

TP-01119

TP 01119

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

<i>Map No.</i> TP-01119	<i>Edition No.</i> 1
<i>Job No.</i> CM-8101	
<i>Map Classification</i> CLASS III (FINAL)	
<i>Type of Survey</i> SHORELINE	
LOCALITY	
<i>State</i> MAINE	
<i>General Locality</i> PENOBSCOT BAY	
<i>Locality</i> ISLE AU HAUT	
1982 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>01119</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. <u>(1)</u>	
				<input type="checkbox"/> RESURVEY		MAP CLASS <u>III (Final)</u>	
				<input type="checkbox"/> REVISED		JOB <u>CM-8101</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit Atlantic Marine Center, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE  A. Y. Bryson, CDR				TYPE OF SURVEY		JOB PH. _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation February 2, 1983				Field March 24, 1982			
Office (Compilation) April 20, 1983				(Horizontal Control)			
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				4. GRID(S)			
Transverse Mercator Projection				STATE Maine		ZONE East	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				S. Solbeck		Sept. 1983	
METHOD: Analytic LANDMARKS AND AIDS BY				D. Norman		Sept. 1983	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				S. Solbeck		Sept. 1983	
METHOD: Coradomat CHECKED BY				D. Norman		Sept. 1983	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				F. Margiotta		March 1984	
COMPILATION CHECKED BY				W. McLemore & J. Byrd		Feb. 1984	
INSTRUMENT: Wild B-8				N.A.			
SCALE: 1:20,000				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				F. Margiotta		April 1984	
CHECKED BY				R. Kravitz		May 1984	
METHOD: Smooth drafted				N.A.			
CHECKED BY				N.A.			
SCALE: 1:20,000 HYDRO SUPPORT DATA BY				F. Margiotta		April 1984	
CHECKED BY				R. Kravitz		May 1984	
5. OFFICE INSPECTION PRIOR TO <del>REVIEW</del> FINAL REVIEW BY				R. Kravitz		May 1984	
6. APPLICATION OF FIELD EDIT DATA BY				N.A.			
CHECKED BY				N.A.			
7. COMPILATION SECTION REVIEW BY				R. Kravitz		May 1984	
8. FINAL REVIEW CLASS III BY				J. Hancock		June 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		June 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				C. LEWIS		AUG 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R.S. KORNSPAN		FEB 1985	

TP-01119

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(C) (C=88.46mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> PREDICTED TIDES * <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY **				Eastern	
				MERIDIAN	
				75th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
82 C(C) 3668 - 3678*	June 27, 1982	10:05	1:50,000	0.5 below MLW	
82 C(C) 3681 - 3684*	June 27, 1982	10:24	1:50,000	0.3 below MLW	
82 C(C) 3610 - 3615*	June 27, 1982	09:25	1:50,000	0.4 below MLW	
83 C(I) 9643 - 9647**	Sept 29, 1983	08:50	1:50,000	1.3 above MLW	
83 C(I) 9651 - 9654**	Sept 29, 1983	09:00	1:50,000	1.2 above MLW	
82 C(I) 3949 - 3953**	July 4, 1982	09:54	1:50,000	0.7 below MHW	
82 C(I) 3972 - 3977**	July 4, 1982	10:14	1:50,000	0.8 below MHW	
Mean Tide Range =(9.7Ft.)					

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 temporary tide gage at Castine.

## 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 contact photographs were used to assist in the interpretation of the MHW line.

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

The Mean Low Water Line was compiled graphically from the black-and-white tide coordinated 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
TP-01116	No Survey	No Survey	TP-01118

REMARKS

TP-01119

## HISTORY OF FIELD OPERATIONS

- 1.
- ☒
- FIELD INSPECTION OPERATION (PREMARKING)
- ☐
- FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY Photo Party 62	R. S. Tibbetts	May 1982
2. HORIZONTAL CONTROL	RECOVERED BY P. B. Walbolt	May 1982
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY P. B. Walbolt	May 1982
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 <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
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		2. VERTICAL CONTROL IDENTIFIED	
Premarked (Paneled)		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
82 C(C) 3614	BASE, 1945 (Paneled direct)		

## 3. PHOTO NUMBERS (Clarification of details)

N.A.

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

N.A.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

## 7. SUPPLEMENTAL MAPS AND PLANS

N.A.

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

The following records are field data submitted for the entire project: three (3) forms 277 (Tide Staff Location Books); six (6) NOAA Forms 76-77 (Leveling Record Books - Tide Station); NOAA Forms 76-53 (CSI Cards).

2 Field observation books ( NOAA form 76-52 & USC&GS form 252)

NOAA FORM 76-36D  
(3-72)

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

TP-01119  
**RECORD OF SURVEY USE**

**I. MANUSCRIPT COPIES**

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	May 1984	Class III manuscript	None	None
Final Review, Class III	June 1984	Final Class III Map; No field edit performed	AUG 22 1984	AUG 22 1984

**II. LANDMARKS AND AIDS TO NAVIGATION****1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

PAGES NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2		AUG 22 1984	Landmarks and Aids to be charted

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_**III. FEDERAL RECORDS CENTER DATA**

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

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_**IV. SURVEY EDITIONS** (This section shall be completed each time a new map edition is registered)

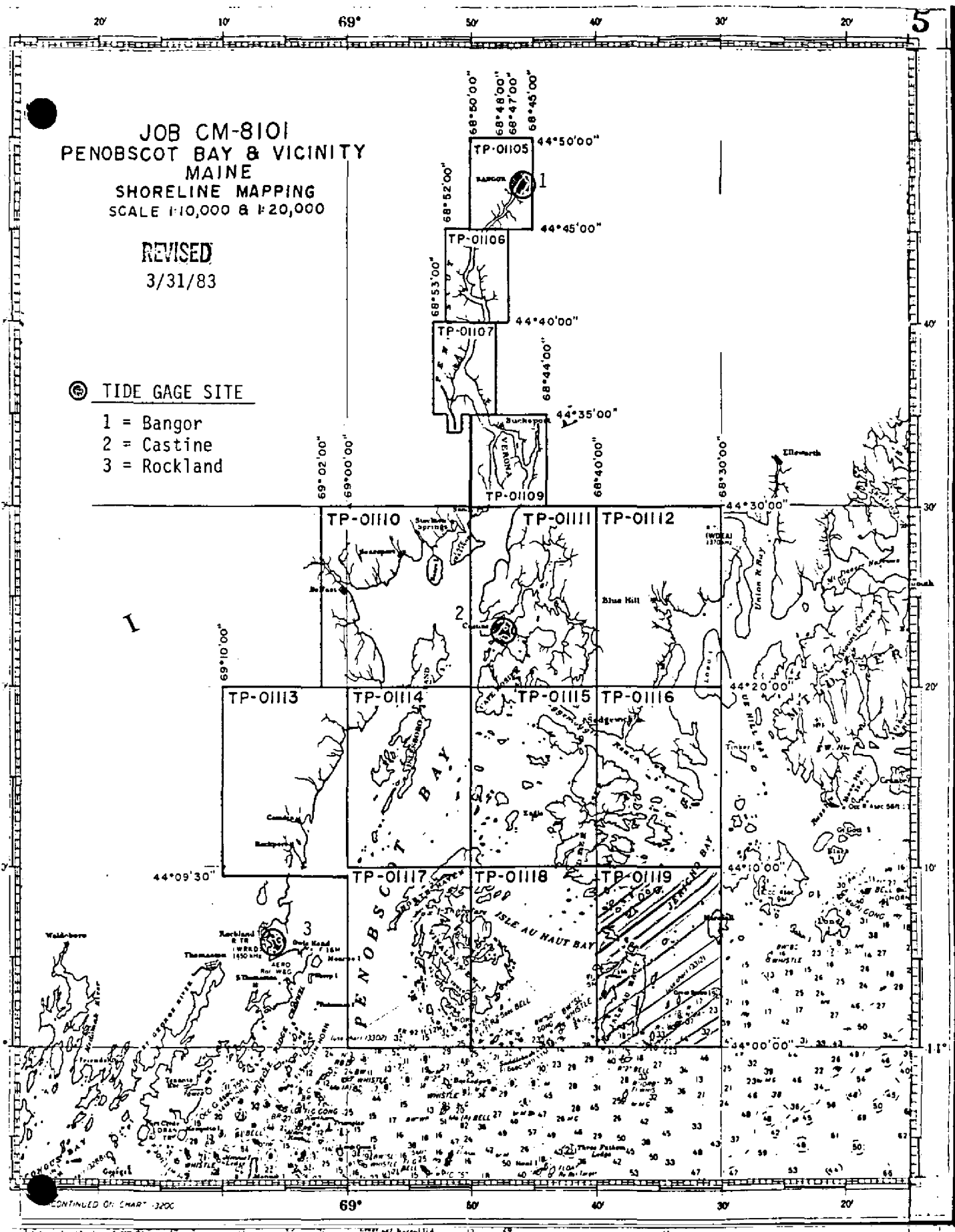
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL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

JOB CM-8101  
PENOBSCOT BAY & VICINITY  
MAINE  
SHORELINE MAPPING  
SCALE 1:10,000 & 1:20,000

REVISED  
3/31/83

① TIDE GAGE SITE

- 1 = Bangor
- 2 = Castine
- 3 = Rockland



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01119

This 1:20,000 scale final Class III shoreline map is one of six maps designated as Part III, the last segment, of project CM-8101, Penobscot Bay and Vicinity, Maine. Aerotriangulation and compilation operations for the entire 14 map project were segmented in order to meet production schedules.

The purpose of this project is to provide current charting information for nautical charting maintenance and to furnish support data for hydrographic operations.

This final Class III map portrays the shoreline encompassing Isle Au Haut and features the numerous islands southeast of Deer Isle, scattered throughout Jericho Bay.

Photo coverage was adequately provided by natural color and tide coordinated infrared photographs. All photographs were taken with the Wild RC-10(C) camera at 1:50,000 scale. Color photographs required for aerotriangulation and compilation were taken June 1982. Tide coordinated black-and-white photographs were furnished for the MLW line delineation and to assist in the MHW line interpretation process. The MLW photographs were taken September 1983 and the MHW photographs were taken July 1982.

Field work prior to compilation consisted of installing and monitoring tide gages for the tide coordinated photography, and the recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. This activity was completed August 1982.

Analytic aerotriangulation was adequately provided by the Washington Science Center. Aerotriangulation operations also included ruling the base manuscripts, determining ratio values for photographs and locating visible navigational aids.

Compilation, based upon photo interpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in May 1984. Compilation included the use of MHW and MLW tide coordinated infrared photographs. Refer to the Compilation Report for specific use of this photography.

Field edit will not be accomplished for this map.

Final review was performed at the Atlantic Marine Center in June 1984. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch. Also, a Notes to Hydrographer print was prepared for hydrographic activity.

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

## FIELD INSPECTION

TP-01119

There was no field inspection prior to compilation. Field work accomplished was limited to installing and monitoring tide gages for the tide coordinated photography, and the recovery, establishment and identification (premarking) of horizontal control necessary for aerotriangulation.



PHOTOGRAMMETRIC PLOT REPORT  
CM 8101  
PENOBSCOT BAY AND VICINITY, MAINE  
PART TWO

Area Covered

The area covered by this report is that portion of the Penobscot Bay shoreline surrounding Isle Au Haut Bay and Jerico Bay, as well as the eastern portion of Penobscot Bay. Six 1:20,000-scale manuscripts: TP-01112 and TP-01114 through TP-01119 cover this area.

Method

Four strips of 1:50,000-scale color photographs were bridged by standard analytic aerotriangulation methods. The horizontal control was premarked. Tie points were used to ensure the adequate junctioning between all bridging strips. Once bridged, a block adjustment covering the entire project ensured that this portion of the project junctioned well with that previously completed. This adjustment provided the final ground positions for those points used in the compilation of the 1:20,000-scale manuscripts, as well as positions used to control the 1:30,000-scale bridging photographs.

The 1:30,000-scale color bridging photographs were used to locate a series of premarked images which are to be used for hydrographic surveys in this area. Of a total 155 premarked panels, 137 were actually located and measured over the entire project.

The 1:50,000-scale black and white infrared photographs were ratioed to supplement the compilation photographs. Ratio values have been determined.

The manuscripts were plotted on the Coradomat 21 using the Maine East Zone (Transverse Mercator).

Adequacy of Control

The control provided was adequate for the compilation of the 1:20,000-scale manuscripts. For a more accurate overall adjustment, including the determination of positions of the hydrographic survey marks, additional control throughout the central islands of Penobscot Bay would have been beneficial. The control fit well within the National Standards of Map Accuracy.

Supplemental Data

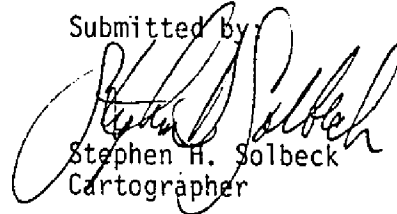
USGS quadrangles were used to provide vertical control for the strip and block adjustments.

Nautical charts were used to locate aids and landmarks.

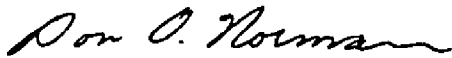
Photography

The coverage, overlap, and quality of photographs proved adequate for completion of the project. The original film negatives were used in this project.

Submitted by:

  
Stephen H. Solbeck  
Cartographer

Approved and Forwarded:



Don O. Norman  
Chief, Aerotriangulation Unit

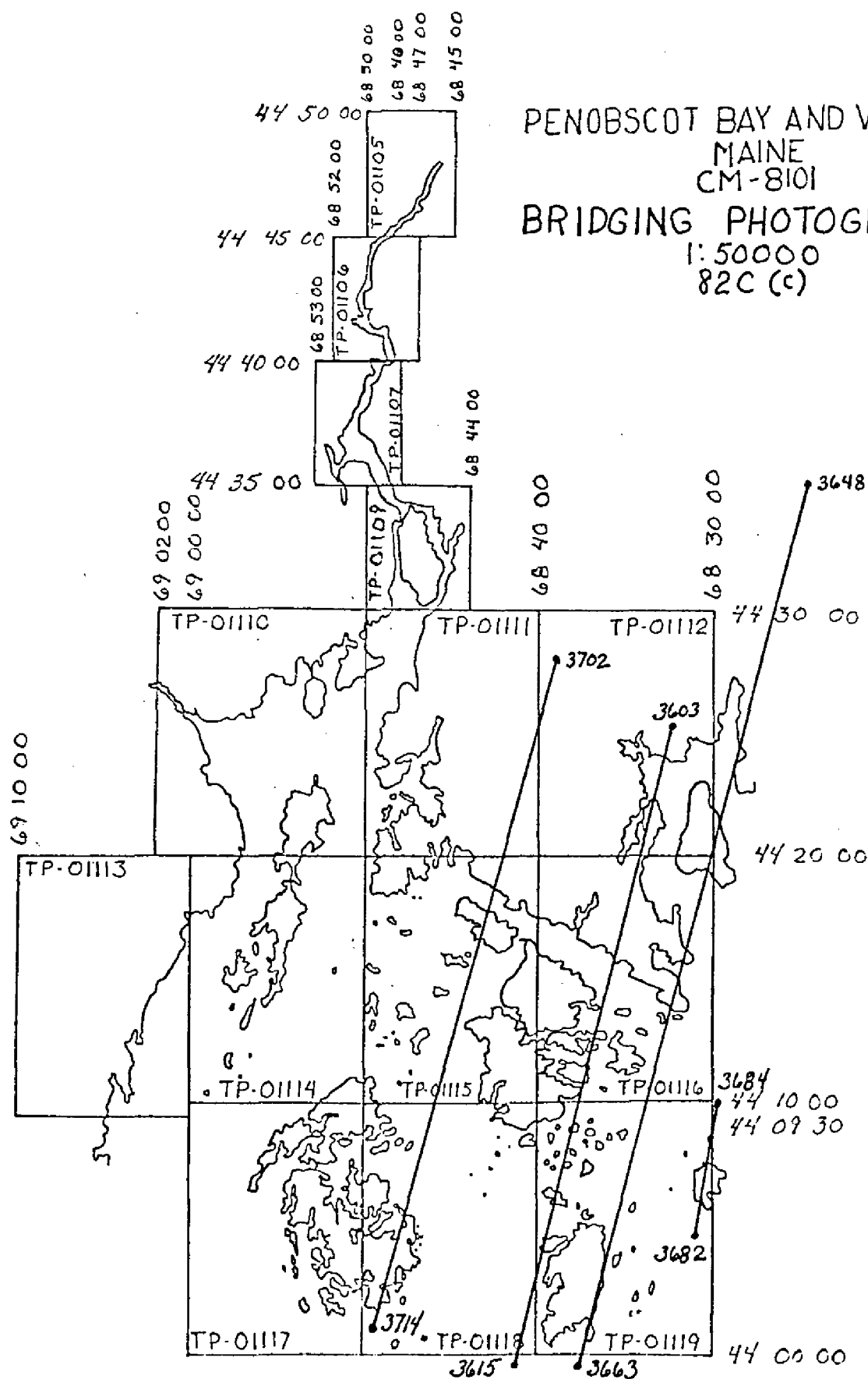
CM-8101  
PENOBSCOT BAY AND VICINITY  
FIT TO CONTROL  
1:50,000  
BLOCK ADJUSTMENT POSITIONS

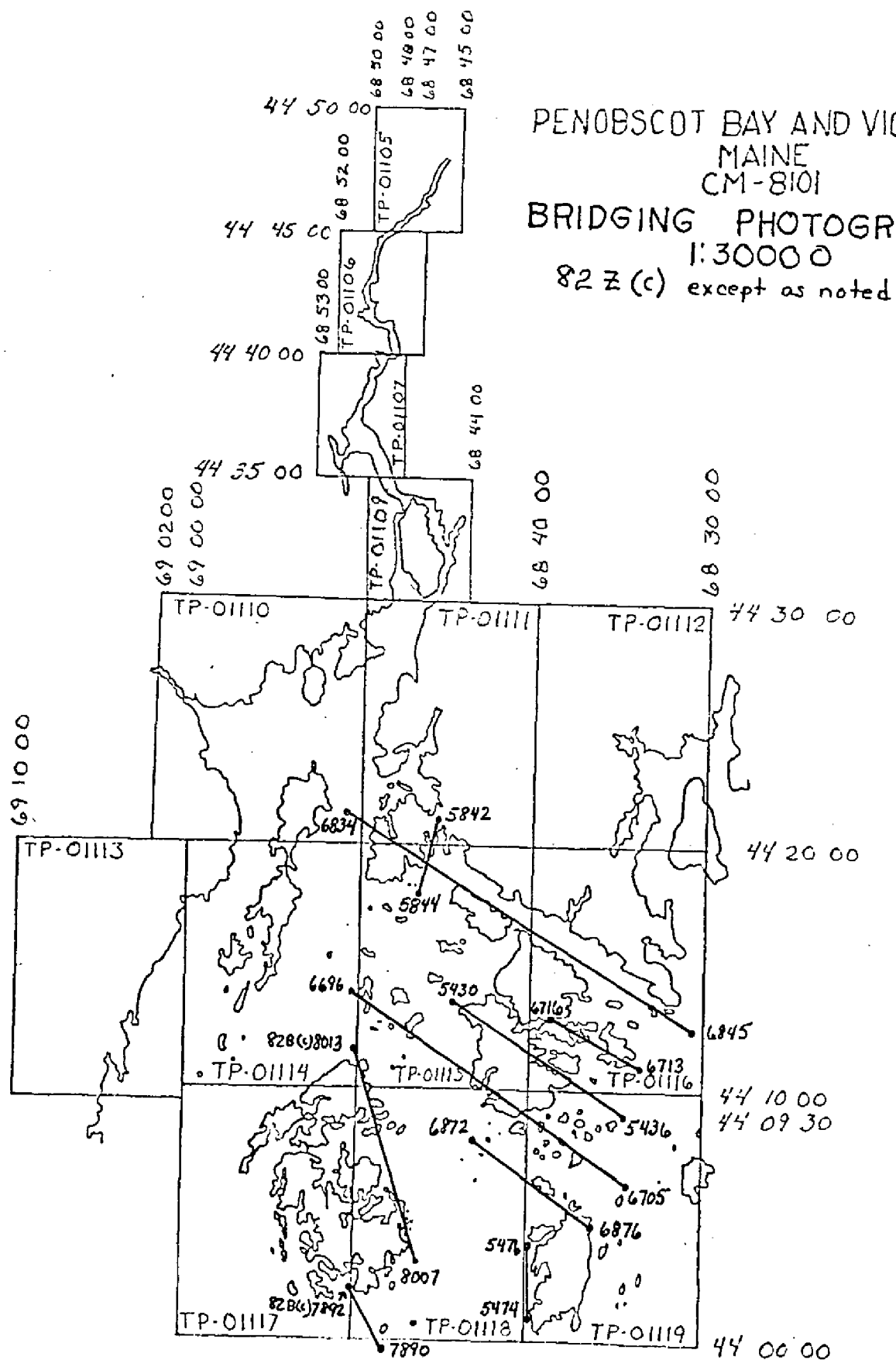
STATION NAME		VALUES IN FEET	
		x	y
Dyer (1861) Sub Point	729101▲	0	+0.01
West Stockton White Church Spire	825100	+2.01	-1.15
Sub Point	825101▲	0	0
Sparks House Chimney, Sub Point	827101▲	0	0
Rockland Breakwater Lighthouse	570100	+2.29	+1.55
Sub Point	570101▲	0	0
Mount Battle Memorial Observatory			
Sub Point	573101▲	-.01	-.01
Temperance	576100▲	-.01	-.01
Kittredge Rm 1	592101▲	+0.01	0
Heron Neck Lighthouse, Sub Point	724101▲	0	+0.01
Castine Orthodox Church Spire	742100	+1.74	+1.60
Sub Point	742101▲	0	0
Blue Hill Lookout Tower			
Sub Point	702101▲	-.03	+0.01
Stubbs, Sub Point	587101▲	0	-.01
West Stonington Church Spire	709100	-2.47	+1.26
Sub Point	709101▲	-.41	-.05
Brooklyn Church Spire	607100	-.41	+0.20
Sub Point	607101▲	-.04	+0.05
Base	614100▲	+0.03	+0.09
Rocky, Sub Point 2	649101▲	+0.06	+0.07
Bangor Radio Station WLBE			
Tallest Mast of Two	591141	+1.64	+1.83
Bangor, Unitarian Church Spire	590144	+3.42	-1.08
Bangor Tank, Flagpole	590143	+3.57	+1.82
Bangor Dow AFB, Standpipe	590149	+3.50	+2.63
Bangor Radio Station WABI			
East Mast	590147	-.06	+1.76
West Mast	590146	+2.89	+0.82
Orrington Church Spire	588141	+4.49	-.30
Winterport Church Clock Spire	586141	+0.19	+3.74
Steel Ledge Monument Light (Steel Ledge Beacon)	579151	-4.03	+8.73
Stone Beacon	734151	-2.53	+5.98
Duck Trap Church Spire	576141	+0.85	+6.24
Negro Island Lighthouse	573151	+5.04	-4.86
Camden White Brick Stack	573141	+3.57	-.06
Rockport School House Clock Spire	572141	+0.87	-2.59
Rockport White Square Cupola	572142	+1.78	+2.23
The Graves Light	573152	-.93	-1.53
Indian Island Lighthouse	572144	-.58	-.22

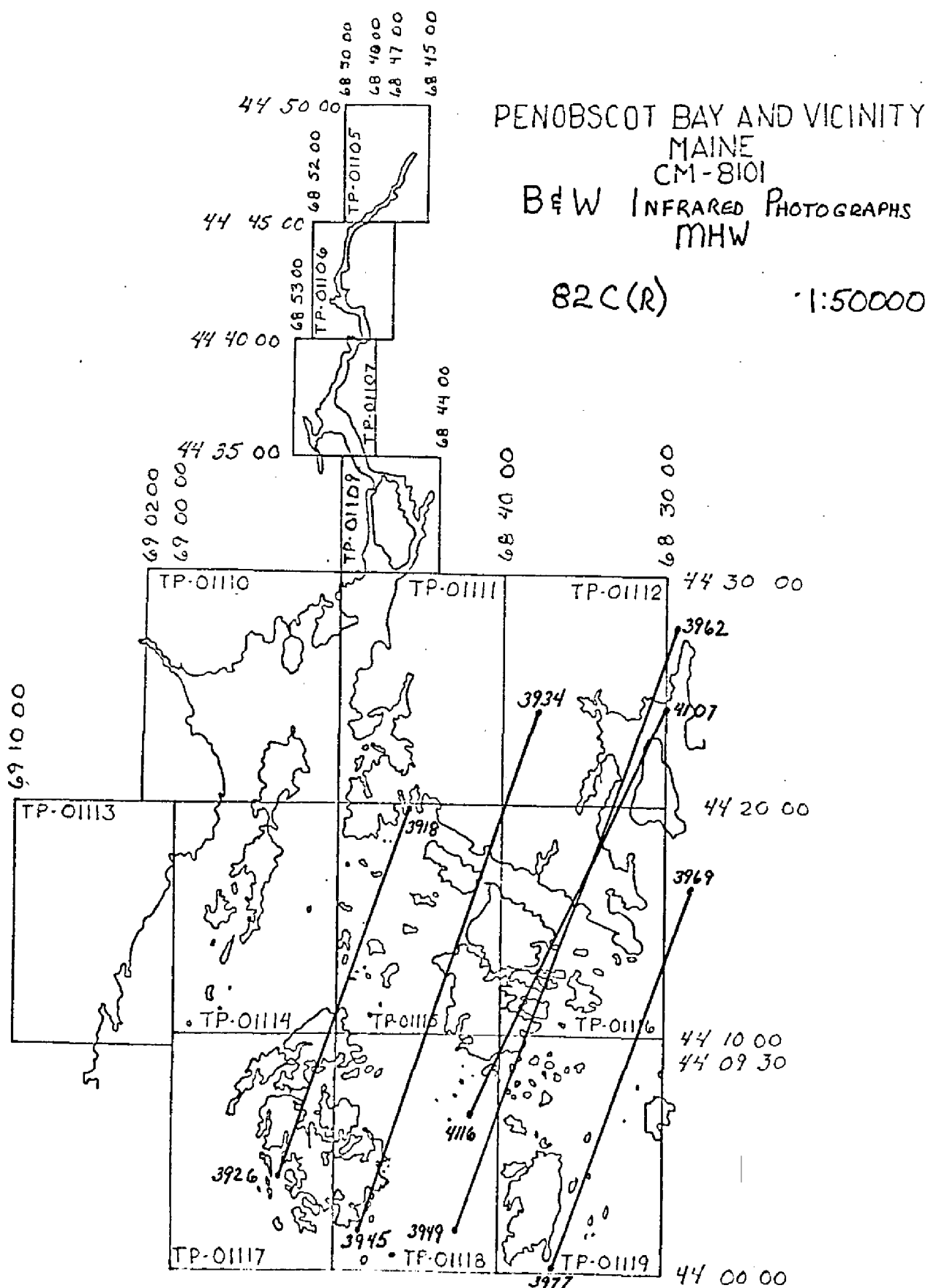
North Haven Water Tower	727149	-.77	+.89
Odens Ledge Beacon	827151	-6.47	-1.84
Fort Point Ledge Beacon	731501	-2.99	-1.48
Coombs Point Water Tank	823141	-2.47	+1.93
N.E. Point Light	573153	-1.33	-10.94
Bucksport Silver Standpipe	828142	-3.82	+1.80
Bucksport E. Maine Conference			
Seminary Cupola	828139	-2.23	+.77
Hamden Congressional Church Spire	589141	+9.82	+3.16
Naskeag Church Cupola	657141	+3.74	+5.30
Eagle Island Lighthouse	708144	+1.70	+4.00
Goose Rocks Lighthouse	711152	+2.29	+.53
Widows Island, Center of House	711141	+6.89	-8.54
Vinal Haven, Watertower	714141	+.58	-.41
Deer Isle, N.W. Harbor Church Spire	609141	-4.11	+6.68
Whitmore Neck, Belfry in School	610141	-.54	-.35
Stonington, Water Tower	611142	-1.46	-1.43
Deer Island Thorofare Lighthouse	611151	+1.68	-1.95
Isle Au Haut, Church Spire	612141	-7.36	+7.22
Saddleback Ledge, Lighthouse	614151	-3.95	+2.89
Blue Hill Bay, Lighthouse	656150	+1.93	-3.93
Vinal Haven, Channel Rock Beacon	711551	+1.52	+2.13

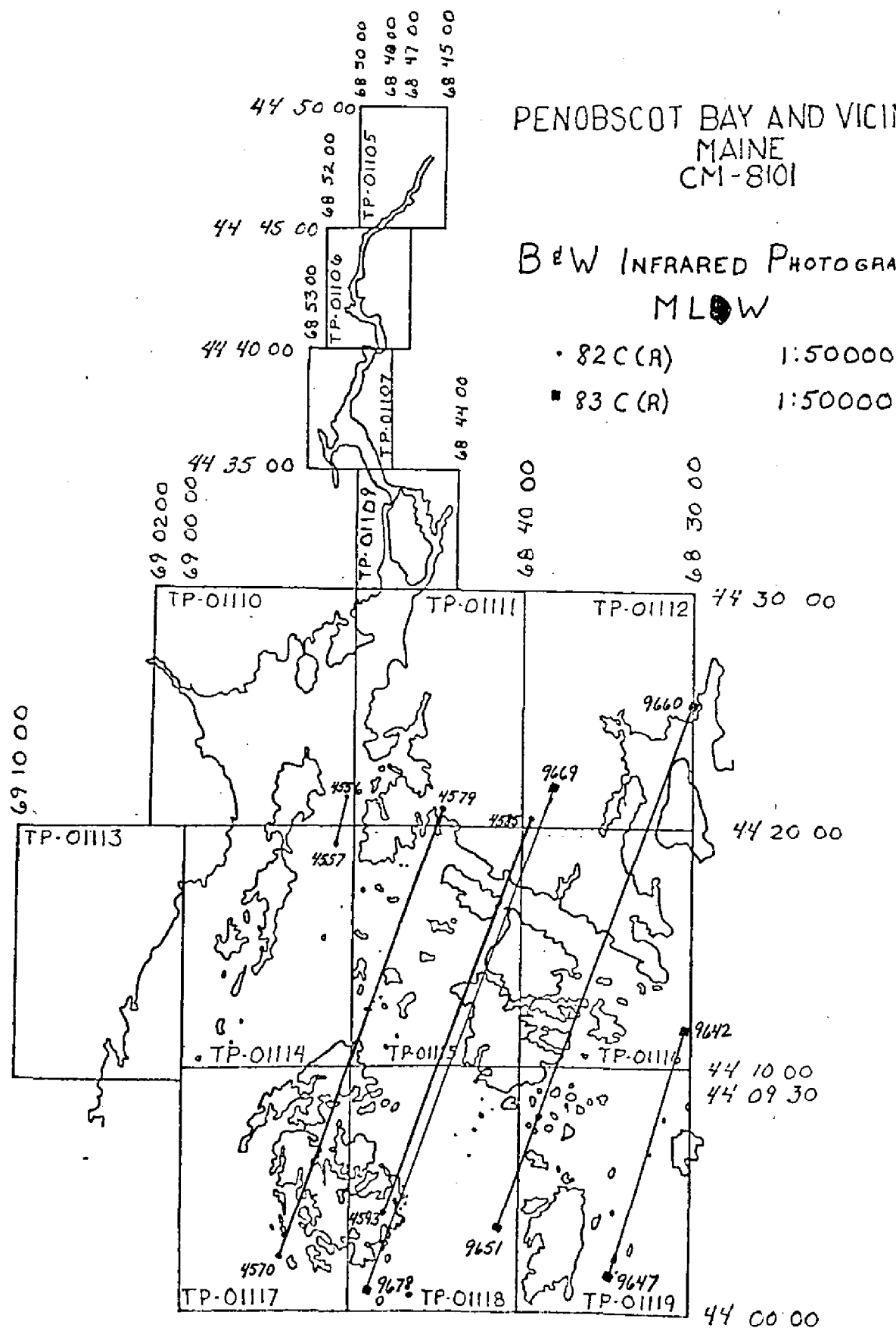
▲ POINTS HELD IN THE BLOCK ADJUSTMENT

PENOBSCOT BAY AND VICINITY  
MAINE  
CM-8101  
BRIDGING PHOTOGRAPHS  
1:50000  
82C (c)











RATIO VALUES  
CM-8101  
PENOBSCOT BAY AND VICINITY, MAINE

1:50,000            Color Bridging            Ratio Value

82-C(C) 3603 thru 3615	2.537
3648 thru 3662	2.530
3682 thru 3684	2.527
3705 thru 3714	2.547

1:50,000 Black and White Infrared

82-C(R) 3933 thru 3945	2.522
3949 thru 3960	2.238
3969 thru 3977	2.540
4106 thru 4116	2.584
3895 thru 3897	2.550
3918 thru 3928	2.549

MLW

82-C(R) 4562 thru 4564	2.524
4569 thru 4579	2.538
4585 thru 4593	2.534
83-C(R) 9642 thru 9647	2.523
9651 thru 9660	2.527
9669 thru 9678	2.520

# DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETTIC DATUM		ORIGINATING ACTIVITY	
TP-01119		CM-8101		N.A. 1927		Coastal Mapping Unit AMC, Norfolk, VA	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE <u>Maine</u> ZONE <u>Eastern</u>		GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE		REMARKS
BASE, 1945	440683 1006	614100	X=		$\phi$ 44° 00' 17.38"		
			Y=		$\lambda$ 68° 39' 26.07"		
ISLE AU HAUT CHURCH SPIRE, 1868	440683 1083	612141	X=		$\phi$ 44° 04' 25.279"		
			Y=		$\lambda$ 68° 38' 04.511"		
HALIBUT ROCKS LIGHT, 1944	440683 1070		X=		$\phi$ 44° 08' 02.673"		
			Y=		$\lambda$ 68° 31' 33.757"		
COLBY LEDGE BEACON, 1934	440683 1034		X=		$\phi$ 44° 07' 24.569"		
			Y=		$\lambda$ 68° 35' 36.006"		
ISLE' AU HAUT LIGHTHOUSE, 1934	440683 1084		X= 460,073.37		$\phi$ 44° 03' 52.78"		
			Y= 84,355.17		$\lambda$ 68° 39' 06.86"		
			X=		$\phi$		
			Y=		$\lambda$		
			X=		$\phi$		
			Y=		$\lambda$		
			X=		$\phi$		
			Y=		$\lambda$		
			X=		$\phi$		
			Y=		$\lambda$		
			X=		$\phi$		
			Y=		$\lambda$		
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE		
LISTED BY F. Margiotta		DATE 1/84	LISTING CHECKED BY R. Kravitz		DATE May 1984		
HAND PLOTTING BY Cordomat		DATE	HAND PLOTTING CHECKED BY		DATE		

## COMPILATION REPORT

TP-01119

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. Instrument compilation was used to delineate shoreline and interior detail based upon office interpretation of the 1:50,000 scale bridging/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 waterline. 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 NOAA Form 76-36B. The color compilation photography was adequate. The quality of the infrared photography was poor with regards to identifying precise image points common to the compilation photographs. Consequently, ratio infrared MLW photographs were primarily controlled by instrument delineation of shoreline detail.

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, Part II.

33 - SUPPLEMENTAL DATA

None.

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 waterline was compiled from office interpretation of the compilation color photographs. The tide coordinated MHW infrared photographs were used to complement the shoreline delineation. No MHW infrared ratio photographs were provided.

Although the scale of photography was (1:50,000), an attempt was made to distinguish between the ledge and rocky areas. Foreshore areas of scattered rocks were generally represented by individual rocks. The term "RKY" was used to classify foreshore areas of dense rocks and boulders in lieu of numerous rock symbols. The ledge symbol was used in areas of rock density and where the ledge was apparent.

TP-01119

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument methods as described in item #31. Both the 1:50,000 scale MHW and MLW photographs were used to assist in interpretation.

In order to graphically compile the approximate mean low waterline as described in item #31, the MLW infrared photographs were ratioed as follow:

83 C(I) 9643 - 9647, 2.523 times  
83 C(I) 9651 - 9654, 2.527 times

37 - LANDMARKS AND AIDS

There are 2 charted landmarks and 8 charted navigational aids within the mapping limits of this manuscript. Among these, 1 landmark and 4 aids 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

Deer Isle Maine, dated 1942, scale 1:62,500.

47 - COMPARISON WITH NAUTICAL CHARTS

13315, 8th edition, dated January 14, 1984, scale 1:20,000; 13313, 16th edition, dated May 3, 1980, scale 1:40,000; 13306, 19th edition, dated March 1982, scale 1:40,000; 13305, 24th edition, dated February 13, 1982, scale 1:40,000; 13303, 9th edition, dated April 23, 1983, scale 1:40,000; 13302, 14th edition, dated February 26, 1983, scale 1:80,000; 13312, 17th edition, dated May 2, 1981, scale 1:80,000.

TP-01119

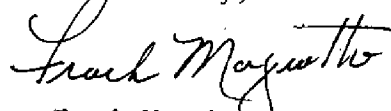
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

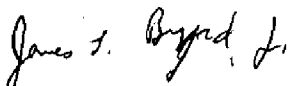
None.

Submitted by,



Frank Margiotta  
Cartographic Technician  
April 1984

Approved,



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

REVIEW REPORT TP-01119  
SHORELINE

61. GENERAL STATEMENT

Aerotriangulation and compilation operations for this project were segmented in order to meet production schedules. This map represents one of six 1:20,000 scale maps designated as Part III for project CM-8101, Penobscot Bay and Vicinity, Maine.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS quadrangle Deer Isle, Maine, 1:62,500 scale, dated 1942.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

Hydrographic support data was prepared and submitted for proposed hydrographic activity.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 13315, scale 1:20,000, 8th edition, dated January 14, 1984; 13313, scale 1:40,000, 16th edition, dated May 3, 1980; 13306, scale 1:40,000, 19th edition, dated February 13, 1982; 13302, scale 1:80,000, 14th edition, dated February 26, 1983; and 13312, scale 1:80,000, 17th edition, dated May 2, 1981.

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, AMC

Approved,

*Robert L. Ladd*  
Chief, Photogrammetric Section, Rockville

*Ronald K. Brewer*  
Chief, Photogrammetry Branch,  
Rockville

May 2, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8101 (Penobscot Bay, Maine)

TP-01119

Ames Pond  
Bare Island  
Barter Island Ledges  
Battery (island)  
Bay Ledge  
Big Brewster (island)  
Bills Island  
Birch Point  
Black Ledges  
Bold Island  
Bold Island Ledge  
Boxam Cove  
Boxam Ledges  
Buckle Island  
Burnt Island  
Burnt Island Thorofare  
Burnt Ledge  
Camp Island  
Channel Rock (1)  
Channel Rock (2)  
Clam Islands  
Colby Ledge  
Coombs Islands  
Coot Islands  
Deer Island Thorofare  
Deer Isle  
Devil Island  
Doliver Island  
Dow Ledges  
Drunkard Ledge  
Duck Harbor  
Eastern Ear  
Eastern Ear Ledge  
Eastern Head  
Enchanted Island  
Ewe Island  
Flake Island  
Flea Island  
Fog Island  
George Head Island  
George Head Ledge  
Gooseberry Island  
Great Spoon Island  
Green Island

Green Ledge  
Grog Island  
Grog Ledge  
Gulf of Maine  
Gunning Rock  
Haddock Ledge  
Halfway Rock  
Halibut Rocks  
Harbor Island  
Hardwood Island  
Haskell Ledge  
Hat Island  
Hat Island Ledge  
Head Harbor  
Hells Half Acre (island)  
Horseman Ledge  
Horseman Point  
Humpkins Ledge  
Isle au Haute <sup>GNH</sup>  
Isle au Haute (locality)  
Isle au Haute Thorofare  
Jericho Bay  
Keeler Rock  
Kimball Head  
Kimball Island  
Little Camp Island  
Little George Head Island  
Little McGlathery Island  
Little Spoon Island  
Long Point  
Lond Pond  
Lookout (locality)  
Lower Head  
McGlathery Island  
Marshall Island  
Marsh Cove  
Marsh Cove Head  
Marsh Cove Ledges  
Merchant Island  
Merchant Row  
Millet Island  
Moores Harbor  
Moores Harbor Ledge  
Moores Head  
Mouse Island

Nathan Island	Shabby Island
No Mans Island	Shingle Island
<del>North Popplestone Island</del> (North Popplestone Ledge)	Southern Mark Island
Old Cove	Southern Mark Island Ledge
Pell Island	South Popplestone Ledge
Phoebe Island	Spirit Ledge
Point Lookout	Sprout Island
Pond Point	Spruce Island
Popplestone Point	Staple Point
Potato Island (1)	Steve Island
Potato Island (2)	Swans Island
<del>Rabbit Ear</del> (Rabbits Ear)	The Cow Pen
Richs Cove	The Seal Trap
Richs Ledge	The Shivers
Richs Point	Three Bush Island
Robinson Point	Toothacher Bay
Rock Island	Trial Point
Roebuck Ledge	Turnip Yard
Rosebud Island	Two Bush Island
Round Island	Webb Cove
Russ Island	Western Ear
Saddleback	Western Ear Ledge
Saddleback Island	Western Head
<del>St. Helens Ledge</del> (St. Helena Ledge)	West Point
Sand Cove	Whaleback Ledge
Sand Island	Wheat Island
Scott Island	White Ledge
Seal Ledges	Wreck Island
Airy Ledge	York Island
Merchant Harbor	York Ledges
Sam Slick Ledge	
White Horse	
Ram Island	
Black Horse	

Approved by:

*Charles E. Harrington*

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division



[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	F. Margiotta
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require</b> 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
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent</b> <b>entirely, or in part, upon control established</b> <b>by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	F. Margiotta
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> 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	<b>III. TRIANGULATION STATION RECOVERED</b> 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 <b>II. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

