8/	06/75	

REVIEW REPORT

SHORELINE

August 5, 1977

61. GENERAL STATEMENT:

T-12718 comprises the southwest quarter of

TITYOL. Dotails in this area are mapped on TITYING DOLLARS. The north shoreline of Macleod Harbor is very steep and experienced very little horizontal displacement resulting from the 1964 earthquake. However, except for that area, the shoreline shown on T-12718 is hundreds of meters seaward of its previously mapped position.

A cove area at the northern edge of this map was closed to navigation because of slippage along a fault. This fault is clearly visible on the photographs and extends from Point Woodcock northeastward through the cove to the south shore of Hanning Bay.

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. Piles mapped at Lat. 59° 53.4′. Long. 147° 45.0′: a swamp area mapped at Lat. 59° 55.4′, Long. 147° 46.7′ and a kelp area mapped along the north shore of the entrance to Macleod Harbor are not visible on the photography. See Paragraph 61 above.

In the area compared, "- 12718 Supersedes "- 43115 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. Piling mapped on the north side of Macleod Harbor is not visible on the Photography. See Paragraph 61 for shoreline differences.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

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

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 16701, 1:80,000 scale, 11th edition, dated March 10, 1973. Differences observed are the same as those noted in Paragraphs 61 and 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

Chief, Photogrammetric Branch, AMC

Approved: Pur

Chief, Photogrammetric Branch

Charef, Coastal Mapping Div.