NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

DESCINILITYE INCLUDIN
THIS MAP EDITION WILL NOT BE FIELD EDITED
Map No. Edition No.
TP-01116
Job No.
CM-8101
Map Classification
CLASS III (FINAL)
Type of Survey SHORELINE
LOCALITY
State
MAINE
General Locality
PENOBSCOT BAY
Locality
EGGEMOGGIN REACH
19 82 TO 19
REGISTERED IN ARCHIVES
DATE

1	of	21
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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE 13-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY TP. 01116
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	. [2] ORIGINAL	MAP EDITION NO. (1)
	_	
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS III (Final)
	REVISED	лов жн. <u>СМ−8101</u>
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit	LAST PRECEED	ING MAP EDITION
Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL	MAP CLASS
	RESURVEY	SURVEY DATES:
A. Y. Bryson, CDR	L KEYIJES	
I. INSTRUCTIONS DATED	r	
1, OFFICE	2.	FIELD
Aerotriangulation February 2, 1983	Field (Horizontal Contr	March 24, 1982
Office (Compilation) February 1, 1984		
II. DATUMS		
	OTHER (Specify)	
1. HORIZONTAL: X 1927 NORTH AMERICAN		
X MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL: MEAN LOW-WATER MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION	4.	GR(D(S)
Transverse Mercator Projection	state Maine	ZONE
5. SCALE	STATE	East
1:20,000	BIATE	20NE
III. HISTORY OF OFFICE OPERATIONS		
OPE RATIONS	NAME	DATE
1. AEROTRIANGULATION BY	Solbeck	Sept. 1983
,	Sölbeck	Sept. 1983_
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Xynetics CHECKED BY	McLemore McLemore	<u>Jan. 1984</u> Jan. 1984
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	R. Kravitz	Feb. 1984
COMPILATION CHECKED BY	F. Mauldin	· Feb. 1984
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
SCALE: 1:20,000 CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	R. Kravitz	April 1984
CHECKED BY CONTOURS BY	F. Margiotta N.A.	<u>May 198</u> 4
метноо: Smooth Drafted снескер ву	N.A.	
HYDRO SUBBORT DATA BY	R. Kravitz	April 1984
scale: 1:20,000 CHECKED BY	F. Margiótta	May 1984
5. OFFICE INSPECTION PRIOR TO RECEIVE FINAL REVIEW	F. Margiotta	May 1984
6. APPLICATION OF FIELD EDIT DATA	None	
THECKED BY 7. COMPILATION SECTION REVIEW BY	None F. Margiotta	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	
NOAA FORM 76-36A SUPERSEDES FORM C& GS 181 SERIES		

U. S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
TP-01116 NATIONAL OCEAN SURVEY

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY					
CAMERA(S) Wild RC 10 (C) (C=88.47)	mm)		HOTOGRAPHY END	TIME REFE	RENCE
TIDE STAGE REFERENCE PREDICTED TIDES * REFERENCE STATION RECORDS	_{HY} **	(C) COLOR (P) PANCHRO		zone Eastern MERIDIAN 75th	XSTANDARO DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF	TIDE
82 C(C) 3605 ~ 3610* 82 C(C) 3660 ~ 3669* 83 C(I) 9642 ~ 9643** 83 C(I) 9654 ~ 9457** 83 C(I) 9670 ~ 9671** 82 C(I) 3953 ~ 3959** 82 C(I) 4109 ~ 4115**	6-27-82 6-27-82 9-29-83 9-29-83 7-04-82 7-10-82	09:287 10:057 08:497 09:027 09:217 09:567 14:07	1:50,000 1:50,000 1:50,000 1:50,000 1:50,000 1:50,000	0.4 below MLW 0.5 below MLW 1.3 above MLW 1.2 above MLW 0.7 below MHW 0.9 below MHW	
REMARKS *Compilation/bri	daina photos	ropha haaad	on prodicts	1 + 3 do do to 4	ተመተ ግ ~

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 OR MEAN LOWER LOW-WATER LINE:

The Mean Low Water Line was compiled graphically from the ratioed black and white tide coordinated MLW infrared photographs.

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
	·				
5. FINAL JUNCTIO	NS				
NORTH	EAS	ST .	SOUTH		WEST
TP-01112	l N	o survey	TP-01119	;	TP-01115
REMARKS		, <u> </u>	· · · · · · · · · · · · · · · · · · ·		

1 1 1 1 1 1				_
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME	
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5.	GEOGRAPHIC NAMES:	REPORT	⊠ NONE		6. BOUNDARY AND LIMITS:	REPORT	X NONE
7	CURRIENTAL MARK	C AND OL AND					

N.A.

^{7.} SUPPLEMENTAL MAPS AND PLANS

^{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); and NOAA Forms 76-53 (CSI Cards) 2 Field observation books (NOAA form 76-52 & USC&GS form 252)

NOAA FORM	76-36D		N.	ATIONAL OCEANIC		NT OF COMMERCE
(3-72)			TP-01116		THE MINES HELL	· Camitria i i · · · · · · · · · ·
		RECO	RD OF SURVE	Y USE		
I. MANUSCR	IPT COPIES					
	co	MPILATION STAGE	S		DATE MANUSCR	PT FORWARDED
D/	ATA COMPILED	DAYE	RE	MARKS	MARINE CHARTS	HYDRO SUPPOR
Compilat	tion complete	May 1984	Class III	Manuscript	None	None
Final Re	eview, Class III	June 1984	Final Clas	ss III Map edit performed	AUG 2 2 1984	AUG 2 2 1984
	<u>.</u>					
II. LANDMA	RKS AND AIDS TO NAVIGA	TION	<u> </u>			
	RTS TO MARINE CHART DI	VISION, NAUTICAL	DATA BRANCH			<u> </u>
PAGES	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		REM	ARKS	· <u> </u>
2		AUG 2 2 1984	Landmarks	and aids for	charting	
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				· · · · · · · · · · · · · · · · · · ·		
				<u></u>	·· ··	
2. RE	EPORT TO MARINE CHART	DIVISION COAST	BU OT BRANCH	DATE FORWARDED	·	
	EPORT TO AERONAUTICAL				•	
III. FEDERA	L RECORDS CENTER DAT	A	· · · · · · · · · · · · · · · · · · ·		··-	
	RIDGING PHOTOGRAPHS;					
2. [X] ⊂ 3. [∇] s	ONTROL STATION IDENTI OURCE DATA (except for G	FICATION CARDS;		\$ 567 SUBMITTED BY		
3, (<u>x</u> .) 3,	CCOUNT FOR EXCEPTION	S:	post) A3 CI\$1 CO	IN SECTION II, NOAA	, onm , g-350.	
4 📋 D	ATA TO FEDERAL RECOR	DS CENTER. DAT	E FORWARDED:		· · · · · · · · · · · · · · · · · · ·	-
IV. SURVEY	EDITIONS (This section s	hall be completed ea	ch time a new maj	p edition is registered	ij.	
	SURVEY NUMBER	JOB NUMBE		_	TYPE OF SURVEY	
SECOND	TP -	(2) PH		⊔ R€		SURVEY
EDITION	DATE OF PHOTOGRAPH	TY DATE OF FI	ELO EDIT		MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBER	R		TYPE OF SURVEY	
THIRD	TP .	(3) PH-		. ∐RE'	_	SURVEY
EDITION	DATE OF PHOTOGRAPH	DATE OF FI	ELD EDIT		MAP CLASS □IV. □V.	FINAL
	SURVEY NUMBER	JOB NUMBEI	R		TYPE OF SURVEY	·
FOURTH		(4) PH		∏ RE'	VISED RES	ÛRVÊY
FOITION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDIT	Ī	MAP CLASS	

□11.

□ III. □IV.

EDITION

□v.

FINAL

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01116

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 a portion of shoreline defined by Jericho Bay and Blue Hill Bay. The map also features the passageway along the northeast coast of Deer Isle known as Eggemoggin Reach.

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-01116

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'

Cartographer

Approved and Forwarded:

Don O. Norman

Chief, Aerotriangulation Unit

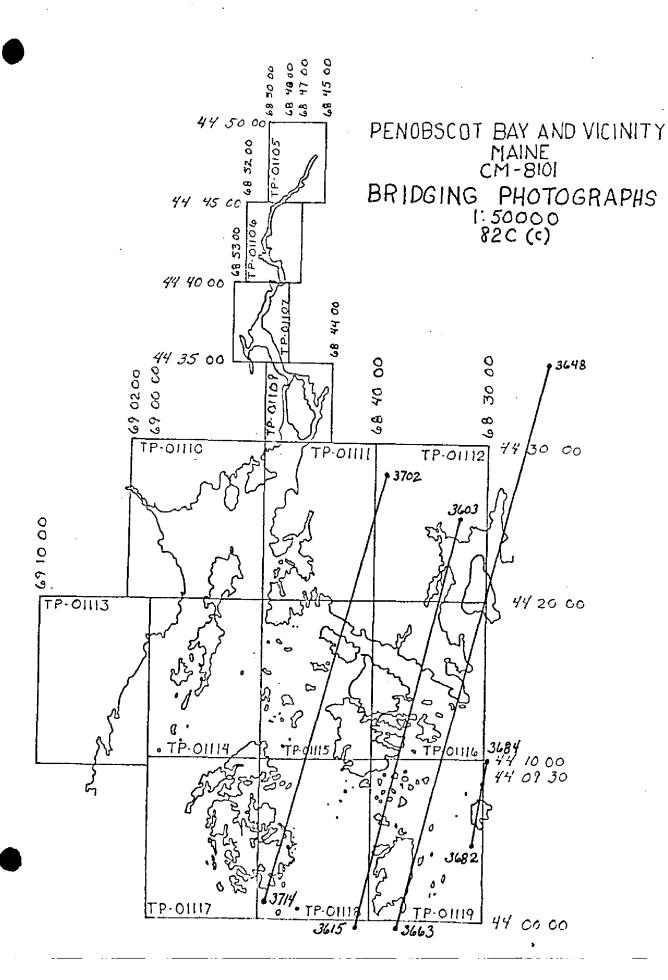
Don O. Norman

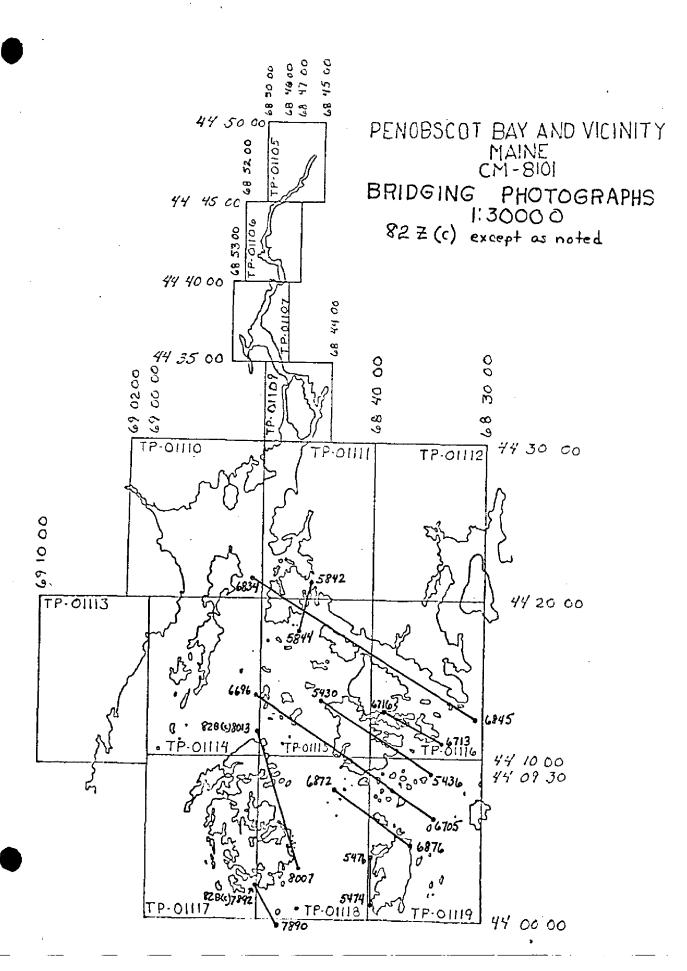
CM-8101 PENOBSCOT BAY AND VICINITY FIT TO CONTROL 1:50,000 BLOCK ADJUSTMENT POSITIONS

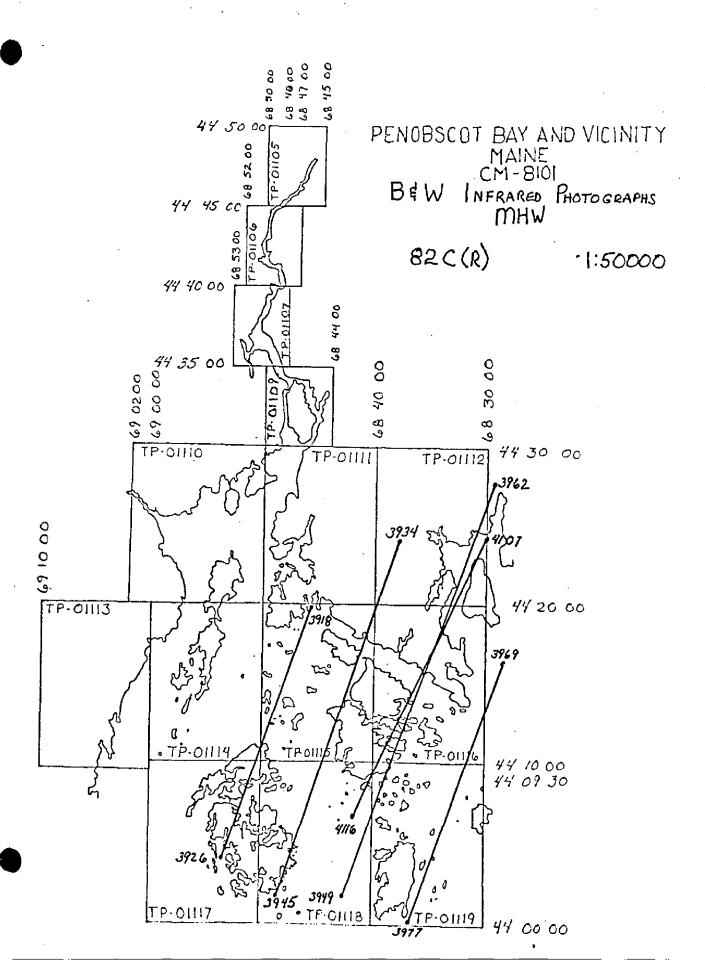
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STATION NAME			IN FEET
Dyer (1861) Sub Point	720101 A	х 0	y + 01
	729101 🛕		+.01
West Stockton White Church Spire Sub Point	825100	+2.01 0	-1.15 0
	825101 	0	0
Sparks House Chimney, Sub Point	827101 ▲ 570100	+2.29	
Rockland Breakwater Lighthouse Sub Point		0	0
Mount Battle Memorial Observatory	570101	U	U
Sub Point	573101 ▲	01	01
	576100 A	01	01
Temperance	592101 A	+.01	0
Kittredge Rm 1 Heron Neck Lighthouse, Sub Point	724101 A	0	+.01
Castine Orthodox Church Spire	742100	+1.74	
Sub Point	742101 A	0	0
Blue Hill Lookout Tower	/42101 <u>A</u>	U	U
Sub Point	702101 A	03	+.01
Stubbs, Sub Point	587101 A	0.00	01
West Stonington Church Spire	709100	-2.47	+1.26
Sub Point	709101 A	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	
West Mast	590146	+2.89	
Orrington Church Spire	588141	+4.49	
Winterport Church Clock Spire	586141	+.19	+3.74
Steel Ledge Monument Light	5566		.0.70
(Steel Ledge Beacon)	579151	-4.03	
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

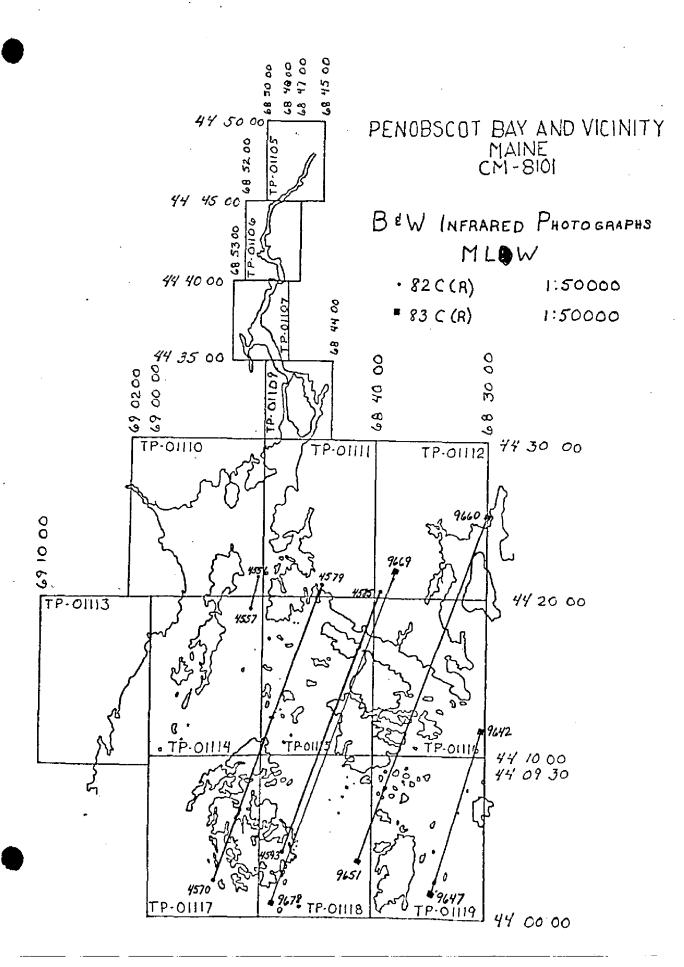
North Haven Water Tower	727149	77	+.89
Odens Ledge Beacon	827151	-6.47	-1.84
Fort Point Ledge Beacon	731501	-2.99	-1.48
Coombs Point Water Tank	823141	-2.47	+1.93
N.E. Point Light	573153	-1.33	-10.94
Bucksport Silver Standpipe	828142	-3.82	+1.80
Bucksport E. Maine Conference			
Seminary Cupola	828139	-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

A POINTS HELD IN THE BLOCK ADJUSTMENT









RATIO VALUES CM-8101 PENOBSCOT BAY AND VICINITY, MAINE

1:50,000	Color	Bridging	Ratio	Value
3	3603 thru 361 3648 thru 366 3682 thru 368 3705 thru 371	2 4	2.537 2.530 2.527 2.547	
1:50,000	Black and Wh	ite Infrared		
3 3 4 3	3933 thru 394 3949 thru 396 3969 thru 397 3106 thru 411 3895 thru 389 3918 thru 392	0 7 6 7	2.522 2.238 2.540 2.584 2.550 2.549	
MLW				
. 4	1562 thru 456 1569 thru 457 1585 thru 459	9	2.524 2.538 2.534	
` _ 9	9642 thru 964 9651 thru 966 9669 thru 967	0	2.523 2.527 2.520	

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NDAA FORM 76-41 (6-75)		DESCRIPTIV	E REPORT CONTROL RECC		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
	ON GOT				
. ON TOWN	.8101		Section 1927	Coast	ilation Unit,
		Latona	COORDINATES IN FEET	GEOGRAPHIC POSITION	VA
STATION NAME	SOURCE OF	ANGULATION	stare Maine	\$ LATITUDE	REMARKS
		NUMBER	zowe East		
WHITMORE NECK, BELFRY ON	QUAD 440683		=χ	\$ 44 ⁰ 11'09.959"	
SCHOOL, 1934	STA 1164	610141	<i>h</i> =	λ 68037'23.655"	
9 9 9 9 9 9	QUAD 440683		χε	φ 44 ⁰ 11'06.227"/	
EGG ROCK BEACON, 1907	STA 1058 /	658528	= h	λ 68°30'34,238"	
NASKEAG, CHURCH CUPOLA,	QUAD 440683		χ=	\$ 44°14'05.045"	
1934	STA 1107	657141	-ĥ	λ 68°31'58.069"~	
BROOKLYN CHURCH SPIRE,	QUAD 440683		x= 481,878.46	φ 44°16'01.414"/	
1861	STA 1019	607100	y≈ 158,102.50	λ 68°34'09.054"	,
			-χ	ф	
			y=	γ	
			-χ	ф	
			-ĥ	γ	
			χ=	ф	
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69 69			<i>=</i> χ	Ф	
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY R. Kravitz		DATE 2/16/84	LISTING CHECKED BY F. Margiotta	otta	DATE April 1984
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.	

COMPILATION REPORT TP-01116

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), and 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 in areas of rock density and where the ledge was apparent.

TP-01116

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 ratio photographs were ratioed as follows:

83 C(I) 9642 - 9643 2.523 times 83 C(I) 9655 - 9657 2.527 times 83 C(I) 9670 - 9671 2.520 times

37 - LANDMARKS AND AIDS

There are $\underline{5}$ charted landmarks and $\underline{5}$ charted navigational aids within the mapping limits of this manuscript. Among these, $\underline{5}$ landmarks and $\underline{1}$ aid were either located or verified photogrammetrically. Appropriate information was prepared on the 76-40 forms and submitted with this map.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

See item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey quadrangles: Brooklin, Maine, dated 1981, scale 1:24,000; Sargentville, Maine, dated 1981, scale 1:24,000; and Deer Isle, Maine, dated 1942, scale 1:62,500.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 13302, 14th edition, dated February 26, 1983, scale 1:80,000; 13305, 24th edition, dated February 13, 1982, scale 1:40,000; 13306, 19th edition, dated February 13, 1982, scale 1:40,000; 13310, 19th edition, dated February 20, 1982, scale 1:40,000; 13312, 17th edition, dated May 2, 1981,

TP-01116

scale 1:80,000; 13313, 16th edition, dated May 3, 1980, scale 1:40,000; 13315, 14th edition, dated January 14, 1984, scale 1:20,000; and 13316, 16th edition, dated June 19, 1982, scale 1:40,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Robert R. Kravitz

Cartographic Technician

April 3, 1984

Approved,

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

REVIEW REPORT TP-01116 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.

COMPARISON WITH MAPS OF OTHER AGENCIES 63.

A comparison was made with the following U.S.G.S. Quadrangles: Brooklin, Maine, scale 1:24,000, dated 1981; Sargentville, Maine, scale 1:24,000, dated 1981; and Deer Isle, Maine, scale 1:62,500, 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: 13313, 16th edition, dated May 3, 1980, 1:40,000 scale; 13316, 16th edition, dated June 19, 1982, 1:40,000 scale; 13312, 17th edition, dated May 2, 1981, 1:80,000 scale; and 13315, 8th edition, dated January 14, 1984, 1:20,000 scale.

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, gerry L. Hancock Jerry L. Hancock Final Reviewer

Approved for forwarding,

Billy H. Barnes Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved, of, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch,

Rockville

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8101 (Penobscot Bay, Maine)

TP-01116

. Allen Cove Babson Island Batchelder Brook Bayberry Point Bear Island Benjamin River Billings Cove Black Island Blake Cove Blake Point Blue Hill Bay Blue Hill Neck Bridges Point Brooklin Buckmaster Ledgers Buckmaster Neck Burntland Pond Campbell Island Cape Carter Carter Point Cat Cove Center Harbor Channel Rock Chatto Island Closson Cove Closson Ledges Coles Point Conary Cove Conary Island Conary Island Head Crow Island - Deep Cove Deep Hole Deer Isle Devils Head Duffy Cove Duffy Point Eastern Mark Island Eastern Point East Side Cove Eaton Brook Eatons Point' Eggemoggin Reach Egg Rock

Fish Creek Flve Point Flye Point (locality) Flye Point Ledge Freese Island Gander Island Goose Island Grays Cove Greenlaw Cove Greenlaw Neck Green Ledge Halftide Rock ·Harbor Island Harriman Point _Haskell Ledge Hatch Cove Haven Haycock Rock Hen Island Herrick Bay Herricks Ledges High Head Hog Island . Holt Pond .Inner Harbor Jericho Bay Jims Point Joes Island Joyce Point Lazygut Islands Lazygut: Ledge Little Babson Island Little Sheep Island Long Island Long Ledge Lower Torrey Island Mahoney Island Mahoney Ledge Meadow Brook Means Point Mountainville Naskeag Naskeag Harbor Naskeag Point

North Brooklin Northwest Cove Oak Point -Oceanville Pickering Cove Poplar Point Potato Island Reach(locality) Roundys Brook Salt Marsh Salt Pond Seal Rock Sedgwick Sellers Island Shabby Island Sheep Island (1) Sheep Island (2) Sheep Rock Sheldrake Ledge Smuttynose Island -South Deer Isle (locality) .Southeast Harbor Flye Island ox# Long Cove

Southern Cove (1) Southern Cove (2) ·Stinson Neck Sunshine The Boulders The Triangles •Thompson Cove Tinker Ledges Torrey Castle Torrey Ledge Upper Torrey Island -Warren Point Webb Cove Wells Cove `West Brooklin Western Cove Whaleback Ledge Whale Brook White Island Whitmore Neck

Approved by:

Charles E. Harrington Chief Geographer

Nautical Charting Division

(8-74)			NAT	IONAL OCE	ANIC AND	T MOSPHERIC	U.S. DEPAKTMENT OF COMMENCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567	m 567.	3	MARKS	FOR CHA	RTS	l		GEODETIC PARTY	¥ × ×
XTO BE CHARTED	l	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	YT!V!
TO BE BEVISED	FD Coastal Mapping Un	Unit, Maine	_	Penob	Penobscot Bay	*	Apr. 1984	QUALITY CONTROL & REVIEW GRP	C & REVIEW GRP.
The following objects	HAVE	en inspecte	ward to de	termine thei	r value as	landmarks.		(See reverse for responsible personnel)	sible personnel)
OPR PROJECT	NON BOT	SURVEY NUMBER	DATUM	N.A. 1	1927		WETHOD AND DATE OF LOCATION	F OF LOCATION	
	CM-8101	TP-01116		POSITION	8		(See instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTIO	×	LATITUDE	UDE.	LONGITUDE	.ude			AFFECTED
CHARTING	(Record reason for deletion of landmark or aid to navigetion. Show triangulation station names, where applicable, in parentheses	rk or eld to navigation. re applicable, in parentheses)	, /	// D.M. Meters	, ,	// D.P. Meters	OFFICE	FIELD	
SPIRE	(Brooklyn Church Spire,	e, 1861)	44 16	01,414	68 34	09.054 82	c(c) 3607 / 6-27-82		13312 13316
SPIRE	At West Brooklyn		44 17	18.5	68 37	13.5 × 82 300	c(c) 3607/ 6-27-82		13316
BELFRY "	(Whitmore Neck Belfry 1934)	On School,	44 11	09,959	68 37	23.655 82	c(c) 3609 / 6-27-82		13312
BELFRY	At Sunshine		44 11	51.7	68 34	55.0 82 1222	c(c) 3609 6-27-82		13312 13313 13315
SPIRE	At Sedgwick		44 18	16.8 [~] 519	68 36	52.9 82 1173	2 C(C) 3606' 6-27-82		13316
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Pg. 1 of 2

RESPONSIBLE PERSONNEL NAME ROBERT R. Kravitz ROBERT RETHOD AND DATE OF CONSULT Photogrammetric Instructions No. 64. CONSULT Photogrammetric Instructions No. 64. RESPONSIBLE PERSONNEL FIELD (Cont'd) B. Photogrammetric date of graph used to graph use entry of date of graph use of the object. When a lan angulation Rec.' with EXAMPLE: Field identified Theodolite Theodolite FIELD (Cont'd) B. Photogrammetric with example: EXAMPLE: Field identified FIELD (Cont'd) B. Photogram angulation with example: EXAMPLE: FIELD (Cont'd) FIELD (Cont'd) B. Photogram angulation with example: EXAMPLE: FIELD (Cont'd) FIELD (Cont'd) FIELD (Cont'd) B. Photogram angulation with example: EXAMPLE: FIELD (Cont'd) F	entirely, or in part, upon control established by photogrammetric methods.	OSITIONS are determined by field obser- based entirely upon ground survey methods.	*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey meth
RESPONSIBLE PERSONNEL NAME ROBERT R. Kravilz RETHOD AND DATE OF LOCATION' (Consult Phorogrammetric field Gent'd) B. Photogrammetric field entry of method of loc ate of field work and graph used to locate of EXAMPLE: P-8-V REC.' Wisually Photogrammetric REC.' With date of recone and visually recone and v	77	ire entry of method of field work.	Field positions* location and date EXAMPLE: F-2-6-L
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RESPONSIBLE PERSONNEL NAME ROBert R. Kravitz	DUALITY CONTROL AND REVIEW		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW
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	PERSONNEL	RESPONSIBLE	

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 75-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

<u> </u>	_		િ જ	WETHOD AND DATE OF LOCATION	(See instructions on reverse side) CHARTS	AFFECTED	FLO	13312 13313 13316										
U.S. DEPARTMENT OF COMMERCE		DATE	Apr. 1984		(See instruction		OFFICE	82 C(C) 3666 6-27-82				,						
I.S. DEPART			seaword to determine their value as landmarks			LONGITUDE	D.P. Meters	34,238										
ON A CINA	4RTS		scot Bay	127	NO	LONG	•	68 30							·		·	
DNAL OCE	FOR CH,	LOCALITY	Penobscot	N.A. 1927	POSITION	UDE	// D.M. Meters	06.227										
HAN	WANTER !		ward to det	DATUM		LATITUDE	•	71 77				-						
	NONFLOATING AIDS BECKENNERMENT FOR CHARTS	<i>5</i>	Maine spected from		TP-01116		or aid to navigation. applicable, in parentheses)	8A (Egg Rock			!							
•		ing UNIT inv. Ship or Of al Mappi:	HAVE	N BOS	CM-8101	DESCRIPTION	(Record resson for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	Egg Rock Daybeacon 8A (Beacon, 1907)										
NOAA FORM 76-40	Replaces C&GS Form 567.	XTO BE CHARTED TO BE REVISED	The following objects	OPR PROJECT NO.			NAME Show	Egg DAYBEACON Bea										

	*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	*FIELD POSITIONS are de vations based entirely
**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established	75	EXAMPLE: F-2-6-L 8-12-75
EXAMPLE: V-Vis. 8-12-75	requ	
2 <	7 - Planetable 8 - Sextant .	3 - Intersection 4 - Resection
	5 - Field identified 6 - Theodolite	1 - Triangulation2 - Traverse
Rec.	Vis - Visually	L - Located V - Verified
When a landmark or aid which is also a tri- angulation station is recovered, enter 'Triang.	applicable data by symbols as follows: P - Photogrammetric	Enter the applicabl
II. TRIANGULATION STATION RECOVERED	NINED OR VERIFIED	FIELD FIELD OR VERIFIED
		8-12-75
•• (J	and locate the object. 75E(C)6042	Ę,
entry of method of location or ver date of field work and number of t	the number and date (including month, and year) of the photograph used to	Enter the number an
FIELD (Cont'd) B. Photogrammetric field positions** require	AND LOCATED OBJECTS	OFFICE (DENTIFIED A
OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
REPRESENTATIVE		ACTIVITIES
☐ REVIEWER	* 30 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW
Kravitz Office ACTIVITY REPRESENTATIVE	Robert R.	
FIELD ACTIVITY REPRESENTATIVE		FOAT TOWN DETERMINED AND/OR VERIFIED
OTHER (Specify)		
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(E ORIGINATOR	NAME	TYPE OF ACTION
PERSONNEL	RESPONSIBLE PERSONNEL	

NOAA FORM 75-40 (8-74)

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

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REI	PORT OF SURVEY NO.
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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
13302	3-26-85	H. Radden	Full Part Before After Verification Review Inspection Signed Vis
			Drawing No. 31 Examined NO CASTY
133/1	10-1084	W.J. Figur	Full Particle After Verification Review Inspection Signed Viz
<u> </u>	10 10 0-7		Drawing No. 22 Added rocks + Fool area
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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