T-12973

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline(Photogrammetric)

Field No. T-12973

LOCALITY

State Massachusetts

General locality Boston to Plum Island

Locality Beverly Cove

19 65 9

CHIEF OF PARTY

Allen L. Powell, Director, AMC

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087



FORM C&GS-181a (3-66)

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE	E REPORT - DATA T-12973	RECORD	
PROJECT NO. (II):			
PH-6601			
FIELD OFFICE (11):		CHIEF OF PARTY	
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE	· · · · · · · · · · · · · · · · · · ·
Atlantic Marine Center		Allen L. Powell,	Director, AMC
Office - Octobe Office - Januar	19, 1965 Pr gr er 8, 1965 Ir ry 27, 1966 ary 2, 1966 I 28, 1966 D, 1966 Supp		riangulation
Wild B-8 and graphic	 .		
JSCRIPT SCALE (III):	STEREOSCO	PIC PLOTTING INSTRUMENT	SCALE (III):
1:5,000	1:2,50	000 pantographed to	1:5,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	ORTED TO NAUTICAL CHART E	PRANCH (IV):
APPLIED TO CHART NO.	DATE:	1	GISTERED (IV): 1975
GEOGRAPHIC DATUM (III): N.A. 1927		VERTICAL DATUM (III): MHM XMXMXXXXXXXX EXCEPT Elevations shown as (25) refer i.e., mean low water	AS FOLLOWS: It to mean high water to sounding datum
REFERENCE STATION (III):			
LEE (USE) 1914 🗸			
LAT.: 42 ^o 31' 54.484"(1681.2m) 70 ^o 52' 29	.863 "(681.6m)	ADJUSTED UNADJUSTED	_
PLANE COORDINATES (IV):	2 "	STATE	ZONE
558,807.27 ft. ×= 768,475.6	4 ft. 🗸	Massachusetts	Mainland
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE OR (IV) WASHINGTON OFFICE.	E ENTERED BY (II) F	TELD PARTY, (III) PHOTOGRA	MMETRIC OFFICE,

FORM C&G\$-1816

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY



FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DAT	E AND METHOD OF LOCATION):	
Air Photo. Compilation Date of Photography: August	25, 1965	
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		6/1/66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		6/3/66
CONTROL PLOTTED BY (III):		DATE
L. Neterer		9/23 / 66
CONTROL CHECKED BY (III):		DATE
C. Blood		9/23/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EX	TENSION BY (III):	DATE
H. P. Eichert		11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III	1: PLANIMETRY B. Barnes	11/25/66
	Rev. by: A. L. Shands	11/28/66
Wild B-8	CONTOURS	DATE
	Inapplicable	Ę
MANUSCRIPT DELINEATED BY (III):		DATE
B. Barnes		12/29/66
SCRIBING BY (III):		DATE
B. Barge		7/1/69
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: C. H. Bishop Field Edit: R. E. Smith Scribing: R. E. Smith		1/27/67 16/16/67 10/20/69
REMARKS:		
	ord	6/19/67





DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "S"

	PH	OTOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65-S(c)7335 thru 65-S(c)7338	8/31/65	0858	1:15,000	0.2 below MIW*
65-S-7180R thru 65-S-7183R	8/25/65	1009	1:15,000	8.5 above MLW*
65-S-7140R and 65-S-7141R	8/25/65	0951	1:15,000	8.7 above MIW*
			· ·	
	<u> </u>	<u> </u>		

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
			9.5	11.0
			9.0	10.4
	· · · · · · · · · · · · · · · · · · ·			
		DATE:		<u> </u>
		DATE:		
1,1	RECOVERED:	IDENTIFIE	:D:	· · · ·
2	RECOVERED:	IDENTIFIE	.D O	
		11 9	DATE: DATE: DATE: 11 9	9.5 9.0 DATE: DATE: DATE: 11 9 IDENTIFIED: 1

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

TIDE (III) PREDICTED

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

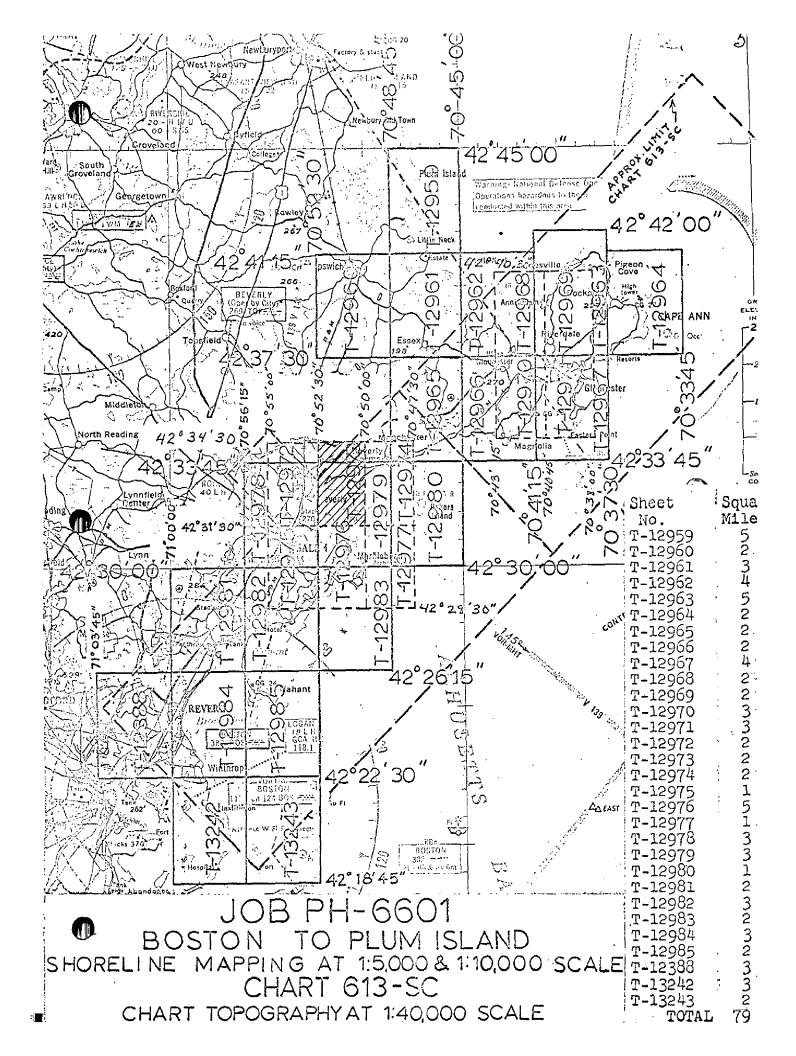
REMARKS:

* The stage of tide at time of photography was determined by readings on a staff at Gloucester Harbor (Ten Pound Island) at that time. See Instructions - OFFICE - dated 28 April, 1966.



T-12973

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete, pending field edit	January 1967	Superseded
Field Edit applied compilation complete	October 1967	Superseded
Roads double lined	December 1968	



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS PH-6601

This shoreline manuscript is one of thirty-one maps that make up this project. The primary purpose of the project is to provide contemporary shoreline for nautical chart construction. Maps were also used to provide photogrammetric hydro support data for the hydrographic surveys to be conducted in the same area.

The only field work prior to compilation was recovery and identification of horizontal control required for aerotriangulation.

Field edit was accomplished by a photogrammetric field party during the years 1967, 1968, 1969 and 1970. The field edit was adequate.

Cronaflex positives and ozalids of the manuscripts were furnished for the use of the field editor and the preparation of the hydrographers boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final review was accomplished at the Atlantic Marine Center from September, 1973 to April, 1974.

A cronaflex positive and negative of each reviewed manuscript are being forwarded for record and registry.

FIELD INSPECTION REPORT
T-12973
Boston to Plum Island
PH-6601

There was no field inspection prior to compilation.

8

PHOTOGRAMMETRIC FLOT REPORT Job PH-6601 Boston to Plum Island, Massachusetts

November 1, 1966

21. Area Covered

This report covers aerotriangulation for 1:5,000 and 1:10,000 scale surveys in an area north of Boston, Massachusetts. The 1:5,000 scale surveys are T-12968 thru T-12977; the 1:10,000 scale surveys are T-12959 thru T-12967 and T-12978 thru T-12985.

22. Method

Four strips were bridged by the analytic method. Strip l was at a scale of 1:30,000 using infrared photography; Strips 2 and 3 at a scale of 1:30,000 using color film; and Strip 4 using color film at a scale of 1:15,000.

The 1:30,000 scale bridges were to be used for the 1:10,000 scale compilation. The four-model 1:15,000 scale bridge was necessary to complete coverage on surveys T-12972 and T-12978.

Common points between the 1:30,000 and 1:15,000 scale photography were selected. Plane coordinate positions from our bridges were determined so that 1:15,000 scale models could be controlled to compile the 1:5,000 scale surveys. Plane coordinates are on the Massachusetts State Grid (Mainland). The attached aerotriangulation sketch shows location of strips bridged. Closures to control have been tabulated.

23. Adequacy of Control

Field identified control was supplemented by office identified horizontal control points and was adequate.

24. Supplemental Data

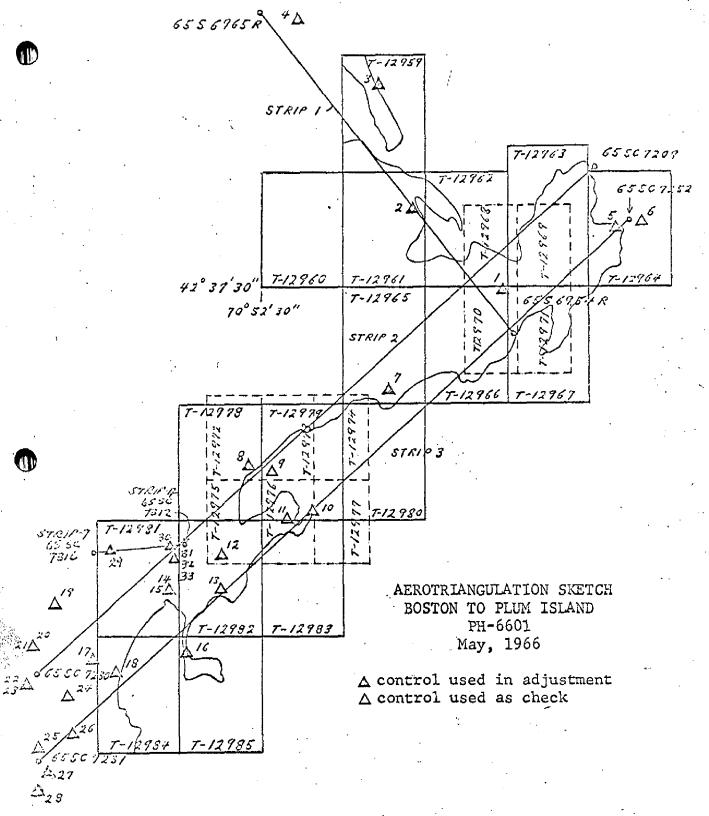
Vertical control points needed and control for strip adjustments were taken from USGS quads.

25. Photography

The color photography was excellent. The infrared photography, which is not particularly suited for bridging, was adequate.

Respectfully submitted.

Henry P. Eichert



FIT To control STRIP # 1: 1 MEAD 2 (MGS), 1934 larget (+0.1, +0.1) sub. pt. (-0.9, +1.7) target (-0.4, -0.2) 3 PLUM ISLAND COAST GUARD CUPOLA 1973 torget (+0.5, +0.3) 546, pt (-28, +4.5) 4 010 TOWN, 1850 target (-0.2, -0.2) RM#/ (-0.2,+0.3) STRIP#2 5 STONEHAYEN (ROCKPORT TOWN (MGS)), 1939 torget (+1.2, -2.6) sub. pt. A (-0.7, -1.6) 546 pl B (+1.3, -3.0) - 1 MEAD 2 (MGS), 1834 torget (0.0, +3.3) sub. pl (+0.7) +3.6)

- 1		MANCHESTER CHURCH DARK SPIRE, 1848
	عفرون تاسخ	torget (-6.0, +0.8)
		546 pt. A (-71, +3.1)
	ا د جنور د د و المساور د	
-	8	SALEM, NEW ENGLAND POWER CO. SOUTH STACK, 1954
la e		office identified (+4.8, +1.9)
	9	FORT PICKERING LIGHTHOUSE, 1877
110 00 1 0 00000000	,	office identified (+6.0, +1.0)
n	14	HIGH ROCK 2 (MGS)
, , , ,		sub pl. A (+3.2, -4.4)
#1 - FA 1 Ma		sub pl. B (+2.0, -2.8)
	15	HIGH ROCK 3 , 1943
		office identified (+1.8, -3.7)
	17	REVERE CATHOLIC CHURCH TOWER, 1934
and officer areas	en e	office identified (-4.0)-4.0)
	19	BOOTH (MGS), 1934
a man a can		546 pt. A (+3.4, -1.4)
	•	CHELSEA QUIGLEY MEM. HOSPITAL W.T., 1958
·		office identified (-1.5, +2.2)
	4.0	MEDFORD RADIO STATION WEET-FM TOWER, 1958
		office identified (+2.1, -1.0)
		MEDEORD TV STATION WNAC TOWER, 1958
		office identified (+5.3, -1.0)
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13 SWAMPSCOTT HIGH SCHOOL FINIAL, 1940	
office identified (+0.7, +3.4)	
12 SMANPSCOTT LARGER STANDPIPE, 1934	
office identified (+0.7, +1.8)	
11 MARBLEHEAD, ABBOT TOWER, 1919	
office identified (-0.6, +4.4)	
10 MARBLEHERD LIGHTHOUSE, 1914	 .
office identified (+2.0, +5,1)	_
7 MANCHESTER CHURCH PARK SPIRE, 1848	
target (-3.5, -5.8)	_
546 pt A (-4.1, -5.2)	- - .
1 MERD 2 (MGS), 1934	-
10-get (+3.8,-0.2)	
sub.pl. (+6.2, -1.2)	
5 STONE HAVEN (ROCKPORT TOWN (MGS)), 1939	
tanget (-2.1, +0.3)	
546 pt A (-1.3, +1.6)	
sub pt B (-2.0, +1.2)	
6 STRAITS MOUTH LIGHTHOUSE, 1902	
office identified (-3.1, -5.2)	
	

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<u> 97 38</u> 	VERLY OOD FEE		OCA, 1934	/*
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33 30	(-1.29 DERLY ST. MA) (-1.32 WERLY 157 B	+1.55) CYS CHUCCO -1.09) CAPTIST CH		
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33 30	(-1.29 DERLY ST. MA) (-1.32 WERLY 157 B (+1.35)	+1.55) CYS CHUCC, -1.09) APTIST CH +1.10)		
32 320 33 36 12601 12602	(-1.29 VERLY ST. MAI (-1.32 VERLY 157 B (41:35 (-0.28 -6.7 (-3.79 -3.20	+1.55) CYS CHUCC, -1.09) APTIST CH +1.10)		
32 32 33 35 12601 12601 13601	(-1.29 USRLY, ST. MA (-1.32 WERLY 157 B (41:35 (-6.28 -6.7 (-3.79 -3.20 (-2.56 -3.4	+1.55) CYS CHUCC, -1.09) APTIST CH +1.10)		
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32 32 33 35 12601 12601 13601	(-1.29 USRLY, ST. MA (-1.32 WERLY 157 B (41:35 (-6.28 -6.7 (-3.79 -3.20 (-2.56 -3.4	+1.55) CYS CHUCC, -1.09) APTIST CH +1.10)		
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U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY



FORM **C&GS-164** (4-68) USCOMM-DC 50318-P68



MAP T- 12973 PROJECT NO.	PH-6601	SCALE	OF MAP	1:5,000 scal	SCALE FACTOR		1
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUD LONGITUI	LATITUDE OR Y COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (8ACK)	927 - DATUM RID OR PROJECTION 1. = 3048006 meter)	ON LINE
	Vol. 1	N.A.	42 31.	54.484	1681.2	(170.2)	7
LEE (USE) 1914	P-507	1927	70 52	29.863	681.6	(687.7)	/
FORT PICKERING	Vol. 1	ı ı	42 31.	34.99	1079.7	(771.7)	
LIGHTHOUSE 1877	P-828	#	70 52	01.09	24.9	(1344.6)	/
HOSPITAL POINT	Vol. 1		42 32	47.026	1451.0	(400.4)	>
LIGHTHOUSE 1877	P-507	£	70 51	23.304	531.7	(837.3)	`
MONUMENT BAR	Vol. 1		42_32	22.294	6.789	(1163.5)	\
BEACON 1914	P-510	£	70 52	25.558	583.2	(186.0)	>
ABBOT ROCK	Vol. 1	\$ 25	4.2 31	48.907	1509.1	(342.3)	7
STONE BEACON 1848	P-823	£	70 51	46.357	1058.0	(311.3)	7
	Vol. 1		42 32	04.708	145.3	(1706.1)	7
GREAT HASTE, 1848	P-507	=	70 50	32.533	742.4	(626.9)	7
						,	
							i
COMBITTED BY	Li		2 C C C C C C C C C C C C C C C C C C C		1		
L. L. G.	10/13/66			J.L.P.	10/17/66	99	15

COMPILATION REPORT T-12973

31. DELINEATION

Compilation of all features, with the exception of mean high water line, were compiled by the WILD B-8 method using the color photography taken at mean low water. The mean high water line was compiled by the graphic method from the infrared photography taken at mean high water.

There was no field inspection.

Photography was satisfactory.

32. CONTROL

See photogrammetric plot reported dated 11/1/66.

GREAT AQUA VITAE STONE BEACON 1848; LITTLE HASTE BEACON 1848; and LITTLE AQUA VITAE BEACON 1914, could not be held during compilation. This has been noted on the Hydro Edit ozalid (Discrepancy print). See instructions dated April 28, 1966; Paragraph 6 Compilation. 14.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

See Item 31.

The mean low water line, shallow lines, foreshore, etc. were delineated from office interpretation of the photographs.

There was no shoreline inspection.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 for Aids have been submitted to the Washington Office under date of October 20, 1967. There are no landmarks.

38. CONTROL FOR FUTURE SURVEYS

There are no recoverable topographic stations. A sufficient number of shoreline pass points have been located to facilitate the location of photo-hydro stations.

39. JUNCTIONS

T)

Junctions are in agreement with T-12974 (scale 1:5,000) and T-12979 (scale 1:10,000) to the east; T-12972 (scale 1:5,000) and T-12978 (scale 1:10,000) to the west; T-12976 (scale 1:5,000) and T-12979 (scale 1:10,000) to the south. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

See Item 32.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle MARBLEHEAD NORTH, MASS., scale 1:24,000, dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 241, scale 1:10,000, 3rd edition, dated September 30, 1963.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted:

R. E. Smith Cartographer 9/22/69

Approved and Forwarded:

Allen L. Powell,

Director, Atlantic Marine Center

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6601 (Boston to Plum Island, Mass.)

T-12973

Abbot Rock Beverly Beverly Cove Beverly Harbor Black Rock Cat Cove Coney Island Coney Ledge Cove Village Curtis Point Fort Pickering Great Aquavitae Great Haste Hospital Point Juniper Cove Juniper Point Little Aquavitae Mackerel Cove Middle Ground Mingo Beach Monument Bar Patch Beach Prospect Hill Salem Neck (locality) Salem Neck Salem Sound Smith Point Winter Island Woodbury Point

Prepared by:

C. E. Harrington

Staff Geographer

T-12973

49. NOTES FOR THE HYDROGRAPHER AND FIELD EDITOR

Separate edit ozalids have been prepared for your respective uses. These are intended to simplify your efforts and eliminate the possibility of any duplication of edit procedures.

On each are noted pertinent remarks concerning doubtful interpretations or items of compilation requiring additional clarification and/or verification.

For the field editor, notes include all items inshore from the approximate M.L.W.L. All offshore items are noted for the Hydrographer's attention.

Among these items requiring edit by both parties, are "Landmarks and Aids". These are indicated by a numeral. The following key is an explanation of the attention they may require:

- 1. Object not visible on photos. Verify by edit.
- 2. Object visible, position verified. (by compiler)
- 3. Object visible, position re-determined. Verify by
- Object which may be a landmark or new aid. Verify by edit.

Forms 567 should be submitted for all "Landmarks and Aids".

FORM C&G\$-1002			u	S. DEPARTMENT OF COMMERCE ESSA
	РНО		RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
D		T-3	12973	
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
· CHB	СН	В	CHB	CHB
CONTROL STATIONS	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
5. HORIZONTAL CONTROL ST. THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERAE	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
CHB & RES		(Topographic	CHB & RES	χх
8, BENCH MARKS	9. PLOTTING]	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
xx	FIXES		Bridge (W.O.)	Wild B-8
ALONGSHORE AREAS (Nautica)	Chart Date)			
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
) CHB	CH	B (¿	СНВ	l χχ
16. AIDS TO NAVIGATION	17. LANDMARK		18. OTHER ALONGSHORE	19. OTHER ALONGSHORE CULTURAL FEATURES
	.		PHYSICAL FEATURES	1
RES	XX		СНВ	СНВ
PHYSICAL FEATURES		151		1.02
20. WATER FEATURES	•	AIL NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
CHB			CHB	XX
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
хх	XX		XX	CHB
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
CHB & RES	СН	В	XX	CHB
BOUNDARIES				
31. BOUNDARY LINES	3→ XX		32. PUBLIC LAND LINES	
				
33. GEOGRAPHIC NAMES		34. JUNCTION	\$	35. LEGIBILITY OF THE
OT TD		}	OUD	MANUSCRIPT
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	CHB	CHB
}			PHOTOGRAPHS	O.K. 1 O.K.
XX	RES		XX	RES
40. REVIEWER Charles 18.73	Shop		SUPERVISOR, REVIEW SECTION	Rauch Dr.
C. H. Bixhop	•	27/67	Albert C. Rauck	
41. REMARKS (See attached she				
42. Additions and correction	s furnished by th	e field complet	ion survey have been applied	to the manuscript. The manu-
script is now complete ex			ISUPERVISOR AND	/
Rev. by: R. E. Sm		10/10/67 10/10/67	Albert C. Rauck,	C. Kauck.J.
43. REMARKS	mup			
Field Edit a	oplied fro	m: Field l	Edit ozalid, & Fiel	d Photos.
Nos. 65-S-73				-1,0000
	. ,	•		
1				

Field Edit Report
Job- PH- 660I
Boston to Plum Island
T- I2973 T- I2974

General Notes

The area was field-edited during the period of I6 may through 9 of June I967. Corrections and additions have been inked on the photographs in black except, Phot pts, nautical aids and MHWL measurements and notes, which are in red and referenced on the discrepancy print in blue.

Rock and ledge areas were investigated at or near low water. The compilation of ledges, rock hts and location of these two features was found to be very good. Rocks verified and new ones are inked on the Photos.

All landmarks and fixed aids were inspected and are submitted on form 567 in accordance with recent field instructions.

There are no Naut landmarks recommended for Sheets T-I2973 and T-I2974. One Beacon is recommended for charts, this beacon is just northwest of Chubb Island. It was identified on Photograph 65-s-7358.

All bluffs were investigated of shore and bluffs recommended for charts are noted on the discrepancy print and referenced to photographs.

Landmark buildings were inspected from of shore and ones recommended for charting are circled on the discrepancy print and referenced to photographs.

Compilation of roads was found to be very good. Two roads recommended for charting are noted on the discrepancy print and referenced to photographs.

All piers in question were investigated and noted on the discrepancy print.

Public buildings are shown on Photos 65-s-7334, 7335, and 7337.

One submerged wreck was located near Little Misery Island and shown on photograph 65-S-7356. The submerged wreck in question near the eastern end of West Beach was not found. This area was thoroughly searched at mean low water.

All marine railways in question are noted on the discrepancy print and referenced to the photograph. There were no boat ramps found in the area of these two T- sheets.

One pipeline in question was investigated and noted on the discrepancy print and referenced to photograph.

A diagram of Salem Harbor was obtained showing the location of this pipeline. Your attention is brought to the outlet area of this pipe, this is not a shoal but the sewerage from this pipeline.

The mean high water line was investigated at several areas other than ones in question, and found to be compiled quite adequate.

Field Edit notations are inked on the following photographs: $65\frac{5}{7}7334$, 7335, 7337, 7338, 7354, 7356, 7357, and 7358

Submitted by, Ewhartford

I9 June I967

cc: CofP 62, CFE/ Rasure



but verified on the Field Photo. that it did not hold the triangulation position. It is now submitted as Photogrammetrically located. * Field Editor submitted Form 56? stating method of location as Triangulation;

** Field Editor did not submit Form 567, but verified on Field Photo. Photogrammetric position does not agree with Triangulation position. *** Field Editor submitted Form 567 stating method of location as Photo., but it appears he copied position from triangulation data and also has a typographical error in the D.P. meters value in longitude.

MERCE ADMINISTRATION U.S. DEPARTMENT OF MERCI ENVIRONMENTAL SCIENCE SERVES ADMII

東京社で駅



NONFLOATING AIDS ORXENDMARKS FOR CHARTS

TO BE CHARTED FO GETTENISED TO BE TED

STRIKE OUT TWO

Atlantic Marine Center

October 20

., 1967

USESSA

Bull, RADM,

I recommend that the following objects which have (hatesteen inspected from seaward to determine their value as landmarks be charted on (deleted: from) the charts indicated.

R. E. Smith

The positions given have been checked after listing by

200, 201 200, 201 200, 201 200, 201 200, 201 200, 201 200, 201 217 241 CHARTS Chief of Party. 250, 1207 DETAINDING CHANG TRANCRE CHART \overline{z} 74 1 HYSEC'S CHYEL × × 74 Verifi. 5/9/67 2/6/5 Triang 5/9/67 2,19,167 T-12973 5/0/67 LOCATION T-12973 5/9/67 T-12973 5/9/6 DATE Ö Triong. Triang. J. Bull, Ed 1.12973 METHOD OF LOCATION AND BURVET No. Photo. Photo. Photo. DATUM 25,555 M.A. 1928 1.927 Y.A. ----A. 1927 1927 23.30/1 D.P. METERS 13.5 LONGITUDE & POSITION 70 51 70 52 70 50 **会** 会 72 02 آب اک 22/ 33 100.25 180907 D.M.MLTERG 17,026 0.1311 3057 27,2 1057 LATITUDE 22. 2 32 ~ 12 32 E 엉 8 77 3 77 2 2 ٠ 2 BIGNAL. NAME Mospital Point Range Front Light Fort Pickering Light (Fort Pickering Lighthouse 1877) (Hospital Point Lighthouse 1877) Abbott Rock Daybeacon 1848) Little Aquavitae Daybeacon (Morument Bar Beacon 1914) Great Aquavitae Daybeacon SALEM HARBOR APPROACHES Ionument Bar Daybeacon Little Haste Daybeacon DESCRIPTION SALEM SOUTH CHANNEL RAMS HORN CHANNEL MASSACHUSETTS ALIN CHANNEL CHARTING **DAYHEACON DAYBEACON DAYBEACON ***DAYBEACON DAYPEACON LIGHT LIGHT STATE

Positions of charted The data should be This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. # TABULATE SECONDS AND METERS

23-58888 DO-MMODSA

REVIEW REPORT T-12973

SHORELINE

December, 1973

61. GENERAL STATEMENT:

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A visual comparison was made with Registered Survey Number 3765, 1919 at 1:10,000 scale. There is only a general agreement because of time and datum difference between the two surveys.

This survey supersed the prior listed survey for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle Marblehead North, MASS., 1956 at 1:24,000 scale. There is good general agreement between the two surveys.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boat Sheets H-9009, 9010 and 9046, all dated 1968 at 1:5,000 scale. There is good general agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 240 dated July 29, 1972, at 1:10,000 scale. There are some differences in shoreline and rocks not shown on this survey. These are noted on the discrepancy overlay.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey meets with project instructions and the National Standards of Map Accuracy.

Reviewed by:

Servard Lus Bernard Kurs Cartographer

Victor E. Serena Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch for Chief, Coastal Mapping Division

