TP 01117

TP-01117

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-01117	1

Job No.
CM-8101

Map Classification
CLASS III (FINAL)

Type of Survey
SHORELINE

LOCALITY

State
MAINE

General Locality
PENOBSCOT BAY

Locality
VINALHAVEN

1982 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: ☐ ORIGINAL ☐ RESURVEY ☐ REVISED

SURVEY TP- 01117

MAP EDITION NO. (1)

MAP CLASS III

JOB ~~PHCM-8101~~

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Unit
AMC, 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	Feb. 2, 1983	Field	March 24, 1982
Office	Feb. 1, 1984		

II. DATUMS

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

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

3. MAP PROJECTION: Transverse Mercator Projection

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

5. SCALE: 1:20,000 — STATE; ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	S. Solbeck	Sept 1983
	LANDMARKS AND AIDS BY	S. Solbeck	Sept 1983
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	S. Solbeck	Sept 1983
	CHECKED BY	D. Norman	Sept 1983
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	R. Kravitz	Jan. 1984
	CHECKED BY	F. Mauldin	Jan. 1984
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:20,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. Kravitz	Feb. 1984
	CHECKED BY	W. McLemore, Jr.	Mar. 1984
METHOD: Smooth drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	R. Kravitz	Feb. 1984
SCALE: 1:20,000	CHECKED BY	W. McLemore, Jr.	Mar. 1984
5. OFFICE INSPECTION PRIOR TO ~~FIELD EDIT~~ Final Review	BY	W. McLemore, Jr.	Mar. 1984
6. APPLICATION OF FIELD EDIT DATA	BY	NA	
	CHECKED BY	NA	
7. COMPILATION SECTION REVIEW	BY	W. McLemore, Jr.	Mar. 1984
8. FINAL REVIEW Class III	BY	J. Hancock	Apr. 1984
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Hancock	Apr. 1984
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	C. Lewis	AUG 1984
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R.S. KORNSPAN	FEB 1985

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-01117

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild R.C. 10(C) (C=88.46mm)

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

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

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

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
82C(C) 3713 - 3714*	6/27/82	11:12	1:50,000	0.8 above MLW
82C(C) 3724 - 3731*	6/27/82	11:48	"	2.1 above MLW
82C(C) 3816 - 3817*	6/27/82	12:48	"	4.5 above MLW
82C(I) 4562 - 4563**	8/22/82	08:14	"	1.2 below MLW
82C(I) 4569 - 4574**	8/22/82	08:32	"	1.1 below MLW
82C(I) 3891 - 3897**	7/2/82	08:42	"	1.1 below MHW
82C(I) 3923 - 3928**	7/2/82	08:58	"	1.2 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 Rockland.

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 MLW infrared photographs.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS *(List only those surveys that are sources for photogrammetric survey information.)*

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-01114	TP-01118	No survey	TP-01113 *

REMARKS
* TP-01113 joins only the northern 30 seconds in latitude of this map. There is no detail to junction.

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-01117

HISTORY OF FIELD OPERATIONS

I. [X] FIELD ~~INSPECTION~~ OPERATION (Premarking) [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY	Photo Party 62	R. Tibbetts	June 1982
2. HORIZONTAL CONTROL	RECOVERED BY	P. Walbolt	June 1982
	ESTABLISHED BY	P. Walbolt	June 1982
	PRE-MARKED OR IDENTIFIED BY	P. Walbolt	June 1982
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: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Premarked (Paneled)

2. VERTICAL CONTROL IDENTIFIED
NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
82C(C) 3729	DYER, 1861 (Sub Sta. paneled)		
82C(C) 3724	HERON NECK LIGHTHOUSE, 1868 (Sub Sta. paneled)		

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 [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*)
The following records are field data submitted for the entire project:
Three forms 277 (Tide staff location books)
Six NOAA forms 76-77 (Leveling Record Books - Tide Station)
NOAA forms 76-53 (CSI Cards); 2 Field Obser. Bks. (NOAA form 76-52 & USC&GS 252)

☆ 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-01117

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	March 1984	Class III Manuscript	None	None
Final Review, Class III	April 1984	Final Class III Map No field edit performed		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER (Pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3			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

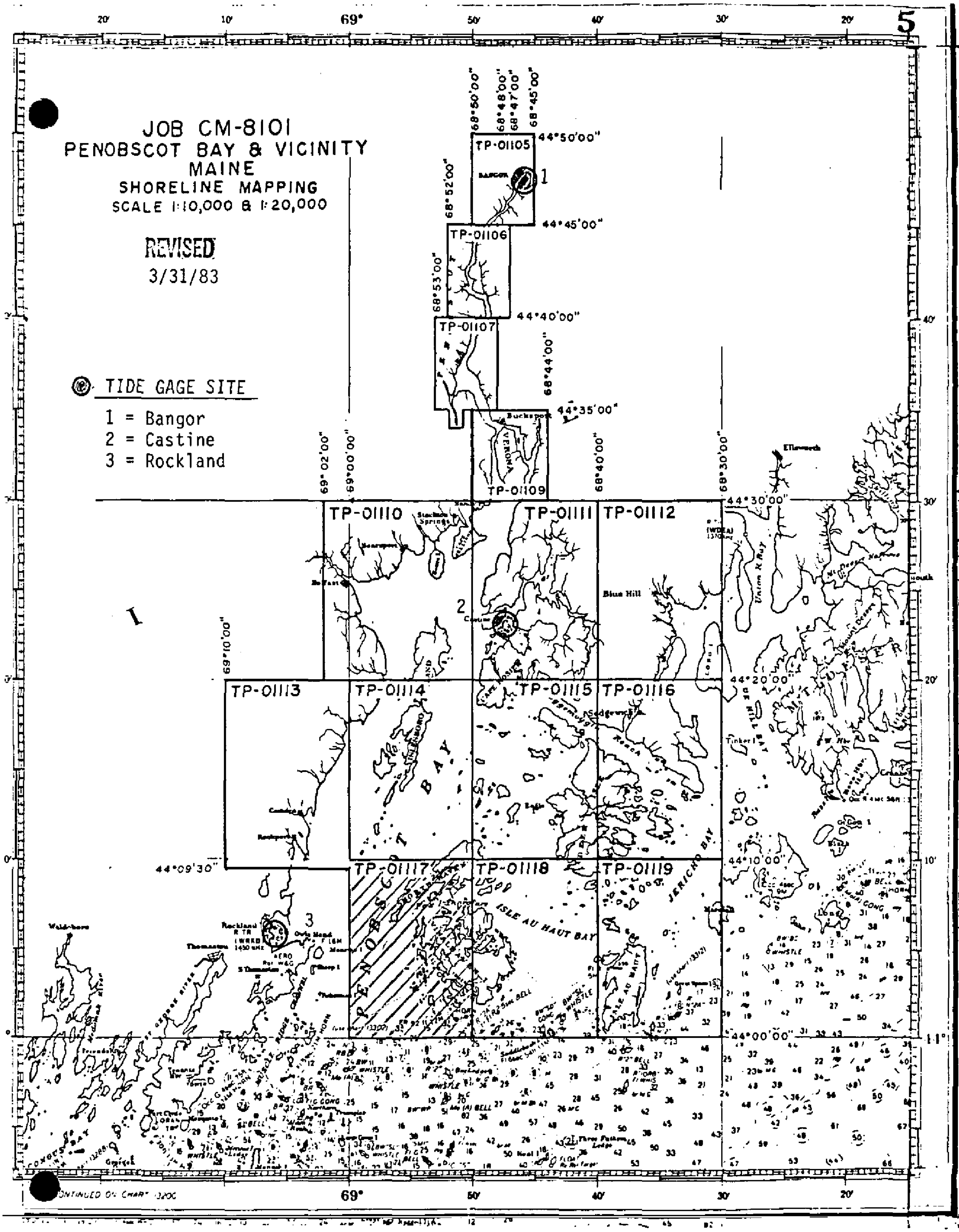
1. ☐ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☐ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL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

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

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

NOAA FORM 76-36D

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


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
TP-01105
TP-01106
TP-01107
TP-01109
TP-01110
TP-01111
TP-01112
TP-01113
TP-01114
TP-01115
TP-01116
TP-01117
TP-01118
TP-01119
44°50'00"
44°45'00"
44°40'00"
44°35'00"
44°30'00"
44°20'00"
44°10'00"
44°09'30"
44°00'00"
68°50'00"
68°48'00"
68°47'00"
68°45'00"
68°52'00"
68°53'00"
68°44'00"
68°40'00"
68°30'00"
69°02'00"
69°00'00"
69°10'00"
69°
50'
40'
30'
20'
10'
ISLE AU HAUT BAY
JERICHO BAY
BAY
Blue Hill
Ellsworth
CONTINUED ON CHART 13200

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01117

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 chart maintenance and to furnish support data for hydrographic operations.

This final Class III map features the shoreline along the western coast of Vinalhaven Island and the western portion of Fox Islands Thorofare.

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 March 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 April 1984. A Chart Maintenance Print was prepared and forwarded to the Marine Center 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-01117

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

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.

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

Don O. Norman
Chief, Aerotriangulation Unit

CM-8101

Penobscot Bay, Maine

Fit to Control

1:50,000

Block Adjustment

STATION NAME		VALUES IN FEET	
		X	Y
Dyer (1861) Sub Point	729101 △	0	-.02
West Stockton White Church Spire	825100	+2.84	-1.14
Sub Point	825101 △	0	0
Sparks House Chimney Sub Point	827101 △	-.01	-.01
Rockland Breakwater Lighthouse	570100	+2.16	+.67
Sub Point	570101 △	-.03	-.06
Mount Battle Memorial Observatory			
Sub Point	573101 △	0	0
Temperance	576100 △	0	0
Kittredge Rm 1	592101 △	0	0
Heron Neck Lighthouse Sub Point	724101 △	0	0
Castine Orthodox Church Spire	742100	+1.43	+1.69
Sub Point	742101 △	0	0
Blue Hill Lookout Tower	702100	-.47	-.26
Sub Point	702101 △	0	0
Stubbs Sub Point	587101 △	-.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

Orrington Church Spire	588141	+4.72	-.43
Winterport Church Clock Spire	586141	+.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	+.57	+6.40
Negro Island Lighthouse	573151	+5.52	-4.77
Camden White Brick Stack	573141	+3.71	+.32
Rockport School House Clock Tower	572141	+.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	+.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	+.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

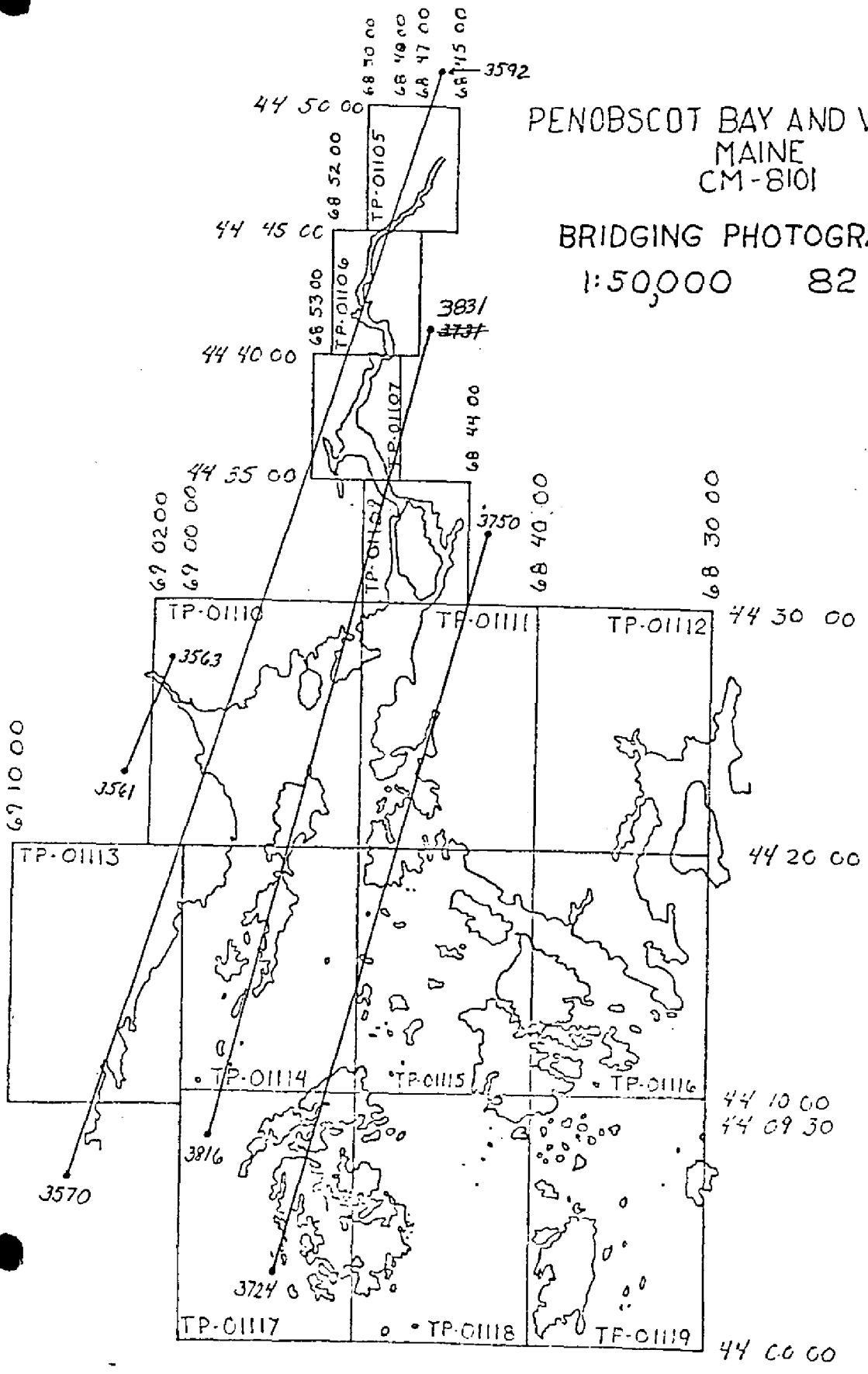
Ratio Values

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
BRIDGING PHOTOGRAPHY
1:50,000 82 C (c)
68 50 00
68 49 00
68 47 00
68 45 00
3592
44 50 00
68 52 00
TP-01105
44 45 00
68 53 00
TP-01106
3831
3731
44 40 00
TP-01107
68 44 00
44 35 00
69 02 00
69 00 00
TP-01102
3750
68 40 00
68 30 00
TP-01110
TP-01111
TP-01112
44 30 00
3563
3561
69 10 00
TP-01113
44 20 00
TP-01114
TP-01115
TP-01116
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3570
3724
TP-01117
TP-01118
TP-01119
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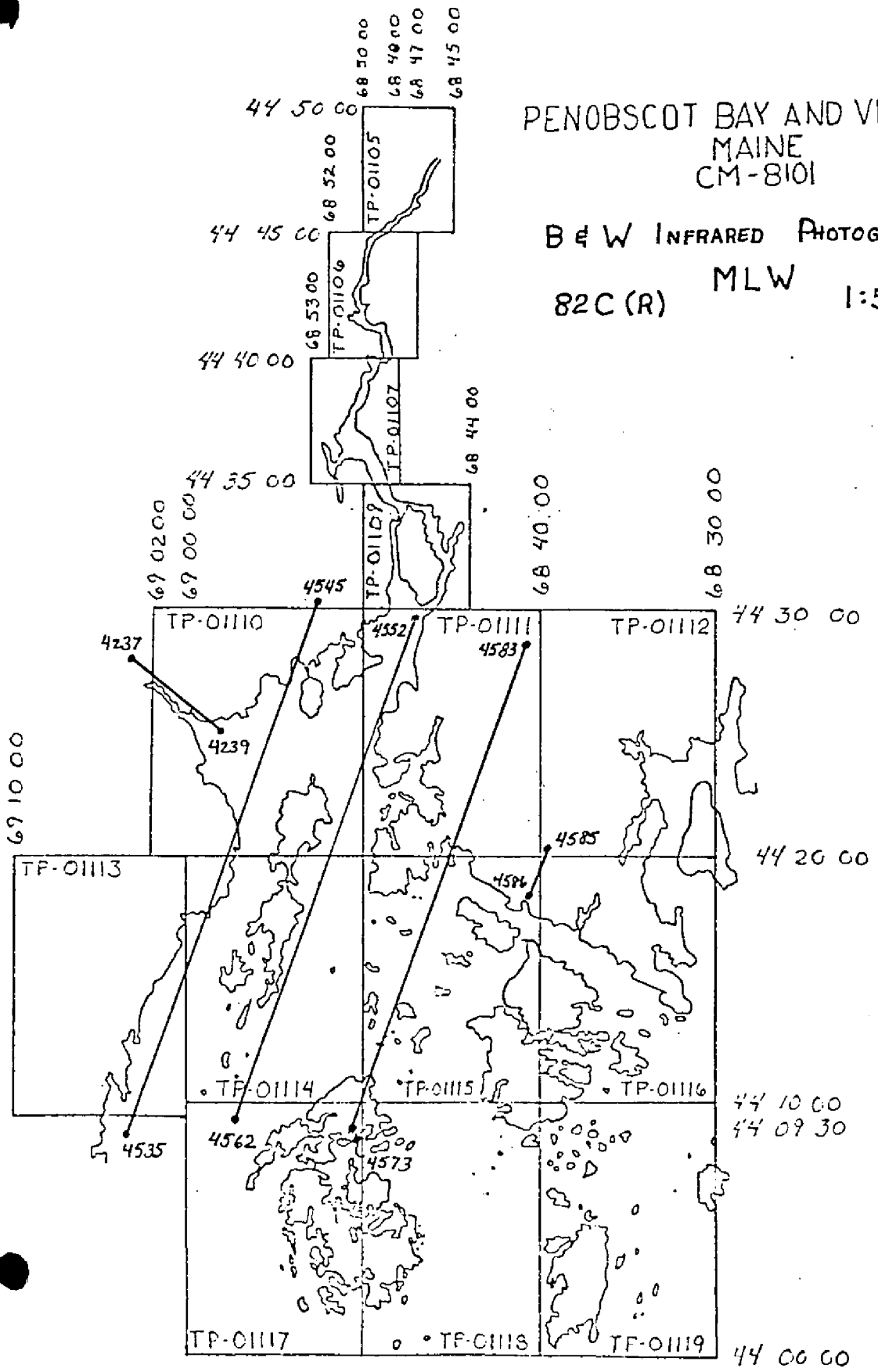
PENOBSCOT BAY AND VICINITY
MAINE
CM-8101
B & W INFRARED PHOTOGRAPHY
MLW
82C (R)
1:50,000
68 50 00
68 49 00
68 47 00
68 45 00
44 50 00
68 52 00
TP-01105
44 45 00
68 53 00
TP-01106
44 40 00
TP-01107
68 44 00
44 35 00
69 02 00
69 00 00
TP-01108
68 40 00
68 30 00
4545
4552
4583
4237
4239
TP-01110
TP-01111
TP-01112
44 30 00
69 10 00
4585
4586
TP-01113
44 20 00
TP-01114
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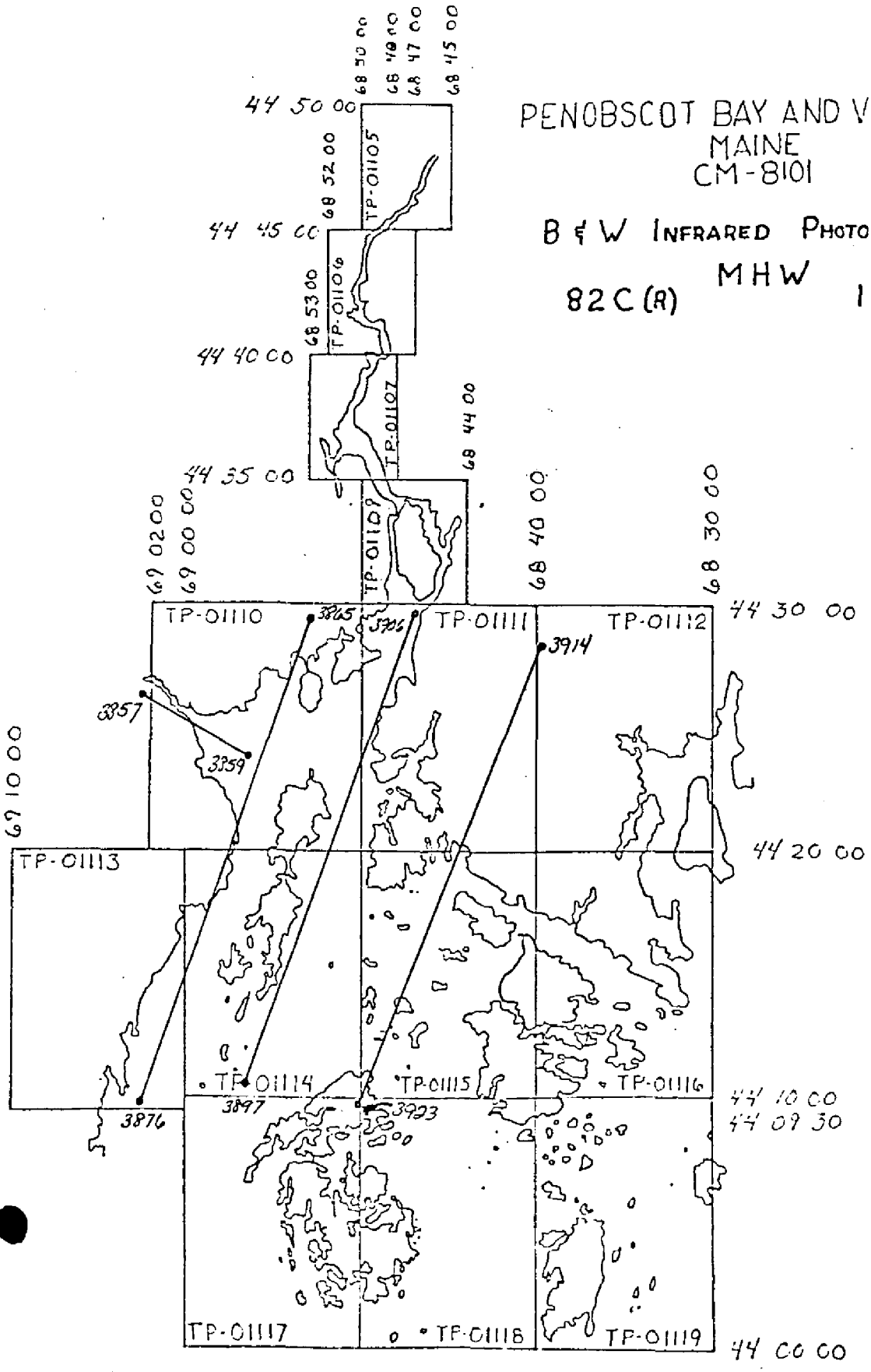
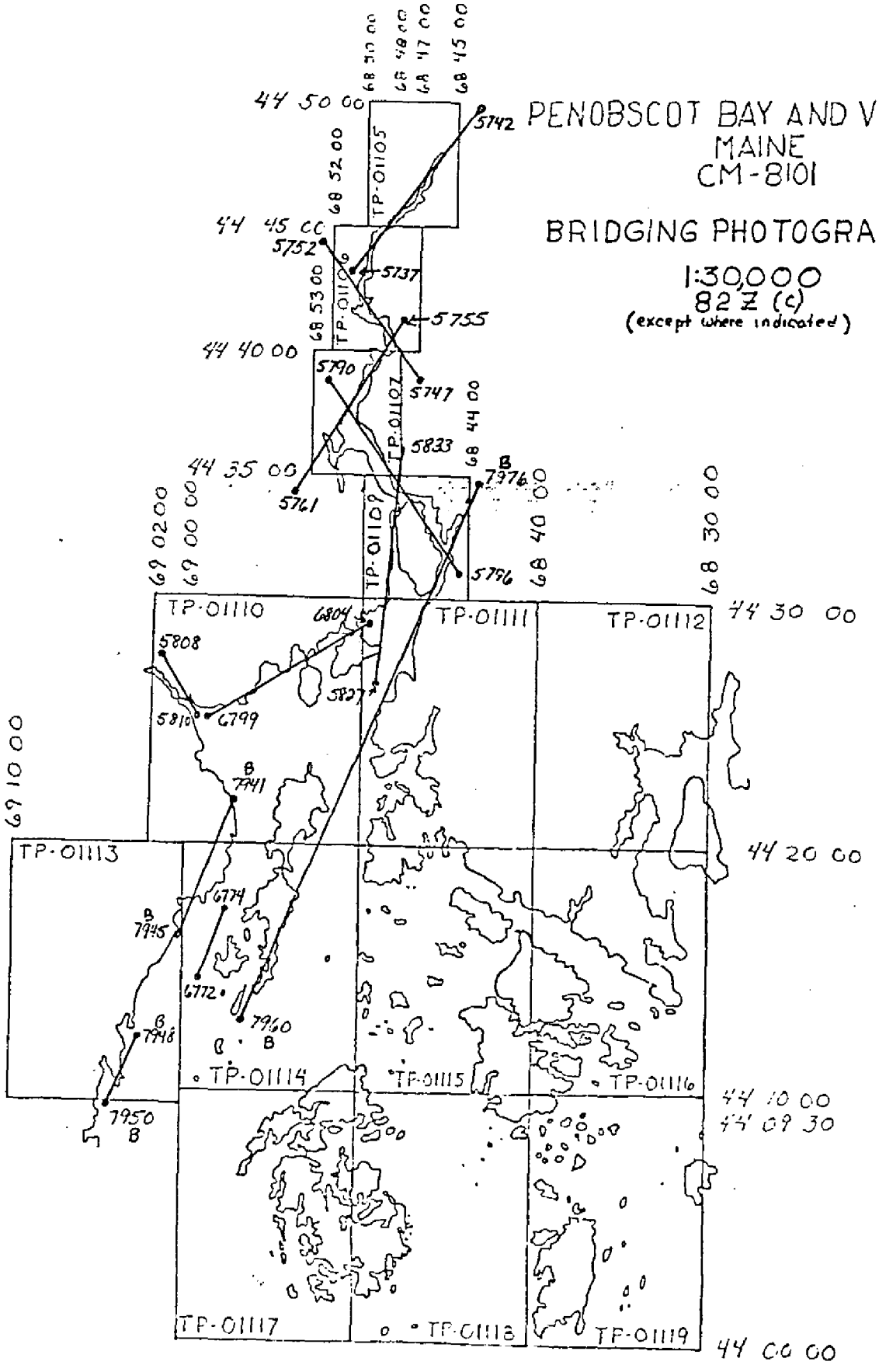
TP-01116
44 10 00
44 09 30
4535
4562
4573
TP-01117
TP-01118
TP-01119
44 00 00


PENOBSCOT BAY AND VICINITY
MAINE
CM-8101
B & W INFRARED PHOTOGRAPHY
MHW
82C(R)
1:50,000
68 50 00
68 48 00
68 47 00
68 45 00
44 50 00
68 52 00
TP-01105
44 45 00
68 53 00
TP-01106
44 40 00
TP-01107
68 44 00
44 35 00
69 02 00
69 00 00
TP-01108
68 40 00
68 30 00
TP-01110
TP-01111
TP-01112
44 30 00
3845
3906
3914
3957
3959
69 10 00
44 20 00
TP-01113
TP-01114
TP-01115
TP-01116
44 10 00
44 09 30
3897
3923
3876
TP-01117
TP-01118
TP-01119
44 00 00


PENOBSCOT BAY AND VICINITY
MAINE
CM-8101
BRIDGING PHOTOGRAPHY
1:30,000
82 Z (c)
(except where indicated)
44 50 00
44 45 00
44 40 00
44 35 00
44 30 00
44 20 00
44 10 00
44 09 30
44 00 00
69 02 00
69 00 00
68 53 00
68 52 00
68 47 00
68 45 00
68 44 00
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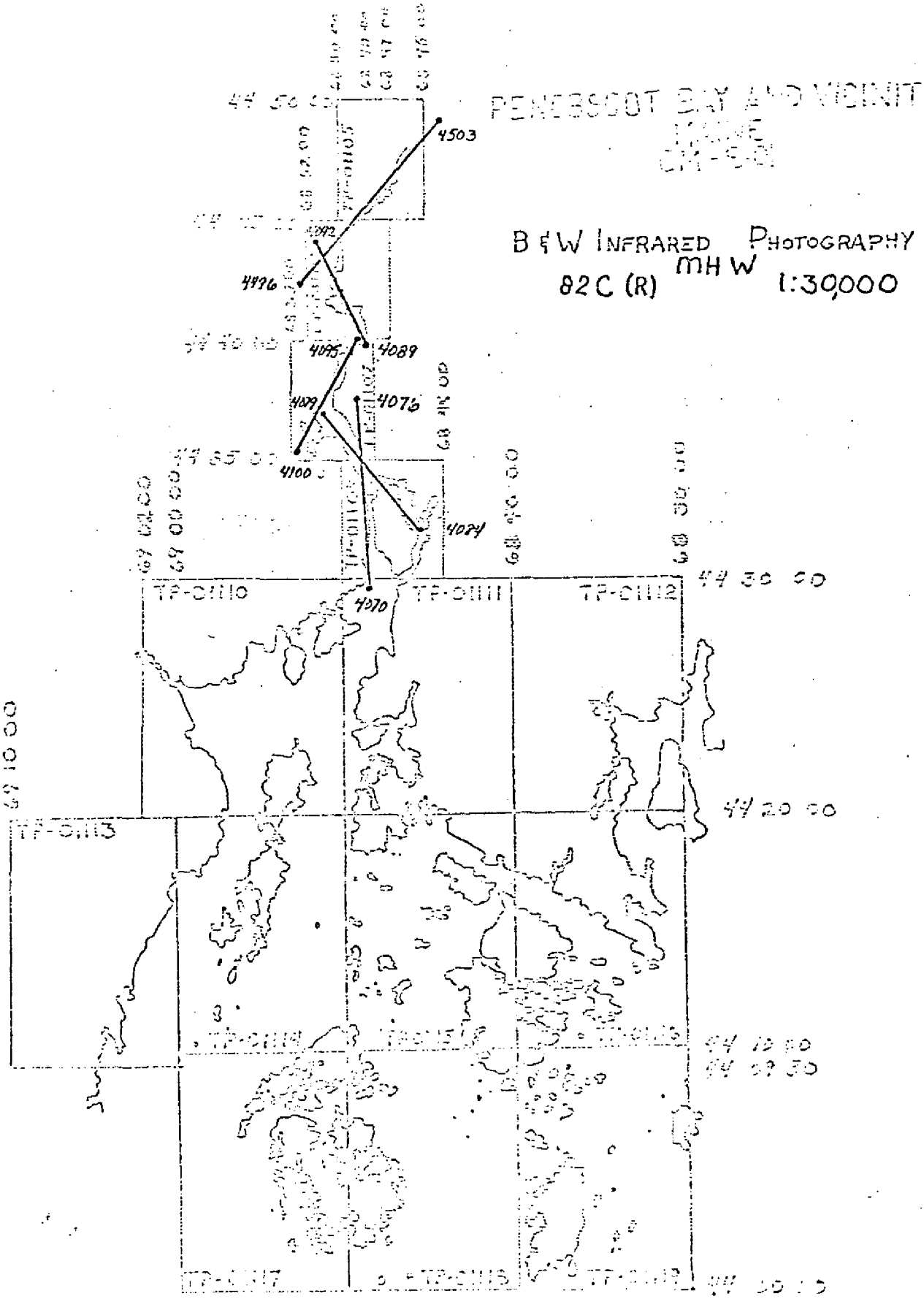
PENOBSCOT BAY AND VICINITY
B & W INFRARED PHOTOGRAPHY
82C (R) MHW 1:30,000
4503
4092
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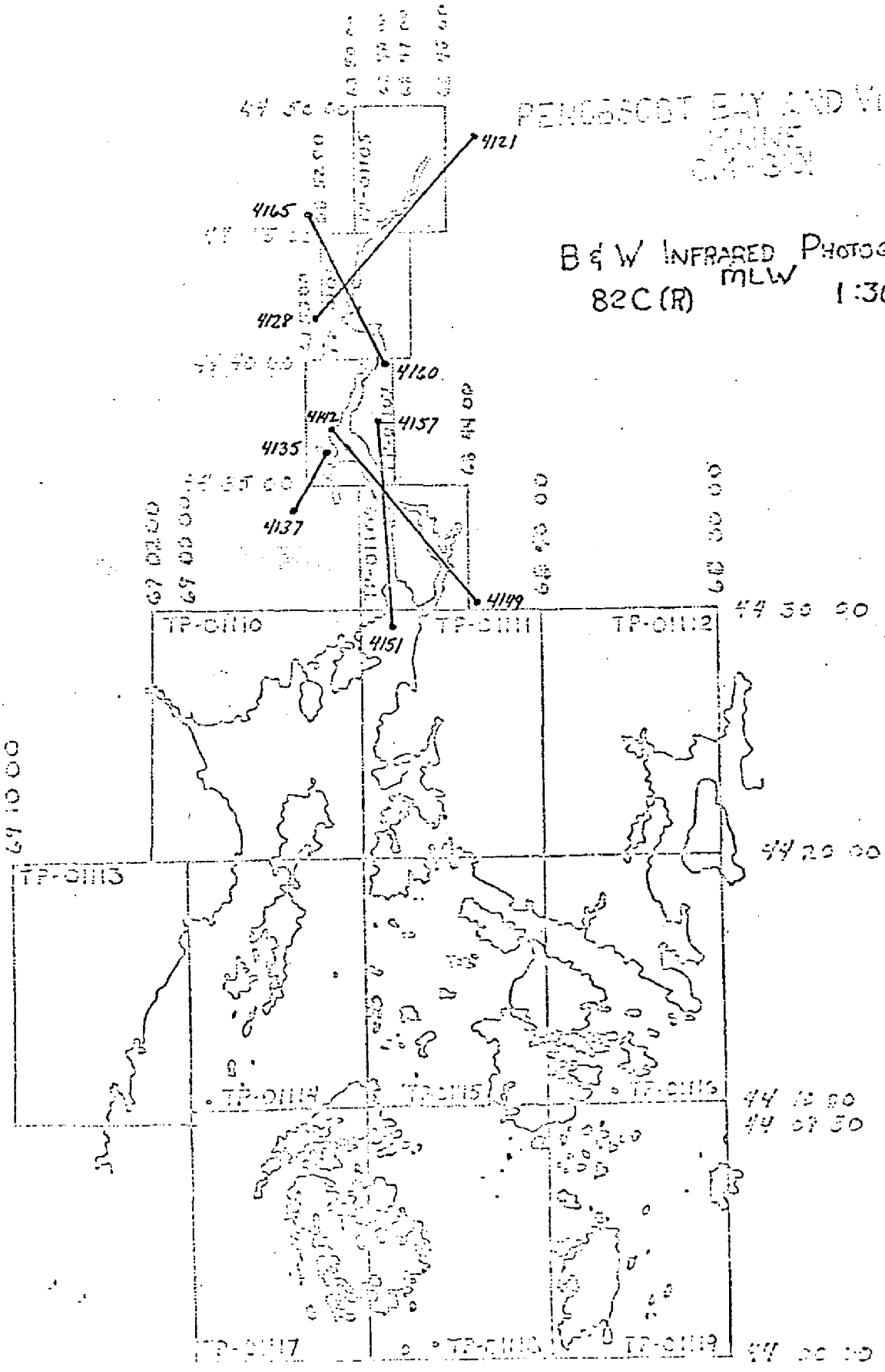
4089
4079
4076
4100
4084
4070
TP-01110
TP-01111
TP-01112
TP-01113


PENOBSCOT BAY AND VICINITY
B & W INFRARED PHOTOGRAPHY
MLW
82C (R)
1:30,000
4121
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4142
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4137
4149
4151
TP-01110
TP-01111
TP-01112
TP-01113
TP-01114
TP-01115
TP-01116
TP-01117
TP-01118
TP-01119

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

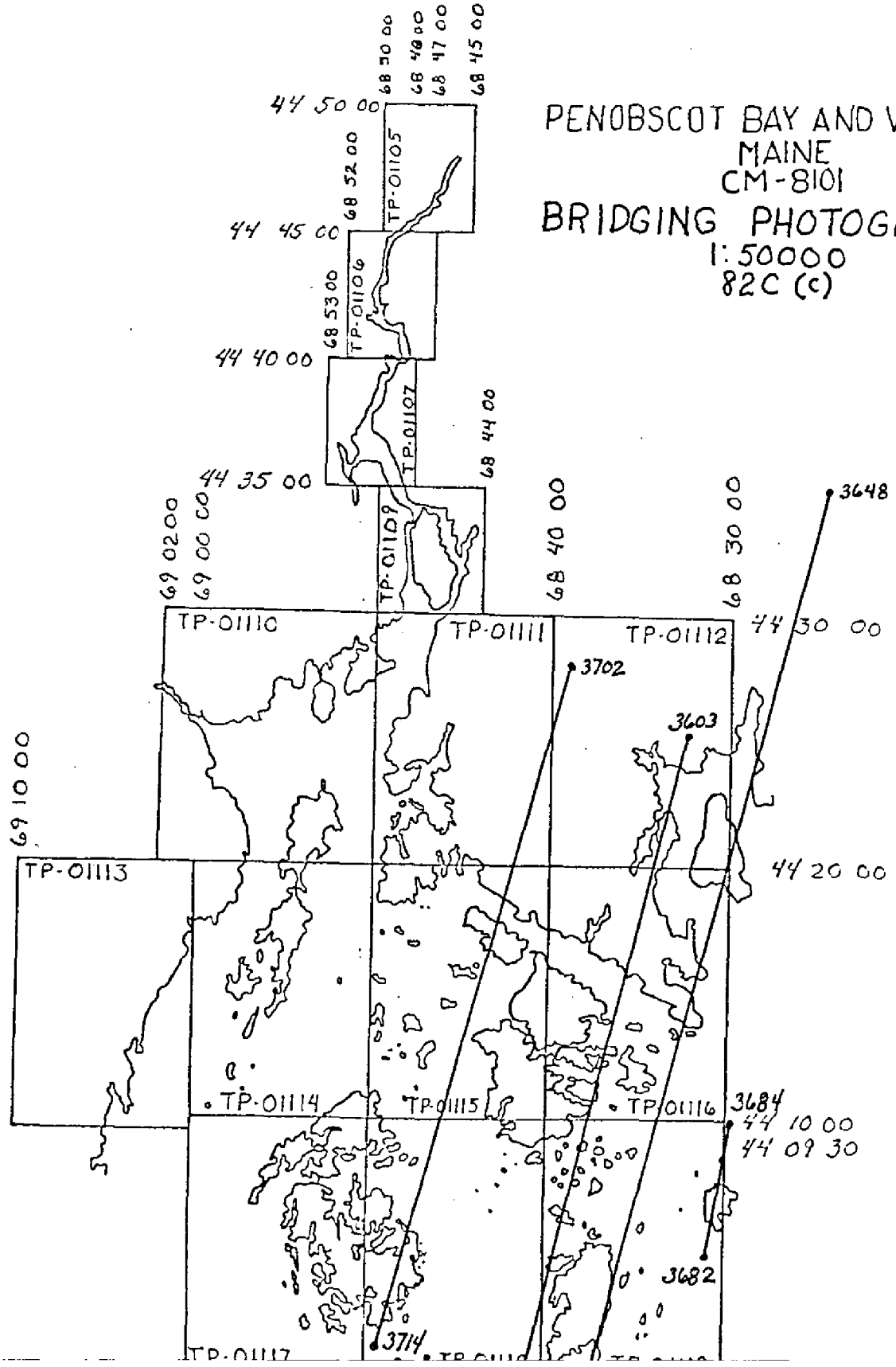
Don O. Norman
Chief, Aerotriangulation Unit

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	+.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▲	+.01	0
Heron Neck Lighthouse, Sub Point	724101▲	0	+.01
Castine Orthodox Church Spire	742100	+1.74	+1.60
Sub Point	742101▲	0	0
Blue Hill Lookout Tower			
Sub Point	702101▲	-.03	+.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	+.20
Sub Point	607101▲	-.04	+.05
Base	614100▲	+.03	+.09
Rocky, Sub Point 2	649101▲	+.06	+.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	+.82
Orrington Church Spire	588141	+4.49	-.30
Winterport Church Clock Spire	586141	+.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	+.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	+.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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MAINE
CM-8101
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44 35 00
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68 40 00
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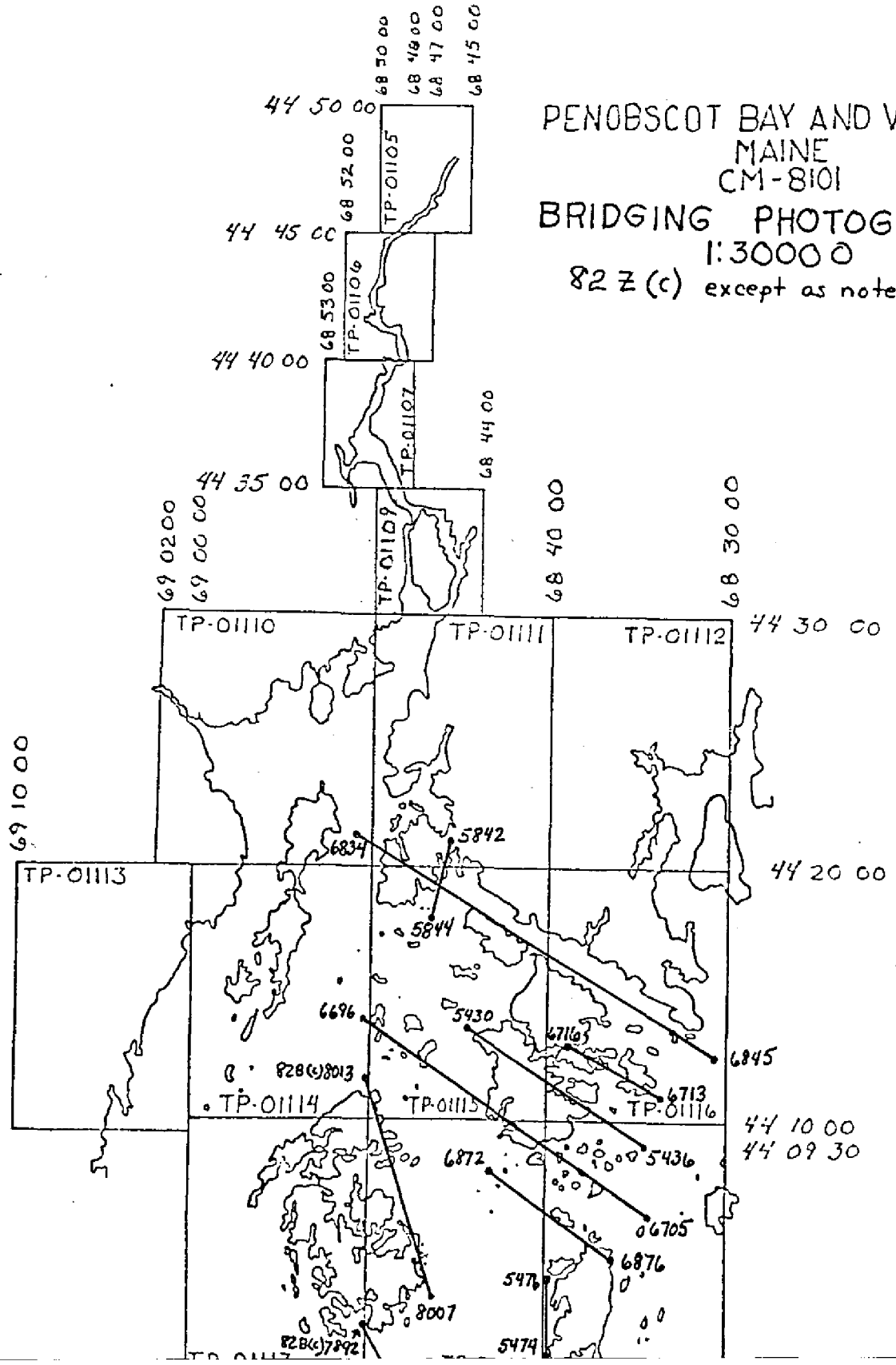
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MAINE
CM-8101
BRIDGING PHOTOGRAPHS
1:30000
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44 40 00
44 35 00
44 30 00
44 20 00
44 10 00
44 09 30
68 30 00
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68 47 00
68 48 00
68 52 00
68 53 00
68 44 00
68 40 00
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TP-01105
TP-01106
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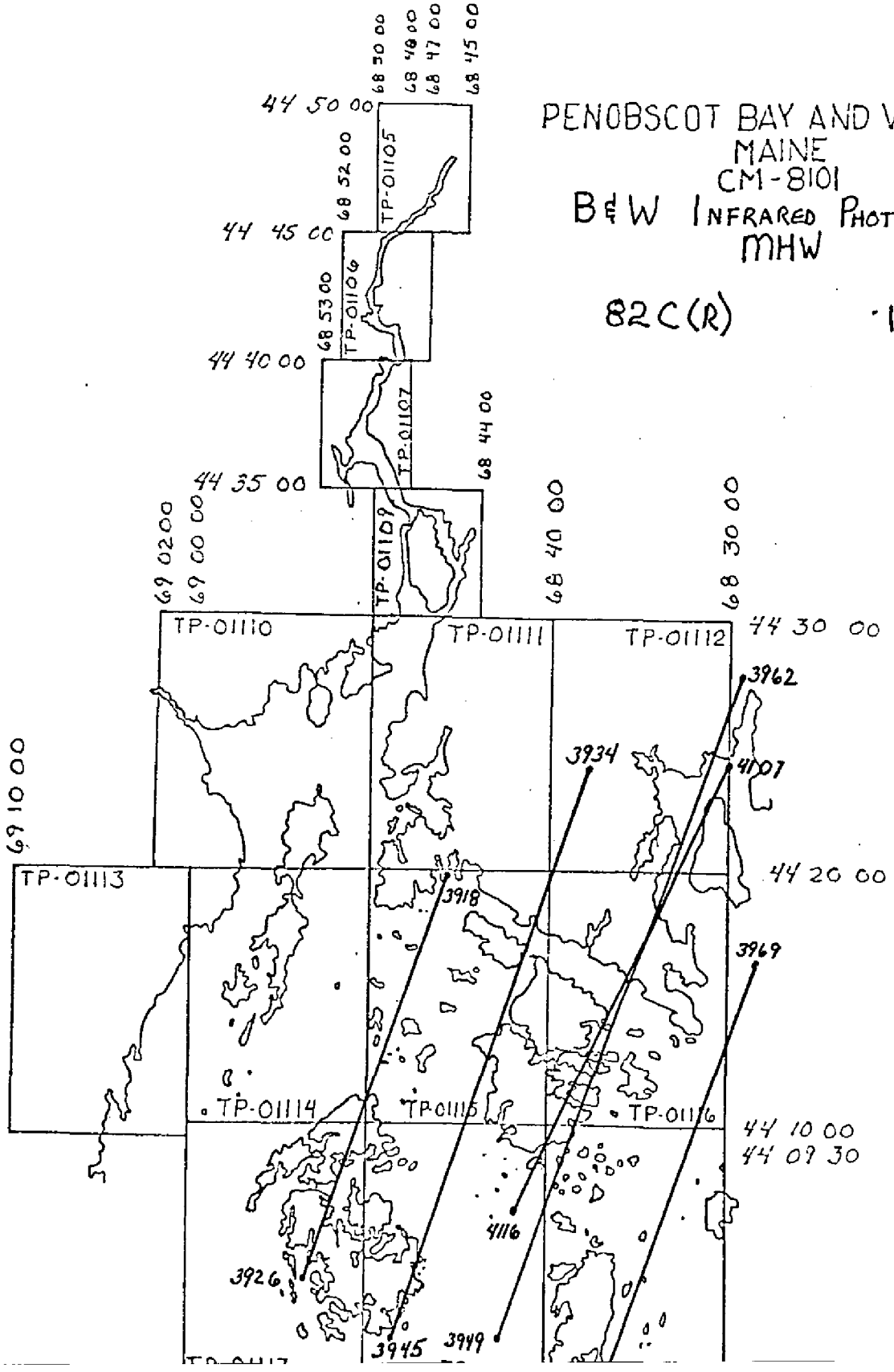
828(c)8013
828(c)7892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CM-8101
B&W INFRARED PHOTOGRAPHS
MHW
82C(R)
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44 20 00
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69 00 00
69 02 00
69 10 00
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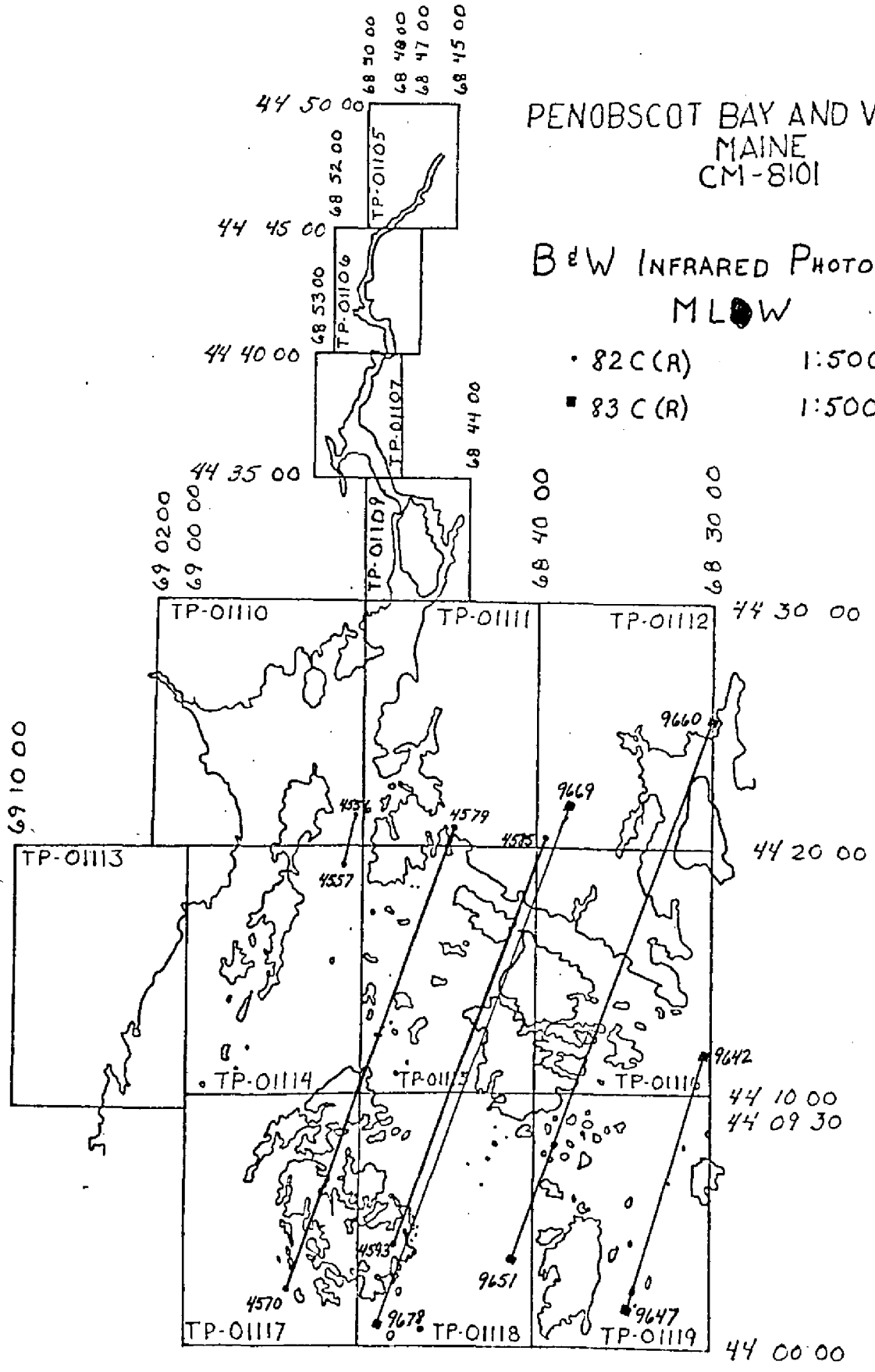
PENOBSCOT BAY AND VICINITY
MAINE
CM-8101
B & W INFRARED PHOTOGRAPHS
MLW
• 82 C (R) 1:50000
■ 83 C (R) 1:50000
68 50 00
68 48 00
68 47 00
68 45 00
44 50 00
68 52 00
TP-01105
44 45 00
68 53 00
TP-01106
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68 40 00
68 30 00
TP-01110
TP-01111
TP-01112
44 30 00
69 10 00
9660
9669
4536
4579
4575
44 20 00
TP-01113
4557
9642
TP-01114
TP-01115
TP-01116
44 10 00
44 09 30
4593
9651
4570
9678
9647
TP-01117
TP-01118
TP-01119
44 00 00

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

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-01117	CM-8101	NA 1927	Coastal Mapping Unit, AMC Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Maine ZONE EAST	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
HERON NECK LIGHTHOUSE, 1868	Quad 440683 sta 1076	724100	x=	ϕ 44 01 30.486	
			y=	λ 68 51 44.970	
NORTH HAVEN WATER TOWER, 1913	440683 sta 1113	727149	x=	ϕ 44 07 59.636	
			y=	λ 68 52 24.634	
DYER, 1861	440683 sta 1053	729100	x=	ϕ 44 08 40.929	
			y=	λ 68 54 37.762	
DOG FISH BEACON, 1934	440683 sta 1048	140	x=	ϕ 44 05 44.76	
			y=	λ 68 55 44.01	
FIDDLERS LEDGE STONE BEACON, 1859	440683 sta 1060	141	x=	ϕ 44 06 05.535	
			y=	λ 68 56 24.052	
NORTH HAVEN BAPTIST CHURCH SPIRE, 1934	440683 sta 1110	152A	x=	ϕ 44 09 00.239	
			y=	λ 68 52 51.215	
VINAL HAVEN WATER TOWER, 1910	440683 sta 1156	129	x=	ϕ 44 02 51.257	
			y=	λ 68 50 17.253	
BROWNS HEAD LIGHTHOUSE, 1859	440683 sta 1021	142	x=	ϕ 44 06 42.061	
			y=	λ 68 54 36.065	
			x=	ϕ	
			y=	λ	
			x=	ϕ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY R. Kravitz	DATE 1/5/84	LISTING CHECKED BY W. McLemore, Jr.	DATE 2/17/84
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

COMPILATION REPORT
TP-01117

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 contact photographs were used to assist in the 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 generally adequate. Delineation of some areas was hampered by glare. The quality of the infrared photography was poor with regards to identifying precise image points common to the compilation photographs. Consequently, the 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.

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. The tide coordinated MHW infrared photographs were used to complement the shoreline delineation. Map scale ratios were not provided for the MHW photographs.

Although the scale of photography was 1:50,000, an attempt was made to distinquish 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 to represent intensified rocky areas and ledge where it was apparent.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument methods as described in items #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) 4562 - 4563 2.524 Times
82 C(I) 4567 - 4574 2.538 Times

37 - LANDMARKS AND AIDS

There are 6 charted landmarks and 11 charted navigational aids within the mapping limits of this manuscript. Among these, 4 landmarks and 5 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 Rcord Form 76-36B, Item 5, of the Descriptive Report.

40 - HORIZONTAL AND VERTICAL ACCURACY

See item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangle: Vinalhaven, ME, dated 1941, scale 1:62,500.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 13308, 1:15,000 scale, 9th edition, dated September 11, 1982; 13303, 1:40,000 scale, 9th edition, dated April 23, 1983; 13305, 1:40,000 scale (with 1:20,000 inset), 24th edition, dated February 13, 1982; and 13302, 1:80,000 scale, 14th edition, dated February 26, 1983.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Robert R. Kravitz
Cartographic Technician
February 14, 1984

Approved,

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

REVIEW REPORT TP-01117
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 U.S.G.S. Quadrangle: Vinalhaven, ME, 1:62,5000 scale, dated 1941.

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: 13308, 1:15,000 scale, 9th edition, dated September 11, 1982; 13305, 1:40,000 scale (includes 1:20,000), 24th edition, dated February 13, 1982; and 13302, 1:80,000 scale, 14th edition, dated February 26, 1983.

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
Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Ronald K. Brewer
Chief, Photogrammetry Branch

March 15, 1984

GEOGRAPHIC NAMES
FINAL NAME SHEET
CM - 8101 (Penobscot Bay and Vicinity, Maine)
TP - 01117

Amesbury Point
Ames Point
Arey Ledges
Bartlett Harbor
Barton Island
Big Shoal
Birch Island
Broom Island
Browns Cove
Browns Head
Calderwood Point
Carver Cove
Carvers Harbor
Carvers Pond
Cedar Island
Conway Point
Crabtree Point
Crane Island
Crockett Cove
Crockett Point
Crokett Point
Cross Island Ledge
Crotch Island
Cubby Hole
Deadman Ledge
Deep Cove
Dodge Point
Dogfish Island
Dogfish Ledges
Dog Point
Drunkard Ledge
Dumpling Islands
Dyer Island
Fiddlehead Island
Fiddler Ledge
Fish Head
Fish Point
Fish Point Ledge
Folly Ledge
Fox Ears
Fox Islands Thorofare

Fresh Pond
Green Island
Green Island Knob
Green Ledge (1)
Green Ledge (2)
Greens Island
Gundell Island
Hall Island
Heron Neck
Heron Neck Ledge
Hopkins Point
Hurricane Island
Hurricane Sound
Inner Bay Ledges
Iron Point
James & Willies Ledge
Kent Cove
Laireys Island
Laireys Ledge
Laireys Narrows
Lane Island
Leadbetter Island
Leadbetter Ledge (Leadbetter Narrows)
Little Hurricane Island
Long Cove
McIntosh Ledge
Medric Island (Medric Rock)
Mill River
North Haven
North Haven Island
Norton Point
Ohio Island
Old Harbor
Old Harbor Pond
Penobscot Bay
Perry Creek
Potato Island
Pulpit Harbor
Pulpit Harbor (locality)
Pulpit Rock
Robinson Rock

Sand Cove
Seal Cove
Seal Ledge
Southern Harbor
Spectacle Island
Stand-in Point
Stand-in Point Ledge
Sugar Loaves
The Basin
The Breakers
The Reach
Turnip Island
Vinal Cove
Vinalhaven
Vinalhaven Island
Waterman Cove
While Islands
Widow Island
Wooster Cove
Young Point
Zeke Point
Calf Point
Conway Shore
Ames Creek
Cross Island
Crabtree Point Ledge
Mill Creek
Young Cove
Seal Ledge GLH

Approved by;

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

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	Penobscot Bay	Feb 1984

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-8101	TP-01117	NA 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
LIGHT	Heron Neck Light (Heron Neck Lighthouse, 1868)	44 01	30.486	68 51	44.970	82C(C)3714 6/27/82		13302 13303 13305
DAYBEACON	Fiddler Ledge Daybeacon (Fiddlers Ledge Stone Beacon, 1859)	44 06	05.535	68 56	24.052	82C(C)3727 6/27/82		"
DAYBEACON	Dogfish Ledges Daybeacon 25 (Dog Fish Beacon , 1934)	44 05	44.76	68 55	44.01	"		13302 13305 13308
DAYBEACON	Drunkard Ledge Daybeacon	44 06	07.6 234	68 57	12.9 288	"		"
LIGHT	Browns Headlight (Browns Head Lighthouse, 1859)	44 06	42.061	68 54	36.065	"		"

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
	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.

☆ U.S.GPO:1975-0-665-080/1155

NOAA FORM 76-40
(8-74)

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

Replaces C&GS Form 567.

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

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

(See reverse for responsible personnel)

- [X] 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	Penobscot	Feb. 1984

The following objects HAVE [ ] HAVE NOT [XX] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	CM-8101	TP-01117	NA 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
STANDPIPE	(Vinal Haven Water Tower, 1910)	44 02	51.257	68 50	17.253	82C(C)3714 6/27/82		13302 13303 13305
STANDPIPE	(North Haven Water Tower, 1913)	44 07	59.636	68 52	24.634	82C(C)3729 6/27/82		13302 13308 13305
CHY		44 08	31.7 979	68 51	47.8 1063	"		"
CHURCH SPIRE	(North Haven Baptist Church Spire, 1934)	44 09	00.239	68 52	51.215	"		"

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
	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.

☆ 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. ______________

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 Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
13302	3-26-85	H. Radden	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 31 App'd thru cht. 13305 Drg No. 31
			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.

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

USCOMM-DC 8558-P63