NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

Map No.	Edition No.
TP-01303	1
Job No.	
CM-8401	
Map Classification	
CLASS III (FINAL)	
Type of Survey	
SHORELINE	
LOCALITY	1
State	
MAINE	
General Locality	
MACHIAS BAY & VICINITY	
Locality	
ROQUE ISLAND	
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REGISTERED IN A	RCHIVES
DATE	
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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY SUR	VEY TP- 01303
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		_
	J j	EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY MAP	CLASS III (Final)
	REVISED JOB	х рэх <u>СМ-8401</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDING MA	P EDITION
Coastal Mapping Unit, Altantic Marine	TYPE OF SURVEY JOB	
Center, Norfolk, Virginia	[CLASS -
OFFICER-IN-CHARGE	RESURVEY SUR	VEY DATES:
A. Y. Bryson, CDR	REVISED 19_	_TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2. FIELD	
Aerotriangulation January 14, 1986	_	4, 1985
Compilation June 6, 1986	, ,	t 14, 1985
1 .	Change No. 2 May 7	, 1986
	·	
II. DATUMS		
	OTHER (Specify)	
1. HORIZONTAL: XX 1927 NORTH AMERICAN		
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER MEAN SEA LEVEL		
3. MAP PROJECTION	4 001040	
	4. GRID(S	·
Transverse Mercator Projection	Maine	East
5. SCALE	STATE ZONI	<u> </u>
1:20,000		
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME NAME	
I. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY	V. McNeel V. McNeel	Mar 1986
2. CONTROL AND BRIDGE POINTS PLOTTED BY	F. Mauldin	Apr 1986
METHOD: Xynetics 1201 CHECKED BY	F. Mauldin	Apr 1986
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	P. Evans/D. Miller	Jul 1986
COMPILATION CHECKED BY	F. Mauldin	Jul 1986
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
SCALE: 1:20,000 CHECKED BY	N.A.	T::1 1006
4. MANUSCRIPT DELINEATION PLANIMETRY BY	P. Evans/D. Miller F. Mauldin	Jul 1986 Aug 1986
CHECKED BY CONTOURS BY	N.A.	Aug 1500
метнов: Smooth drafted снескев ву	N.A.	
HYDRO SUPPORT DATA BY	P. Evans/D. Miller	Jul 1986
SCALE: 1:20,000 CHECKED BY	F. Mauldin	Aug 1986
5. OFFICE INSPECTION PRIOR TO RESERVENT Final Reviews	F. Mauldin	Aug 1986
6. APPLICATION OF FIELD EDIT DATA	N.A.	
CHECKED BY	N.A.	Aug 1986
7. COMPILATION SECTION REVIEW Class III BY 8. FINAL REVIEW Class III BY	F. Mauldin J. Hancock	Sept 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	Sept 1986
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Dempsey	Jan 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	EVENE DAUGHERTY	MAR 87
NOAA FORM 76-36A SUPERSEDES FORM C& GS 181 SERIES		70 70000 Pro DEC #

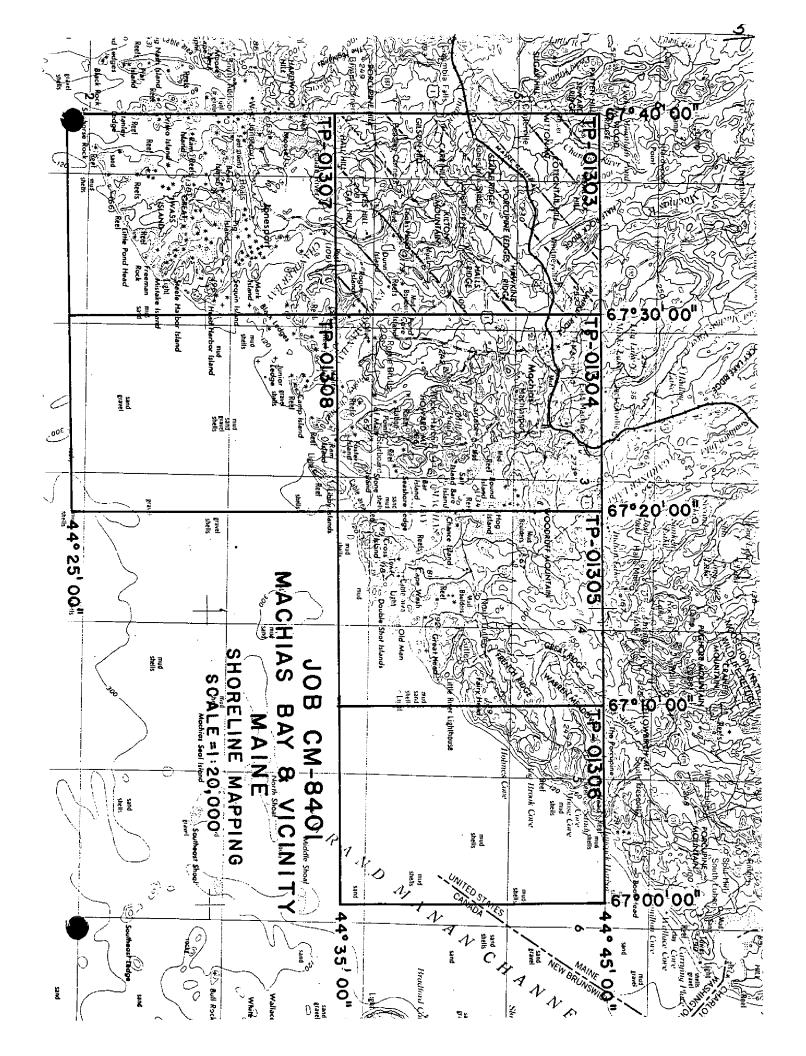
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<u> </u>		PRE-MARKED O	R IDENTIFIED B	Y None			
	REC	OVERED (Triange	lation Stations) B	y <u>None</u>			
LANDMARKS AND AIDS TO NAVIGA		LOCATED	(Field Methods) B	v <u>None</u>			
		TYPE OF IN	IDENTIFIED B	v None			
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SUPPLEMENTAL	MAPS AND P	LANS					
None							
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OTHER FIELD RE	CORDS (Sket	ch books, etc. DO		mitted to the Geodesy I.	ivision)		
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NOAA FORM 76-36D (3-72)	
	F
. MANUSCRIPT COPIES	
	COMPILATION
DATA COMPILED	DATE
Compilation Complete	Aug. 19
Final Review	Sept.19

U. S. DEPARTMENT OF COMMERCE
TP-01303

RECORD OF SURVEY USE									
I. MANUSCRIPT COPIES									
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Compila	tion Complete	Auc	r. 1986	Class III	Manuscri	int_			
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II. LANDMARKS AND AIDS TO NAVIGATION None									
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH									
NUMBER ASSIGNED FORWARDED REMARKS									
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2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED:									
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:									
11. FEDERAL RECORDS CENTER DATA 1. XX BRIDGING PHOTOGRAPHS; XX DUPLICATE BRIDGING REPORT: 4 XX COMPUTER READOUTS. 2. XX CONTROL STATION IDENTIFICATION CARDS;									
	DATA TO FEDERAL RECOR						· · · · ·		
IV. SURVE	Y EDITIONS (This section s	hall b	JOB NUMBE		o edition is re) TYPE OF SUR	- VEV	
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01303

This final Class III shoreline map is one of six 1:20,000 scale maps (TP-01303 thru TP-01308) that comprise project CM-8401, Machias Bay and Vicinity, Maine.

The purpose of this map is to provide current charting information for nautical chart maintenance and to furnish support data for proposed hydrographic activity.

This map portrays the shoreline along Chandler River and the bay areas north of Roque Island.

Field work prior to compilation consisted of the recovery, establishment and identification, by premarking methods, of horizontal control necessary for aerotriangulation. Also, field assistance was provided in obtaining the tide coordinated photographs and numerous (79) supplemental ground stations were premarked for control densification in support of hydrography. This activity was completed in November 1985. There was no field inspection performed.

Photo coverage for the project was adequately provided by 1:50,000 scale photographs taken with the Wild RC-8 (E) camera in September and October 1985. Color photographs were obtained for bridging and compilation. Tide coordinated black-and-white photographs, taken at mean high water and mean low water, were provided for graphic compilation and interpretation assistance. Supplemental 1:30,000 scale color photographs were obtained for identifying premarked control stations in support of hydrography.

Analytic aerotriangulation was adequately provided by the Washington Science Center in March 1986. Additional ground control was determined for the hydrographer by measuring 56 paneled photo stations. Bridging provided ratio values for enlarging the photographs to map scale and also photo located visible landmarks and navigational aids.

Compilation, based upon office interpretation of the 1:50,000 scale color photographs, was performed at the Coastal Mapping Unit, Atlantic Marine Center in August 1986. Compilation included the use of MHW and MLW tide coordinated infrared photographs. Refer to the Compilation Report for specific use of this photography.

Final review was performed at the Atlantic Marine Center in September 1986. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch. A Notes to Hydrographer print and related support data were prepared to assist the hydrographer.

The Descriptive Report for this final Class III map contains all pertinent information used in map production. The original base manuscript and related data were forwarded to the Washington Science Center for registration.

FIELD INSPECTION

TP-01303

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for aerotriangulation. Field activity also included the premarking of supplemental horizontal control in support of hydrography and the monitoring of the Eastport tide gage in obtaining tide coordinated infrared photography.

PROJECT REPORT CM-8401 MACHIAS BAY AND VICINITY, MAINE

SHORELINE MAPPING

This project was completed in compliance with Project Instructions dated 14 May 1985. Field work was accomplished during the period 9 September through 8 November 1985. Ten panels for 1:50,000 aerotriangulation photography were placed and located. Seventy-nine hydrographic control sites were paneled for 1:30,000 photography. Each site was permanently marked and described so that future recovery by the hydrographer will be possible. The tide gage at Eastport, ME was used for I.R. photography. Levels were run to the tape gage before and after photography to verify its elevation.

Submitted by /

Jim D. Shea

26 November 1985

AEROTRIANGULATION REPORT CM-8401 Machias Bay and Vicinity, Maine March 1986

21. Area Covered

This report covers the Machias Bay, Maine area from Western Bay to Eastern Head. The project consists of six 1:20,000-scale sheets; TP-01303 through TP-01308.

22. Method

Three strips of 1:50,000-scale color photographs were bridged by analytic aerotriangulation methods and adjusted to ground as a block using the General Integrated Analytical Triangulation Program (GIANT). Pre-marked control stations were used as horizontal control.

The photographs were measured using the National Ocean Service Analytic Plotter (NOSAP) under control of the Integrated Digital Photogrammetric Facility Software (IDPF). Common points were transferred between strips to ensure adequate junctioning.

Ratio values were determined for the 1:50,000-scale color bridging photographs and the 1:50,000-scale MLW and MHW infrared photographs. A copy of these values and sketches of the photo coverage are attached to this report.

A magnetic tape containing positions to be plotted on a base manuscript has been prepared. These positions are in the Transverse Mercator State Plane Coordinate System, Maine, East Zone.

23. Adequacy of Control .

The control was adequate and meets the National Ocean Service requirements. A listing of closures to control is attached.

24. Supplemental Data

USGS Topographic Quadrangles were used to obtain vertical control for bridging. NOS Nautical Charts were used to locate aids and Landmarks.

25. Photography

The coverage, overlap, and quality of the photographs were adequate for the job.

26. Additional Positions

Aerotriangulated positions were determined for 56 paneled hydrographic control sites. A majority of the panels were measured on two adjacent photographs only. Aerotriangulated positions were also determined for five landmarks requested by the U.S. Coast Guard.

Submitted by,

Vic McNeel

Approved and Forwarded:

Don O. Horma

Don O. Norman

Chief, Aerotriangulation Unit

FIT TO CONTROL

STATION NAMES	POINT NO.	VALUES X	IN FEET Y
1. Tibb 1985	217100	-1.3	+3.4
2. Kel 1913, sub. station	214101	+0.6	-1.1
3. Merstin 1883	211100	-0.4	-1.6
4. Ackley RM2 1882, 1960	209101	-1.4	-1.5
5. Bog Creek RM1, 1863	205101	+0.2	+0.5
6. Godfrey 1883	204100	+0.4	+0.6
7. Curmple 1862, sub. station	238101	+0.4	-1.0
8. Foster Island 1882	243100	+1.5	-0.3
9. Ryefield 1862	187100	+0.6	0.0
10. Little 1985 (not held in adjustment)	193100	-1.8	-0.1

4

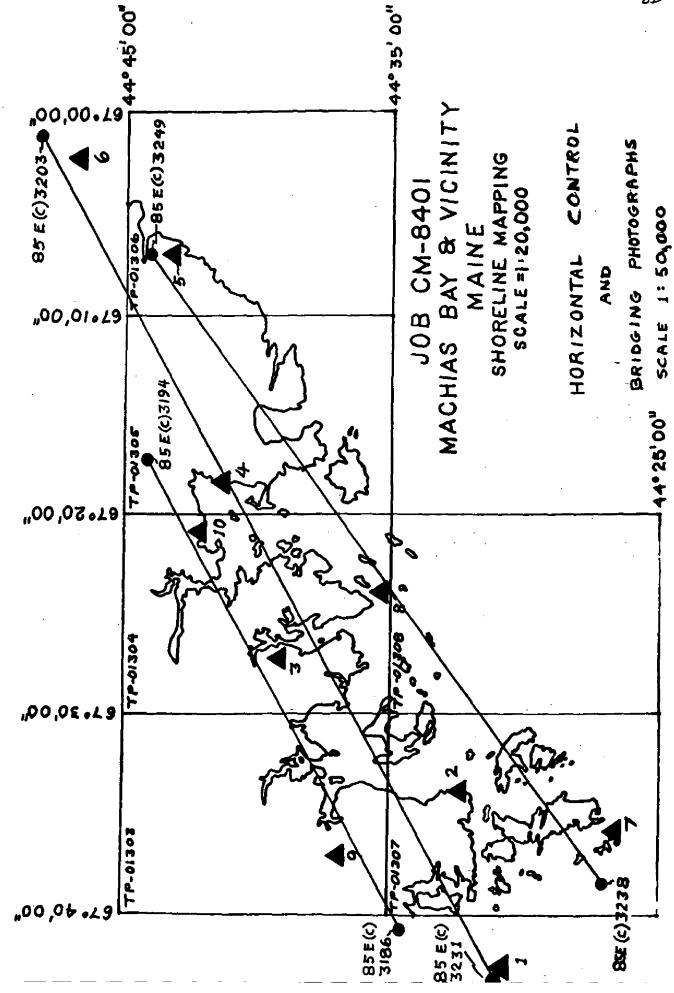
RATIO VALUE

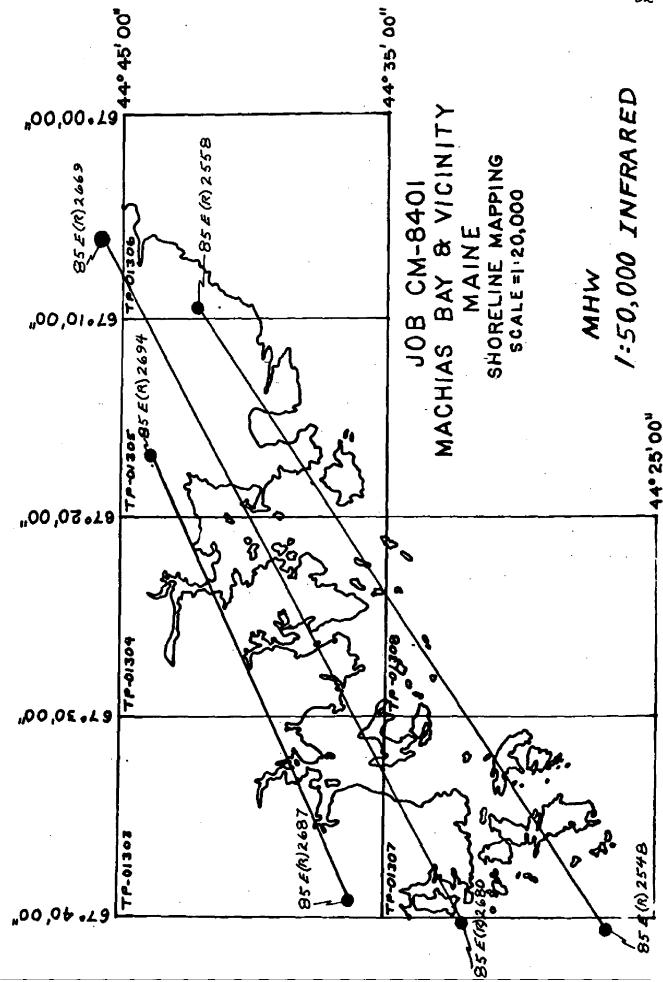
CM-8401

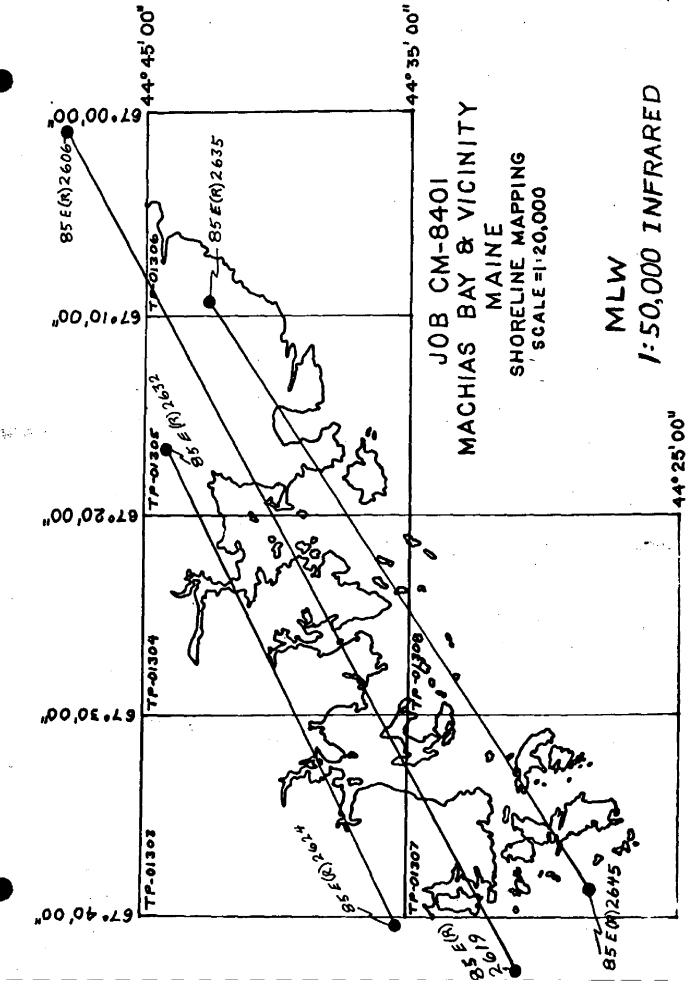
1:50,000 Bridging Photographs

		Ratio Value
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MLW 1:50,0	000 Black and White Infrared	
85 E(R) 26 85 E(R) 26 85 E(R) 26	524-2632	2.51 2.51 2.51
MHW 1:50,0	000 Black and White Infrared	·
85 E(R) 25 85 E(R) 26 85 E(R) 26	569-2680	2.53 2.52 2.51

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NOAA FORM 76-41 (6-75)		DECCEIBTIV	DESCRIPTIVE DEBOOT CONTROL BECORD		U.S.	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	
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LISTED BY David R. Miller		DATE 7/14/86	LISTING CHECKED BY P. L.	Evans		DATE 7/14/86	
		DATE	HAND PLOTTING CHECKED BY			DATE	_
		SUPERSEDES NO	SUPERSEDES NOAA FORM 16-41, 2-71 EDITION WHICH IS OBSOLETE.	H IS OBSOLETE.			7

COMPILATION REPORT

TP-01303

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs. Tide coordinated MHW infrared ratio photographs were used to assist in interpretation of the shoreline. Tide coordinated MLW infrared ratio photographs were used to graphically compile the approximate mean low water line. Control for graphic delineation was provided by the instrument compilation of coastal detail and common image points.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate.

32 - CONTROL

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated March 1986.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The mean high water line was compiled from office interpretation of the compilation/bridging color photographs and was complemented by the tide coordinated MHW infrared ratio photographs.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument methods using the 1:50,000 scale bridging/compilation color photographs as described in item #31.

The MLW infrared ratio photographs were used to graphically compile the approximate mean low water line as described in item #31.

37 - LANDMARKS AND AIDS

There are no charted landmarks and no charted aids within the mapping limits of this manuscript.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B. Item 5 of the Descriptive Report.

40 - HORIZONTAL AND VERTICAL ACCURACY

See item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles: Whitneyville, ME; dated 1948; photorevised 1977; scale 1:24,000 Jonesport, ME; dated 1948; photorevised 1977; scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS charts: 13326; 10th edition; scale 1:40,000; dated November 17, 1984 13325; 11th edition; scale 1:80,000; dated May 1, 1982.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

FOR

David R. Miller

Cartographic Technician

22 July 1986

Approved

James L. Byrd, Jr.

James J. Byrd fr.

Chief, Coastal Mapping Unit



GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8401 (Machias Bay, Maine)

TP-01303

Bobs Cove Board Point Boundary Ledges Chandler Bay Chandler River Deep Hole Point Dunn Island Englishman Bay Fellows Island Flake Point Bar Great Bar Great Cove Great Head Jonesboro Kilton Point Lapstone Ledge Little Mark Island Little Ram Island Look Head Look Point

Mansfield Creek Mason Bay Mason Bay (locality) Nepp Point Pond Cove Island Roque-----Rogue Island Roque-----Roque Island Harbor AM deleteRogue-Island-Ledge-Qu# Round Cove Sanford Cove Seal Rock Shorey Cove Smith Point Southwest Creek Spar Island Squire Point Squire Point Ledge Tenney Cove Tide Mill Creek

White Creek

Approved,

Charles E. Harrington

Chief Georgrapher

Nautical Charting Division Charting and Geodetic Services

REVIEW REPORT TP-01303

SHORELINE

61 - GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in September 1986. For a schedule of the office and field operations, refer to the Summary included in this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following USGS quadrangles: Whitneyville, ME; dated 1948; photorevised 1977; scale 1:24,000 Jonesport, ME; dated 1948; photorevised 1977; scale 1:24,000.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary hydrographic survey was performed in the area common to this map.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS charts: 13326, 10th edition, scale 1:40,000, dated November 17, 1984 13325, 11th edition, scale 1:80,000, dated May 1, 1982.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by

Jerry L. Hancock Final Reviewer

Approved for forwarding

Billy H. Barnes,

Chief, Photogrammetric Section

Approved

Chief, Photogrammetric Production Sec.

Chief, Photogrammetry Branch

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. CM-8401. (TP-01303)

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revi

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FORM CAGS-8182 SUPERSEDES ALL EDITIONS OF FORM CAGS-878.