

TP-01114

TP-01114

NOAA FORM 76-35 (3-76)	
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. TP-01114	Edition No. 1
Job No. CM-8101	
Map Classification CLASS III (FINAL)	
Type of Survey SHORELINE	
LOCALITY	
State MAINE	
General Locality PENOBSCOT BAY	
Locality ISLESBORO	
1982 TO 19	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP-01114	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS III (FINAL)	
				<input type="checkbox"/> REVISED		JOB <del>XXX</del> CM-8101	
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				Control March 24, 1982			
Compilation April 20, 1983							
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION Transverse Mercator Projection				4. GRID(S)			
				STATE Maine		ZONE East	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY				L. Harrod		March 1983	
				D. Norman		March 1983	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat PLOTTED BY				L. Harrod		March 1983	
				D. Norman		March 1983	
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY				R. Kravitz		May 1983	
INSTRUMENT: Wild B-8 CHECKED BY				W. McLemore, Jr.		May 1983	
SCALE: 1:20,000 CHECKED BY				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				R. Kravitz		May 1983	
METHOD: Smooth Drafted CHECKED BY				W. McLemore, Jr.			
				NA			
SCALE: 1:20,000 HYDRO SUPPORT DATA BY				R. Kravitz		May 1983	
				W. McLemore, Jr.		May 1983	
5. OFFICE INSPECTION PRIOR TO FINAL REVIEW BY				W. McLemore, Jr.		June 1983	
6. APPLICATION OF FIELD EDIT DATA BY				NA			
				NA			
7. COMPILATION SECTION REVIEW BY				W. McLemore, Jr.		June 1983	
8. FINAL REVIEW BY				J. Hancock		June 1983	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		June 1983	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				R. Kelly		Mar. 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				E. DAUGHERTY		Nov 1984	

NOAA FORM 76-36B  
(3-72)CM-8101  
TP-01114  
**COMPILATION SOURCES**U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY**1. COMPILATION PHOTOGRAPHY**

CAMERA(S) Wild R.C. 10 (C) (C = 88.46 mm)		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES * <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY **				ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
* 82 C(C) 3816-3822	6/27/82	12:48	1:50,000	+4.1 above MLW	
* 82 C(C) 3729-3735	6/27/82	11:48	1:50,000	+1.7 above MLW	
* 82 C(C) 3575-3577	6/27/82	08:49	1:50,000	+0.2 above MLW	
** 82 C(I) 4538-4540	8/22/82	07:54	1:50,000	-0.8 below MLW	
** 82 C(I) 4557-4562	8/22/82	08:14	1:50,000	-0.4 below MLW	
** 82 C(I) 4574-4576	8/22/82	08:32	1:50,000	0.0 MLW	
** 82 C(I) 3869-3872	7/2/82	08:24	1:50,000	-1.0 below MHW	
** 82 C(I) 3897-3901	7/2/82	08:42	1:50,000	-1.1 below MHW	
** 82 C(I) 3921-3923	7/2/82	08:58	1:50,000	-1.2 below MHW	
Mean Tide Range = 10.1 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 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 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 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-01110	TP-01115	TP-01117	TP-01113
REMARKS *Junctions could not be made at the time of compilation with TP-01117 and TP-01115 as these manuscripts have not been ruled by the Aerotriangulation Section.			

TP-01114

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY      Photo Party 62	Robert S. Tibbetts	5/82
2. HORIZONTAL CONTROL	RECOVERED BY R. D. James	5/22/82
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY R. D. James	5/22/82
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY NA	
	LOCATED (Field Methods) BY NA	
	IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Premarked (Paneled)		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
82C(C)3576	Temperance 1860 (Paneled direct)		NA

## 3. PHOTO NUMBERS (Clarification of details)

NA

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

NA

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

## 7. SUPPLEMENTAL MAPS AND PLANS

NA

## 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:

NOAA forms 76-53 (CSI Cards)

Three forms 277 (Tide Staff Location Books)

Six NOAA forms 76-77 (Leveling Record Books - Tide Station)

## RECORD OF SURVEY USE

TP-01114

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Review, Class III	June 1983	Final Class III Map No field edit performed	June 1983	June 1983

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

(NUMBER pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1			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 Records indicated below will be forwarded to the Federal Records Center upon completion of the project.

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)

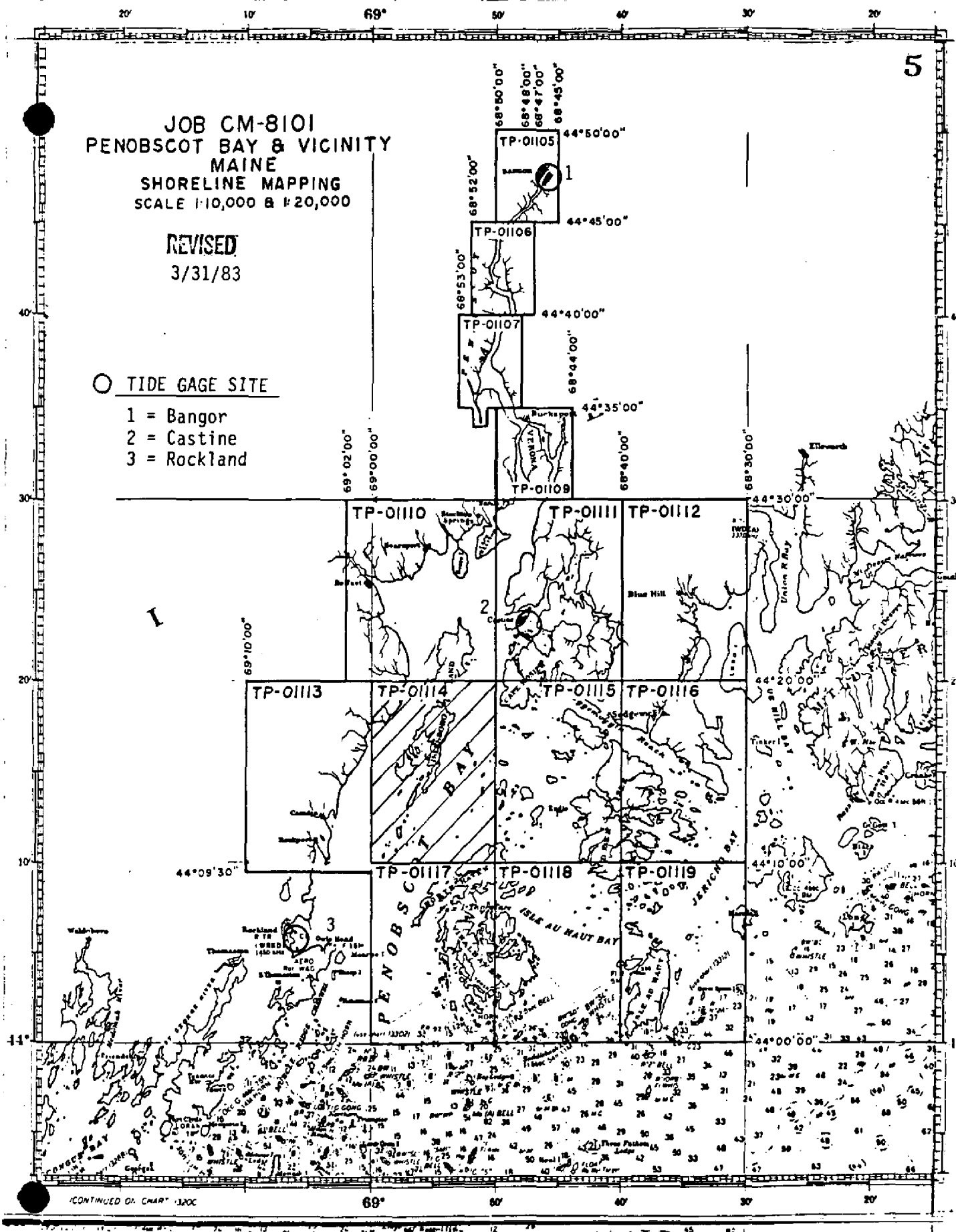
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL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

○ TIDE GAGE SITE

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



(CONTINUED ON CHART 13200)

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01114

This 1:20,000 scale final Class III shoreline map is one of four maps designated as Part II of project CM-8101, Penobscot Bay and vicinity, Maine. Aerotriangulation and compilation operations for the entire 14cm map project have been segmented in order to meet production schedules.

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

This final Class III map features the shoreline along the southern portion of Islesboro Island and the various chain of scattered island extending south to Mark Island.

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. The black and white infrared photographs required for MLW delineation and to complement the establishment of the MHW line were taken July/August 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 June 1983. Compilation included the use of MHW and MLW tide-coordinated infrared photographs. Refer to the Compilation Report for specific usage of this photography.

Field edit has not been accomplished for this map.

Final review was performed at the Atlantic Marine Center in June 1983. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch. Also a Notes to Hydrographer print was prepared for hydrographic activity.

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01114

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-01114

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 One  
1984

AREA COVERED

The area covered by this report is the shoreline bordering the Penobscot River, south to Rockport and the northwestern portion of Penobscot Bay. Four 1:10,000 scale manuscripts (TP-01105 through TP-01107 and TP-01109) and four 1:20,000 scale manuscripts (TP-01110, TP-01111, TP-01113, and TP-01114) cover this area.

METHOD

Five 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 these strips. Once bridged, a block adjustment was used to provide the final ground positions for compilation of the 1:20,000 scale manuscripts and for controlling the 1:30,000 scale bridging photographs.

The 1:30,000 scale color photographs had a dual purpose; one, as the primary compilation source for the 1:10,000 scale manuscripts; secondly, to locate a series of premarked images to be used for future hydrographic surveys in the area.

1:50,000 scale and 1:30,000 scale black-and-white infrared photographs were ratioed to be used 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 proved to be adequate for completion of this portion of the project. Tie points from the 1:50,000 scale bridging photographs to the 1:30,000 scale bridging photographs proved to be suitable control for the latter. Control meets the National Standards of Map Accuracy.

SUPPLEMENTAL DATA

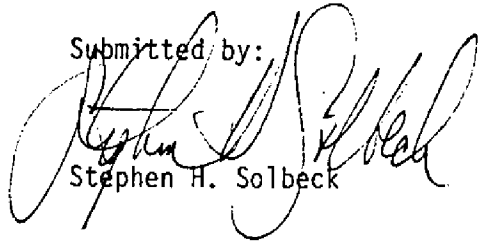
USGS quadrangles were used to provide vertical control for the strip and block adjustments.

Nautical Charts were used to locate aids and landmarks.


PHOTOGRAPHY

The coverage, overlap, and quality of the photographs proved to be adequate for completion of the project.

Submitted by:

  
Stephen H. Solbeck

Approved and Forwarded:



Don O. Norman  
Chief, Aerotriangulation Unit

CM-8101

Penobscot Bay, Maine

Fit to Control

1:50,000

Block Adjustment

STATION NAMEVALUES IN FEETXY

Dyer (1861) Sub Point	729101 $\Delta$	0	-.02
West Stockton White Church Spire	825100	+2.84	-1.14
Sub Point	825101 $\Delta$	0	0
Sparks House Chimney Sub Point	827101 $\Delta$	-.01	-.01
Rockland Breakwater Lighthouse	570100	+2.16	+.67
Sub Point	570101 $\Delta$	-.03	-.06
Mount Battle Memorial Observatory			
Sub Point	573101 $\Delta$	0	0
Temperance	576100 $\Delta$	0	0
Kittredge Rm 1	592101 $\Delta$	0	0
Heron Neck Lighthouse Sub Point	724101 $\Delta$	0	0
Castine Orthodox Church Spire	742100	+1.43	+1.69
Sub Point	742101 $\Delta$	0	0
Blue Hill Lookout Tower	702100	-.47	-.26
Sub Point	702101 $\Delta$	0	0
Stubbs Sub Point	587101 $\Delta$	-.09	+.04
Bangor Radio Station WLBZ			
Tallest Mast of 2	591141	+1.56	+2.54
Bangor Unitarian Church Spire	590144	+3.87	-.67
Bangor Tank, Flagpole	590143	+3.45	+2.27
Bangor Dow AFB Standpipe	590149	+3.30	+3.06
Bangor Radio Station WABI			
East Mast	590147	+1.06	+1.65
Bangor Radio Station WABI			
West Mast	590146	+3.98	+.70

2

Orrington Church Spire	588141	+4.72	-.43
Winterport Church Clock Spire	586141	+1.35	+3.84
Steel Ledge Monument Light			
(Steel Ledge Beacon)	579151	-5.57	+9.21
Stone Beacon	734151	-2.15	+6.15
Duck Trap Church Spire	576141	+1.57	+6.40
Negro Island Lighthouse	573151	+5.52	-4.77
Camden White Brick Stack	573141	+3.71	+1.32
Rockport School House Clock Tower	572141	+1.82	-2.70
Rockport White Square Cupola	572142	+1.75	+2.06
The Graves Light	573152	-.50	-2.14
Indian Island Lighthouse	572144	-.72	-.57
North Haven Water Tower	727149	-1.51	+2.59
Odens Ledge Beacon	827151	-5.70	-1.70
Fort Pt. Ledge Beacon	731501	-.64	+1.42
Coombs Pt. Water Tank	823141	-1.52	+1.94
Dice Head Lighthouse	823443	-3.08	-4.14
N.E. Pt. Light	573153	-1.79	-10.63
Bucksport Silver Standpipe	828142	-3.05	2.01
Bucksport E. Maine Conference			
Seminary Cupola	828139	-1.65	+1.79
Hamden Congressional Church Spire	589141	+10.09	+2.89
Goose Rocks Lighthouse	727145	-8.28	-5.05

△ STATIONS HELD IN THE BLOCK ADJUSTMENT

Ratio Values  
CM-8101  
Penobscot Bay and Vicinity, Maine

1:50,000    Color Bridging                      Ratio Value

82C(C) 3562 and 3563	2.530
82C(C) 3572 thru 3581	2.533
82C(C) 3731 thru 3735 (odd)	2.546
82C(C) 3736 thru 3748 (even)	2.546
82C(C) 3703 thru 3705	2.532
82C(C) 3817 thru 3826	2.540

1:50,000    Black-and-White Infrared

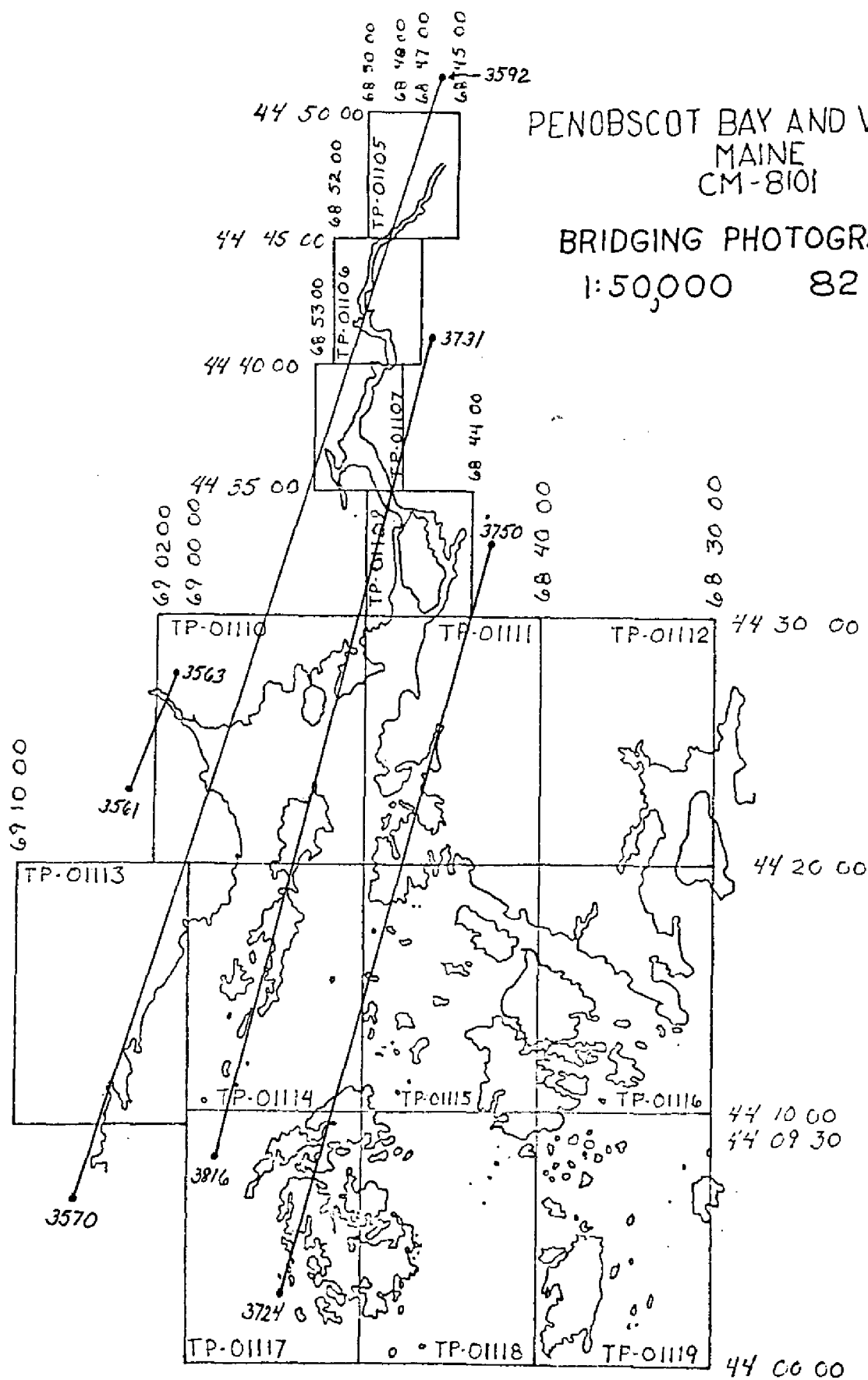
82C(R) 3857 thru 3859	2.547
82C(R) 3865 thru 3876	2.543
82C(R) 3897 thru 3906	2.550
82C(R) 3914 thru 3923	2.549
82C(R) 3935 thru 3936	2.512
82C(R) 4237 thru 4239	2.598
82C(R) 4535 thru 4545	2.521
82C(R) 4552 thru 4562	2.524
82C(R) 4573 thru 4583	2.538
82C(R) 4585 thru 4586	2.531

Ratio Values  
CM-8101  
Penobscot Bay and Vicinity, Maine

1:30,000 Color Bridging	Ratio Value
82Z(C) 5737 thru 5742	3.008
82Z(C) 5747 thru 5752	3.009
82Z(C) 5755 thru 5761	3.000
82Z(C) 5790 thru 5796	3.007
82Z(C) 5829 thru 5833	2.900
82B(C) 7972 thru 7976	2.935

1:30,000 Black-and-White Infrared

82C(R) 4070 thru 4076	3.065
82C(R) 4079 thru 4083	3.033
82C(R) 4088 thru 4092	3.053
82C(R) 4096 thru 4100	3.050
82C(R) 4121 thru 4128	3.064
82C(R) 4132 thru 4137	3.009
82C(R) 4142 thru 4148	3.050
82C(R) 4151 thru 4157	3.022
82C(R) 4160 thru 4164	3.039
82C(R) 4496 thru 4504	3.102

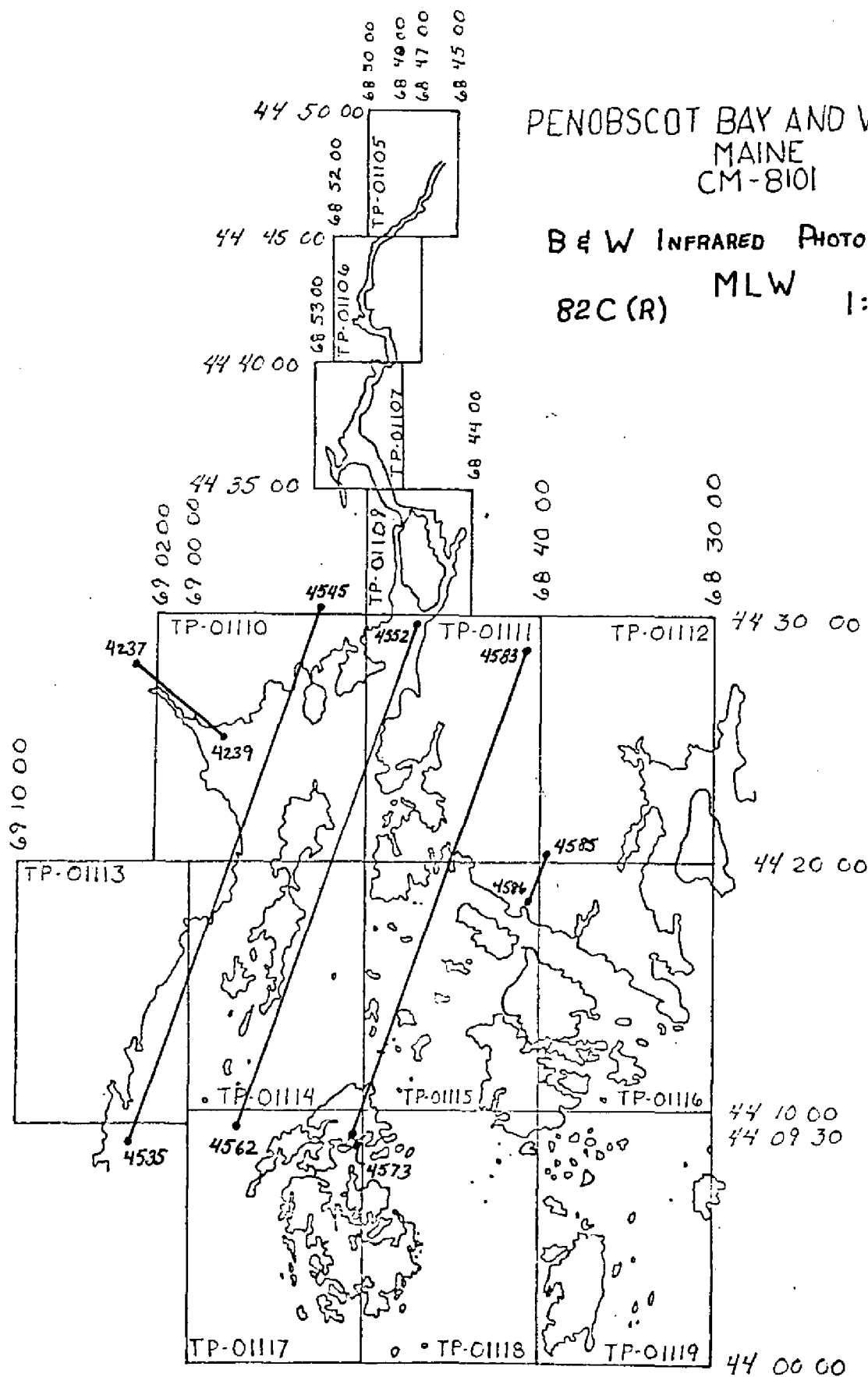


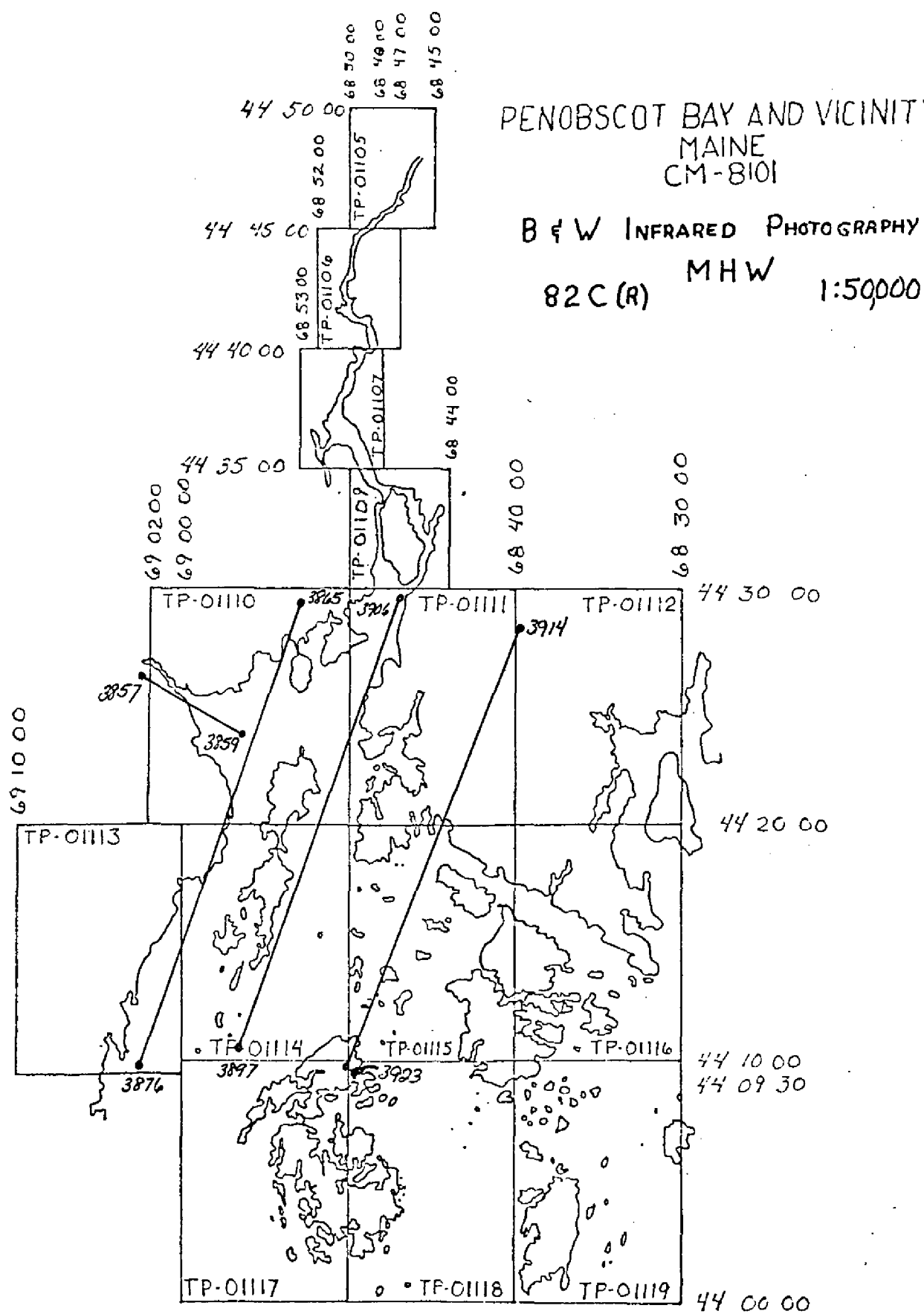


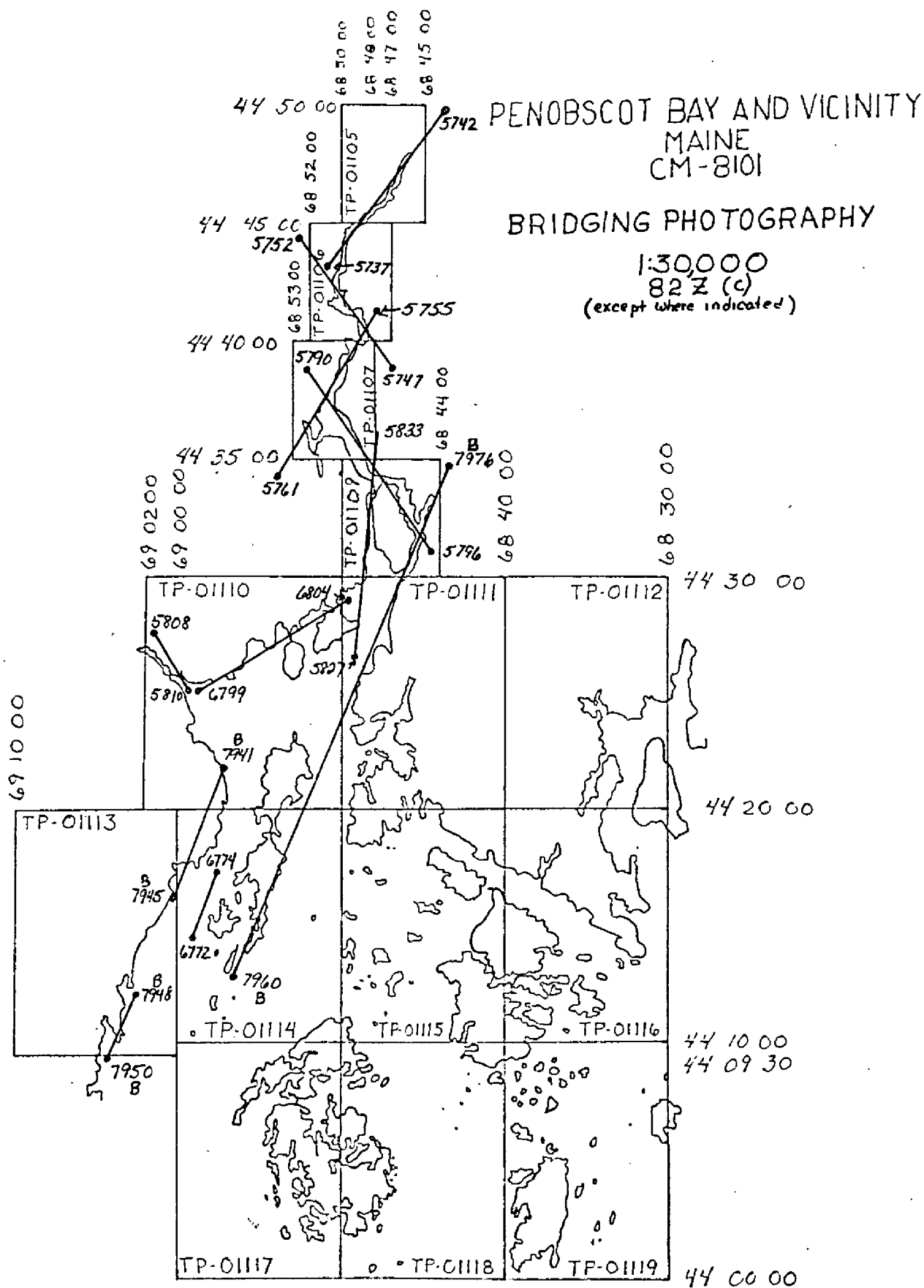
# PENOBSCOT BAY AND VICINITY MAINE CM-8101

B & W INFRARED PHOTOGRAPHY

82C(R) MLW 1:50,000

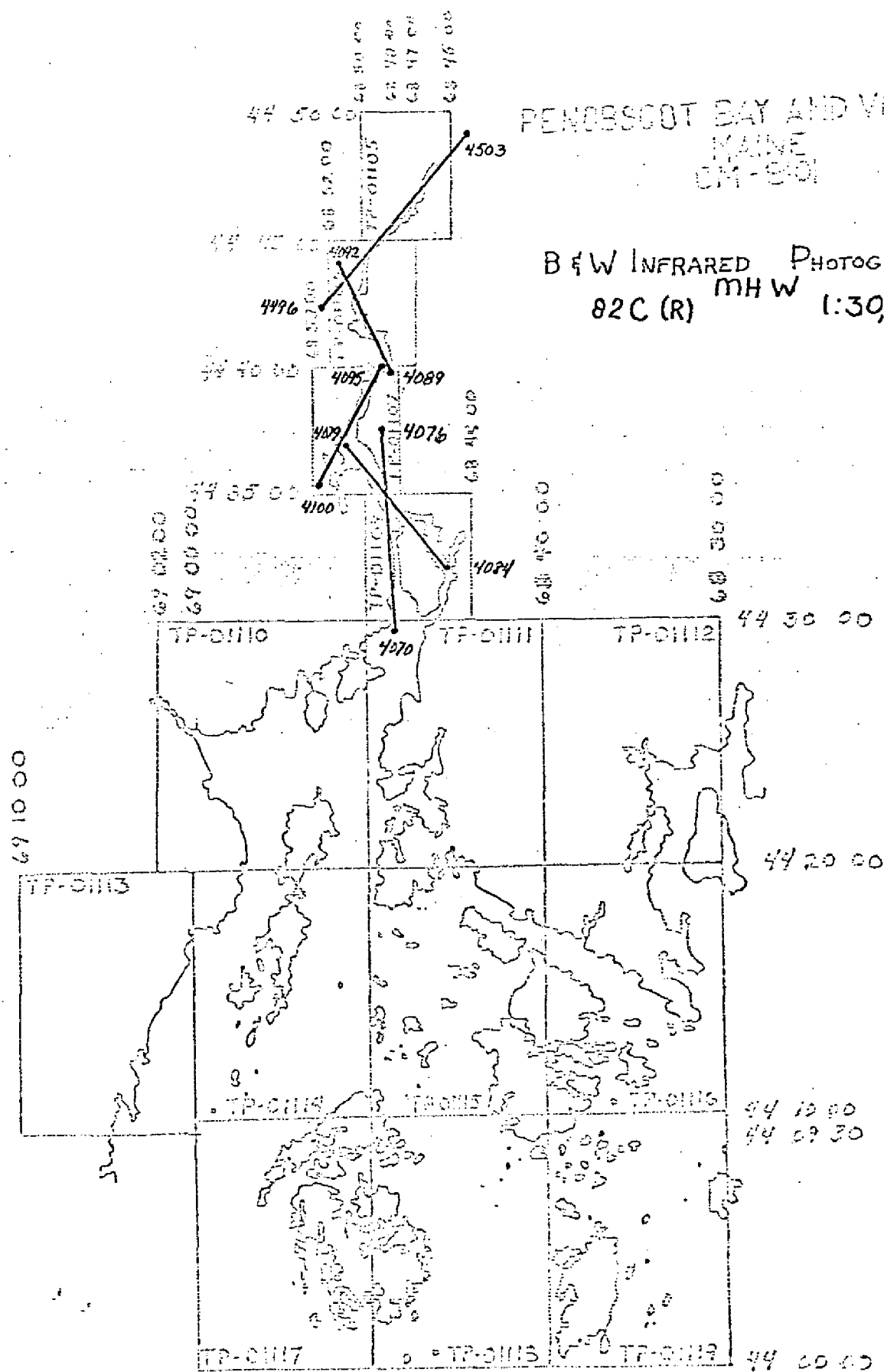


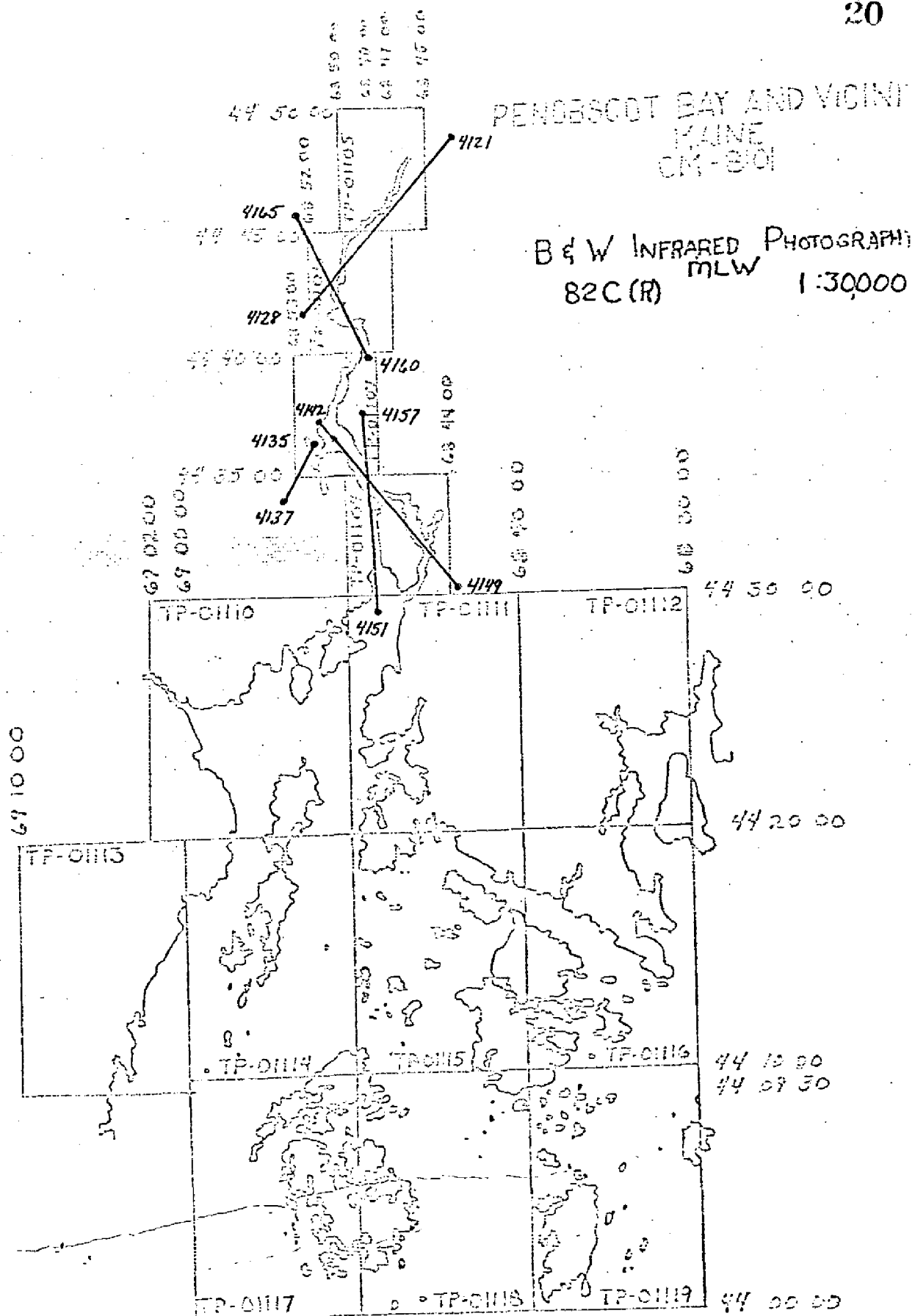




PENOBSCOT BAY AND VICINI  
MAINE  
CM-901

B & W INFRARED PHOTOGRAPH  
82C (R) MH W 1:30000





## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-01114	JOB NO. CM-8101	GEODETIC DATUM NA 1927		ORIGINATING ACTIVITY Coastal Mapping Unit AMC, Norfolk, VA	
		STATE	ZONE	φ LATITUDE	λ LONGITUDE
TURNERS HOUSE CHIMNEY, 1861	440683 STA 1153	153	X=	φ 44° 10' 03.33"	
			Y=	λ 68° 52' 15.00"	
MARK ISLAND POINT SPINDLE, 1904	440683 STA 1100	92	X=	φ 44° 10' 12.437"	
			Y=	λ 68° 58' 59.59"	
MOUSE ISLAND LEDGE SPINDLE, 1911	440683 STA 1106	89	X=	φ 44° 12' 07.28"	
			Y=	λ 68° 56' 28.71"	
HOUSE WITH WHITE ROOF, NORTH GABLE, 1911	440683 STA 1080	86	X=	φ 44° 15' 22.86"	
			Y=	λ 68° 54' 47.19"	
ISLESBORO, SOUTH CHURCH SPIRE, 1862	440683 STA 1088	83	X=	φ 44° 17' 23.797"	
			Y=	λ 68° 54' 31.464"	
GREEN DIAMOND-SHAPED GABLE, 1911	440683 STA 1069	82A	X=	φ 44° 18' 15.185"	
			Y=	λ 68° 53' 17.080"	
SPRUCE HEAD, HOUSE FLAGPOLE, 1911	440683 STA 1139	80	X=	φ 44° 18' 31.87"	
			Y=	λ 68° 57' 49.25"	
TEMPERANCE, 1860	440683 STA 1151	576100	X=	φ 44° 19' 04.940"	
			Y=	λ 68° 58' 40.170"	
ISLESBORO, BAPTIST CHURCH SPIRE, 1862	440683 STA 1086	77	X=	φ 44° 19' 56.111"	
			Y=	λ 68° 53' 56.983"	
PENDLETON, 1934	440683 STA 1116		X=	φ 44° 18' 04.381"	
			Y=	λ 68° 53' 25.069"	
COMPUTED BY			COMPUTATION CHECKED BY		DATE
LISTED BY R. R. Kravitz		DATE 4/4/83	LISTING CHECKED BY W. T. McLeMores, Jr.		DATE 5/20/83
			HAND PLOTTING CHECKED BY		DATE

## COMPILATION REPORT

TP-01114

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 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 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, the ratio infrared photographs, were primarily controlled by the instrument delineation of shoreline detail.

32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated July 1983.

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 water line was compiled from office interpretation of the compilation color photographs and was complemented by the tide coordinated MHW infrared photographs. To make an accurate check with the 1:20,000 scale manuscript, these photographs were ratioed as follows:

82 C(I) 3869-3872, 2.543 times  
82 C(I) 3897-3901, 2.550 times  
82 C(I) 3924-3923, 2.549 times

TP-01114

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 water line as described in item #31, the MLW infrared photographs were ratioed as follows:

82 C(I) 4538-4540, 2.521 times  
82 C(I) 4557-4562, 2.524 times  
82 C(I) 4574-4576, 2.538 times

37. LANDMARKS AND AIDS

Within the limits of this manuscript, there are no charted landmarks and 2 charted aids to navigation. During the aerotriangulation operation, one aid was not visible and the other aid, Grindel Pt. Light 3, was located photogrammetrically. However, during compilation, the light position could not be adequately verified from the photographs. After consultation with Final Review, a decision was made not to map this aid. Significant factors for rejecting the aerotriangulation position were the unreliable identification due to the small photo scale (1:50,000), the reference descriptions included in the Light List and Coast Pilot did not place the aid in its proper surrounding detail, and the location varied with the charted position.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

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

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles:

Islesboro, Maine, dated 1973, scale 1:24,000  
Vinalhaven, Maine, dated 1941, scale 1:62,500



TP-01114

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey Charts:

13302, 1:80,000 scale, 13th edition, dated March 28, 1981  
13305, 1:40,000 scale, 24th edition, dated February 13, 1982  
13306, 1:40,000 scale, 19th edition, dated February 13, 1982  
13309, 1:40,000 scale, 22nd edition, dated February 20, 1982  
13310, 1:40,000 scale, 29th edition, dated February 20, 1982

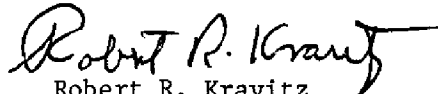
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

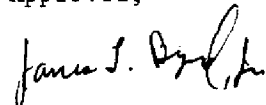
None

Submitted by,

  
Robert R. Kravitz  
Cartographic Technician

Date: May 18, 1983

Approved,

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

## REVIEW REPORT TP-01114

## SHORELINE

61. GENERAL STATEMENT:

Aerotriangulation and compilation operations for this project have been segmented in order to meet production schedules. This map represents one of four 1:20,000 scale priority maps designated as project CM-8101, Part II, Penobscot Bay and vicinity, Maine.

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 U.S.G.S. quadrangles:

Islesboro, Maine, dated 1972, 1:24,000 scale  
Cape Rosier, Maine, dated 1973, 1:24,000 scale  
Vinalhaven Maine, dated 1941, 1:62,500 scale

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 anticipated hydrographic activity.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS charts:

13305, 1:40,000 scale, 24th edition, February 13, 1982  
13309, 1:40,000 scale, 22nd edition, February 20, 1982  
13302, 1:80,000 scale, 13th edition, March 28, 1981

Charts 13305 and 13309 are duplicated at the same scale and are published as Small Craft charts 13306 and 13310.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

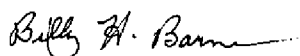
## REVIEW REPORT TP-01114

## SHORELINE

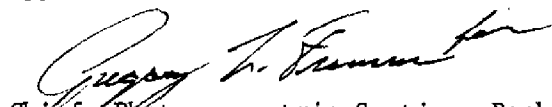
Submitted by,

Jerry L. Hancock  
Final Reviewer

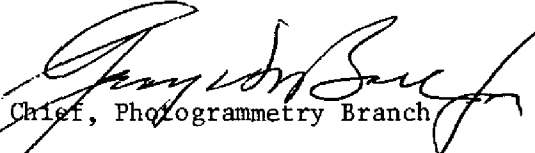
Approved for forwarding,

Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved,



Chief, Photogrammetric Section, Rockville



Chief, Photogrammetry Branch

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

CM-8101 (Penobscot Bay &amp; Vicinity, Maine)

TP-01114

Ames Cove  
Barred Islands  
Billys Shore  
Birch Point  
Bobs Point  
Bounty Cove  
Broad Cove  
Broad Point  
Buring Point  
Cals Beach  
Charlottes Cove  
Colt Head Island  
Compass Island  
Cradle Cove  
Crow Cove  
Crows Nest  
Dark Harbor  
Dark Harbor (locale)  
Duck Trap Harbor  
East Goose Rock  
Egg Rock  
Ensign Islands  
Fire Island (1)  
Fire Island (2)  
Flat Island  
Gilkey Harbor  
Gooseberry Point  
Goose Island  
Grass Ledge  
Great Spruce Head  
Grindel Point  
Hewes Point  
Horsehead Island  
Islesboro  
Islesboro Harbor  
Islesboro Island  
Job Island  
Joes Rock  
Jones Cove  
Keller Point

Kissel Point  
Lasell Island  
Lime Island  
Little Harbor  
Little Island  
Little Spruce Head Island  
Lobster Rock  
Long Ledge Cove  
Mark Island  
Middle Island  
Minot Island  
Mouse Island  
Northeast Point  
North Haven Island  
Pebble Beach  
Pendleton Point  
Penobscot Bay  
Philbrook Cove  
Philbrook Head  
Resolution Island

Sabbathday Harbor  
Saddle Island  
Scrag Island  
Seal Harbor  
Seal Island  
Seven Hundred Acre  
Island  
Shattuck Point  
Sherman Point  
Shipyard Point  
Spruce Head  
Spruce Island  
The Gut  
The Narrows  
Thorn Plum Point  
Thrumcap  
Wales Beach  
Warren Island  
Webster Head  
West Penobscot Bay  
Wrights Cove

Approved by:

*Charles E. Harrington*  
Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

Replaces C&amp;GS Form 567.

## NONFLOATING AIDS OR LEADMARKS FOR CHARTS

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

## 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)

<input checked="" type="checkbox"/> TO BE CHARTED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
<input type="checkbox"/> TO BE REVISED	Coastal Mapping Unit			
<input type="checkbox"/> TO BE DELETED	AMC, Norfolk, VA	Maine	Islesboro	4/83

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

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM	METHOD AND DATA (See instructions)
	CM-8101	TP-01114	NA 1927	POSITION

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		OFFICE
		° /	"	° /	"	
				D. M. Meters	D. P. Meters	

DAYBEACON	Mark Island Point Daybeacon	44	10.2	68	59.0	Not Identifiable

	Grindel Point Light 3					Not Identifiable
LIGHT	44	16.9	68	56.6		

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	R. R. Kravitz
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 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>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>	
<b>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</b>	

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
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 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 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 entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	



