Form **504** 

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

<del></del>
m (O) Chamaline (Photogrammatoria)
Type of Survey Shoreline (Photogrammetric)
Field No. Office No. T-12974
LOCALITY
State Massachusetts
General locality Boston to Plum Island
Locality Great Misery Island
<u> 1966 -</u>
CHIEF OF PARTY
J. Bull, RADM, Director, Atlantic Marine Center
LIBRARY & ARCHIVES

USCOMM-DC 5087

FORM C&G5-181a (3-66)

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



	RECORD		
	T = 12974		
PROJECT NO. (II):			
Job PH-6601			
FIELD OFFICE (II):		CHIEF OF PARTY	
PHOTOGRAMMETRIC OFFICE (III):		OF FICER-IN-CHARGE	
Atlantic Marine Center		J. Bull, RADM,	USESSA, Director,AM
INSTRUCTIONS DATED (II) (III):			
Field - Aug. 4, 1965			
	Provisional instructions		phy
Office - Oct. 8, 1965	Instructions, Aerotriang	ılation	
Office - Jan. 27,1966	•	•	
Office - Feb. 2, 1966	Instructions, Aerotriang	ulation	
Office - Apr. 28,1966			
Field - May 20,1966			
Office - July 11,1966			
•	•		
METHOD OF COMPILATION (III):			
Wild B-8 and graphic			
ANUSCRIPT SCALE (III):	STEREOSCO	OPIC PLOTTING INSTRUM	ENT SCALE (III):
1.5.000	1.2 50	nontagraphed t	- 1.5 000
1;5,000		00 pantographed to	<u>*</u>
DATE RECEIVED IN WASHINGTON OFFI	CE (IV):	DRIED TO NAUTICAL CHA	RET BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DAT	E REGISTERED (IV):
N. Lies IV Galler No.			
			SEDT. 1975
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III)	IMILITAT
		MONTE DESCRIPTION EXC	EPT AS FOLLOWS:
	. ,	Elevations shown as (25)	refer to mean high water
N.A. 1927		Elevations shown as (5)	refer to sounding datum
	•	<u> </u>	
		i.e., mean low water or m	ean lower low water
=		i.e., mean low water or m	ean lower low water
=		i.e., mean low water or m	ean lower low water
=		i.e., mean low water or m	ean lower low water
REFERENCE STATION (III):		i.e., mean low water or m	ean lower low water
	ı 1916 ~	i.e., mean low water or m	ean lower low water
REFERENCE STATION (III):		i.e., mean low water or m	ean lower low water
REFERENCE STATION (III):  GREAT MISERY 2 RM NO :	LONG.:	<b>XX</b> ADJUSTED	ean lower low water
REFERENCE STATION (III):  GREAT MISERY 2 RM NO :		<b>XX</b> ADJUSTED	ean lower low water
REFERENCE STATION (III):  GREAT MISERY 2 RM NO :	LONG.:	<b>XX</b> ADJUSTED	ean lower low water
REFERENCE STATION (III):  GREAT MISERY 2 RM NO :  LAT.:  42° 32' 49.56" (1529.18)	LONG.:	XX ADJUSTED UNADJUSTED	
REFERENCE STATION (III):  GREAT MISERY 2 RM NO :  LAT.:  42 <sup>0</sup> 32' 49.56" (1529.1)  PLANE COORDINATES (IV):	LONG.:	XX ADJUSTED UNADJUSTED	

FORM C&GS-181b (9-66)

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



### **DESCRIPTIVE REPORT - DATA RECORD**

•		}
FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	
		}
August 1965; Air photo compila	ation, graphic.	
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree	5-31-66	
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		6-3-66
CONTROL PLOTTED BY (III):		DATE
L. Neterer		9-26-66
CONTROL CHECKED BY (III):		9420-00 DATE
CONTROL CHECKED BY (III).		
<b>D</b>		·
C. Blood		92666
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
H. P. Bichert		11-1-66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	J. Place	122266
	CONTOURS	DATE
	Inapplicable	11767
MANUSCRIPT DELINEATED BY (III):	<del></del>	DATE
		·
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
C. H. Bishop		12067
REMARKS:	· · · · · · · · · · · · · · · · · · ·	120-0/

FORM C&G5-181c

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

### **DESCRIPTIVE REPORT - DATA RECORD**



CAMERA (KIND OR SOURCE) (III):

### "S" Camera

	РНО	TOGRAPHS (III)								
NUMBER	DATE	TIME	\$CALE	STAGE OF TIDE						
65 S 7172 65 S 7178 and 7179 65 S 7201 thru 7203 65 S 7307 thru 7309 65 S 7334	Aug. 25, 1965 " Aug. 31, 1965	1005 EST 1011 " 1019 " 0838 " 0857 "	1:15,000	* 8.6 ft. above MLW * 8.5 " * 8.4 " *-0.5 ft. below MLW *-0.2 "						
65 S 7356 thru 7358	tı	0905 "	*1	*=0.1 "						
			<b>)</b>							

TI	DE	(11	I)

				RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Boston	(Predicted)			9.5	11.0
UBORDINATE STATION:	Manchest	er (Predicted)			8.8	10.2
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW	BY (IV): Be:	rnard Kurs AMC		DATE: Jan.,	1974	L=
PROOF EDIT BY (IV):				DATE:		
NUMBER OF TRIANGULATION	IDENTIFIE	IDENTIFIED:				
NUMBER OF BM(S) SEARCHED	IDENTIFIE	IDENTIFIED				

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

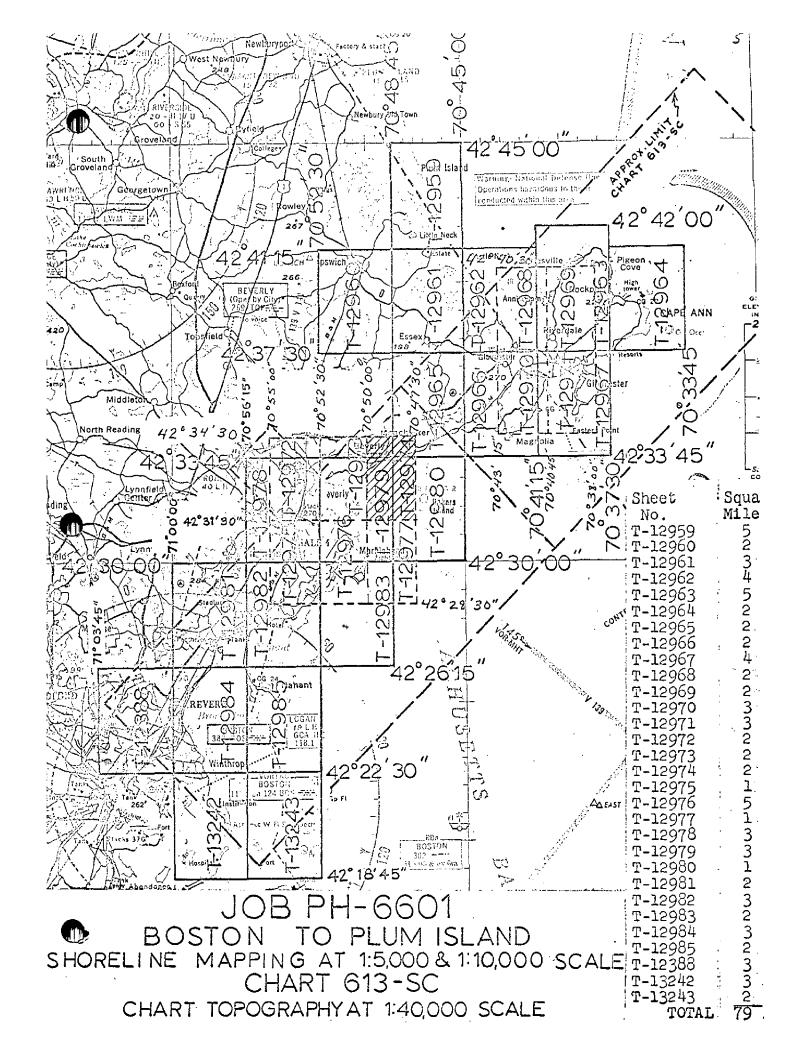
REMARKS:

\*

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 April 28, 1966.

T-12974

57 Superseded
67 Superseded
974



### 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-12974 Project PH-6601

There was no field inspection prior to compilation.

## PHOTOGRAMMETRIC PLOT 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

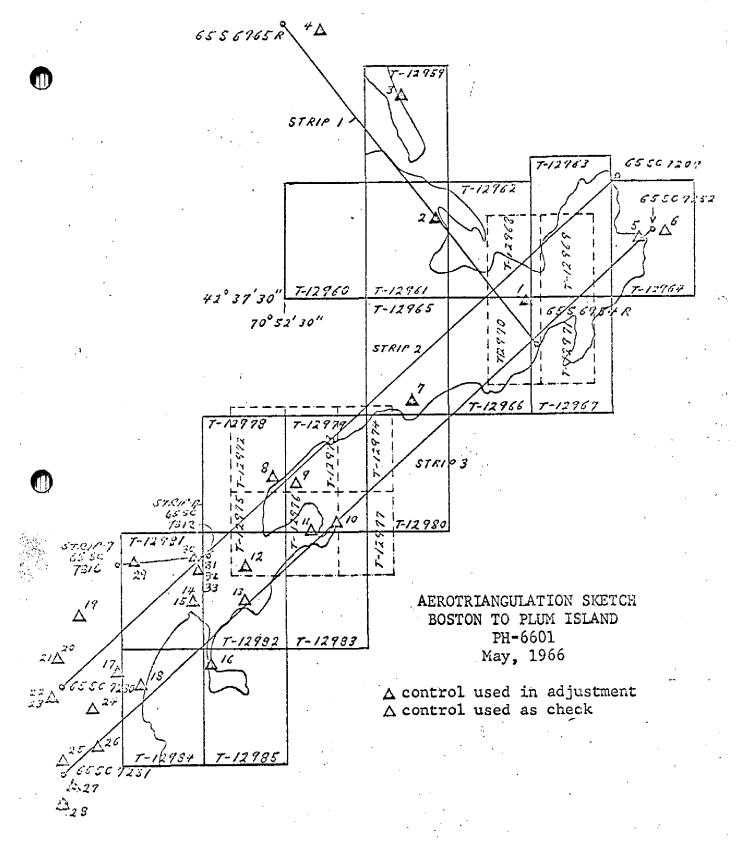
Vertical control points needed and control for strip adjustments were taken from USGS quads.

### 25. Photography

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

Respectfully submitted,

Henry P. Eichert



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Tit to control (feet) 1 MEAD 2 (MGS) 1934 torget (+0,1,+0,1) sub. pt. (-0.9, +1.7) 2 CHOATE, 1849 target (-0.4, -0.2) 3 PLUM ISLAND COAST GUARD CUPOLA 1943 torget (+0.5, +0.3) 546. pt. (-2.8, +4.5) + 010 TOWN, 1850 targot (-0.2, -0.2)  $RM^{2}(-0.2,+0.3)$ STRIP # 2 5 STONEHAVEN (ROCKPORT TOWN (MGS)), 1939 torget (+1.2, -2.6) sub. pt. A (-0.7, -1.6) sub pl. B (+1.3, -3.0) - 1 MEAD 2 (MGS), 1934 torget (0.0, +3.3) sub. pl. (+0.7) +3.6)

	MANCHESTER CHURCH DARK SPIRE, 1848
	target (-6.0, +0.8)
ا المسالف البيد و المداد ال	546, pt. A (-7.1, +3.1)
8	SALEM, NEW ENGLAND POWER CO. SOUTH STACK, 1954
ensegia ogsås pare i hono	office identified (+4.8 +1.9)
9	FORT PICKERING LIGHTHOUSE, 1877
	office identified (+6.0, +1.0)
14	HIGH ROCK 2 (MGS)
	sub pl. A (+3.2, -4.4)
	sub pl. B (+2.0, -2.8)
15.	HIGH ROCK 3, 1943
· · · · · · · · · · · · · · · · · · ·	office identified (+1.8, -3.7)
	REVERE CATHOLIC CHURCH TOWER, 1934
Concern Control of the Control	office identified (-4.0, -4.0)
	BOOTH (MGS), 1934
	546 pt. A (+3.4, -1.4)
24.	CHELSEA QUIGLEY MEM. HOSPITAL W.T., 1958
	office identified (-1.5, +2.2)
20	MEDFORD RADIO STATION WEFT-FM TOWER, 1958
-1 /	est office identified (+2.1, -1.0)
	MEDEORD TV STATION WNAG TOWER, 1958
•	office identified (+5.3,-1.0)
وما ويوني على المراجع	

:11

<b></b> ₩			$i^{\omega}$
7.7	MEDERALD RADIO STAT	ION WEET NE TOWER	1000
	•	d (+1.4 +3.0)	*
		ON WEET SW. TOWER	
	office identified	(41.2, +3.1)	
STRIP	#3		
		st , 1934 cd (+26, +5.5)	
		E_TOWER, 1916	
· 	office identifies	1 (+3.2, +4.2)	<u> </u>
. 25 . 61		HILL MON., 1846	
		ed (+2.2, +0.1)	
		and ALBANY R. R. TAN	
		1 (+1.6, +5.5)	
24C		IEM. HOSPITAL W.T.	•
and a summer	•	1 (+7.3, -2.0)	
		HURCH TOWER, 1934	
		1 (-40, -50)	
	office Mentific	(-41,-2,2)	
14. H	IGH ROCK #2		
	sub for pt. B	(+2.9, +3.9)	
16 N	AHANT COMST GUAR	D GUPOLA 1919	
	office identifi	od (+3.6, +6.4)	

13_ SWAMPSGOTT HIER SCHOOL FINIAL, 1940.
office identified (+0.7) +3.4).
12 SMANIFSCOTT LARGER STANDPIPE, 1934
office identified (+0.7, +18)
11 MARBLEHEAD, ABBOT, TOWER, 1.9.19
office identified (-0.6, +4.4)
10 MARBLEHERD LIGHT HOUSE, 1914
office identified (+2.0, +5.1)
7 MANCHESTER CHURCH PARK SPIRE, 1848
target (-3.5, -5.8)
sub pt A (-4.1, -5.2)
1 MENO 2 (MGS), 1934
torget (+3.8, -0.7)
sub.pl. (+6.2, -1.2)
5 STONEHAVEN (ROCKPORT TOWN (MGS)), 1939
tanget (-2.1, +0.3)
546 pt A (-1.3,+1.6)
546 pt B (-2,0,+1,2)
6 STRAITS MOUTH LIGHTHOUSE, 1902
office identified (-3.1, -5.2)
to the control of the

$\mathcal{A}$
5721P # H
29 DANVERS, COOKE & COCKE CO. CHIMUEY, 1919
HOME STA (-0.78 +0.79)
55 A (-0.01 -0.01)
ES 2 (-1.83 +1.74)
30 BEVERLY UNITED SHOE MFG. CO. STK., 1934
[-0.01 -0.01]
31 DEVERLY OOD FELLOWAY CUPOLA, 1934
(-1.29 +1.55)
32 BEVERLY ST. MARYS CHURCH SPIRE, 1934
(-1.32 -1.09)
33 BEVERLY IST BAPTIST CHURCH, 1914
(41:35 +1.10)
TIE POINTS
12601 (-0.28 -6.78)
12602 (-3.79 -3.20)
13601 (-2.56 -3.47)
14601 (-3.15 -1.53)
•



## DESCRIPTIVE REPORT CONTROL RECORD

SCALE FACTOR	N.A. $1927 - DATUM$ DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 $Ft_t = 3048006$ meter) FORWARD													DATE
SCALE OF MAP 1:5000 SCALE	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE													 CHECKED BY
SCA	DATUM													
PROJECT NO. PH-6601	SOURCE OF INFORMATION (INDEX)			-										DATE
MAP T- 12974 PROJE	STATION		NONE											COMPUTED BY

15

### COMPILATION REPORT T-12974 Porject PH-6601

### 31. <u>DELINEATION</u>:

The mean high water line and some roads were compiled graphically from infrared photographs taken at mean high water. All other features were compiled with the Wild B-8 from color photographs taken at mean low water.

### 32. CONTROL:

See Photogrammetric Plot Report. BOWDITCH LEDGE BEACON 1848 did not hold during compilation. The hydrographer has been asked to verify this position.

### 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 Paragraph 31. The mean low water line, shallow and shoal limits were delineated from office interpretation of the photographs. Rock elevations were determined with the Wild B-8 and are to be verified by the hydrographer.

### 36. OFFSHORE DETAILS:

No statement.

### 37. LANDMARKS AND AIDS:

There are no Landmarks. Form 567 for Aids have been submitted to the Washington Office under date October 27, 1967.

### 38. CONTROL FOR FUTURE SURVEYS:

None

### 39. JUNCTIONS:

Satisfactory junctions have been made with T-12973 (1:5,000 scale) to the West, T-12977 (1:5,000 scale) to the south, T-12980 (1:5,000 scale) to the East, and T-12965 (1:10,000 scale) to the North.

### 40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

### 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 240, scale 1:25,000, 8th edition, revised February 8, 1965 and CHART 241, scale 1:10,000, 3rd edition, dated September 30, 1963, also CHART 1207, scale 1:80,000, 5th edition, dated May 14, 1962, revised May 18, 1964.

### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

### ITEMS TO BE CARRIED FORWARD:

None

Submitted by:

Johnnie S. Place Cartographer

Approved:

Albert C. Rauck, Jr. Chief, Coastal Mapping Section, AMC

Sept. 24, 1973

### GEOGRAPHIC NAMES

### FINAL NAME SHEETS

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

T-12974

Allen Head Beverly Farms Boston and Maine (RR) Bowditch Ledge Chubb Creek Chubb Island Coney Ledge Eagle Island Great Misery Island Hardy Rocks Little Misery Island North Gooseberry Island Plum Cove Pope Head Salem Channel Salem Sound Sauli Rock Smith Point

Prepared by:

West Beach

C. E. Harrington Staff Geographer

17

### 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 edit.
- 4. Object which may be a landmark or new aid. Verify by edit.

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

FORM C&GS-1002			(	I.S. DEPARTMENT OF COMMERCE ESSA
	PH01	OGRAMME"	TRIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
			12974	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4, MANUSCRIPT SIZE
I MOSECHON AND ONIDO			or Management Tromp End	THE INTERIOR OF THE PARTY OF TH
СНВ	СНВ		СНВ	
CONTROL STATIONS				
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ACCURACY	6. RECOVER A OF LESS TO (Topograph)	ABLE HORIZONTAL STATIONS HAN THIRD-ORDER ACCURACY ic stations)	7. PHOTO HYDRO STATIONS
		<u> </u>	x	Х
8. BENCH MARKS	9, PLOTTING OF	FSEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
X	x		Bridge - W.O.	x
ALONGSHORE AREAS (Nautice	el Chart Data)			
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
СНВ	CHB		СНВ	X**
16. AIDS TO NAVIGATION	17. LANDMARKS	3	18. OTHER ALONGSHORE	19. OTHER ALONGSHORE CULTURAL FEATURES
			PHYSICAL FEATURES	CULTURAL FEATURES
CHB	NON	3	СНВ	CHB
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	. GROUND COVER	22. PLANETABLE CONTOURS
CRB	ł		X	X
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
X	х		x	х
CULTURAL FEATURES			<u> </u>	
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
СНВ	CHB		СНВ	CHB
BOUNDARIES 31. BOUNDARY LINES			120	
X			32. PUBLIC LAND LINES	х .
MISCELLANEOUS  33. GEOGRAPHIC NAMES	· <del></del>	34. JUNCTIO		35. LEGIBILITY OF THE
		340 30100 1101		MANUSCRIPT
CHB			CHB	CHB
36. DISCREPANCY OVERLAY	37. DESCRIPTIV	Æ REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
	RES		X	СНВ
40. REVIEWER	•		SUPERVISOR, REVIEW SECTI	ON OR UNIT
CHB Charlo	H.Bishop		ACR albert	c. Rauck. J.
41. REMARKS (See attached sh	noot)			
FIELD COMPLETION ADDITE	ONS AND CORRECT	IONS TO THE	MANUSCRIPT	
42. Additions and correction script is now complete e	ns furnished by the xcept as noted und	e field comple ler item 43.	etion survey have been applied	to the manuscript. The manu-
COMPILER EST	l.		SUPERVISOR	or Rougho
R. E. Smith			A. C. Rauck,	. C. Rauch. J.
43. REMARKS		,		

Field edit applied from Field Edit Ozalid, Field Photos. Nos. 65-S-7335, 65-S-7354, 65-S-7356, 65-S-7357, 65-S-7358

Field Edit Report Job- PH- 660I Boston to Plum Island T- 12973 T- 12974

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, Ew Hartfard E.W.hartford

19 June 1967

cc: CofP 62, CFE/ Rasure

Field Edit Report
Job- PH- 660I
Boston to Plum Island
T- 12973 T- 12974

### General Notes

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Field Edit notations are inked on the following photographs:  $65^{\frac{5}{2}}7334$ , 7335, 7337, 7338, 7354, 7356, 7357, and 7358

Submitted by, Ew Watfard E.W.hartford

19 June 1967

cc: CofP 62. CFE/ Rasure

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE RAVICES ADMINISTRATION
COAST AND GLE ETIC SURVEY

# NONFLOATING AIDS ORXIXANDMARKS FOR CHARTS

|--|

Atlantic Marine Center

October 27, 19 67

I recommend that the following objects which have (kassaxasa) been inspected from seaward to determine their value as landmarks be 1. E.C. The positions given have been checked after listing by charted on KRAKKA KFOM the charts indicated.

E. Smith

USESSA J. Bull, RADM, AMC. Director

240,241 CHARTS AFFECTED Chief of Party. 1207 OLLTHOME CHYPL THAND BROKERS THAND BOBBAN LOCATION 7-12974 5/9/67 METHOD OF COCATION AND BURVEY No. Photo. DATUM N.A. 1927 D. P. METERS 43,3 LONGITUDE 987 POSITION **7**8 0 20 D. M. METERS 24.9 LATITUDE: 767 32 47 • BIGNAL Bowditch Ledge Daybeacon SALEM HARBOR APPROACHES DESCRIPTION MASSACHUSETTS MAIN CHANNEL CHARTING DAYBEACON STATE

Pica Cloid	for animitted Form 567 stating				
method of	method of location as Triangulation; but verified on Field photo that it did not				
hold Trian	hold Triang, position. It is now submitted as Photo. located.		•		
Field edit	Field editor did not submit Form 567 but verified on Field photo & recommended that	-			
it be char	it be charted as a daybeacon.				

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240,241 1207

5/9/67

-12974

Photo.

N.A. 1927

0.5

38.8 1197

12

70 48

در

42

Spindle, approx. 18 ft. high with small metal cage atop

DAYBEACON

¥

MANCHESTER HARBOR

landmarks and nontioning aids to navigation, if redetermined, shall be reported on this form, Revisions shall show both the old and new positions. 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. Positions of charted 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

USCOMM-DC 36485-P66

25

### REVIEW REPORT T-12974

### SHORELINE

### January, 1974

### 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, dated 1919, at 1:10,000 scale. There was only fair general agreement. The date difference preclude any other type of comparison or agreement.

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

### 63. COMPARISON WITH MAPS OF OTHER AGENCIES:

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

### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Direct comparison was made with Boat Sheets H-9046 and H-9095, both dated 1968 and at 1:5,000 scale. There is very good agreement between both surveys.

### 65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with chart 240, May 19, 1973 at 1:25,000 scale. There is good general agreement.

### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Bernard Kurs Cartographer

Bernarkturs

Approved for forwarding:

Victor E. Serena Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch for Chief, Coastal Mapping Division