T P-01304

T P-01304

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-01304	1

Job No.
CM-8401

Map Classification
CLASS III (FINAL)

Type of Survey
SHORELINE

LOCALITY

State
MAINE

General Locality
MACHIAS BAY AND VICINITY

Locality
MACHIAS

19 85 TO 19

REGISTERED IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE: 1980-665-115

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP. 01304

MAP EDITION NO. (1)

MAP CLASS III (Final)

JOB PH. CM-8401

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Unit, Atlantic Marine Center
Norfolk, Virginia

OFFICER-IN-CHARGE
A. Y. Bryson, CDR

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH. _____

MAP CLASS _____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation	January 14, 1986	Control	May 14, 1985
Compilation	June 6, 1986	Change No. 1	August 14, 1985
		Change No. 2	May 7, 1986

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER [X] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Transverse Mercator Projection

4. GRID(S): STATE: Maine; ZONE: East

5. SCALE: 1:20,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	V. McNeel	Mar 1986
METHOD: Analytic	LANDMARKS AND AIDS BY	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 COMPILATION	PLANIMETRY BY	R. Kravitz	Jun 1986
	CHECKED BY	F. Mauldin	Jun 1986
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:20,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. Kravitz	Jul 1986
	CHECKED BY	F. Mauldin	Aug 1986
METHOD: Smooth drafted	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	R. Kravitz	Jul 1986
	CHECKED BY	F. Mauldin	Aug 1986
5. OFFICE INSPECTION PRIOR TO ~~FIELD EDIT~~ Final Review	BY	F. Mauldin	Aug 1986
6. APPLICATION OF FIELD EDIT DATA	BY	N.A.	
	CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW Class III	BY	F. Mauldin	Aug 1986
8. FINAL REVIEW Class III	BY	J. Hancock	Aug 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Hancock	Sept1986
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	Jan 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E L DAUGHERTY	MAR 87

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

TP-01304

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild R.C.-8(E) E=152.71 mm

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES *
- [ ] REFERENCE STATION RECORDS
- [X] TIDE CONTROLLED PHOTOGRAPHY **

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Eastern — [X] STANDARD
MERIDIAN: 75th — [ ] DAYLIGHT

	NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
*	85E(C)3215-3221 (odd)	10-8-85	10:25	1:50,000	4.7 feet above MLW
*	85E(C)3190-3193	10-8-85	10:06	1:50,000	5.0 feet above MLW
**	85E(I)2612-2614	9-22-85	10:47	1:50,000	1.4 feet above MLW
**	85E(I)2628-2630	9-22-85	11:00	1:50,000	1.3 feet above MLW
**	85E(I)2638-2639	9-22-85	11:12	1:50,000	1.3 feet above MLW
**	85E(I)2673-2676	9-26-85	08:47	1:50,000	0.6 feet below MHW
**	85E(I)2691-2693	9-26-85	09:06	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 MLW&MHW photos. 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 infrared photographs were used to assist in the interpretation of the Mean High Water Line.

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

The Mean Low Water Line was compiled graphically from the black-and-white tide coordinated MLW infrared ratio 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
No Survey	TP-01305	TP-01308	TP-01303

REMARKS

NOAA FORM 76-36B
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36C
(3-72)

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

TP-01304

HISTORY OF FIELD OPERATIONS

I. [XX] 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. Dunford	Nov 1985
	ESTABLISHED BY	J. Dunford	Nov 1985
	PRE-MARKED OR IDENTIFIED BY	J. Dunford	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		
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [XX] NO INVESTIGATION	BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Paneled

PHOTO NUMBER	STATION NAME
	MARSTIN, 1883 (paneled direct) FOSTER ISLAND, 1882 (paneled direct) LITTLE, 1985 (paneled direct)

2. VERTICAL CONTROL IDENTIFIED

None

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 [XX] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [XX] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

3 NOAA Forms 76-53 (CSI Card)

PROJECT DATA
1 NOAA Form 77-53 (Tide Record Book)
2 NOAA Forms 76-77 (Level Books)
Hor. Control Data (Bound Folder) Field Report

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

NOAA FORM 76-36D
(3-72)

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

TP-01304

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	Aug 1986	Class III Manuscript		
Final Review	Aug 1986	Final Class III Map	11-3-86	11-3-86

II. LANDMARKS AND AIDS TO NAVIGATION Listing

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER (pages)	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

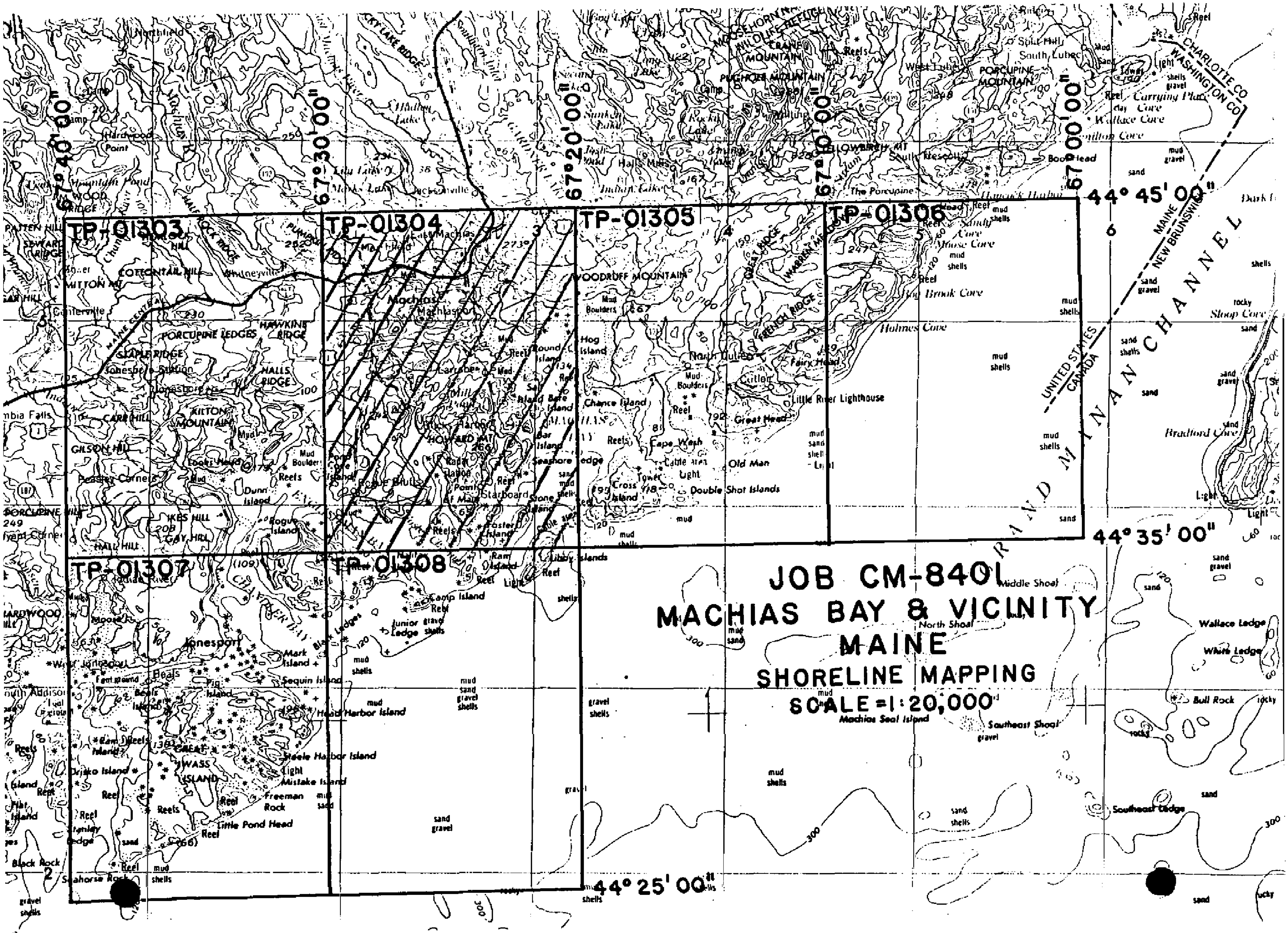
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; 76-40 ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS ~~582~~ SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

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

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

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

☆ U.S. GPO: 1977-765-092/1106 Region 6



JOB CM-8401
MACHIAS BAY & VICINITY
MAINE
SHORELINE MAPPING
SCALE=1:20,000
TP-01303
TP-01304
TP-01305
TP-01306
TP-01307
TP-01308
67° 40' 00"
67° 30' 00"
67° 20' 00"
67° 10' 00"
67° 00' 00"
44° 45' 00"
44° 35' 00"
44° 25' 00"
GRAND MANAN CHANNEL
UNITED STATES
CANADA
MAINE
NEW BRUNSWICK
CHARLOTTE CO
WASHINGTON CO
Machias
Machiasport
Jonesport
Cutler
Little River Lighthouse
Machias Seal Island
Middle Shoal
North Shoal
Southeast Shoal
Wallace Ledge
White Ledge
Bull Rock
Southeast Ledge
Double Shot Islands
Libby Islands
Head Harbor Island
Steele Harbor Island
Mistake Island
Great Wass Island
Woodruff Mountain
Porcupine Ledges
Hawkins Ridge
Halls Ridge
Kilton Mountain
Holmes Cove
Old Man
Cross Island
Chance Island
Hog Island
Cape Wash

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01304

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 major portion of Machias Bay and includes numerous waterways leading into the smaller harbor areas.

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 August 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-01304

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

Vic McNeel

Approved and Forwarded:

Don O. Norman

Don O. Norman
Chief, Aerotriangulation Unit

3

FIT TO CONTROL

STATION NAMES	POINT NO.	VALUES IN FEET X	Y
1. Tibb 1985	217100	-1.3	+3.4
2. Kel 1913, sub. station	214101	+0.6	-1.1
3. Mørstin 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 VALUE

CM-8401

1:50,000 Bridging Photographs

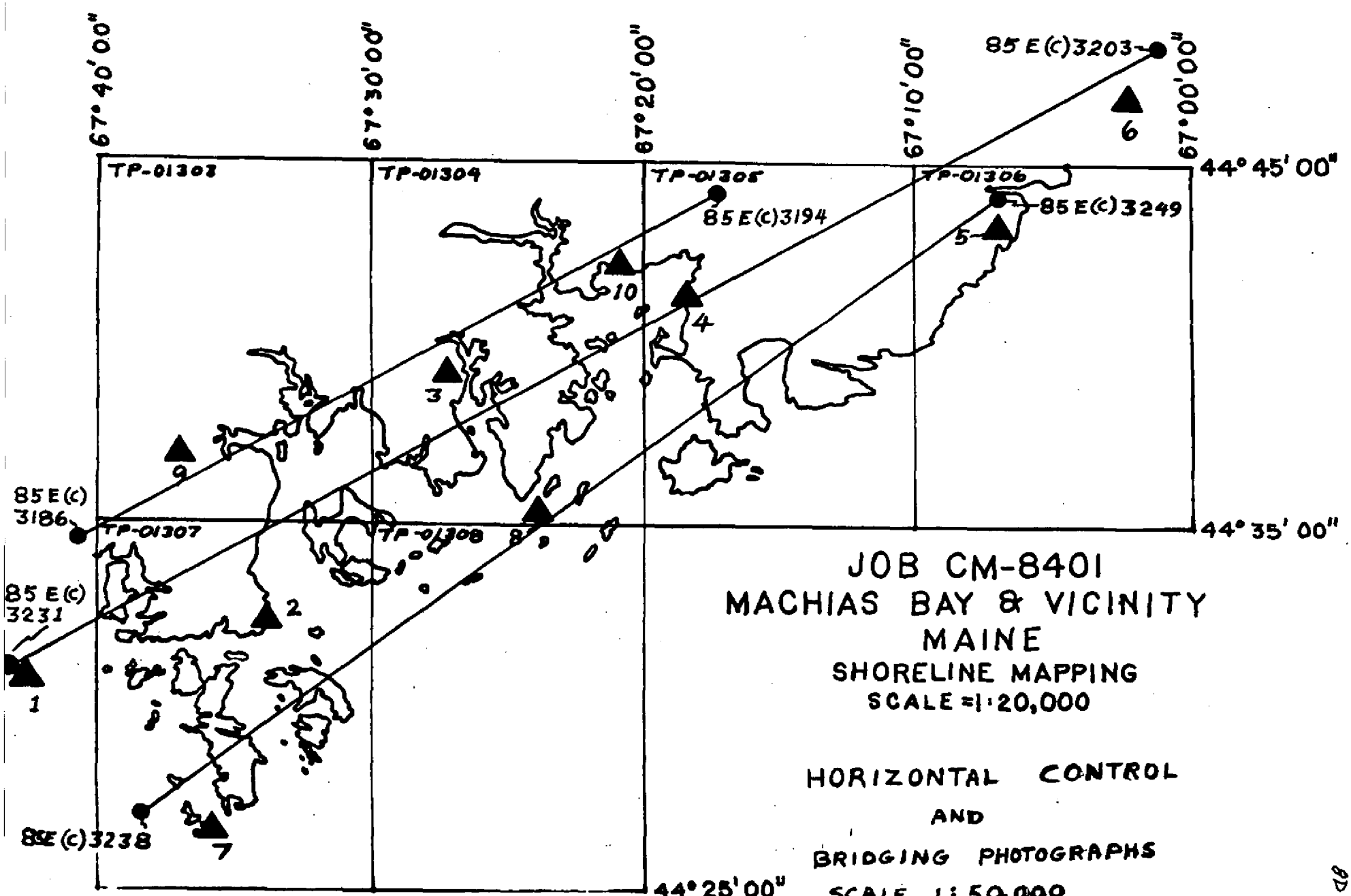
	Ratio Value
85 E(C) 3186-3194	2.50
85 E(C) 3202-3231 (odd only)	2.50
85 E(C) 3238-3249	2.50

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

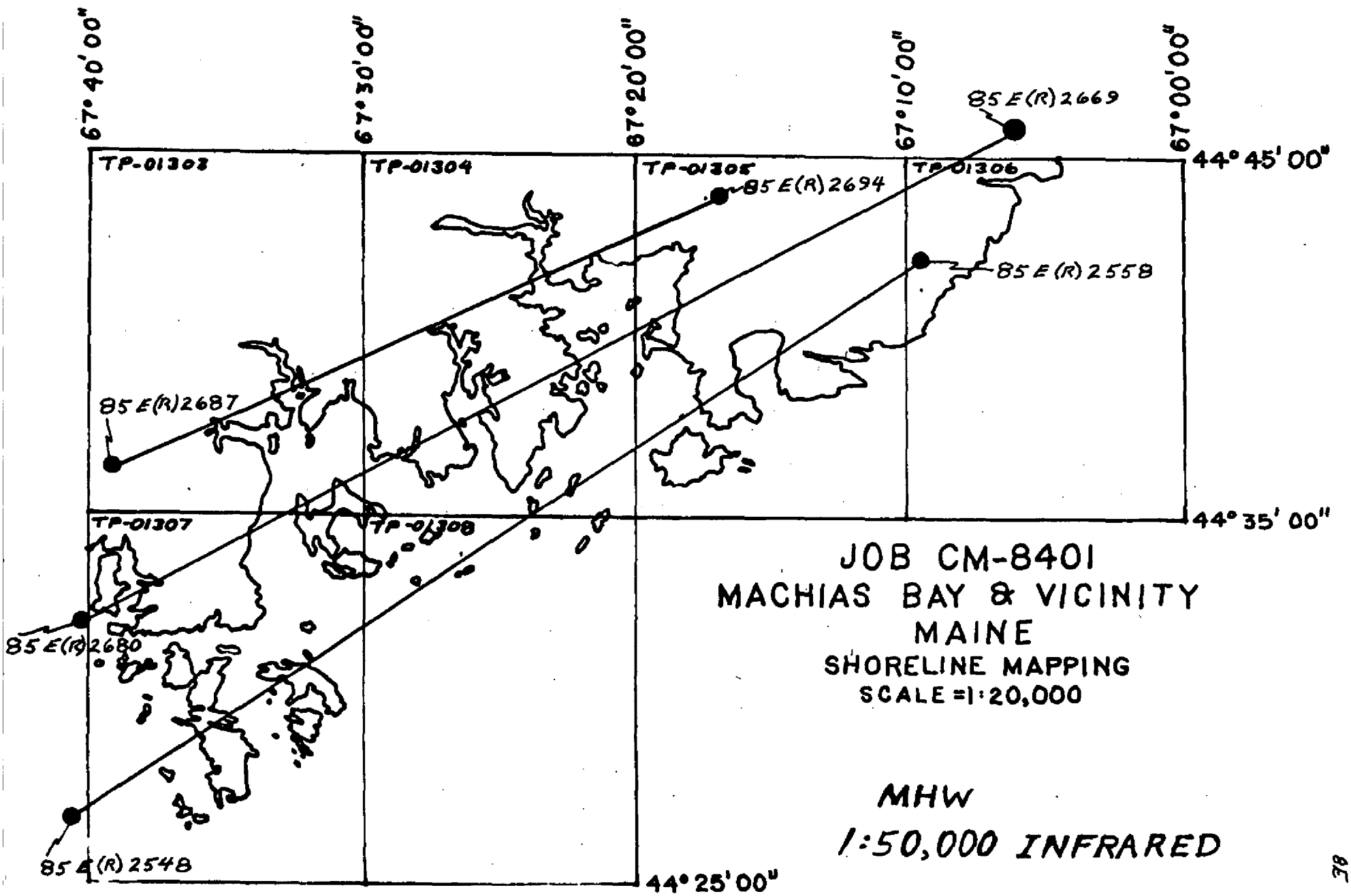
MHW 1:50,000 Black and White Infrared

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



JOB CM-8401
MACHIAS BAY & VICINITY
MAINE
SHORELINE MAPPING
SCALE = 1:20,000

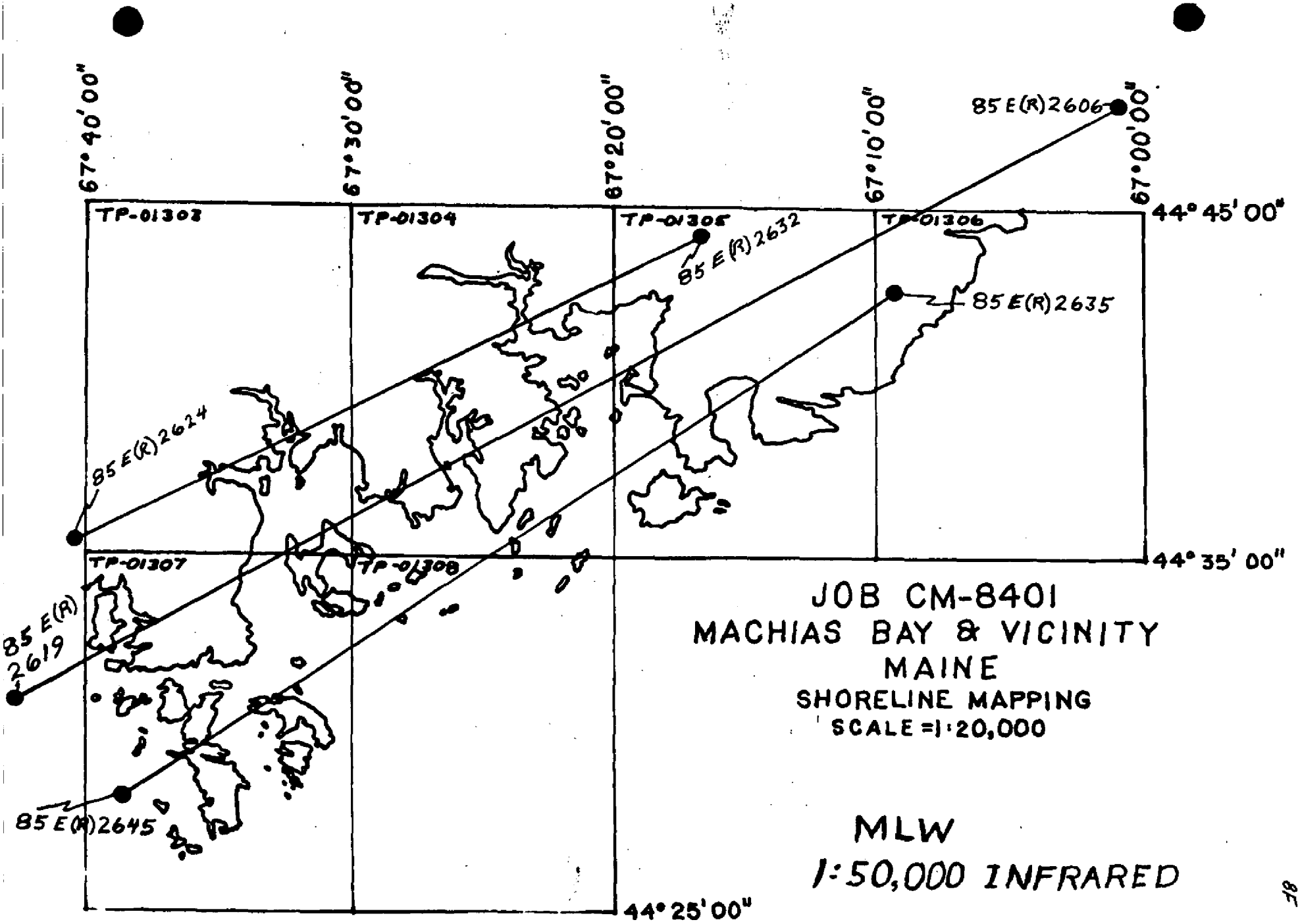
HORIZONTAL CONTROL
AND
BRIDGING PHOTOGRAPHS
SCALE 1:50,000



JOB CM-8401
MACHIAS BAY & VICINITY
MAINE
SHORELINE MAPPING
SCALE = 1:20,000

MHW

1:50,000 INFRARED



JOB CM-8401
MACHIAS BAY & VICINITY
MAINE
SHORELINE MAPPING
SCALE = 1:20,000

MLW
1:50,000 INFRARED

18

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-01304	CM-8401	N.A. 1927	Coastal Mapping Unit, AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Maine ZONE Eastern	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
MARSTIN, 1883	Quad.440671 Sta. 1103	211100	x= 772,620.85 y= 300,051.56	φ 44 39 06.038 λ 67 27 08.552	
FOSTER ISLAND, 1882	Quad.440671 Sta. 1047	243100	x= 787,882.94 y= 277,018.72	φ 44 35 16.63 λ 67 23 41.77	
LITTLE, 1985	Computation Proj.Report CM-8401	193100	x= 799,205.0631 y= 318,109.7993	φ 44 42 00.7951 λ 67 20 57.3280	
1959 AVERY ROCK LIGHT	Quad.440671 Sta. 1006	69	x= y=	φ 44 39 14.775 λ 67 20 40.807	
STONE ISLAND LEDGE BEACON, 1913	Quad.440671 Sta. 1174	76	x= y=	φ 44 35 49.44 λ 67 22 00.92	
LARRABEE COVE CHURCH SPIRE, 1863	Quad.440671 Sta. 1081	81	x= y=	φ 44 40 14.415 λ 67 23 38.562	
MACHIASPORT OLD CHURCH, 1862	Quad.440671 Sta. 1099	83	x= y=	φ 44 42 03.89 λ 67 23 08.20	
MACHIASPORT TOWN HALL, 1882	Quad.440671 Sta. 1100	84	x= y=	φ 44 41 51.08 λ 67 23 40.58	
MARSHFIELD CHURCH, 1885	Quad.440671 Sta. 1102	88	x= y=	φ 44 44 01.59 λ 67 28 34.88	
BURNHAM CAPT HOUSE CHIMNEY, 1862	Quad.440671 Sta. 1018	89	x= y=	φ 44 43 16.11 λ 67 26 43.52	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY R. Kravitz	DATE 6/4/86	LISTING CHECKED BY F. Mauldin	DATE 7/22/86
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

9

COMPILATION REPORT

TP-01304

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 Middle River at Machias in the northwest corner of this manuscript was delineated to the limit of available photo coverage. All other 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 were 4 charted landmarks and 1 charted aid within the mapping limits of this manuscript. Among these, 4 landmarks and no aids were either located or verified photogrammetrically. Two potential landmarks were located in Machias.

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 Quadrangle:
Cross Island, ME; dated 1949; photoinspected 1975; scale 1:24,000
Machias Bay, ME; dated 1949; photorevised 1977; scale 1:24,000
Machias, ME; dated 1949; photorevised 1977; scale 1:24,000
Roque Bluffs, ME; dated 1948; photoinspected 1975; 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
Robert R. Kravitz
Robert R. Kravitz
Cartographic Technician
9 July 1986

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

SEP - 5
9/5/86

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8401 (Machias Bay, Maine)

TP-01304

Avery Rock
Bare Cove
Bare Island
Birch Point
Black Head
Bucks Harbor
Bucks Harbor (locality)
Bucks Head
Bucks Neck
Calf Island
Calf Point
Chance Island
Clamshell Cove
Codhead Ledge
Collins Branch
Cottage Cove
Cow Point
Crocker Point
Days Head
Despair Island
Dog Town
Duck Cove
East Branch
East Machias
East Machias River
Englishman Bay
Englishman River
Fan Island
Fort O'Brien Point
Foss Point
Foster Island
Grays Beach
Grays Rock
Great Cove
Gull Rock
Hickey Island
Hog Island (1)
Hog Island (2)
Holmes Point (1)
Holmes Point (2)
Holway Point
Bar Island GNIS
L Point GNIS

Hooper Point
Hope Island
Howard Cove
Howard Point
~~Hoytown~~ ----Hoyttown GNIS
Indian Cove
Indian Head
Jasper Head
Johnson Cove
Johnson Point
Kennebec
Larrabee----~~Larrabee~~ Cove GNIS
Libby Brook
Libby Cove
Libby Head
Libby Islands
Little Bay
Little Kennebec Bay
Long Point
Machias
Machias Bay
Machiasport Station
Machias River
Machias Valley Airport
Mack Cove
Maine Central (RR)
Marsh Island
Marshall Point
Marston Point
Meadow Brook
Meserve Head
Middle River
Mill Creek
Mill Pond
Moose Snare Cove
Mountain Head
Newcomb Point
Petegrow Cove
Pierson Ledge
Point of Main
Pond Cove
Larrabee GNIS
Machiasport GNIS

9/5/86

Pond Cove ~~Islands~~ --Island *GNIS*
Porcupine Island
Pot Head
Randall Point
Randall Point Flats
~~Rogue-Bluffs~~ (locality)--Roque Bluffs *GNIS*
~~Rogue-Island~~ ----------Roque Island *GNIS*
Round Island
Salt Island
Sanborn Cove
Sanborn Marsh
Sea Wall Point
Shag Ledge
Shipyard Cove
Shoppee Island
Shoppee Point
Simpson Island
Smith Point
Spruce Cove
Starboard
Starboard Cove
Starboard Creek
Starboard Island
Starboard Island Bar
~~Stevens~~----------Stevens Cove *GNIS*
Stone Island
Stone Island Ledge
The Rim
Whaleback Cove
West Branch
Woodruff Cove
Yellow head
Yoho Creek
Yoho Head

Approved,

Charles E. Harrington

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

REVIEW REPORT
TP-01304

SHORELINE

61 - GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in August 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 quadrangle:
Cross Island, ME; dated 1949; photoinspected 1975; scale 1:24,000
Roque Bluffs, ME; dated 1948; photoinspected 1975; scale 1:24,000
Machias Bay, ME; dated 1949; photorevised 1977; scale 1:24,000
Machias, ME; dated 1949; 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
Jerry L. Hancock
Final Reviewer

Approved for forwarding
Billy H. Barnes
Billy H. Barnes,
Chief, Photogrammetric Section

Approved
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-01304

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 LATITUDE	LONGITUDE	NCD Q.C.	DATE OF LOCATION (PHOTO DATE)
DOME (NORTHLY OF TWO)	86	44 37 43.42	67 23 41.23	4	10/8/85
SPIRE	86	44 41 42.6	67 23 47.7	7	10/8/85
CUP	139	44 41 51.080	67 23 40.580	3	10/8/85
BELFRY	139	44 42 03.890	67 23 08.200	3	10/8/85
SPIRE	993	44 42 56.9	67 27 30.5	7	10/8/85
TANK	993	44 42 54.9	67 26 59.2	7	10/8/85

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

FORM C&GS-8352
(3-29-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. CM-8401, (TP-01304)

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 Revie

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.