

T-12979

T-12979

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric) ..Job No. PH-6601 Map No. T-12979

Classification No. Field Edited Edition No.

LOCALITY

State MassachusettsGeneral Locality Boston to Plum IslandLocality Marblehead Harbor1965 TO 1968

Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T - 12979

PROJECT NO. (II): Job PH-6601		
FIELD OFFICE (III): None		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, VA		OFFICER-IN-CHARGE Alfred C. Holmes, Director, AMC
INSTRUCTIONS DATED (II) (III): Field - Aug. 4, 1965 Field - Aug. 19, 1965 Provisional instructions, Aerial photography Office - Oct. 8, 1965 Instructions, Aerotriangulation Office - Jan. 27, 1966 Office - Feb. 2, 1966 Instructions, Aerotriangulation Office - Apr. 28, 1966 Field - May 20, 1966 Supplement I Office - July 11, 1966 Supplement I		
METHOD OF COMPILATION (III): Wild B-8 Plotter and Graphic		
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): This entire map was traced from photo reductions of 1:5,000 scale manuscripts T-12973, T-12974, T-12976 and T-12977.	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV): SEPT. 1975
GEOGRAPHIC DATUM (III): NA 1927		VERTICAL DATUM (III): MHW EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water of mean low water
REFERENCE STATION (III): Lee (USE) 1914		
LAT.: 42°31'54.484"(1681.2m)	LONG.: 70°52'29.863"(681.6m)	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): y = 558, -807.27 Ft. x = 768,475.64 Ft.		STATE MASS ZONE Mainland
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

DESCRIPTIVE REPORT - DATA RECORD

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FIELD INSPECTION BY (III):

None

DATE:

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Air Photo Compilation

Date of Photography: August 24, 1965

PROJECTION AND GRIDS RULED BY (IV):

A.E. Roundtree

DATE

5/26/66

PROJECTION AND GRIDS CHECKED BY (IV):

R. Glaser

DATE

6/1/66

CONTROL PLOTTED BY (III):

C. Blood

DATE

9/16/66

CONTROL CHECKED BY (III):

L. Neterer

DATE

9/16/66

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

H.P. Eichert (W.O.)

DATE

11/1/66

STEREOSCOPIC INSTRUMENT COMPILATION (III):

PLANIMETRY Traced from photo re-
ductions of T-12973, T-12974,
T-12976, and T-12977.

DATE

March 1968

CONTOURS

DATE

MANUSCRIPT DELINEATED BY (III):

R.R. White

DATE

March 1968

SCRIBING BY (III):

DATE

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

C.H. Bishop*

DATE

March 1968

REMARKS:

*Verified tracing, verifield processing of color photos for photo-hydro
support. CHB
3/15/68

DESCRIPTIVE REPORT - DATA RECORD

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3

CAMERA (KIND OR SOURCE) (III):



Wild RC-8 "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65-S-(c)-7219 and 7220	Aug. 31, 1965	07:32	1:30,000	0.2 ft. below MLW*
65-S-(c)-7241	Aug. 31, 1965	07:45	1:30,000	0.3 ft. below MLW*
65-S-6915R thru 6917R	Aug. 24, 1965	08:35	1:30,000	7.9 ft. above MLW*
65-S-6940R	Aug. 24, 1965	08:50	1:30,000	7.9 ft. above MLW*

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston		9.5	11.0
SUBORDINATE STATION: Marblehead		9.1	10.6
SUBORDINATE STATION:			



WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC

DATE: Jan. 1974

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

24

RECOVERED:
17IDENTIFIED:
5

NUMBER OF BM(S) SEARCHED FOR (II):

6

RECOVERED:
4IDENTIFIED
0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

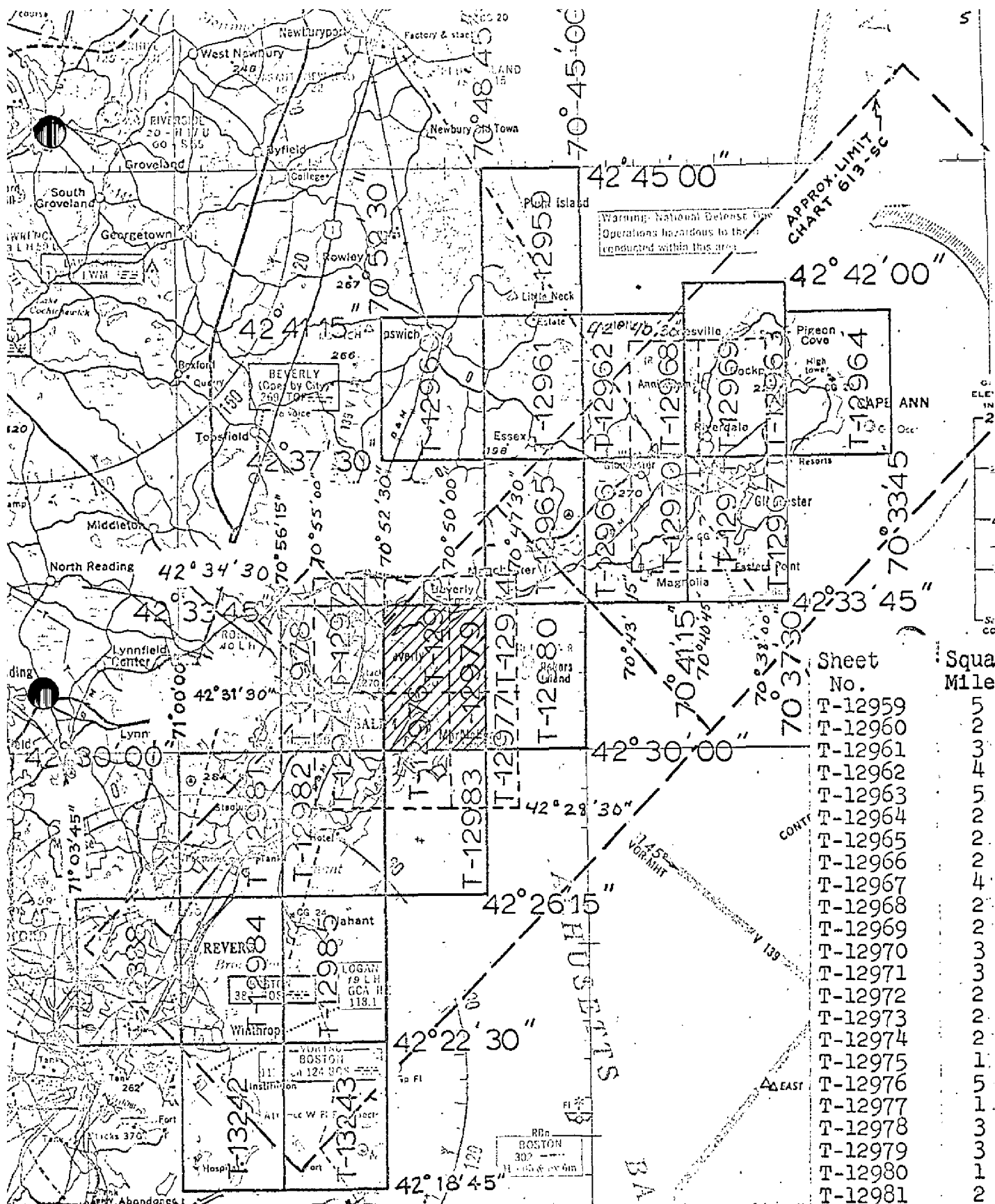
REMARKS:

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



T-12979

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	March 1968	Superseded
Partial Field Edit Applied (T-12973 and T-12974)	March 1968	Superseded
Field Edit Reviewed (T-12973-74 (Transfer). Field Edit Transferred From T-12976 Partial Field Edit Transferred From T-12977.	October 1969 CHB	Superseded
Final Review	Jan. 1974	



JOB PH-6601
BOSTON TO PLUM ISLAND
SHORELINE MAPPING AT 1:5,000 & 1:10,000 SCALE
CHART 613-SC
CHART TOPOGRAPHY AT 1:40,000 SCALE

Sheet No.	Square Mile
T-12959	5
T-12960	2
T-12961	3
T-12962	4
T-12963	5
T-12964	2
T-12965	2
T-12966	2
T-12967	4
T-12968	2
T-12969	2
T-12970	3
T-12971	3
T-12972	2
T-12973	2
T-12974	2
T-12975	1
T-12976	5
T-12977	1
T-12978	3
T-12979	3
T-12980	1
T-12981	2
T-12982	3
T-12983	2
T-12984	3
T-12985	2
T-12388	3
T-13242	3
T-13243	2
TOTAL	79

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

Map T-12979

Project PH-6601

There was no field inspection prior to compilation.

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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 1 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.

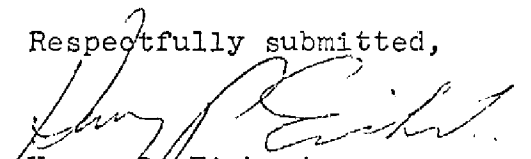
24. Supplemental Data

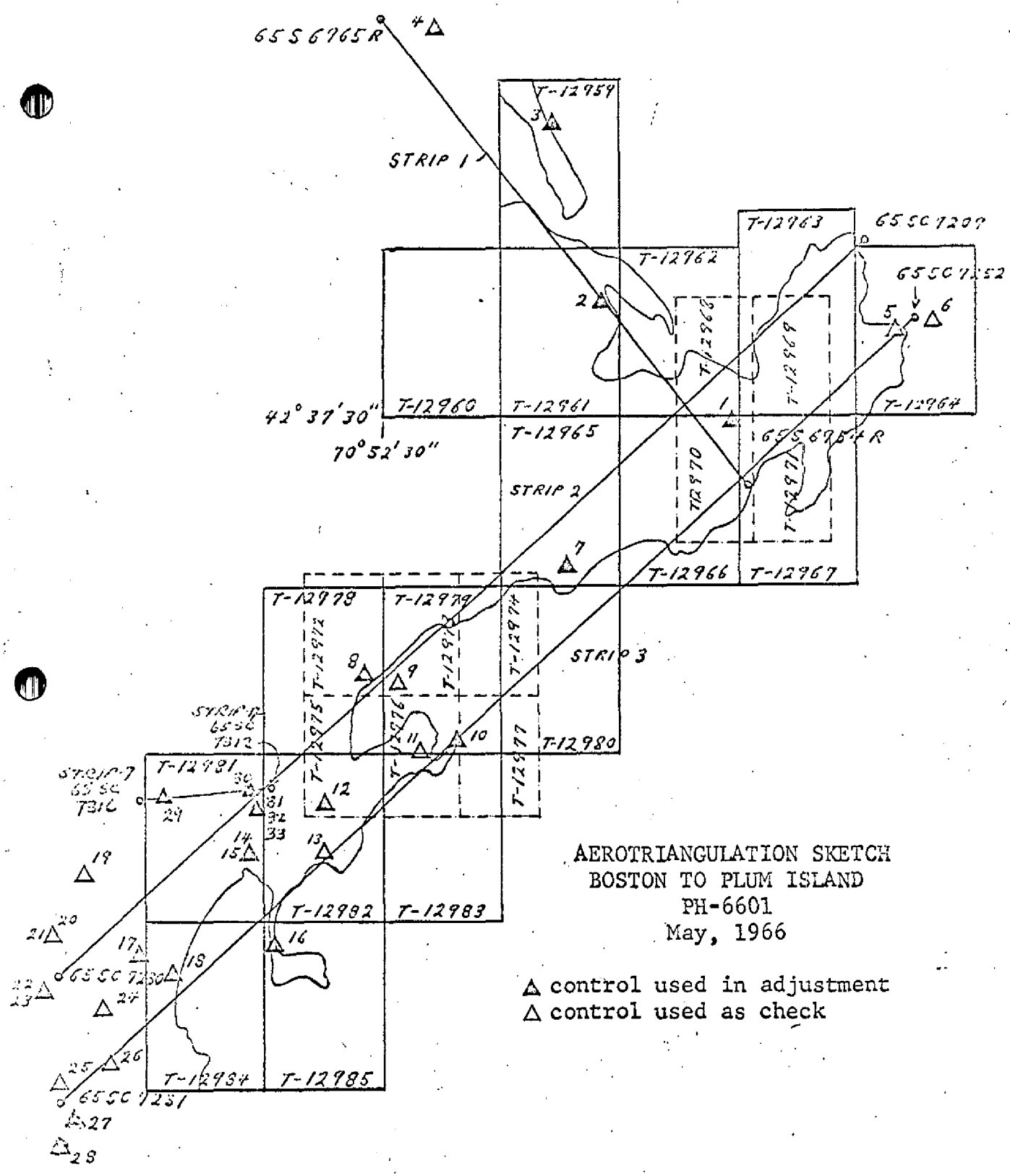
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

25. Photography

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

Respectfully submitted,


Henry P. Eichert



AEROTRIANGULATION SKETCH
BOSTON TO PLUM ISLAND
PH-6601
May, 1966

Fit to control
(feet)

STRIP #1

1 MEAD 2 (MGS), 1934

target (+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

target (+0.5, +0.3)

sub. pt. (-2.8, +4.5)

4 OLD TOWN, 1850

target (-0.2, -0.2)

RM #1 (-0.2, +0.3)

STRIP #2

5 STONEHAVEN (ROCKPORT TOWN (MGS)), 1939

target (+1.2, -2.6)

sub. pt. A (-0.7, -1.6)

sub. pt. B (+1.3, -3.0)

1 MEAD 2 (MGS), 1934

target (0.0, +3.3)

sub. pt. (+0.7, +3.6)

7 MANCHESTER CHURCH DARK SPIRE, 1848

target $(-6.0, +0.8)$

sub. pt. A $(-7.1, +3.1)$

~~sub. pt. B~~

8 SALEM, NEW ENGLAND POWER CO. SOUTH STACK, 1954

office identified $(+4.8, +1.9)$

9 FORT PICKERING LIGHTHOUSE, 1877

office identified $(+6.0, +1.0)$

14 HIGH ROCK 2 (MGS)

sub. pt. A $(+3.2, -4.4)$

sub. pt. B $(+2.0, -2.8)$

15 HIGH ROCK 3, 1943

office identified $(+1.8, -3.7)$

17 REVERE CATHOLIC CHURCH TOWER, 1934

office identified $(-4.0, -4.0)$

19 BOOTH (MGS), 1934

sub. pt. A $(+3.4, -1.4)$

24 CHELSEA QUIGLEY MEM. HOSPITAL W.T., 1958

office identified $(-1.5, +2.2)$

20 MEDFORD RADIO STATION WEEI-FM TOWER, 1958

office identified $(+2.1, -1.0)$

21 MEDFORD TV STATION WNAC TOWER, 1958

office identified $(+5.3, -1.0)$

22 MEDFORD RADIO STATION WEEI NE TOWER, 1958

office identified (+1.4, +3.0)

23 MEDFORD RADIO STATION WEEI SW TOWER, 1958

office identified (+1.7, +3.1)

STRIP #3

23 BOSTON STATE HOUSE, 1934

office identified (+2.6, +5.5)

27 BOSTON CUSTOM HOUSE TOWER, 1916

office identified (+3.7, +4.7)

25 CHARLESTOWN BUNKER HILL MON., 1846

office identified (+2.2, +0.1)

26 EAST BOSTON, BOSTON and ALBANY R.R. TANK, 1916

office identified (+1.6, +5.5)

24 CHESLEA QUIGLEY MEM. HOSPITAL W.T., 1953

office identified (+7.3, -2.0)

17 REVERE CATHOLIC CHURCH TOWER, 1934

office identified (-4.0, -5.0)

18 REVERE BEACH STACK, 1919

office identified (-4.1, -2.2)

14 HIGH ROCK #2

sub ~~pt.~~ pt. B (+2.9, +3.9)

16 NAHANT COAST GUARD GUPOLA, 1919

office identified (+3.6, +6.4)

13 SWAMPSCOTT HIGH SCHOOL FINIAL, 1940

office identified $(+0.7, +3.4)$

12 SWAMPSCOTT LARGER STANDPIPE, 1934

office identified $(+0.7, +1.8)$

11 MARBLEHEAD, ABBOT. TOWER, 1919

office identified $(-0.6, +4.4)$

10 MARBLEHEAD LIGHTHOUSE, 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 MEAD 2 (MGS), 1934

target $(+3.8, -0.7)$

sub.pt. $(+6.2, -1.2)$

5 STONEHAVEN (ROCKPORT TOWN (MGS)), 1939

target $(-2.1, +0.3)$

sub pt A $(-1.3, +1.6)$

sub pt B $(-2.0, +1.2)$

6 STRAITS MOUTH LIGHTHOUSE, 1902

office identified $(-3.1, -5.2)$

STRIP # 4

29 DANVERS, COOKE & ^{KRAUSE} ~~COOKE~~ CO. CHIMNEY, 1919

HOME STA (-0.78 +0.79)

SS "A" (-0.01 -0.01)

SS "B" (-1.83 +1.74)

30 BEVERLY, UNITED SHOE MFG. CO. STK., 1934

(-0.01 -0.01)

31 BEVERLY, ODD FELLOWS LODGE, 1934

(-1.29 +1.55)

32 BEVERLY, ST. MARY'S CHURCH SPIRE, 1934

(-1.32 -1.09)

33 BEVERLY, 1ST BAPTIST CHURCH, 1914

(+1.35 +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 RECORD

CONTROL RECORD



MAP T-12979 PROJECT NO. PH-6601 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION L IN METERS (1 ft. = 3048006 meter) FORWARD (BAC)
LEE (USE) 1914	Vol. I Pg. 507	NA 1927	42° 31' 54.484" 70° 52' 29.863"	1681.2 (170.2) 681.6 (687.7)
FORT PICKERING LIGHTHOUSE 1877	Vol. I Pg. 828	"	42° 31' 34.99" 70° 52' 01.09"	1079.7 (771.7) 24.9 (1344.6)
MARBLEHEAD LIGHTHOUSE 1914	Vol. I Pg. 33	"	42° 30' 19.187" 70° 50' 03.052"	592.0 (1259.4) 69.7 (1300.2)
MARBLEHEAD ABBOT TOWER 1919	Vol. I Pg. 54	"	42° 30' 08.862" 70° 51' 11.081"	273.4 (1578.0) 253.0 (1117.0)
MARBLEHEAD YELLOW STANDPIPE 1934	Vol. I Pg. 53	"	42° 30' 02.555" 70° 51' 54.770"	78.8 (1772.6) 1250.6 (119.4)
HOSPITAL POINT LIGHTHOUSE 1877	Vol. I Pg. 507	"	42° 32' 48.026" 70° 51' 23.304"	1451.0 (400.4) 531.7 (837.3)
KETTLE BOTTOMS BEACON, 1914	Vol. I Pg. 508	"	42° 31' 08.510" 70° 50' 12.823"	262.6 (1588.8) 292.7 (1077.0)
MONUMENT BAR BEACON 1914	Vol. I Pg. 510	"	42° 32' 22.294" 70° 52' 25.558"	687.9 (1163.5) 583.2 (786.0)
MARBLEHEAD WEATHER SERVICE DISPLAY TOWER 1914	Vol. I Pg. 510	"	42° 30' 31.72" 70° 50' 30.28"	978.8 (872.6) 691.3 (678.5)
ABBOT ROCK STONE BEACON 1848	Vol. I Pg. 823	"	42° 31' 48.907" 70° 51' 46.357"	1509.1 (342.3) 1058.0 (311.4)
GREAT AQUA VIT AE STONE. BEACON 1848	Vol. I Pg. 823	"	42° 31' 34.01" 70° 51' 28.26"	1049.4 (802.0) 645.0 (724.5)
LITTLE HASTE BEACON 1848	Vol. I Pg. 825	"	42° 32' 07.14" 70° 50' 35.964"	220.3 (1631.1) 820.7 (548.6)
COMPUTED BY L.L.G.	DATE 10/10/66	CHECKED BY J.P. and A.L.S.	DATE 10/11/66	

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12979 PROJECT NO. PH-6601 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION IN METERS (1 Ft. = 3048006 meter) FORWARD (BAC)	
				773.9	(1077.5)
MARBLEHEAD FIRST CONGREGATIONAL CHURCH 1919	Vol. I Pg. 871	"	42° 30' 25.081" 70° 50' 54.145"	1236.2	(133.7)
MARBLEHEAD NECK 1940	Vol. I Pg. 287	"	42° 30' 17.472" 70° 50' 00.625"	539.1	(1312.3)
				14.3	(1355.6)
COMPUTED BY L.L.G.	DATE 10/10/66	CHECKED BY J.P. and A.L.S.	DATE 10/11/66		

COMPILATION REPORT

Map Manuscript T-12979

Boston to Plum Island

Project PH-6601

31. DELINEATION

This map was compiled in its entirety at 1:5,000 scale on four different map manuscripts, T-12973, T-12974, T-12976 and T-12977. Photographic reductions of the 1:5,000 scale manuscripts were made on cronaflex and all necessary compilation was transferred to T-12979 (scale 1:10,000) by tracing. See the COMPILATION REPORTS for Map Manuscripts T-12973, T-12974, T-12976 and T-12977.

37. LANDMARKS AND AIDS

Form 567 (NONFLOATING AIDS OR LANDMARKS FOR CHARTS) for landmarks and fixed aids to navigation in the area covered by this map manuscript have been submitted with T-12973, T-12974, T-12976 and T-12977 and are not repeated for this map.

Submitted:

*Charles H. Bishop*Charles H. Bishop
Cartographer

Approved:

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

Sept. 24, 1973

GEOGRAPHIC NAMES

FINAL NAME SHEETS

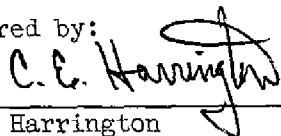
Ph-6601 (Boston to Plum Island, Mass.)

T-12979

Abbot Rock
Allen Head
Beverly
Beverly Cove
Beverly Harbor
Black Joe Pond
Black Rock
Boston and Maine (RR)
Brown Island
Cat Cove
Cat Island
Cat Island Channel
Cloutman Point
Coney Island
Coney Ledge
Cove Village
Curtis Point
Dolliber Cove
Dolliber Point
Eagle Island
Fluen Point
Fort Pickering
Fort Sewall
Gerry Island
Grays Rock
Great Aquavitae
Great Haste
Hospital Point
Jack Point
Juniper Point
Kettlebottom
Little Aquavitae
Little Haste

Mackerel Cove
Marblehead
Marblehead Channel
Marblehead Harbor
Marblehead Neck
Marblehead Rock
Middle Ground
Mingo Beach
Monument Bar
Naugus Head
Patch Beach
Peach Point
Reds Pond
Salem Harbor
Salem Neck
Salem Sound
Smith Point
Winter Island
Woodbury Point

Prepared by:



C. E. Harrington
Staff Geographer

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".

PHOTOGRAMMETRIC OFFICE REVIEW
T- 12979

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X
8. BENCH MARKS CHB	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT CHB	11. DETAIL POINTS CHB
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE CHB	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES CHB
16. AIDS TO NAVIGATION CHB	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES CHB	21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS X
23. STEREOSCOPIC INSTRUMENT CONTOURS X	24. CONTOURS IN GENERAL X	25. SPOT ELEVATIONS X	26. OTHER PHYSICAL FEATURES X
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS CHB	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES X		32. PUBLIC LAND LINES X	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB	34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS X	39. FORMS CHB
40. REVIEWER Charles H. Bishop 10/31/69		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER: B.L. Barge 1/6/68 & 11/9/68 L.O. Neterer 9/13/68		SUPERVISOR Albert C. Rauck, Jr.	
Reviewer: C.H. Bishop 10/31/69 CHB		Albert C. Rauck, Jr.	
43. REMARKS Field Edit Applied From Photo Reductions of 1:5000 Scale Manuscripts T-12973, T-12974, T-12976 and T-12977.			

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FIELD EDIT REPORT

Map T-12979

Project PH-6601

There was no field edit done in this area at 1:10,000 scale.
For field edit on this map, See FIELD EDIT REPORTS with the 1:5,000
scale maps from which T-12979 was compiled, (T-12973, T-12974, T-12976
and T-12977).

* Field Editor submitted Form 567 stating method of location as Triangulation; but verified on the Field Photo. that it did not hold the triangulation position. It is now submitted as Photogrammetrically located.

** 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.

NONFLOATING AIDS AND LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

Atlantic Marine Center

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

The positions given have been checked after listing by

R. E. Smith

J. Ball, RADM, USNCGA

Director, USNCGA

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	MAJOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE									
				D	M	D	M	S	D						
				°	'	°	'	"							
MASSACHUSETTS		SALEM HARBOR APPROACHES													
		MAIN CHANNEL													
	LIGHT	Hospital Point Range Front Light (Hospital Point Lighthouse 1877)		42 32	17.026	70 51	23.304	N.A.	Triang. Verifi. T-1297	5/9/67	X	X		240, 241 1207	
	DAYBEACON	Little Haste Daybeacon		42 32	07.2	70 50	35.8	N.A.	Photo. T-1297	5/9/67	X	X		240, 241 1207	
	DAYBEACON	Abbott Rock Daybeacon (Abbott Rock Stone Beacon 1848)		42 31	18.507	70 51	16.357	N.A.	Triang. T-1297	5/9/67	X	X		240, 241 1207	
	LIGHT	Fort Pickering Light (Fort Pickering Lighthouse 1877)		42 31	21.09	70 52	01.09	N.A.	Triang. T-1297	5/9/67	X	X		240, 241 1207	
	DAYBEACON	Great Aquinnas Daybeacon		42 31	34.3	70 51	27.8	N.A.	Photo. T-1297	5/9/67	X	X		240, 241 1207	
		SALEM SOUTH CHANNEL													
	DAYBEACON	Little Aquavitae Daybeacon		42 31	34.3	70 51	13.1	N.A.	Photo. T-1297	5/9/67	X	X		240, 241 1207	
		BANKS NORTH CHANNEL													
	Monument Bar Daybeacon (Monument Bar Beacon 1914)		42 32	22.294	70 52	25.558	N.A.	Triang. Verifi. T-1297	5/9/67	X	X		240, 241 1207		

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 landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be 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

NONFLOATING AIDS OR MARKERS FOR CHARTS

TO BE CHARTED
TO BE RECORDED
TO BE DELETED

STRIKE OUT TWO

Nov. 12 1968

I recommend that the following objects which have ~~been~~^{been} inspected from scaward to determine their value as landmarks be charted on ~~the~~^{the} charts indicated.

The positions given have been checked after listing by

B. Barge

Director, AMC	Chief of Party.
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[illegible]

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

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 08-22-2011 BY 60322
TO BE DELETED

NON-TOOTH-TOOTH OR LANDMARKS FOR CHARTS

STRIKE OUT 2:40

Atlantic Marine Center

Nov. 12 1968

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be reboarded ~~and~~ (deleted from) the charts indicated.

The positions given have been checked after listing by

B. Barge.

Director, AIC

Chief of Party

[illegible]

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 landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be 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 30403-B1

TO BE CHARTED
UNDETERMINED
UNDETERMINED

STRIKE OUT TWO

RECOMMENDED REMOVAL OF LANDMARKS FOR CHARTS

Atlantic Marine Center

Jan. 10, 1969

I recommend that the following objects which have *(been inspected from seaward to determine their value as landmarks be checked on 62-677-255253)* the charts indicated.

The positions given have been checked after listing by

Lowell O. Meterer, Jr.

Allen L. Powell

Director, AGC

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE									
				D. M. METERS	"	D. M. METERS	"	D. M. METERS	"						
				D. M. METERS	"	D. M. METERS	"	D. M. METERS	"						
MASSACHUSETTS		SALEM HARBOR APPROACHES													
		MARBLEHEAD HARBOR													
CHURCH TOWER		Church Tower Wood White Dark Top Ht. = 85(135) ft.		42 30	17.05	70 51	04.38	N.A. 1927	6/7/68	X	X		241, 240 1207		
STANDPIPE		Standpipe steel grey Ht. = 100(180) ft.		"	36.59	"	27.38	"	"	X	X		241, 240 1207		
STACK		Stack Brick, yellow Ht. = 70 (135) ft.		"	11.29	"	625	"	"	X			241, 240 1207		
TOWER		Radio Tower Steel Ht. = 187(227)		42 31	47.67	"	30.88	"	"	X	X		241, 240 1207		
OBS. TOWER		Obs. Tower Concrete, green Ht. = 55(95) ft.		"	06.0	"	41.53	"	"	X	X		241, 240 1207		
FLAGPOLE		Flagpole wood white; gold ball atop Ht. = 35(45) ft.		42 29	184	70 50	14.67	"	6/13/68	X	X		241, 240 1207		
		SALEM HARBOR APPROACHES		"	16.33	"	31.70	"	"	X			241, 240 1207		
					504	"	724	"	"						
FLAG TOWER		(Marblehead Weather Service Display Tower 1911) Skeleton Steel ht=75(105) ft.		42 30	31.72	70 50	30.28	N.A. 1927	6/7/68	X	X		241, 240 1207		
STANDPIPE		(Marblehead Yellow Standpipe, 1934) Steel ht=100(175) ft.		"	978.8	70 51	691.3	"	"	X	X		241, 240 1207		
TOWER		(Marblehead Abbot Tower, 1919) Brick ht = 155(215) ft.		"	02.555	"	54.770	"	6/13/68	X	X		241, 240 1207		
CHURCH TOWER		(Marblehead First Congregational Church, 1919) Wood ht=95(135) ft.		"	78.8	70 50	1250.6	"	6/7/68	X	X		241, 240 1207		

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-48 to 7-52, inclusive, and 11-50. The charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

25

Atlantic Marine Center

Jan. 10 1969

The positions given have been checked after listing by

Lowell O. Neter, Jr.
Allen L. Powell

Director, AMC

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-46, 7-18 to 22 inclusive, and Fig. 79. Positions which are landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given in accordance with the following:

* TABULATE SECONDS AND METERS



TO BE CHARTED
TO BE CHARTED
TO BE CHARTED

STRIKE OUT TWO

LANDMARKS FOR CHARTS

Atlantic Marine Center, Norfolk, Va., Dec. 20 19 72

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

Richard R. White

Richard R. White

Alfred C. Holmes

Director, A.M.C. Chief of Party.

STATE MASSACHUSETTS				POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE*		LONGITUDE*		DATUM									
			° ' "	D.P. METERS	° ' "	D.P. METERS										
	SALEM HARBOR APPROACHES															
	SOUTH CHANNEL															
TANK	Marblehead YMCA Water Tank Elevated		42 30	43.00 1333	70 48	56.50 1262	N.A. 1927	Photo. T-12979	06/07/58	X	X				240, 241 1207	
							</									

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 landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be 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

REVIEW REPORT T-12979

SHORELINE

JANUARY, 1974

61. GENERAL STATEMENT:

See Summary page six (6) of the Descriptive Report.

This survey consists of four 1:5,000 scale manuscripts as follows: T-12973, T-12974, T-12976 and T-12977. Reductions were made of the manuscripts and planimetry was transferred by tracing. Reports for the four individual 1:5,000 scale sheets are included in this report.

62. thru 65. See above.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

Questions regarding the position of three daybeacons (page 22 of this report) were not resolved during compilation or final review. It is recommended that the problem be referred to field parties convenient to the area as opportunity offers.

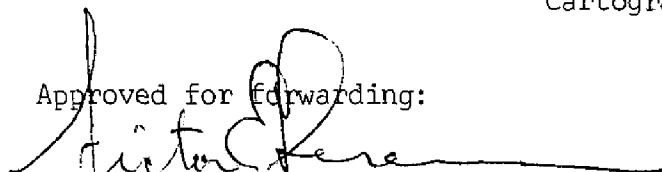
This survey complies with project instructions and meets the National Standards of Map Accuracy.

Review by:



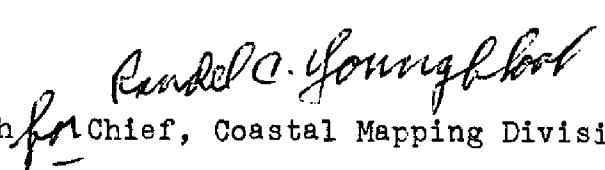
Bernard Kurs
Cartographer

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch  Chief, Coastal Mapping Division

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 supersedes 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:

Bernard Kurs
Bernard Kurs
Cartographer

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 Marblehead 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.

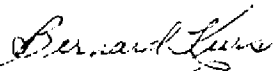
65. COMPARISON WITH NAUTICAL CHARTS:

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

REVIEW REPORT T-12976

SHORELINE

December, 1973

61. GENERAL STATEMENT:

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with Registered Survey 3766 at 1:10,000 scale, ~~and~~ dated 1919. There is only general agreement of the two surveys because of the date difference and the difference of datum.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quads Marblehead North and Marblehead South, Mass. dated 1956 at 1:24,000, scale. There is good general agreement. Because of the difference in scale only a visual comparison could be made.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boat Sheets H-9010 and H-9012 at 1:5,000 scale dated 1968. Also, with Boat Sheet H-9094 at 1:10,000 scale dated 1969. There was very good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 241 at 1:10,000, scale dated July 29, 1972. There was very good agreement between the two. The only significant difference is the location of a long pier at Cloutman Pt. This is shown on the discrepancy print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

REVIEW REPORT T-12977

SHORELINE

December, 1973¹

61. GENERAL STATEMENT:

There is no field edit ozalide or field edit report for this survey. The compiler refers to a hydro edit sheet as a source of field edit corrections. This sheet was not forwarded with the survey and cannot be located in the compilation section.

See summary which is page 6 of the descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with Registered Survey 3766, 1919 at 1:10,000 scale. Because of a datum difference only a visual comparison was made. The only apparent changes are natural ones and the time interval between the surveys account for them.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangles Marblehead North and Marblehead South, Mass., 1956 at 1:24,000. The visual comparison between the surveys was very good.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boat Sheet H-9012, 1968 at 1:5,000 scale. Both surveys are in good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 241, July 29, 1972 at 1:10,000 scale. The only significant differences ^{shoreline} ^{were} Cat Island and the adjacent islets. The shorelines show considerable change. A visual check with Chart 240, May 19, 1973 at 1:25,000 scale shows a different shape to South Gooseberry Island. The changes dealing with Cat Island and vicinity are shown in red on the discrepancy print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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