TP-01207

TP-01207

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-01207	1

Job No.
CM-8300

Map Classification
CLASS III (FINAL)

Type of Survey
SHORELINE

LOCALITY

State
MAINE, U.S.A. - NEW BRUNSWICK, CANADA

General Locality
PASSAMAQUODDY BAY

Locality
ST. ANDREWS

19$_{83}$ 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- 01207

MAP EDITION NO. (1)

MAP CLASS III (Final)

JOB ~~PH~~-CM-8300-

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

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	June 5, 1984	Control	August 12, 1983
Compilation	March 1, 1985		

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: 1:10,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	B. Thornton	Aug. 1984
METHOD: Analytic	LANDMARKS AND AIDS BY	B. Thornton	Aug. 1984
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	B. Thornton	Oct. 1984
METHOD: Calcomp 718	CHECKED BY	D. Norman	Oct. 1984
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	R. Kravitz	Jan. 1985
	CHECKED BY	W. McLemore, Jr.	Jan. 1985
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:10,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. Kravitz	Mar. 1985
	CHECKED BY	W. McLemore, Jr.	April 1985
METHOD: Smooth drafted	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	N.A.	
	CHECKED BY	N.A.	
5. OFFICE INSPECTION PRIOR TO ~~XXXXXXX~~ Final Review	BY	W. McLemore, Jr.	April 1985
6. APPLICATION OF FIELD EDIT DATA	BY	N.A.	
	CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW Class III	BY	W. McLemore, Jr.	April 1985
8. FINAL REVIEW Class III	BY	J. Hancock	May 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Hancock	May 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	Dec. 1985
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. DAUGHERTY	FEB 1986

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

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

NOAA FORM 76-36B
(3-72)

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

TP-01207

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC 10 (C) (c=88.46 mm)
Wild RC 10 (B) (b=152.74 mm)

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

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

TIDE STAGE REFERENCE
[XX] PREDICTED TIDES *
[ ] REFERENCE STATION RECORDS
[XX] TIDE ~~CONTROLLED~~ coordinated PHOTOGRAPHY **

	NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
*	83C(C)9098-9099	09-15-83	09:12	1:30,000	6.5 above MLW
*	83C(C)9113-9116	09-15-83	09:24	1:30,000	5.8 above MLW
*	83C(C)9265-9266	09-23-83	09:00	1:30,000	12.0 above MLW
**	83B(I)6842-6844	10-11-83	09:04	1:30,000	1.8 above MLW
**	83B(I)6848-6850	10-11-83	09:09	1:30,000	2.2 above MLW
**	83B(I)6754-6759	10-10-83	12:36	1:30,000	0.2 above MHW
**	83B(I)6761-6765	10-10-83	12:42	1:30,000	0.4 above MHW
#	83C(I)0505-0506	10-31-83	11:58	1:50,000	0.9 above MLW
					Mean Tide Range=18.2 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 infrared MHW contact photographs were used to assist in the interpretation of the MHW line.

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

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

#A small portion of the mean low water line in the NE corner of this map (around Hardwood Island) was compiled graphically from these two black-and-white tide coordinated MLW infrared photographs on adjoining 1:20,000 scale map TP-01202 and transferred to this map.

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
TP-01201 (1:20,000 scale)	TP-01202 (1:20,000 scale) TP-01204 scale)	TP-01203 (1:20,000 scale) TP-01204 scale)	TP-01201(1:20,000 scale) TP-01203 scale)

REMARKS
This map is a 1:10,000 inset that falls within 1:20,000 scale maps TP-01201 TP-01203 and TP-01204.

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-01207

HISTORY OF FIELD OPERATIONS

I. [XX] FIELD INSPECTION (Premarking) OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. Tibbetts	Aug. 1983
2. HORIZONTAL CONTROL	RECOVERED BY	N.A.	
	ESTABLISHED BY	N.A.	
	PRE-MARKED OR IDENTIFIED BY	N.A.	
3. VERTICAL CONTROL	RECOVERED BY	N.A.	
	ESTABLISHED BY	N.A.	
	PRE-MARKED OR IDENTIFIED BY	N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	N.A.	
	LOCATED *(Field Methods)* BY	N.A.	
	IDENTIFIED BY	N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [XX] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N.A.	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

N.A.

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 [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)*

PROJECT DATA
1 NOAA form 76-77 (Tide Station Leveling Record)
1 NOAA form 77-53 (Tide Book)
1 NOAA form 76-52

☆ 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-01207

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	April 1985	Class III Manuscript	None	None
Final review	May 1985	Final Class III MAP	7/17/85	7/17/85

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER (pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2		7/17/85	Landmarks and Aids to Navigation for Charting

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. ~~XXXX~~ SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

76-40

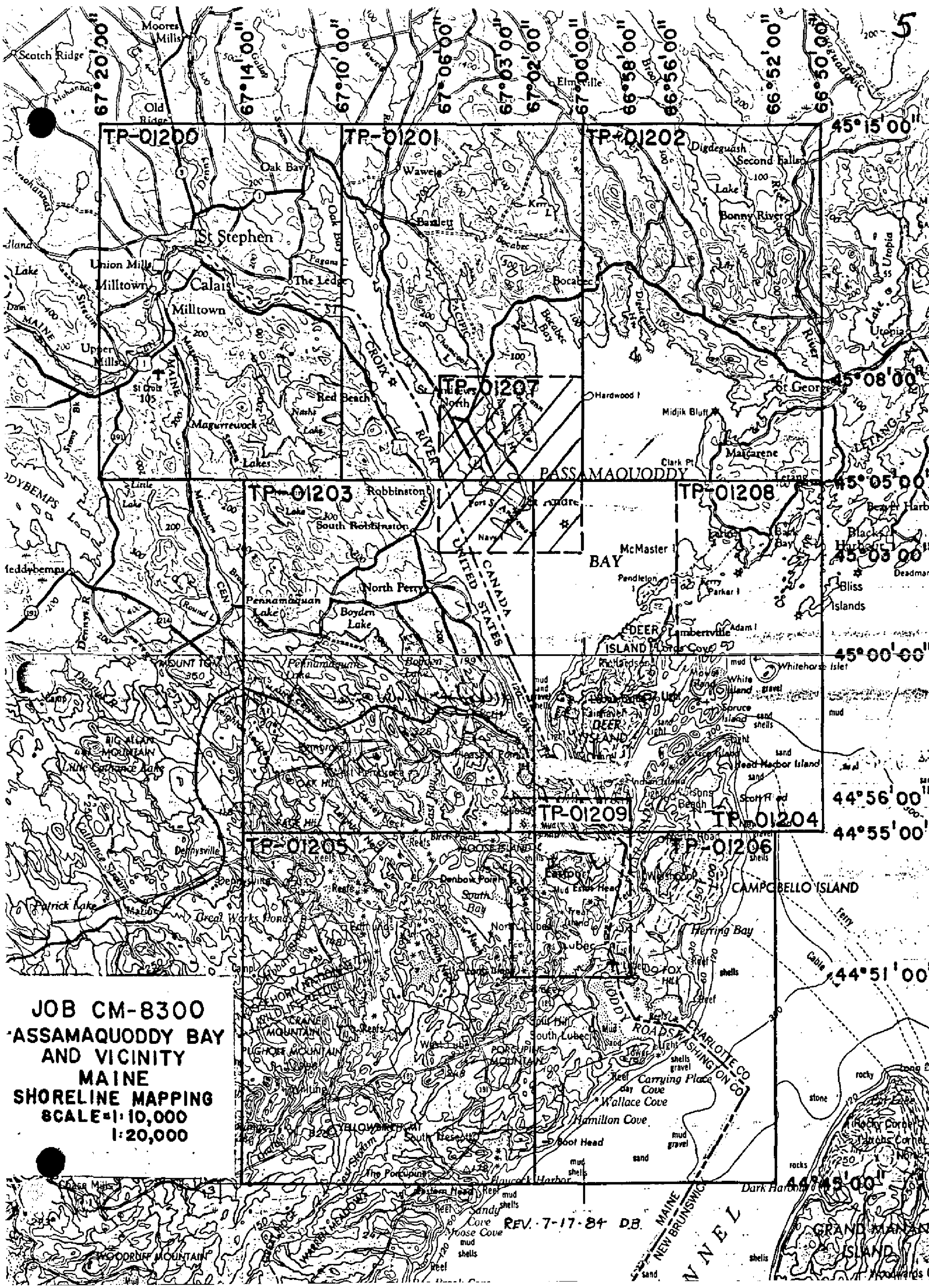
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

NOAA FORM 76-36D

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


JOB CM-8300
PASSAMAQUODDY BAY
AND VICINITY
MAINE
SHORELINE MAPPING
SCALE=1:10,000
1:20,000
REV. 7-17-84 D.B.
TP-01200
TP-01201
TP-01202
TP-01203
TP-01204
TP-01205
TP-01206
TP-01207
TP-01208
TP-01209
67°20'00"
67°14'00"
67°10'00"
67°06'00"
67°03'00"
67°02'00"
67°00'00"
66°58'00"
66°56'00"
66°52'00"
66°50'00"
45°15'00"
45°08'00"
45°05'00"
45°03'00"
45°00'00"
44°56'00"
44°55'00"
44°51'00"
44°45'00"
St Stephen
Calais
Milltown
Oak Bay
Red Beach
Robbinston
South Robbinston
North Perry
Boyden Lake
Pennamaquan Lake
PASSAMAQUODDY
BAY
DEER ISLAND
CAMPOBELLO ISLAND
Eastport
Lubec
West Lubec
South Lubec
St George
Dennysville
UNITED STATES
CANADA
MAINE
NEW BRUNSWICK
CHARLOTTE CO
WASHINGTON CO
GRAND MANAN ISLAND

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01207

This 1:10,000 scale final Class III shoreline inset map is one of 10 maps that comprise project CM-8300, Passamaquoddy Bay and Vicinity, Maine. The project consists of seven 1:20,000 scale maps (TP-01200 thru TP-01206) and three 1:10,000 scale inset maps (TP-01207 thru TP-01209). This project includes shoreline coverage of the American and Canadian territories; however, no attempt was made to compile the international boundary line.

The purpose of this map is to provide current charting information for nautical chart maintenance and to furnish support data for the Canadian hydrographic activity scheduled this (1985) spring.

This inset map portrays a portion of the Canadian shoreline in the western region of Passamaquoddy Bay featuring a segment of the St. Croix River and St. Andrews Harbour.

Field work prior to compilation consisted of the recovery, establishment and identification, by premarking methods, of horizontal control necessary for aerotriangulation. Also, the field party was responsible for assisting in obtaining the tide coordinated aerial photography. This activity was completed October 1983.

Photo coverage for the project was provided by 1:50,000 scale and 1:30,000 scale natural color and black-and-white tide coordinated photographs. The color photographs required for aerotriangulation and instrument compilation were taken with the Wild RC-10 (C) camera in September 1983. The MHW and MLW infrared photographs required for graphic compilation and interpretation assistance were taken September/ October 1983 with the Wild-RC (C) and (B) cameras. All photographs used to produce this inset map were taken at 1:30,000 scale. The photography was adequate.

After the photographs were forwarded to compilation, a general evaluation of the mapping area was performed in the field by select AMC compilation personnel June 1984. This activity was conducted in order to assist in the photo interpretation process during compilation.

Analytic aerotriangulation was adequately provided by the Washington Science Center August 1984. This operation included ruling the base manuscripts, determining ratio values for the photographs and locating visible landmarks and navigational aids.

Compilation, based upon office interpretation of the 1:30,000 scale color photographs, was performed at the Coastal Mapping Unit, Atlantic Marine Center in April 1985. 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 for this final Class III map was performed at the Atlantic Marine Center in May 1985. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch. A Notes to Hydrographer print and related support data were prepared to assist the Canadians in their hydrographic activity. While preparing the support data, a comparison was made with the common Canadian nautical charts in order to identify conflicts between the NOS charts and the map. Any significant conflicts were addressed on both the Chart Maintenance and Notes to Hydrographer prints.

The Descriptive Report for this final shoreline inset map contains all pertinent information used to produce this map. The original base manuscript and related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-01207

There was no complete field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for aerotriangulation, monitoring the Eastport tide gage to aid in obtaining tide coordinated infrared photography, and a cursory shoreline inspection.

PHOTOGRAMMETRIC PLOT REPORT

CM-8300

Passamaquoddy Bay, Maine

August 1984

21. Area Covered

This project covers the Passamaquoddy Bay area from Oak Bay and St. Croix River, down to the Grand Mann Channel. The area is covered by seven 1:20,000 scale sheets; TP-01200 to TP-01206, and three 1:10,000 scale sheets; TP-01207 to TP-01209.

22. Method

Six strips of 1:50,000 scale color photographs were bridged by analytical aerotriangulation methods and adjusted to ground as a block with the General Intergrated Analytical Triangulation Program (GIANT). Nine premarked horizontal control stations were used in the adjustment. One premarked station in conjunction with office identified intersection stations were used as check points. The block contained 63 photographs.

Compilation points were dropped to eight strips of 1:30,000 scale color photographs. This photography is for the compilation of the 1:10,000 scale sheets.

Ratio values were determined for the bridging and compilation photographs and also for the MLW and MHW infrared photographs. A copy of the values is attached to this report.

The base sheets were plotted on the Calcomp 718 plotter using the Maine state plane coordinate system, East zone. This system is based on the Transverse Mercator projection.

23. Adequacy of Control

The control was adequate. The project meets the National Standards of Map Accuracy.

One premarked station, Table Top, 1866, would not fit in the adjustment. A copy of the fit to control is attached to this report.

24. Supplemental Data

USGS quadrangles were used to provide veritical control for adjustments.

25. Photography

The coverage, overlap, and quality of the 1983C(C) photographs were adequate for the job.

The coverage of the 1983B(R) infrared photographs used for the MHW and MLW is insufficient for sheet TP-01209.

Submitted by:

Brian Thornton

Approved and Forwarded:

Don O. Norman
Chief, Aerotringulation Unit

FIT TO CONTROL

△ = Control Held in Adjustment

STATION NAMES	POINT NO.	VALUES IN FEET	
		X	Y
△ New Brunswick Disk #2185	88100	1.0	0
△ Box 2, 1946 - Sub Point	66101	3.0	0
△ New Brunswick Disk #2236 - Sub Point	71101	-1.0	2.0
△ New Brunswick Disk #2517 - Sub Point	74101	-1.0	0
△ New Brunswick Disk #2475	39100	0	0.5
Matthews, 1863	38100	-2.0	-2.0
△ Rob IBC, 1946 - Sub Point	976101	1.0	-0.5
△ Hersey, 1887	98100	0	-0.6
△ Mill CHS, 1977	971100	0	-1.0
△ Larrabee IBC, 1913	969100	0	-0.5
Table Top, 1866	978100	26.0	12.0
Lubec Narrows Mulholland Pt. Lt.	100100	1.0	0
Lubec Standpipe, 1910	100167	-2.6	4.3
Redoubt Hill Tank, 1946	972111	+3.0	1.0
Range Mark 7, 1919	972146	1.0	1.7
Range Mark 9, 1919	972144	1.0	2.0
Range Mark 10, 1919	972145	2.4	2.3
Range Mark 5, 1919	972148	1.3	2.0
Range Mark 6, 1919	972147	2.5	0
Perry, White Church Spire, 1913	973143	-2.5	3.0
Life Saving Station, Lookout Twr. 1919	102147	8.0	1.0
West Quoddy Head Light, 1860	102148	1.5	-4.6
Range Mark 41, 1919	44164	0	3.0
Range Mark 44, 1919	44153	2.0	4.4
Lubec Channel Lt. House, Finial 1893	44159	1.3	2.3
Lubec Church Spire, 1861	100156	1.0	2.5
Lubec Lower Church Spire, 1913	43147	1.8	1.8

Range Mark 39, Gunner 1919	44160	2.0	0
Range Mark 40, 1919	44150	-6.0	-2.0
Range Mark 45, 1919	44161	0	1.0
Range Mark 46, 1919	44149	3.0	-1.0
Lubec Narrows Lt.			
Mulholland Pt. Lt. 1910	44144	1.3	5.3
Range Mark 25, 1919	44143	1.0	1.1
Range Mark 33, 1919	44145	-1.0	2.0
Range Mark 35, 1919	44147	4.7	1.0
Range Mark 36, 1919	44146	-1.0	1.0
Range Mark 24, 1919	44141	-1.4	1.1
Range Mark 21, 1919	43145	0	1.3
Range Mark 22, 1919	43144	0	1.0
Range Mark 31, 1919	43146	-1.5	2.0
Range Mark 20, 1919	971142	1.4	0
Range Mark 30, 1919	971145	1.0	-0.7
Eastport Standpipe, 1910	971143	2.9	-0.5
Range Mark 8, 1919	972141	0	-1.0
Dog Island Light, 1946	972151	-2.0	0
Range Mark 13, 1919	972142	4.0	-2.7
Range Mark 14, 1919	972143	1.0	1.8
Marks Pt. Lighthouse, Finial, 1909	67152	5.7	-3.3
Range Mark 1, 1919	976141	2.5	1.4
Minister Island, Tower, 1918	976143	0	1.5
Range Mark 3, 1919	973141	3.5	0.5
Leonardville Harbor Lt. House, 1918	41151	-1.6	-2.4
Range Mark 12, 1919	43142	0	1.2
Range Mark 15, 1919	43141	1.0	2.7
Range Mark 16, 1919	43143	1.5	2.0
Range Mark 47, 1919	44163	-4.1	6.5
Range Mark 48, 1919	44162	-3.6	-1.6
Mascabin Point Lighthouse, 1919	39151	-2.0	0.5
Range Mark 11, 1919	42141	-8.3	6.0

Ratio Values

MLW

83C(R)	0494-0499	Ratio 2.487
	0503-0506	Ratio 2.496
	9529-9534	Ratio 2.490
	9537-9543	Ratio 2.489
	9545-9549	Ratio 2.490
	9556-9562	Ratio 2.490
	9567-9570	Ratio 2.492
	9580-9581	Ratio 2.494
	9585-9587	Ratio 2.494
	0510-0513	Ratio 1.508
	0517-0520	Ratio 1.499
83B(R)	6842-6845	Ratio 1.482
	6848-6850	Ratio 1.489
	6855-6858	Ratio 1.491
83C(R)	0524-0528	Ratio 3.006

Ratio Values

MHW

83C(R)	9592-9597	Ratio 2.500
	9630-9633	Ratio 2.507
	9604-9609	Ratio 2.507
	9612-9618	Ratio 2.517
	9623-9626	Ratio 2.510
83B(R)	6820-6825	Ratio 2.494
	6803-6806	Ratio 2.490
	6812-6816	Ratio 2.497
83B(R)	6773-6776	Ratio 1.496
	6781-6784	Ratio 1.495
83B(R)	6756-6759	Ratio 2.996
	6761-6763	Ratio 2.989
	6768-6770	Ratio 3.006
	6788-6790	Ratio 2.996

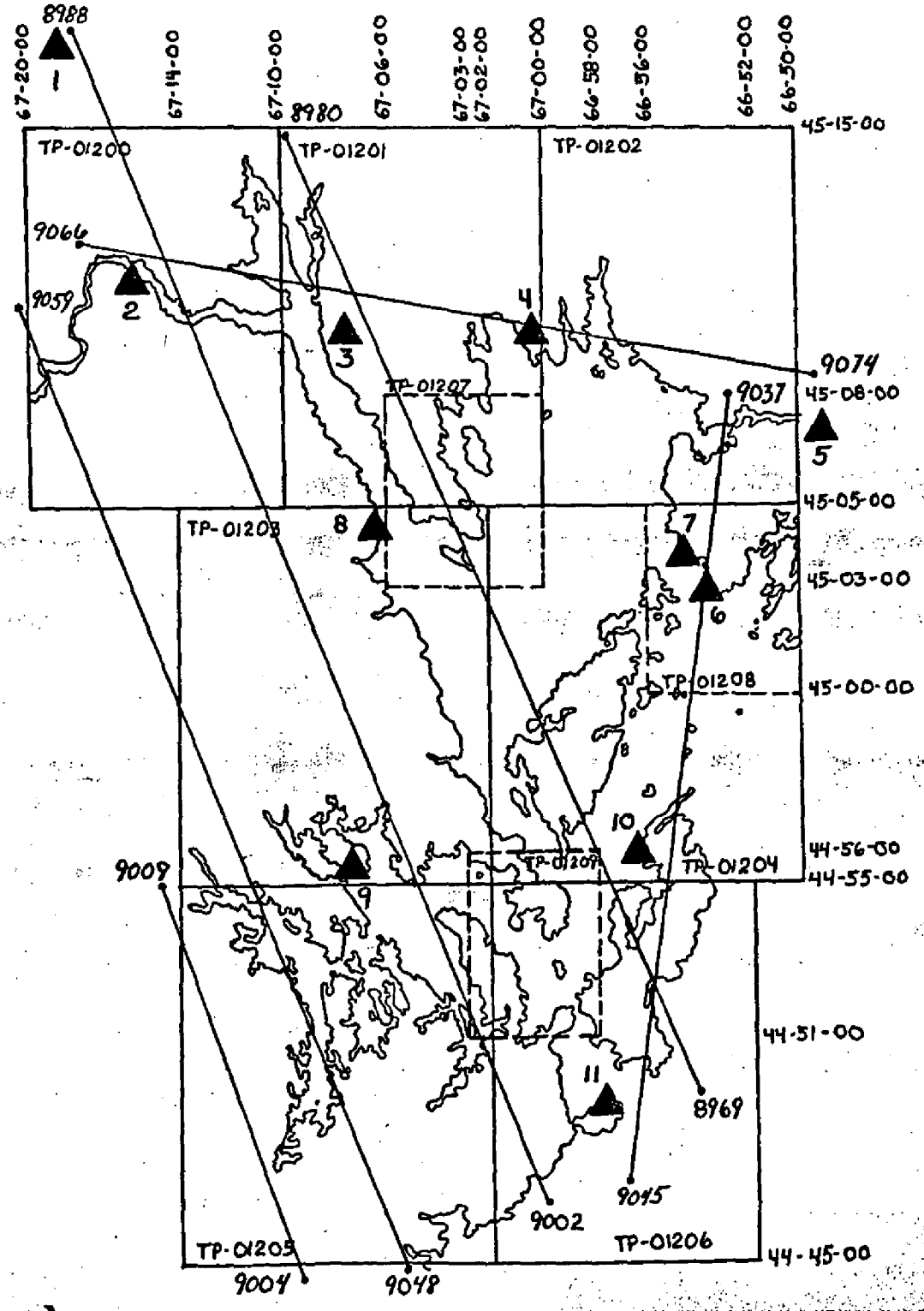
Ratio Values
Bridging Strips

83C(C)	8969-8980	Ratio 2.542
	8988-9002	Ratio 2.537
	9048-9059	Ratio 2.523
	9004-9009	Ratio 2.538
	9066-9074	Ratio 2.541
	9037-9045	Ratio 2.530

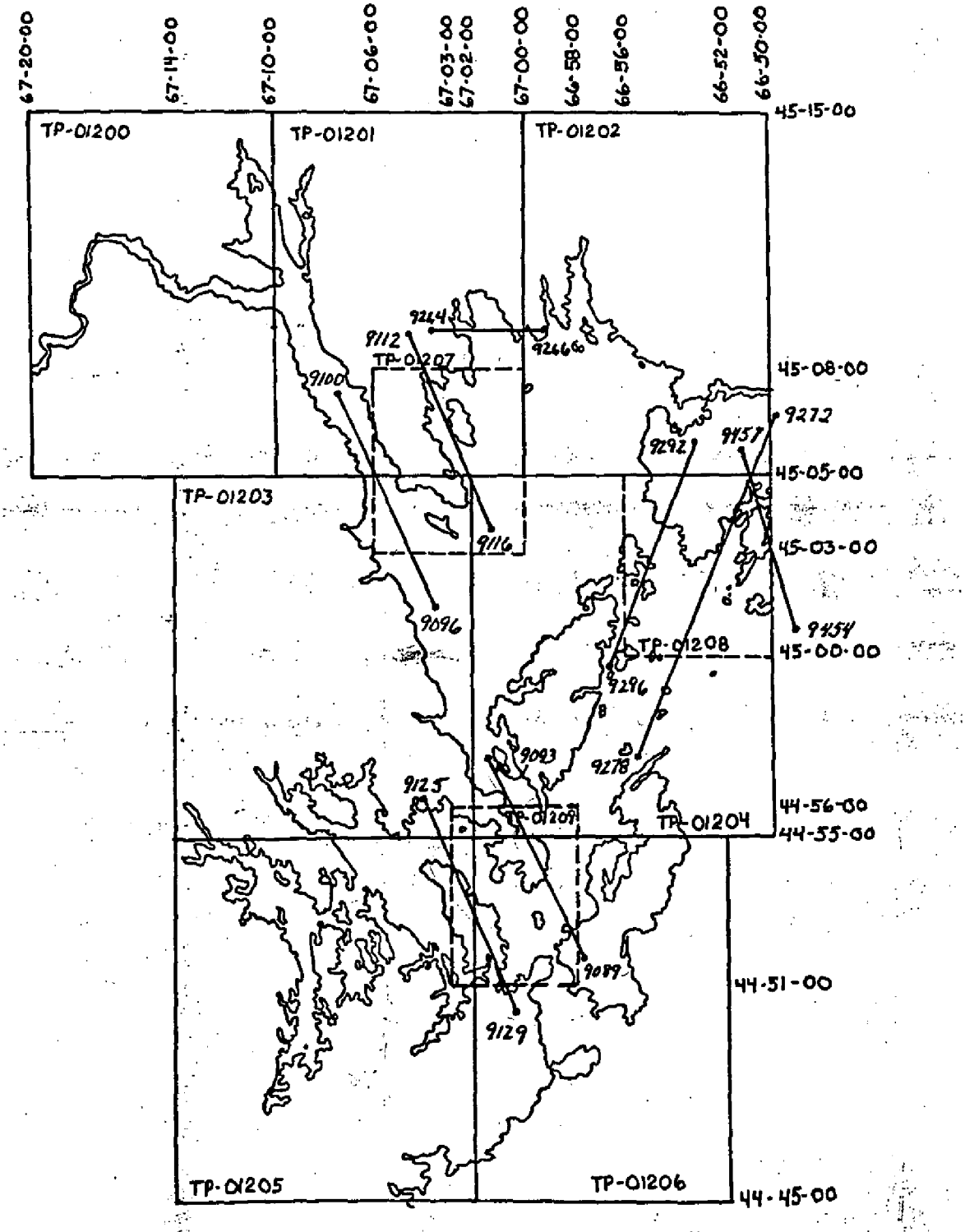
Compilation Photography

83C(C)	9264-9266	Ratio 3.030
	9272-9278	Ratio 3.059
	9292-9296	Ratio 3.046
	9454-9457	Ratio 3.060
	9089-9093	Ratio 3.050
	9096-9100	Ratio 3.048
	9112-9116	Ratio 3.021
	9125-9129	Ratio 3.050

AEROTRIANGULATION SKETCH
PASSAMAQUODDY BAY
MAINE
CM - 8300
1:50000 BRIDGING PHOTOGRAPHS
83C (C)



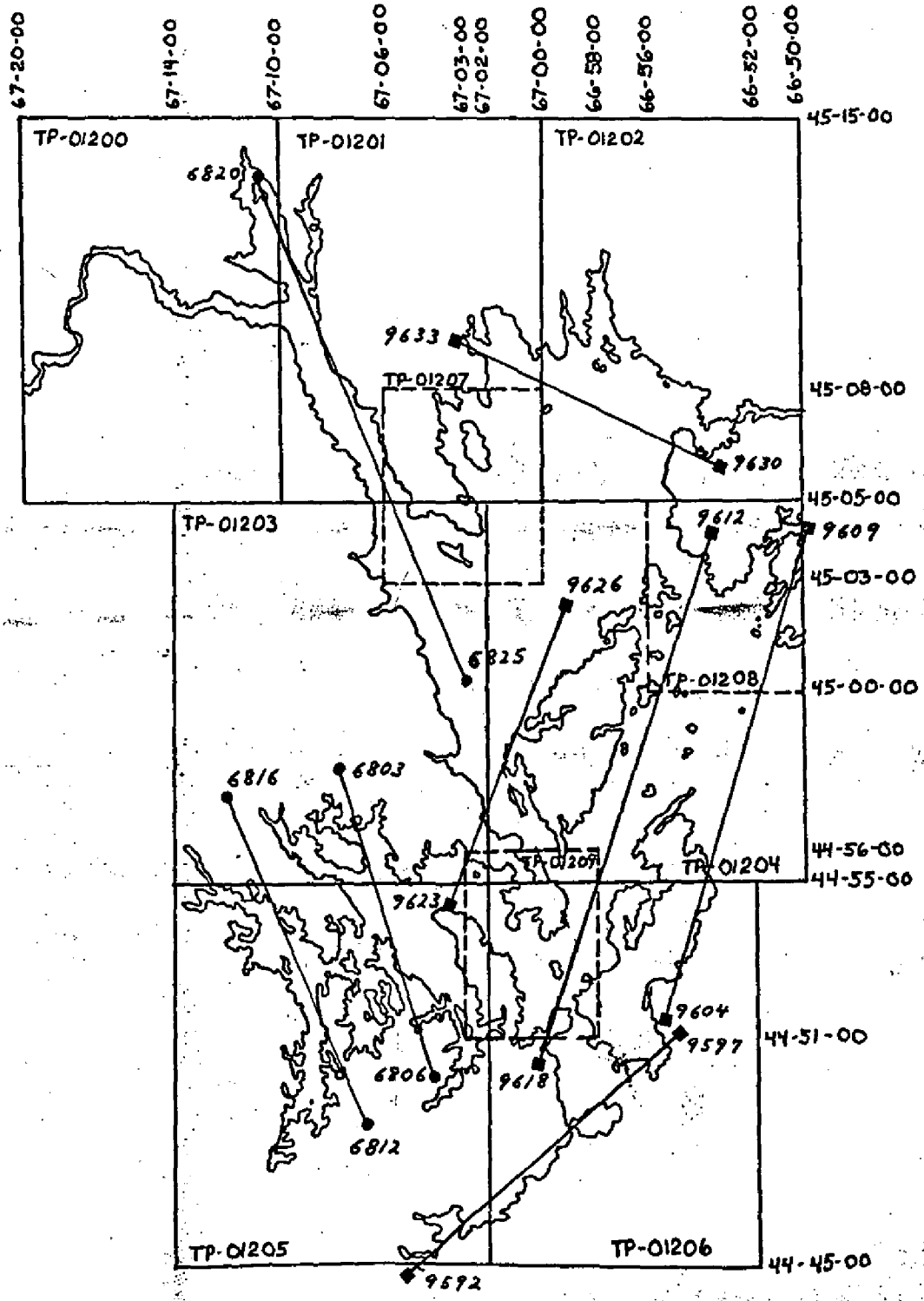
AEROTRIANGULATION SKETCH
PASSAMAQUODDY BAY
MAINE
CM-8300
1:30000 COMPILATION PHOTOGRAPHS
83C (c)



AEROTRIANGULATION SKETCH
PASSAMAQUODDY BAY
MAINE
CM-8300

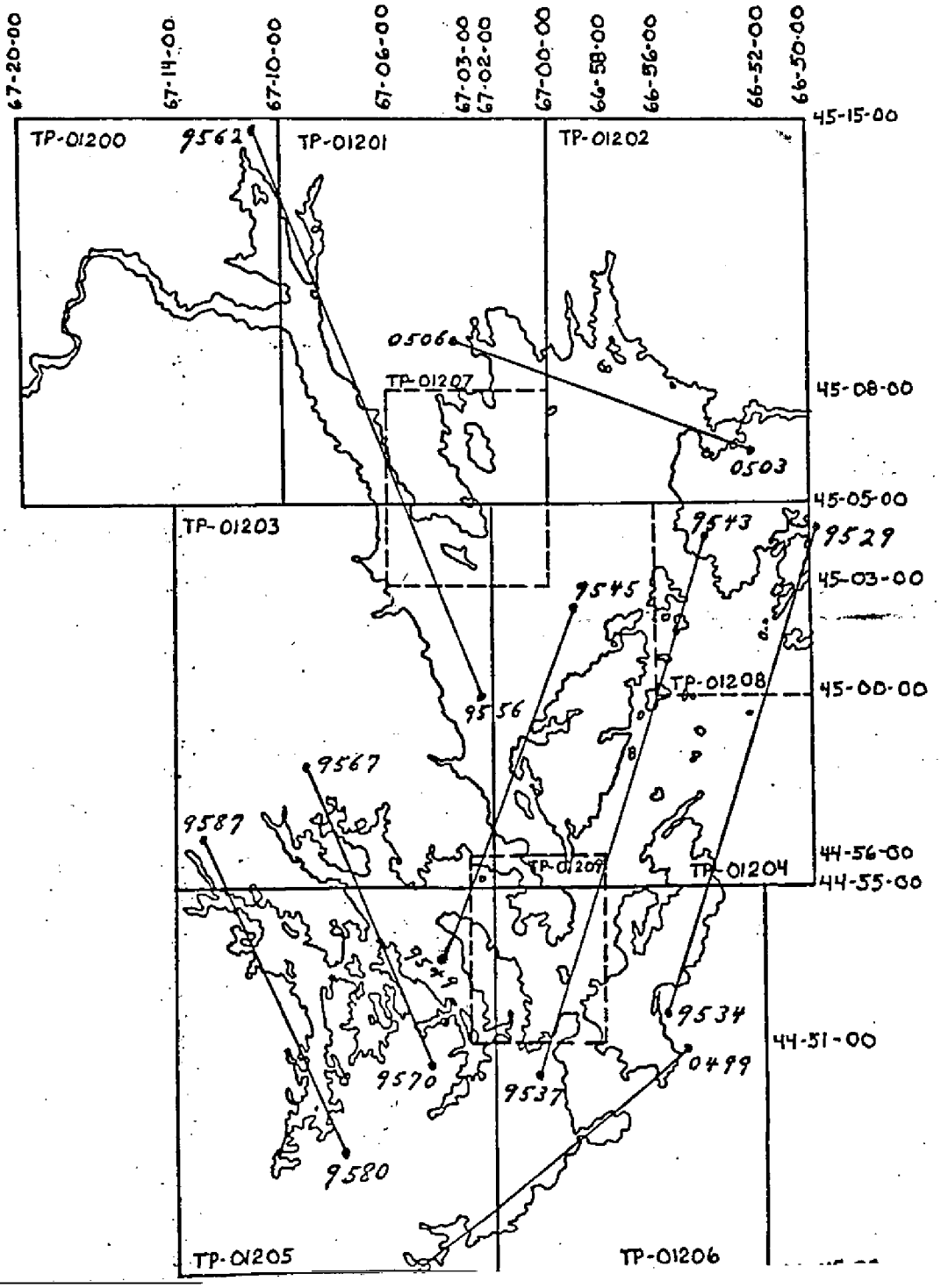
1:50 000 B. & W. INFRARED

MHW ■ 83C(R) • 83B (R)

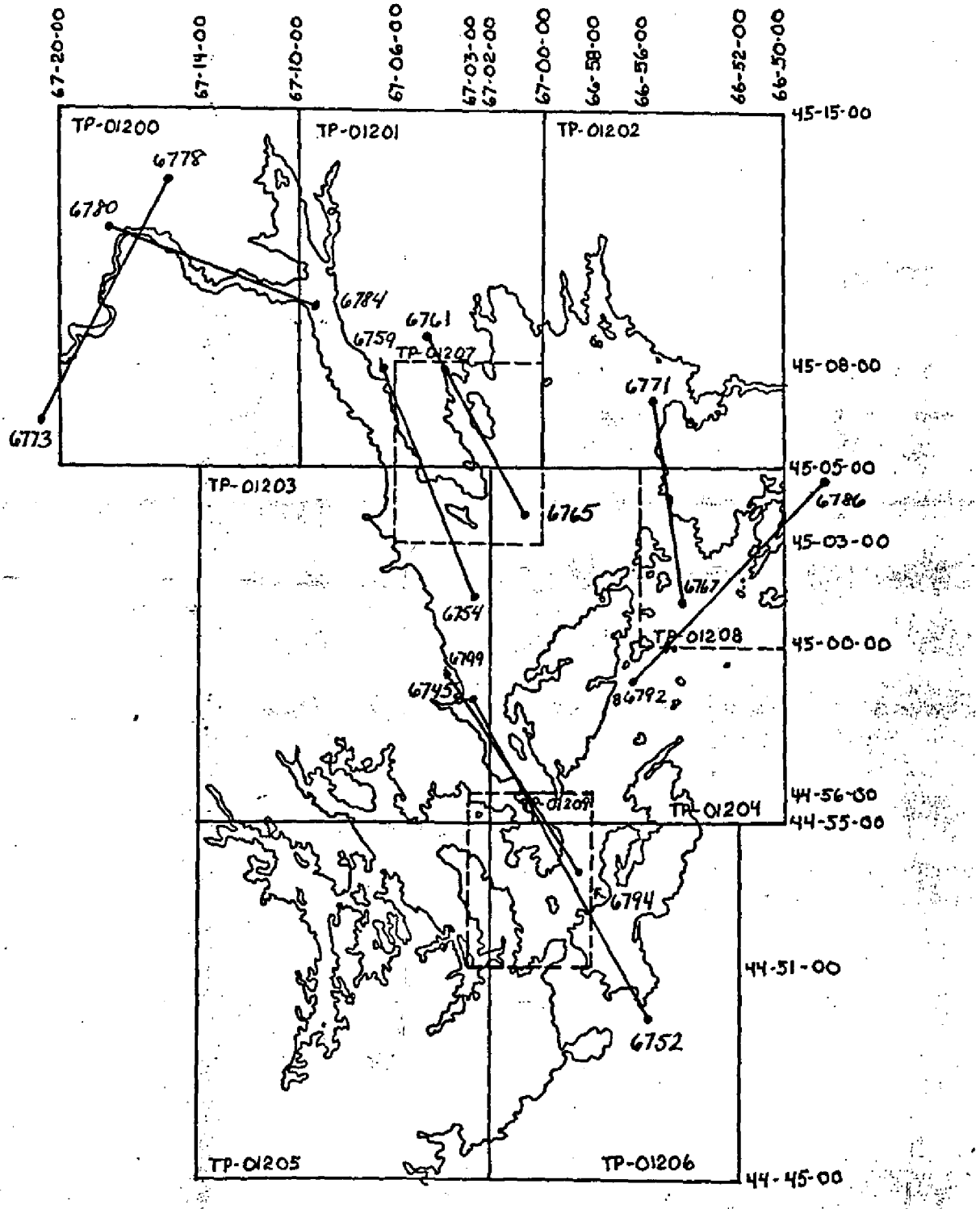


AEROTRIANGULATION SKETCH
PASSAMAQUODDY BAY
MAINE
CM-8300

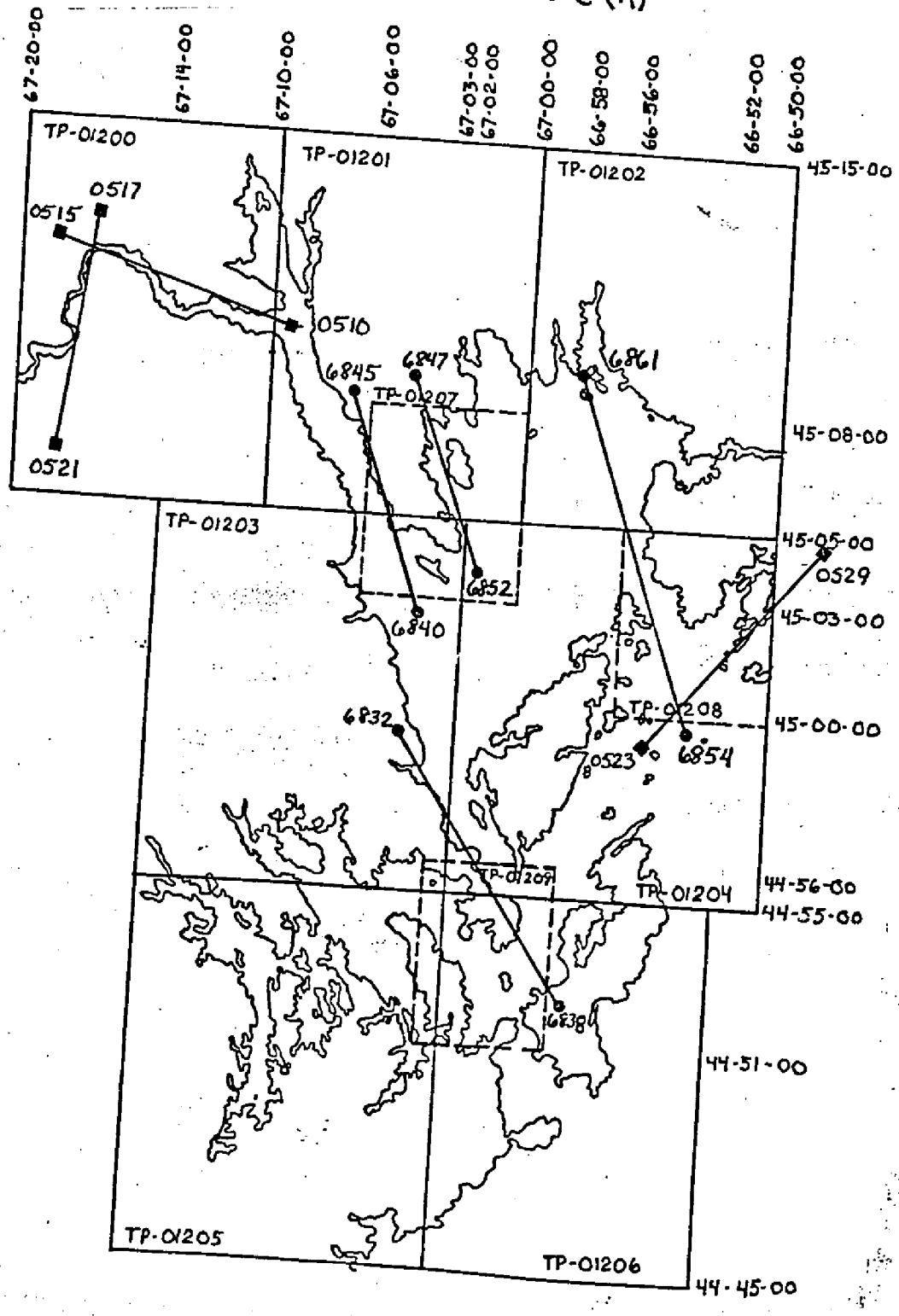
1:50 000 B. & W. INFRARED
MLW 83 C (R)



Aerotriangulation Sketch
Passamaquoddy Bay
Maine
CM - 8300
1:30000 Black and White Infrared Photographs
MHW 83B (R)



Aerotriangulation Sketch
Passamaquoddy Bay
Maine
CM - 8300
1:30000 Black and White Infrared Photographs
MLW • 83B(R) ▪ 83C(R)



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-01207	CM-8300	1927 N.A.	Coastal Mapping Unit, AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Maine ZONE East	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
ST. ANDREWS TALL WHITE SPIRE, 1863	IBC p. 398	975142	x=	φ 45 04 36.191	
			y=	λ 67 03 15.258	
RANGE MARK 1 (IBC), 1919	G 16546 #91	976141	x=	φ 45 04 35.909	
			y=	λ 67 05 00.017	
MINISTER ISLAND TOWER, 1918	IBC p. 400	976143	x=	φ 45 05 48.715	
			y=	λ 67 01 57.715	
ST. ANDREWS TALLEST SPIRE, BROWN, 1887	IBC p. 399	200	x=	φ 45 04 35.37	
			y=	λ 67 03 03.19	
RANGE MARK 2 (IBC), 1919	G 16546 #92	196	x=	φ 45 04 36.853	
			y=	λ 67 04 54.968	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY R. Kravitz	DATE 1-15-85	LISTING CHECKED BY W. McLemore, Jr.	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

COMPILATION REPORT

TP-01207

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 1:30,000 compilation color photographs. Tide coordinated MHW infrared photographs were used to assist in interpretation of the shoreline delineation. 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 the map are listed on form 76-36B. The photography was adequate.

A partial shoreline inspection was performed prior to compilation. Resulting information was used as an aid to office interpretation of the compilation photography.

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated August 1984.

33 - SUPPLEMENTAL DATA

A general comparison was made with the following Canadian Nautical Charts:
4331, 27th edition, dated July 8, 1983, scale 1:40,640
4332, 47th edition, dated November 19, 1982, scale 1:12,150.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

The mean high water line was compiled from office interpretation of the compilation color photographs. The tide coordinated infrared contact photographs were used to assist in interpretation. No MHW infrared ratio photographs were provided.

36 - OFFSHORE DETAILS

Offshore details were compiled by instrument methods as described in Item #31. Both the 1:30,000 scale MHW and MLW infrared photographs were used to assist in interpretation.

The MLW infrared photographs were ratioed in order to graphically compile the approximate mean low water line. A small portion of the mean low water line around Hardwood Island in the NE corner of this map was compiled on adjoining 1:20,000 scale map TP-01202 and transferred to this map. This was done since there was no 1:30,000 scale MLW infrared coverage of this small area.

37 - LANDMARKS AND AIDS

There are 11 charted landmarks and 3 charted navigational aids within the mapping limits of this manuscript. Among these, 7 landmarks and 2 aids were either located or verified photogrammetrically.

Appropriate information was prepared on the 76-40 forms and submitted with this map.

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. and Canadian quadrangles:
Robbinston, ME, dated 1949, photorevised 1977, scale 1:24,000
Fredericton, N.B., Can.-Maine, U.S., dated 1957, scale 1:250,000
St. Stephen, Can.,- U.S., 21G/3, 4th edition, dated 1980, scale 1:50,00.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Chart:
13328, 20th edition, dated September 15, 1984, scale 1:40,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Tp-01207

Submitted by,

Robert R. Kravitz

Robert R. Kravitz
Cartographic Technician
March 5, 1985

Approved,

James L. Byrd, Jr.

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8300 (Passamaquoddy Bay, Maine)

TP-01207

Bar Road (Ppl)
Brandy Cove
Canadian Pacific (RY)
Chamcook
Chamcook Channel
Chamcook Harbour
Chamcook Point
Craig Point
Haley Point
Hardwood Island
Hospital Island
Indian Point
Joes Point
Katys Cove
McCann Cove
McCann Head
Minister Island
Navy Island
North Point
Pagan Point
Passamaquoddy Bay
Ross Point
St. Andrews
St. Andrews Harbour
St. Andrews North (Chamcook PO)
St. Croix River
Tufts Cove
Niger Reef GNB
Tongue Shoal GNB

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT
TP-01207
SHORELINE

61 - GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in May 1985. For a schedule of the office and field operations, refer to the Summary included in this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEY

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S. and Canadian quadrangles:
Robbinston, ME, dated 1949, photorevised 1977, scale 1:24,000
Fredericton, N.B. Can.-Maine, U.S., dated 1957, scale 1:250,000
St. Stephen, Can.-U.S., 21G/3, 4th edition, dated 1980, scale 1:50,000.

A comparison was made with the following Canadian Hydrographic Service Charts:
4331, 27th edition, dated July 8, 1983, scale 1:40,640
4332, 47th edition, dated Nov. 19, 1982, scale 1:12,150.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Prior to final review, no contemporary hydrographic survey was accomplished in the area common to this map.

Hydrographic survey data was prepared and submitted for the anticipated Canadian hydrographic operations.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS chart 13328, 20th edition, dated September 15, 1984, scale 1:40,000.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

TP-01207

Submitted by:

Jerry L. Hancock
Final Reviewer

Approved for forwarding:

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved:

Chief, Photogrammetric Section,
Rockville

Chief, Photogrammetry Branch,
Rockville

NOAA FORM 76-40
(6-74)

Replaces C&GS Form 567.

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

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ PHOTO FIELD PARTY
- ☒ COMPILATION ACTIVITY
- ☐ FINAL REVIEWER
- ☐ QUALITY CONTROL & REVIEW GRP.
- ☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
	Coastal Mapping Unit AMC, Norfolk, VA	Maine	Passamaquoddy Bay	Jan.1985

The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	CM-8300	TP-01207	N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE // D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE // D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED Canadian Charts**
TALL SPIRE	(St. Andrews, Tall White Spire, 1863)	45 04	36.191	67 03	15.258	83C(C)9115 09-15-83		13328 4332**
HOTEL TOWER	[illegible]	45 04	50.8	67 03	23.9	83C(C)9115 09-15-83		13328
BDY RGE MKR 1	(Range Mark 1 (IBC), 1919)	45 04	35.909	67 05	00.017	83C(C)9098 09-15-83		13328
BDY RGE MKR 2	(Range Mark 2 (IBC), 1919)	45 04	36.853	67 04	54.968	83C(C)9098 09-15-83		13328
TOWER	(Minister Island Tower, 1918)	45 05	48.715	67 01	57.715	83C(C)9115 09-15-83		13328 4331**
SPIRE	St. Andrews Methodist Church	45 04	31.7	67 03	13.4	83C(C)9115 09-15-83		4332**
SPIRE	(St. Andrews, Tallest Spire, Brown, 1887)	45 04	35.37	67 03	03.19	83C(C)9115 09-15-83		4332**

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
	Robert R. Kravitz	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS
Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.
EXAMPLE: 75E(C)6042
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED
Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field Identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.
EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.
EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED
When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.
EXAMPLE: Triang. Rec.
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH
Enter 'V-Vis.' and date.
EXAMPLE: V-Vis.
8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 76-40 (8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ PHOTO FIELD PARTY
- ☒ COMPILATION ACTIVITY
- ☐ FINAL REVIEWER
- ☐ QUALITY CONTROL & REVIEW GRP.
- ☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Unit AMC, Norfolk, VA	Maine	Passamaquoddy Bay	Jan. 1985

The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	CM-8300	TP-01207	N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED Canadian Charts**
LIGHT	*St. Andrews Wharf Light	45 04	16.296	67.03	20.234	83C(C)9115 09-15-83		13328 4331** 4332**
LIGHT	*St. Andrews West Channel Light	45 04	14.964	67 04	05.880	83C(C)9115 09-15-83		13328 4331** 4332**
	*Position determined during aerotriangulation.							
	Names of lights not located in US Light List, taken from Canadian Light List.							

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
	Robert R. Kravitz	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64.

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS
Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.
EXAMPLE: 75E(C)6042
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED
Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.
EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.
EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED
When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.
EXAMPLE: Triang. Rec.
8-12-75

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Enter 'V-Vis.' and date.
EXAMPLE: V-Vis.
8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S. GPO:1975-0-665-080/1155

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-01207 (CM-8300)

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
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			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.