

TP-01305

TP-01305

NOAA FORM 76-35 (6-80) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h1>DESCRIPTIVE REPORT</h1>	
THIS MAP EDITION WILL NOT BE FIELD EDITED	
Map No. TP-01305	Edition No. 1
Job No. CM-8401	
Map Classification CLASS III (FINAL)	
Type of Survey SHORELINE	
LOCALITY	
State MAINE	
General Locality MACHIAS BAY AND VICINITY	
Locality CROSS ISLAND	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 19 85 TO 19 </div>	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, Virginia OFFICER-IN-CHARGE A. Y. Bryson, CDR		SURVEY TP. <u>01305</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III (Final)</u> JOB <u>PH. CM-8401</u>	
I. INSTRUCTIONS DATED		LAST PRECEDING MAP EDITION	
1. OFFICE		2. FIELD	
Aerotriangulation January 14, 1986 Compilation June 6, 1986		Control May 14, 1985 Change No. 1 August 14, 1985 Change No. 2 May 7, 1986	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Transverse Mercator Projection		4. GRID(S) STATE ZONE Maine East	
5. SCALE 1:20,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		V. McNeel V. McNeel	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Xynetics 1201</u> CHECKED BY		F. Mauldin F. Mauldin	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		R. Kravitz F. Mauldin	
INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:20,000</u> CHECKED BY		N.A. N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		R. Kravitz F. Mauldin	
METHOD: <u>Smooth drafted</u> CONTOURS BY CHECKED BY		N.A. N.A.	
SCALE: <u>1:20,000</u> HYDRO SUPPORT DATA BY CHECKED BY		R. Kravitz F. Mauldin	
5. OFFICE INSPECTION PRIOR TO FIELD <u>Final Review</u> BY		F. Mauldin	
6. APPLICATION OF FIELD EDIT DATA BY		N.A.	
7. COMPILATION SECTION REVIEW <u>Class III</u> BY		N.A. F. Mauldin	
8. FINAL REVIEW <u>Class III</u> BY		J. Hancock	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Hancock	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E.L. DAUGHERTY	

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8 (E), "E" = 152.71 mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES * <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE COORDINATED PHOTOGRAPHY ** coordinated				ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 85 E(C) 3213-3215 (odd)	10-8-85	10:25	1:50,000	4.7 feet above MLW	
* 85 E(C) 3244-3248	10-8-85	10:37	1:50,000	4.1 feet above MLW	
** 85 E(I) 2610-2611	9-22-85	10:47	1:50,000	1.4 feet above MLW	
** 85 E(I) 2636-2638	9-22-85	11:12	1:50,000	1.3 feet above MLW	
** 85 E(I) 2555-2557	9-18-85	11:56	1:50,000	0.8 feet below MHW	
** 85 E(I) 2672-2673	9-26-85	08:47	1:50,000	0.6 feet below MHW	
Mean Tide Range = 18.4 ft.					

REMARKS *Compilation/bridging photographs based on predicted tide data.

**Tide coordinated MHW and MLW photographs based on actual tide data.

All photographs are referenced to the tide gage at Eastport, Maine.

2. SOURCE OF MEAN HIGH-WATER LINE:

The Mean High Water Line was compiled from office interpretation of the compilation/bridging color photographs using stereo instrument methods. The tide coordinated black-and-white MHW infrared photographs were used to assist in the interpretation of the Mean High Water Line.

3. SOURCE OF MEAN LOW-WATER LINE:

The Mean Low Water Line was compiled graphically from the black-and-white tide coordinated MLW infrared photographs.

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
None	TP-01306	No Survey	TP-01304

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-01305

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION PREMARKING ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Shea	Nov 1985
2. HORIZONTAL CONTROL	RECOVERED BY J. Shea ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY J. Shea	Nov 1985
3. VERTICAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
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		2. VERTICAL CONTROL IDENTIFIED	
paneled		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
85E(C)3214	ACKLEY, 1882 (RM2) (Paneled direct)		
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: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
1 NOAA form 76-53 (CSI Card)		Project Data	
		1 NOAA Form 77-53 (Tide Record Bk.)	
		2 NOAA Forms 76-77 (Level Bk.)	
		Hor. Control Data (Bound Folder), Field Report	

NOAA FORM 76-36C
(3-72)

* U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
TP-01305 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	Jul. 1986	Class III Manuscript	None	None
Final Review	Jul. 1986	Final Class III Map	11-3-86	11-3-86

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		11-3-86	Charted landmarks and aids to navigation form

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

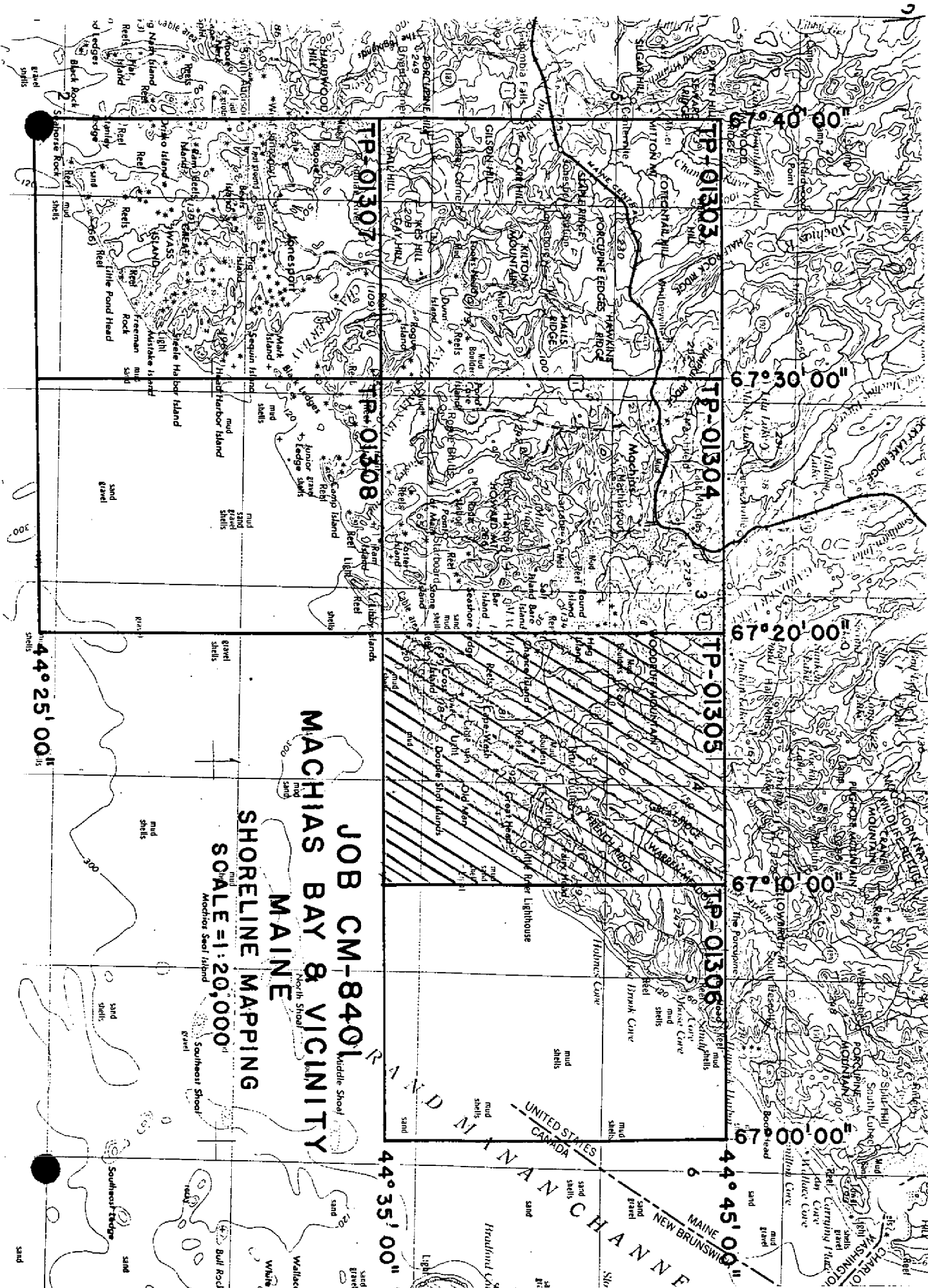
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS. 76-40 ~~5017~~ 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	



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01305

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 a portion of shoreline along Grand Manan Channel from Fairy Head to Cross Island and includes a segment of Holmes Bay.

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 June 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 July 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-01305

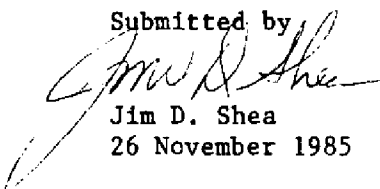
There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for aerotriangulation. Field activity also included the premarking of supplemental horizontal control in support of hydrography and 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. Norman
Chief, Aerotriangulation Unit

FIT TO CONTROL

<u>STATION NAMES</u>	<u>POINT NO.</u>	<u>VALUES IN FEET</u>	
		<u>X</u>	<u>Y</u>
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

RATIO VALUECM-84011:50,000 Bridging Photographs

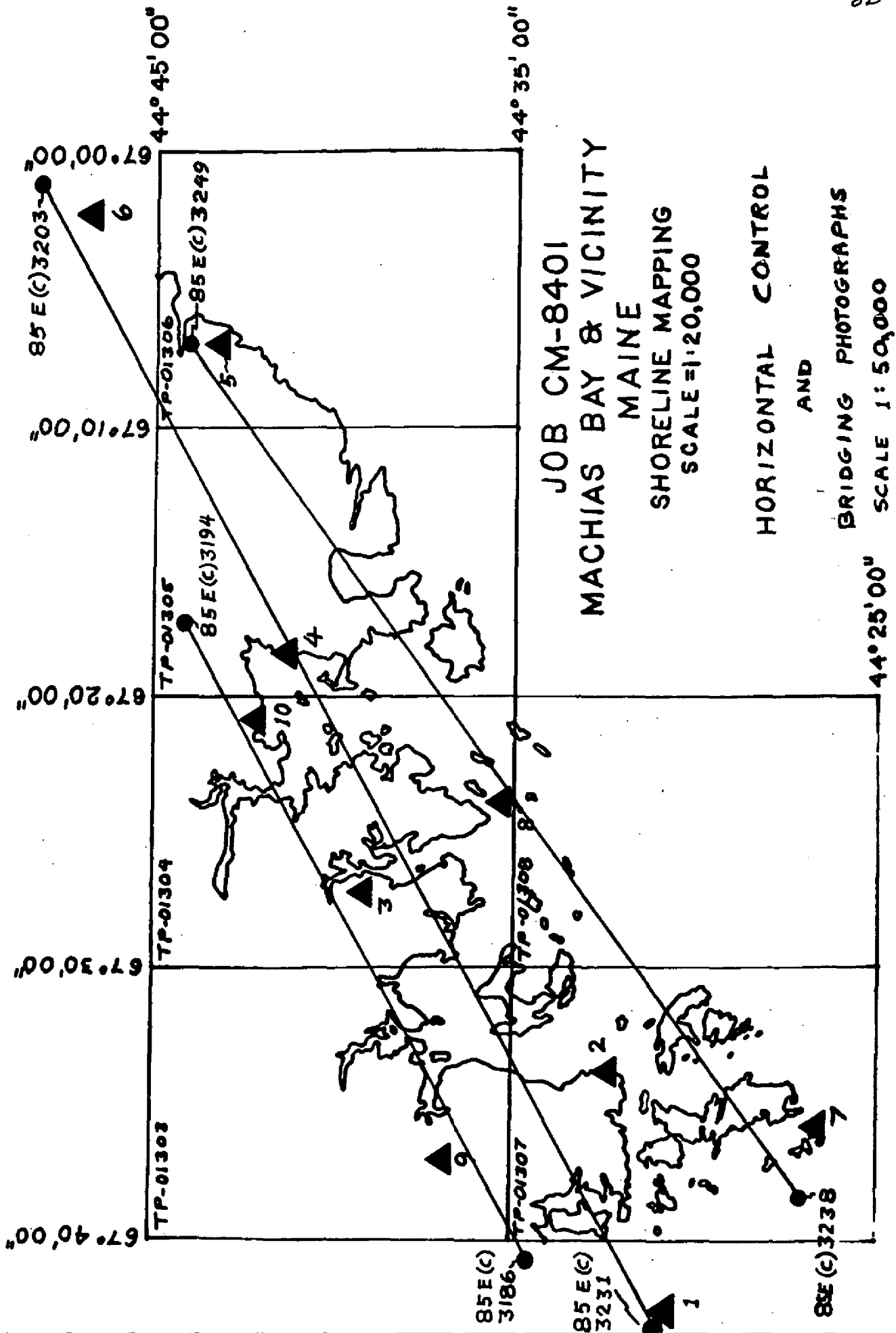
	<u>Ratio Value</u>
85 E(C) 3186-3194	2.50
85 E(C) 3202-3231 (odd only)	2.50
85 E(C) 3238-3249	2.50

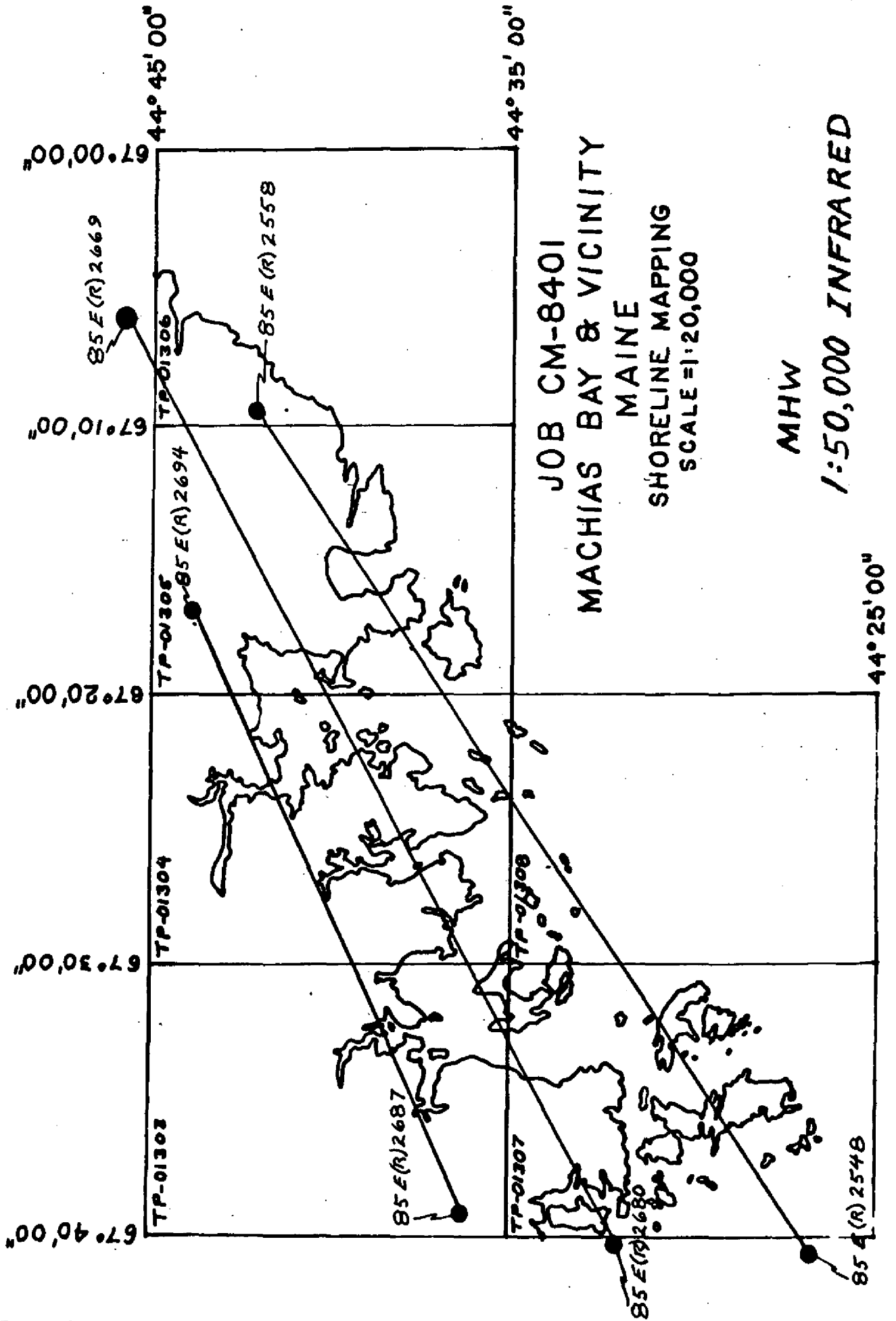
MLW 1:50,000 Black and White Infrared

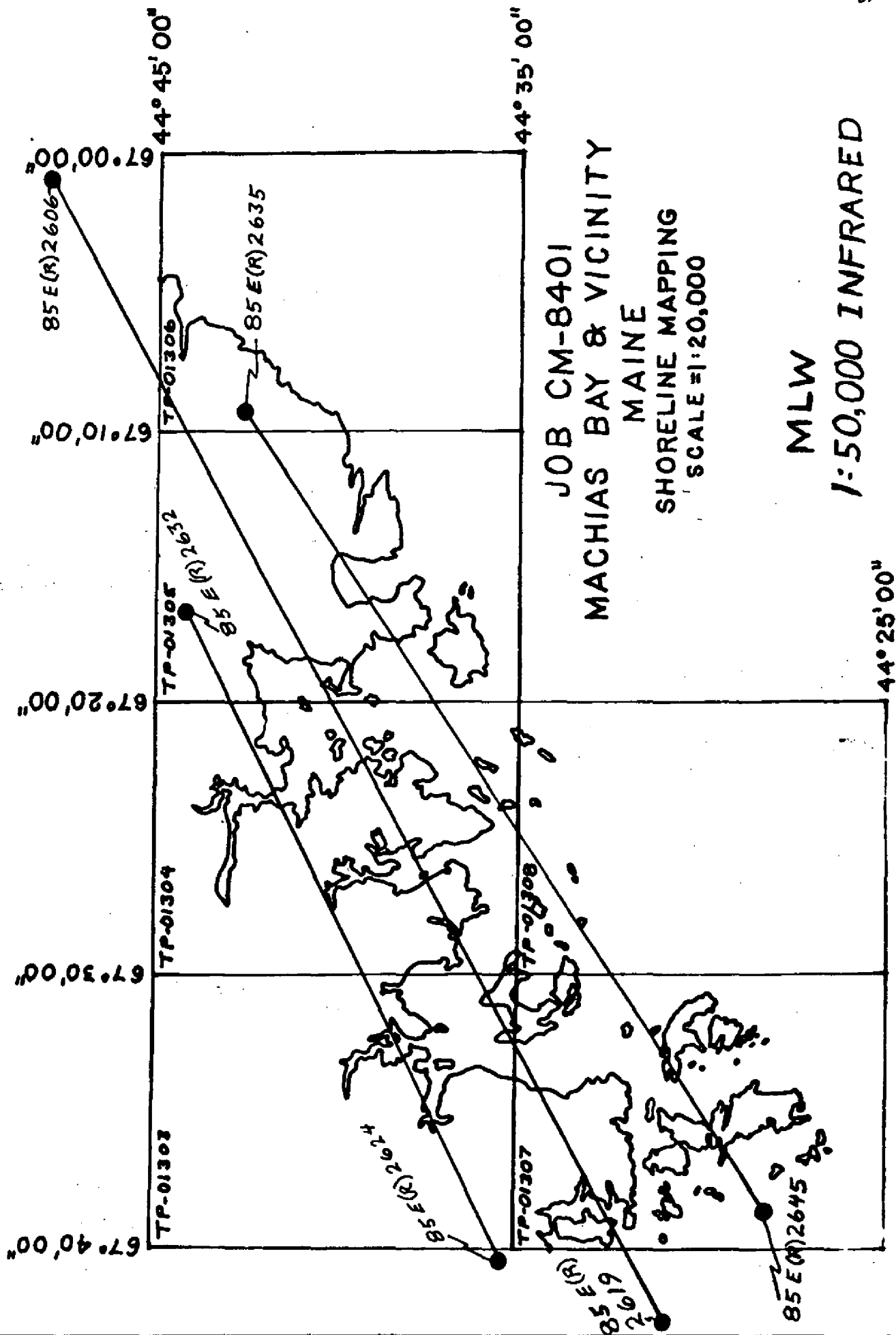
85 E(R) 2606-2619	2.51
85 E(R) 2624-2632	2.51
85 E(R) 2635-2645	2.51

MHW 1:50,000 Black and White Infrared

85 E(R) 2548-2558	2.53
85 E(R) 2669-2680	2.52
85 E(R) 2687-2694	2.51







DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY	REMARKS
TP-01305	CM-8401	N.A. 1927	Unit, AMC, Norfolk, VA	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE East	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE
ACKLEY, 1882	Quad. 440671 Sta. 1003	209100	X=	φ 44 41 22.673
			Y=	λ 67 18 33.647
CUTLER USN RAD STA WATER TANK, 1960	Quad. 440671 Sta. 1210	61	X=	φ 44 41 56.6756
			Y=	λ 67 17 48.6747
THORNTON POINT LEDGE BEACON, 1913	Quad. 440671 Sta. 1178	51	X=	φ 44 37 19.932
			Y=	λ 67 16 35.151
CUTLER, USN RAD STA TOWER S-5, 1960	Quad. 440671 Sta. 1208	52	X=	φ 44 37 48.01685
			Y=	λ 67 16 23.38772
CUTLER, USN RAD STA TOWER S-0, 1960	Quad. 440671 Sta. 1207	54	X=	φ 44 38 14.17132
			Y=	λ 67 16 44.85855
CUTLER, USN RAD STA TOWER N-O, 1960	Quad. 440671 Sta. 1205	56	X=	φ 44 39 08.40578
			Y=	λ 67 17 08.44167
CUTLER, USN RAD STA TOWER N-11, 1960	Quad. 440671 Sta. 1206	57	X=	φ 44 39 33.53823
			Y=	λ 67 17 32.18869
CROSS IS COAST GUARD TWR, 1960	Quad. 440671 Sta. 1204		X=	φ 44 36 41.24747
			Y=	λ 67 16 33.61293
			X=	φ
			Y=	λ
			X=	φ
			Y=	λ
COMPUTED BY		DATE	COMPUTATION CHECKED BY	DATE
LISTED BY		DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY	DATE

COMPILATION REPORT

TP-01305

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 28 charted landmarks and 2 charted aids within the mapping limits of this manuscript. Among these, 28 landmarks and 1 aid were either located or verified photogrammetrically.

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:

Cross Island, ME; dated 1949; photoinspected 1975; scale 1:24,000

Machias Bay, ME; dated 1949; photorevised 1977; scale 1:24,000

Cutler, ME; dated 1949; 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

13327; 14th edition; scale 1:40,000 dated April 7, 1984.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

Robert R. Kravitz

Robert R. Kravitz
Cartographic Technician
3 June 1986

Approved

James L. Byrd, Jr.

James L. Byrd, Jr.
Chief, Coastal Mapping Unit

¹²
JUN 20 1986

6/20/86

GEOGRAPHIC NAMES

FINAL NAME SHEET

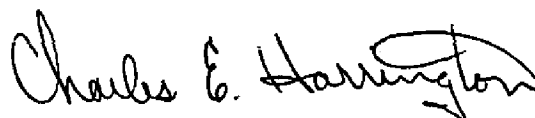
CM-8401 (Machias Bay, Maine)

TP-01305

Almore Cove
Big Holly Cove
Black Ledges
Cape Wash
Cape Wash Island
Chance Island
Cross Island
Cross Island Head
Cross Island Narrows
Cutler
Cutler Peninsula
Davis Beach
Deep Cove
Deer Island
Dennison Point
Dogfish Rocks
Double Head Shot Islands
Eastern Knubble
Eastern Marsh Brook
Fairy Head
Grand Manan Channel
Grassy Point
Great Head
Great Pond
Great Pond Cove
Gulf of Maine
Hog Island
Holly Point
Holmes Bay
Holmes Stream
House Cove
Huntley Creek
Little Holly Cove
Little Machias
Cutler Harbor *gsh*

Little Machias Bay
Little River
Little River Island
Little River Ledge
Long Ledge
Machias Bay
Marsh Point
Mink Island
Money Cove
North Cutler
Northeast Harbor
Northwest Harbor
Northwest Head
Old Man
Otter Point
Point Ruth
Quaker Head
Red Point
Scotch Island
Seal Cove
Seal Cove Ledge (1)
Seal Cove Ledge (2)
Sprague Neck
Sprague Neck Bar
Spruce Point
Spruce Point Cove
Thornton Point
Thornton Point Ledge
Township Rock
Upper Ledge
Western Head
Western Marsh Brook
Widows Ledge

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

REVIEW REPORT
TP-01305

SHORELINE

61 - GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in July 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:
Cross Island, ME; dated 1949; photoinspected 1975; scale 1:24,000
Machias Bay, ME; dated 1949; photorevised 1977; scale 1:24,000
Cutler, ME; dated 1949, 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
13327, 14th edition, scale 1:40,000, dated April 7, 1984.

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
Jerry L. Hancock
Final Reviewer

Approved for forwarding

Billy H. Barnes
Billy H. Barnes,
Chief, Photogrammetric Section

Approved

J. Mearney
Chief, Photogrammetric Production Sec.

Ronald K. Brewer
Chief, Photogrammetry Branch

CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

PROJECT NUMBER: CM-8401

PROJECT NAME: MACHIAS BAY AND VICINITY, MAINE

MAP NUMBER: TP-01305

The following charted landmarks and nonfloating aids to navigation have been measured and/or confirmed during photogrammetric operations. All geographic positions are based on the N.A. 1927 Datum. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for clarification of NCD Quality (Q.C.) and Cartographic (CARTO) Codes.

FEATURE DESCRIPTION	CARTO CODE	GEOGRAPHIC POSITION		NCD Q.C.	DATE OF LOCATION (PHOTO DATE)
		LATITUDE	LONGITUDE		
LOOK TR	86	44 36 41.247	67 16 33.613	3	10/8/85
RTR	86	44 37 47.81	67 17 05.94	4	10/8/85
RTR	139	44 37 48.017	67 16 23.388	3	10/8/85
RTR	86	44 37 56.15	67 16 44.71	4	10/8/85
RTR	86	44 38 05.04	67 17 06.68	4	10/8/85
RTR	86	44 38 05.24	67 16 23.01	4	10/8/85
RTR	86	44 38 14.32	67 16 02.43	4	10/8/85
RTR (1025 ft.)	139	44 38 14.171	67 16 44.859	3	10/8/85
RTR	86	44 38 13.94	67 17 27.46	4	10/8/85
RTR	86	44 38 23.07	67 17 06.77	4	10/8/85
RTR	86	44 38 23.32	67 16 23.01	4	10/8/85
RTR	86	44 38 32.16	67 16 45.05	4	10/8/85
RTR	86	44 38 40.52	67 16 23.79	4	10/8/85
RTR	86	44 38 43.25	67 16 44.70	4	10/8/85
RTR	86	44 38 40.31	67 17 06.40	4	10/8/85
RTR	86	44 38 41.15	67 17 27.06	4	10/8/85
RTR	86	44 38 58.33	67 17 29.39	4	10/8/85
RTR	86	44 39 00.46	67 16 45.82	4	10/8/85
RTR	86	44 39 06.18	67 17 50.86	4	10/8/85
RTR (1025 ft.)	139	44 39 08.406	67 17 08.442	3	10/8/85
RTR	86	44 39 10.50	67 16 26.02	4	10/8/85
RTR	86	44 39 18.44	67 16 47.53	4	10/8/85
RTR	86	44 39 16.25	67 17 31.28	4	10/8/85
RTR	86	44 39 26.34	67 17 10.22	4	10/8/85
RTR	139	44 39 33.538	67 17 32.189	3	10/8/85
RTR	86	44 39 35.61	67 16 49.69	4	10/8/85
RTR	86	44 38 50.44	67 17 06.68	4	10/8/85
Thornton Point Ledge					
Daybeacon 2	224	44 37 19.932	67 16 35.151	3	10/8/85
Water Tank	993	44 41 56.676	67 17 48.675	3	10/8/85
Lighthouse Tower*	993	44 39 02.8	67 11 34.3	7	10/8/85

*Location disagrees with NGS published position, Little River Lighthouse Tower, 1883 (Lat. 44 39 03.06, Long. 67 11 33.94). New position determined during compilation and verified by 3rd order field survey methods based on supplemental aerotriangulation control; Aug. 29, 1986 field position: Lat. 44 39 02.768, Long. 67 11 34.320.

Listing approved by: James L. Hancock Aug 1986
FINAL REVIEWER DATE

