

T-13421
ORIGINAL

T-13421

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-6502..... Map No. T-13421.....

Classification No. III Edition No. 1

LOCALITY

State Alaska

General Locality .. Glacier Bay-Muir Inlet

Locality Wachusett Inlet West

19 72 TO 19 72

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY T. 13421 MAP EDITION NO. (1) MAP CLASS III JOB PH. 6502	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.				OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR			
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation 5/18/73 Compilation Supp. II 6/14/73 Final Review 6/03/77				May 5, 1972			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION Polyconic				4. GRID(S) STATE Alaska ZONE 1			
5. SCALE 1:10,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY D. Norman						Feb 1974	
METHOD: Analytic LANDMARKS AND AIDS BY							
2. CONTROL AND BRIDGE POINTS PLOTTED BY D. Phillips						May 1974	
METHOD: Coradomat CHECKED BY D. Phillips						May 1974	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY L. Neterer						Dec 1974	
COMPILED BY R. White						Dec 1974	
INSTRUMENT Wild B-8							
SCALE: 1:15,000							
4. MANUSCRIPT DELINEATION PLANIMETRY BY D. Butler						Dec 1974	
CHECKED BY J. R. Minton						Jan 1975	
METHOD: Smooth drafting							
CHECKED BY NA							
SCALE: 1:10,000							
HYDRO SUPPORT DATA BY NA							
CHECKED BY NA							
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY							
6. APPLICATION OF FIELD EDIT DATA BY None							
CHECKED BY							
7. COMPILATION SECTION REVIEW BY None after 4. above							
8. FINAL REVIEW BY C. H. Bishop						Oct 1977	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY C. H. Bishop						Dec 1977	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY J. B. Phillips						Dec 1977	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY R. T. Catola						Mar 1978	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-13421
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8"E"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE JUNEAU		(C) COLOR X (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> PREDICTED TIDES Muir Inlet <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Pacific	
				MERIDIAN	120th
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72E(C) 4711 & 4712	7/4/72	13:37	1:30,000	3.0 ft. above MLLW	
72E(C) 4718 & 4719	7/4/72	13:45	1:30,000	3.0 ft. above MLLW	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the above listed photographs.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

None compiled

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	T-12747	No survey	T-13420
REMARKS			

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-13421
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	None	
2. HORIZONTAL CONTROL	RECOVERED BY: None ESTABLISHED BY: None PRE-MARKED OR IDENTIFIED BY: None	
3. VERTICAL CONTROL	RECOVERED BY: NA ESTABLISHED BY: NA PRE-MARKED OR IDENTIFIED BY: NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY: None LOCATED (Field Methods) BY: None IDENTIFIED BY: None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY: None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY: None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None

NOAA FORM 76-36C
(3-72)

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-13421
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Dec 1974	Class III		
Final Review prior to registration	Oct 1977	Class III No corrections	Nov. 1977	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

NOAA FORM 76-36D



REVISED 9-5-72 RWH

JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-13421

This 1:10,000 scale shoreline manuscript is one of 80 maps that comprise Project PH-6502, Glacier Bay, Alaska. The project diagram shows its location in the project.

No field work was done prior to compilation.

Aerotriangulation was done in Rockville in February 1974.

Compilation was done at the Atlantic Marine Center in December 1974, using 1:30,000 scale color photography of July 1972. Since shoreline compilation followed hydrography, no photo-hydro support was required.

No field edit was accomplished. It was postponed indefinitely per letter dated June 3, 1977.

Final review of the Class III manuscript was done at the Atlantic Marine Center in October 1977.

The original manuscript was a stabilene sheet five minutes in latitude by five minutes in longitude. It was forwarded to Rockville for processing a film positive for filing in the Archives, one reproduction negative to be filed in the Reproduction Branch, and two negatives to be forwarded to the Photo Map and Imagery Section for dispersal.

Supplemental Plot Report
Glacier Bay, Alaska
PH-6502
February 1974

21. Area Covered

This report pertains to the northern part of Glacier Bay, Alaska. The sheets covered are T-12739, T-12730, T-13420, T-31421, T-12747, T-12729, T-12735 thru T-12737, T-12746, T-12741, and T-12755.

22. Method

Four strips of 1:40,000 scale color photography were bridged by analytic aerotriangulation methods. Points were transferred from the 1:40,000 scale photography to 1:30,000 scale color photography to be used for compilation. These compilation points and data for projections and grids were furnished to the Coradomat to be plotted on the Alaska state plane coordinate system, zone 1.

23. Adequacy of Control

The control was adequate.

24. Supplemental Data

None was used.

25. Photography

The photography was adequate.

26. Purpose

The area is covered by previous photography that was used in bridging and compilation. New control stations were put in and the 1972 photography was flown to cover areas where the glaciers have receded.

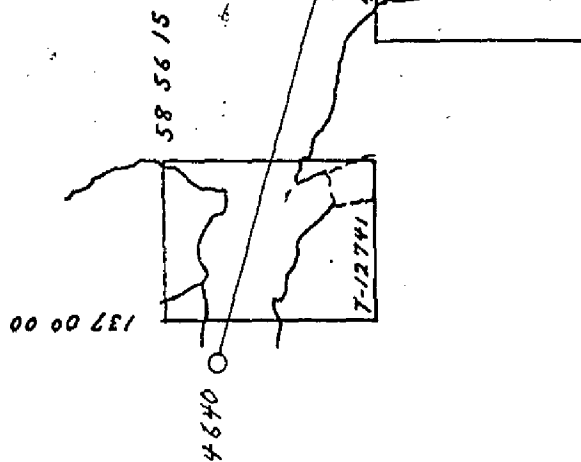
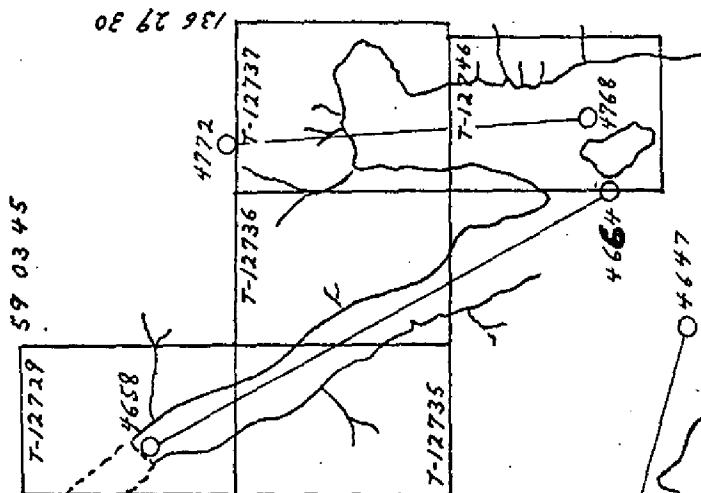
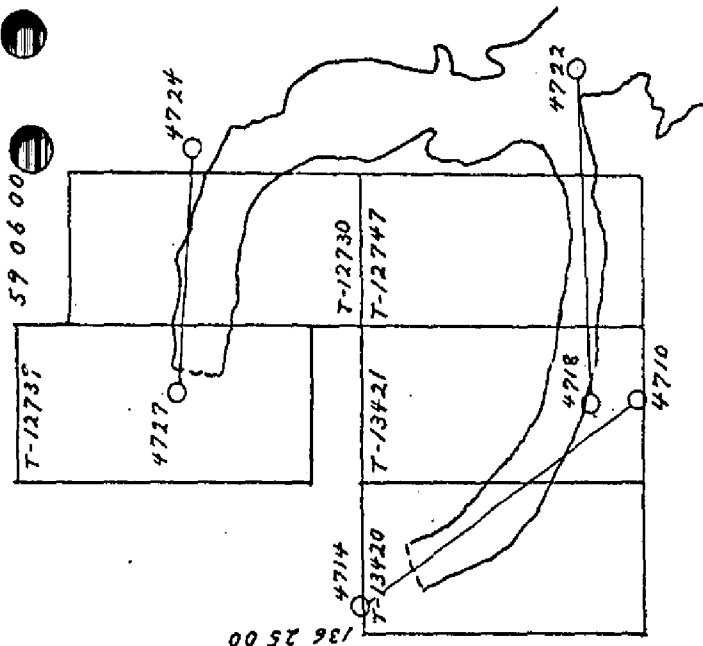
Submitted by,

Don O. Norman

Don O. Norman

Approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section



AEROTRIANGULATION SKETCH
 COMPILATION PHOTOGRAPHY
 GLACIER BAY, ALASKA

PH-6502
 FEBRUARY, 1974

○ 1:30000 scale 72E color photography

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	SOURCE OF INFORMATION (Index)	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
			STATE	ZONE			ϕ LATITUDE	λ LONGITUDE			
T-13421		PH-6502	Alaska	1							
NONE							X=	ϕ			
							Y=	λ			
							X=	ϕ			
							Y=	λ			
							X=	ϕ			
							Y=	λ			
							X=	ϕ			
							Y=	λ			
							X=	ϕ			
							Y=	λ			
							X=	ϕ			
							Y=	λ			
							X=	ϕ			
							Y=	λ			
							X=	ϕ			
							Y=	λ			
COMPUTED BY											DATE
LISTED BY											DATE
HAND PLOTTING BY											DATE

COMPILATION REPORT

T-13421

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale photography. Coverage was adequate.

32. CONTROL:

See the attached Photogrammetric Plot Report, dated February 1974.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the attached Form 76-36b, item #5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: MT. FAIRWEATHER (D-1), ALASKA, scale 1:63,360, dated 1948, with minor revisions in 1963.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey chart: C&GS chart 8202, scale 1:209,978, 17th edition, dated Sept. 11, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

David P. Butler

David P. Butler
Cartographic Aid
Dec. 23, 1974

Approved:

Albert C. Rauck, Jr.

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

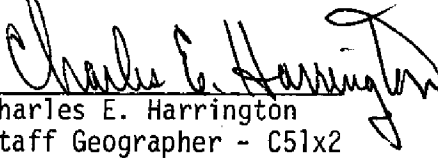
PH-6502 (Glacier Bay, Alaska)

T-13421

Wachusett Inlet

Glacier Bay National Monument

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74
(7-75)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T - 13421

1. PROJECTION AND GRIDS JRM	2. TITLE JRM	3. MANUSCRIPT NUMBERS JRM	4. MANUSCRIPT SIZE JRM
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY JRM	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS JRM
8. BENCH MARKS JRM	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT NA	11. DETAIL POINTS JRM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE JRM	13. LOW-WATER LINE JRM	14. ROCKS, SHOALS, ETC. JRM	15. BRIDGES NA
16. AIDS TO NAVIGATION JRM	17. LANDMARKS JRM	18. OTHER ALONGSHORE PHYSICAL FEATURES JRM	19. OTHER ALONGSHORE CULTURAL FEATURES JRM
PHYSICAL FEATURES			
20. WATER FEATURES JRM	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 JRM
CULTURAL FEATURES			
27. ROADS JRM	28. BUILDINGS JRM	29. RAILROADS JRM	30. OTHER CULTURAL FEATURES JRM
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES JRM	34. JUNCTIONS JRM		35. LEGIBILITY OF THE MANUSCRIPT JRM
36. DISCREPANCY OVERLAY JRM	37. DESCRIPTIVE REPORT JRM	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS JRM
40. REVIEWER <i>James R. Minton</i> J. Minton 1/75		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck Jr.</i> Albert 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			

REVIEW REPORT

T-13421

SHORELINE

October 1977

61. GENERAL STATEMENT:

See Summary, which is page 6 of this Descriptive Report.

No comparison print for this map was made.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

None--no registered topographic survey of this area was available.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle MT. FAIRWEATHER (D-1), ALASKA, 1:63,360 scale, dated 1948, with minor revisions in 1963. The quadrangle is inadequate for comparison; there is no shoreline in the area compared.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the verified smooth sheet for Survey H-9317 (MA-20-3-72). No significant difference was noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 17300 (8202), 1:209,978 scale, 20th edition, dated Jan. 1, 1977. The entire shoreline in the area compared is shown as approximate on the chart, while it is mapped as surveyed shoreline on T-13421.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted by:

Charles H. Bishop

Charles H. Bishop
Cartographer
Oct. 21, 1977

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

D. K. Langford

Chief, Photogrammetric Branch

James A. ...

Chief, Coastal Mapping Div.