

T-12983

T-12983

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-12983

Classification No. Edition No.

Field Edited

LOCALITY

State MassachusettsGeneral Locality Boston to Plum IslandLocality Marblehead Neck

19 65 TO 19 68

Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-12983

SUBJECT 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 II		
METHOD OF COMPILATION (III): Wild B-8 and Graphic		
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:15,000 Pantographed to 1:10,000	
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 MEAN SEA LEVEL 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 or mean lower low water
REFERENCE STATION (III): Great Pig Rock (USE), 1940		
LAT.: 42°27'595" (1376.0m)	LONG.: 70°51'09.925" (226.8m)	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): y = 533,556.10 Ft. x = 774,652.71 Ft.		STATE: Massachusetts 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

T-12983

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 5/27/66
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser		DATE 6/1/66
CONTROL PLOTTED BY (III): L. Neterer		DATE 9/21/66
CONTROL CHECKED BY (III): C. Blood		DATE 9/21/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): H.P. Eichert		DATE 11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY L. Neterer *	DATE
	CONTOURS NA	DATE
MANUSCRIPT DELINEATED BY (III): R. White *		DATE 10/1/67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): A.L. Shands		DATE
REMARKS: *All detail north of Lat. 42° 28' 30" was traced from reductions of manuscripts T-12976 and T-12977.		

DESCRIPTIVE REPORT - DATA RECORD

T-12983

CAMERA (KIND OR SOURCE) (III):



Wild RC-8 "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65 S(c) 7240,7241	Aug. 31, 65	07:44	1:30,000	0.3 ft. below MLW*
65 S 6938R,6939R	Aug. 24, 65	08:50	1:30,000	8.7 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:
December, 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 6

RECOVERED:
3IDENTIFIED:
0

NUMBER OF BM(S) SEARCHED FOR (II): 0

RECOVERED:
0IDENTIFIED
0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0

REMARKS:

*The stage of tide at the time of photography was determined by readings on a staff at Ten Pound Island. See Instructions, Office dated April 28, 1966.

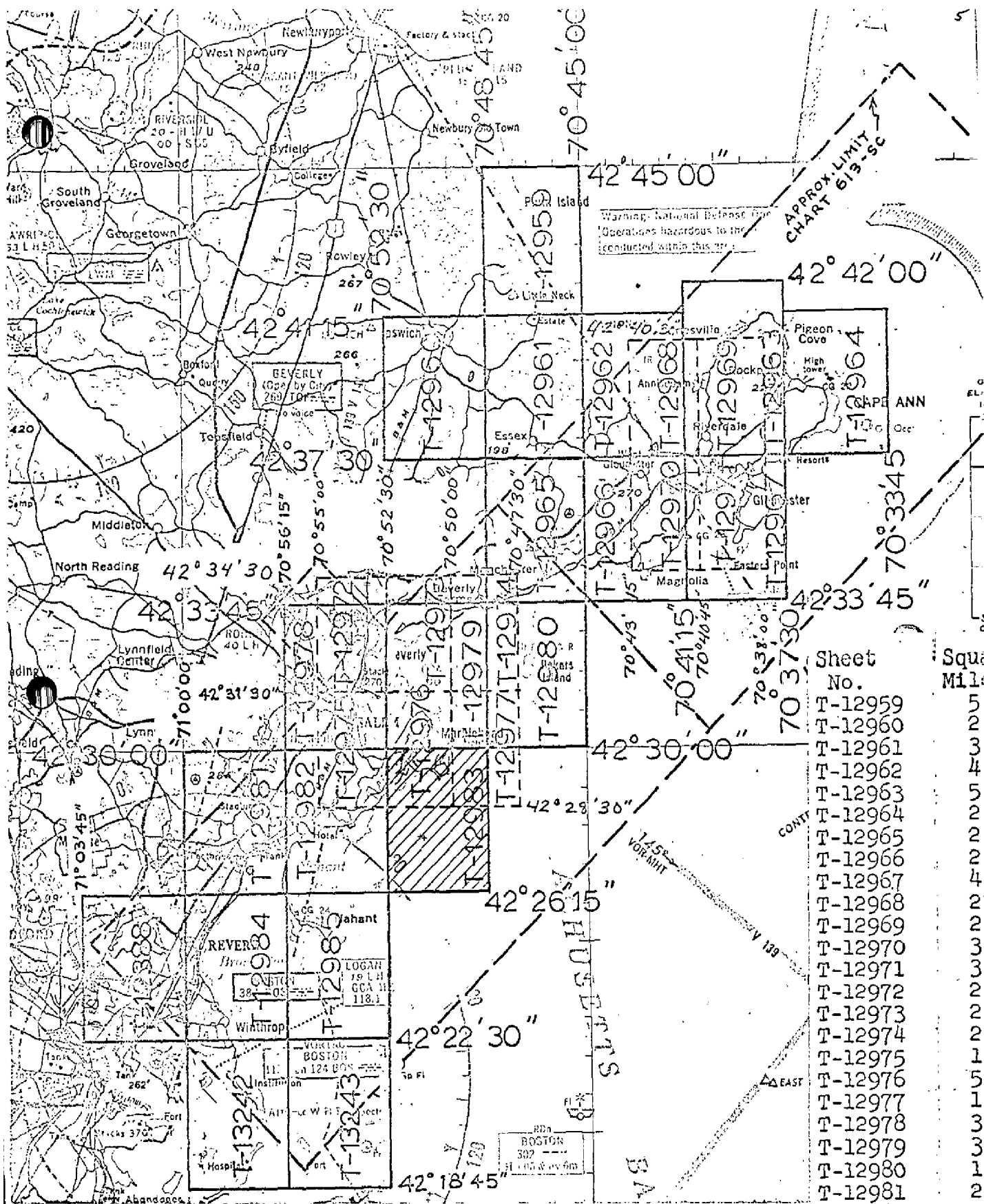
T-12983

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	March, 1968	Superseded
Field Edit applied from reductions of T-12976 and T-12977	Nov., 1969	Superseded
Final Review	Dec., 1973	



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

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-12983

Project PH-6601

There was no field inspection prior to compilation.

8

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.

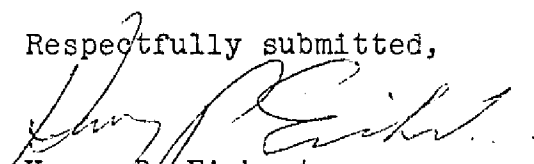
24. Supplemental Data

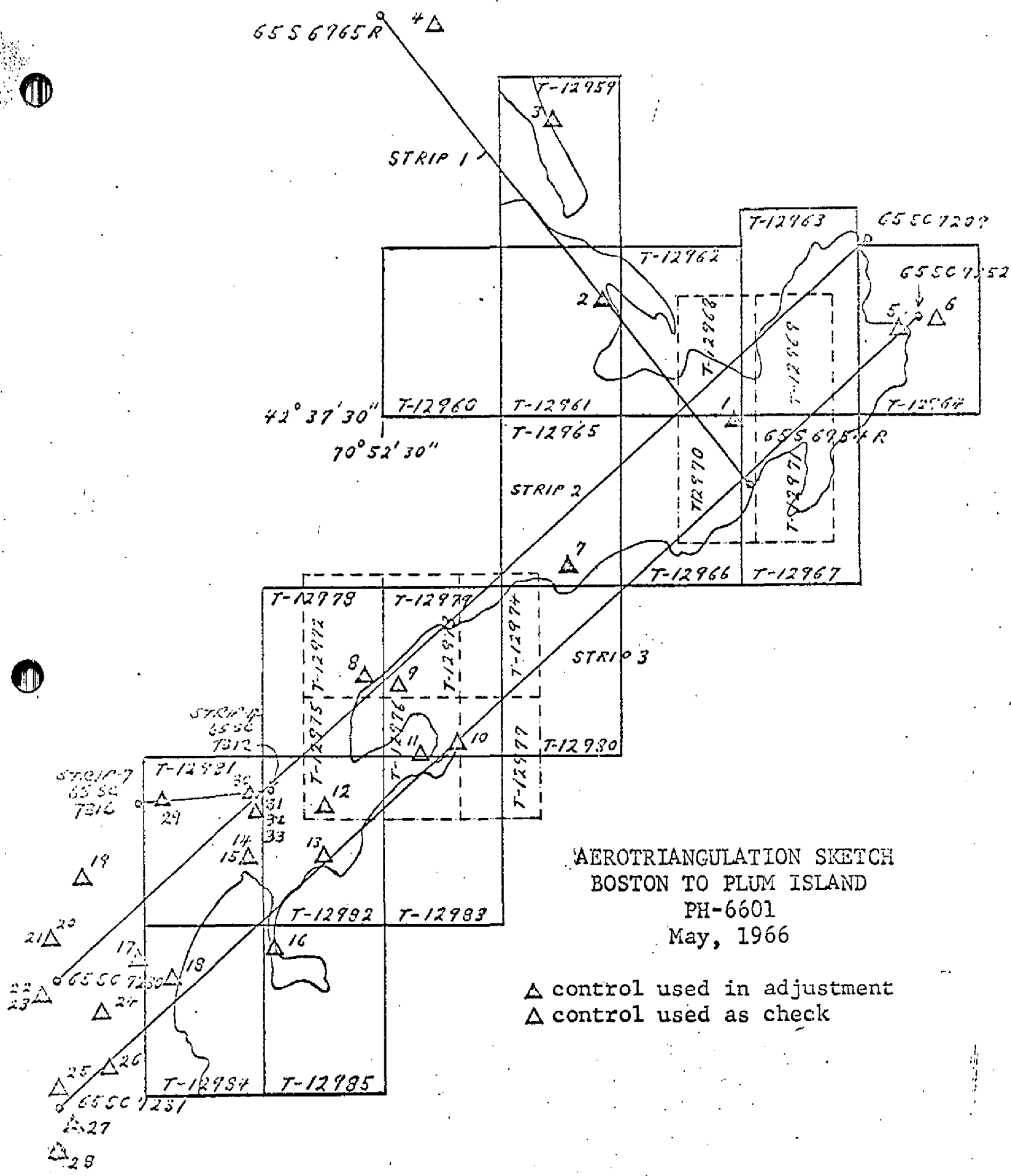
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

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

△ control used in adjustment
△ control used as check

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

~~and~~ 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., 1958

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 CUPOLA, 1919

office identified (+3.6, +6.4)

13 SWAMPSCOTT HIGH SCHOOL FINIAL, 1940

office identified $(+0.7, +3.4)$

12 SWAMPSCOTT LARGER STAND PIPE, 1934

office identified $(+0.7, +1.8)$

11 MARBLEHEAD, ABERT 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} 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 CUPOLA, 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)

COMPILATION REPORT

Map T-12983

Project PH-6601

All map features north of Lat. $42^{\circ} 28' 30''$ were compiled at 1:5,000 scale on T-12976 and T-12977, photographically reduced to 1:10,000 scale, then transferred to the manuscript for T-12983 by tracing. See the COMPILATION REPORTS for T-12976 and T-12977.

There are no non-floating aids of landmarks on this map that have not been submitted with T-12976 and T-12977. Copies of Form 567 for these maps are submitted as part of this report.

Great Pig Rocks and ledges in that vicinity were mapped at 1:10,000 scale by setting Model 65 S 7239-7240.

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-12983

Boden Point
Castle Rock
Devereux
Devereux Beach
~~Dolphin Rock~~
Flying Point
Great Pig Rocks
Ladys Cove
Little Pig Rocks
Marblehead
Marblehead Channel
Marblehead Harbor
Marblehead Neck
Massachusetts Bay
Ram Island
Roaring Bull
~~Sunny Rock~~
Skinner Head
Southwest Breakers
Tinkers Island
Tom Moore Rock

Prepared by:

C. E. Harrington
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- 12983

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE ALS
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 X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT Bridge - W.O.	11. DETAIL POINTS ALS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. ALS	15. BRIDGES XX
16. AIDS TO NAVIGATION ALS	17. LANDMARKS ALS	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES ALS	21. NATURAL GROUND COVER XX		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS ALS	26. OTHER PHYSICAL FEATURES ALS
CULTURAL FEATURES			
27. ROADS ALSQ	28. BUILDINGS ALS	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS	34. JUNCTIONS ALS		35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY LON	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS ALS
40. REVIEWER A.L. Shands		SUPERVISOR, REVIEW SECTION OR UNIT Aug. 8, 1972 A.C. Rauck, Jr. <i>Albert C. Rauck, Jr.</i>	
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 Lowell Neterer Reviewer: Charles H. Bishop <i>CHB</i>		SUPERVISOR <i>Albert C. Rauck, Jr.</i>	
43. REMARKS Field Edit Applied: Reductions of T-12976 and T-12977.			

NONFLOATING AIDS TO NAVIGATION FOR CHARTS

TO BE CHARTED
TO BE CHARTED
TO BE CHARTED

Atlantic Marine Center

Jan. 10 1969

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

The positions given have been checked after listing by

Lowell O. Neterer, Jr.

Allen L. Powell

Director, AMC

Chief of Party

STATE	MASSACHUSETTS	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF XXXXXXXX Verifi.	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
					LATITUDE		LONGITUDE									
					° ' "	D.M. METERS	° ' "	D.P. METERS	DATUM							
LIGHT	SALEM HARBOR APPROACHES	MARBLEHEAD HARBOR	Marblehead Light (Marblehead Lighthouse, 1914) Ht. " 108 (137) ft.	42 30	19.187 592.0	70 50	03.052 69.7	N.A. 1927	Triang T-12976	6/7/68	x	x			241, 240 1207	
DAYBEACON	SALEM SOUTH CHANNEL	Kettlebottom Daybeacon (Kettle Bottoms Beacon, 1914)		42 31	08.510 262.6	"	12.823 292.7	"	"	6/7/68	x	x			241, 240 1207	
DAYBEACON	NAHANT BAY APPROACH	Roaring Bull Daybeacon (Roaring Bull Ledge Beacon, 1916)		42 28	14.466 1433.8	"	14.633 334.2	"	"	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, 7-18 to 22 inclusive, and Fig. 79. Positions of charted land aids 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 corrected for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TIME OF SECONDS AND METERS

USCGM-DC 13234-2-61

TO BE CHARTED
UNDETERMINED
UNDETERMINED

STRIKE OUT TWO

MASSACHUSETTS

Atlantic Marine Center

Jan. 10 19 69

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

The positions given have been checked after listing by

Lowell O. Neterer, Jr.

Allen L. Powell

Director, AMC

Chief of Party

STATE MASSACHUSETTS			POSITION										METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	MAJOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE					DATUM								
			°	'	D.M. METERS	°	'	D.P. METERS										
	SALEM HARBOR APPROACHES																	
	MARBLEHEAD HARBOR																	
CHURCH TOWER	Church Tower Wood White Dark Top Ht. = 85(135) ft.		42	30	17.05 526	70	51	04.38 100	N.A. 1927			X	X				241, 240 1207	
STANDPIPE	Standpipe steel gray Ht. = 100(180) ft.		"	"	36.59 11.29	"	"	27.38 625	"			X	X				241, 240 1207	
STACK	Stack Brick, yellow Ht. = 70(135) ft.		"	"	47.67 1471	"	"	30.88 705	"			X					241, 240	
TOWER	Radio Tower Steel Ht. = 187(227)		42	31	06.0 184	"	"	41.53 948	"			X	X				241, 240 1207	
OB.S. TOWER	Obs. Tower Concrete, green Ht. = 55(95) ft.		42	29	28.23 871	70	50	14.67 335	"			X	X				241, 240 1207	
FLAGPOLE	Flagpole wood white, gold ball atop Ht. = 35(45) ft.		"	"	16.33 504	"	"	31.70 724	"			X					241, 240	
	SALEM HARBOR APPROACHES																	
FLAG TOWER	(Marblehead Weather Service Display Tower 1914) Skeleton Steel ht=75(105) ft.		42	30	31.72 978.8	70	50	30.28 691.3	N.A. 1927			X	X				241, 240 1207	
STANDPIPE	(Marblehead Yellow Standpipe, 1934) Steel ht=100(175) ft.		"	"	02.555 78.8	70	51	54.770 1250.6	"			X					241, 240 1207	
TOWER	(Marblehead Abbot Tower, 1919) Brick Ht = 155(215) ft.		"	"	08.862 273.4	"	"	11.081 253.0	"			X					241, 240 1207	
CHURCH TOWER	(Marblehead First Congregational Church, 1919) Wood ht=95(135) ft.		"	"	25.081 773.9	70	50	54.145 1236.2	"			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, 7-18 to 22 inclusive, and Fig. 29. Positions of charted landmarks and *nonfloating aids* to navigation, if determined, 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

USCGC-DC 13234-P41



NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE CHARTED~~
~~TO BE CHARTED~~

STRIKE OUT TWO

Nov. 12 19 68

Atlantic Marine Center

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(221212/10/68)~~ the charts indicated.

The positions given have been checked after listing by

B. Barge
B. Barge

Howard A. Cole
Director, AMC

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		DATUM							
				D. P. METERS	D. P. METERS	D. P. METERS	D. P. METERS								
MASSACHUSETTS		SALEM HARBOR APPROACHES													
		CAT ISLAND CHANNEL													
	DAYBEACON	Satan Rock Daybeacon (Satan Rocks Beacon 1914)		42 30	36.535 1127.3	70 48	03.330 76.0	N.A. 1927	Triang. T-12977	Verifi. 10/2/67	x			240, 241	
	DAYBEACON	Brimbles Daybeacon (Brimbles Beacon 1914)		42 31	16.170 498.9	70 48	30.263 690.8	"	"	Verifi. 10/2/67	x			240, 241	
MASSACHUSETTS		MARBLEHEAD CHANNEL													
	DAYBEACON	Tom Moore Rock Daybeacon (Tom Moore's Rock Beacon 1914)		42 29	41.270 1273.4	70 49	48.699 1112.1	"	"	Verifi. 6/7/68	x			240, 241 1207	
MASSACHUSETTS															
MASSACHUSETTS															

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

TO BE DELETED

STRIKE OUT TWO

NONKNOCKING CALLS FOR LANDMARKS FOR CHARTS



Atlantic Marine Center

Jan. 10 1969

I recommend that the following objects which have ~~been~~ ^{been} inspected, from seaward to determine their value as landmarks be ~~retained~~ ^{retained} ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

Lowell O. Neter, Jr.

Allen L. Powell

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-19, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloting 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 TERTIARIES

15271-1531

REVIEW REPORT T-12983

SHORELINE

DECEMBER, 1973

61. GENERAL STATEMENT:

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

The mainland areas of this survey is covered by T-12976 and T-12977 at 1:5,000 scale. This has been reduced in size to be included on this survey of 1:10,000 scale. The area of 24° 28' 30" is classified as Class III since no field inspection report or data can be found.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

See reports for T-12976 and T-12977.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Marblehead South, MA, 1956 at 1:24,000 scale. Visual comparison showed good agreement with the following exception, Sammy Rock could not be positively identified on the low water photography. The low water photography was flown at a stage of tide 3 ft. below mean low water.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

See reports for T-12976 and T-12977. The area around Ram Island and further south was not available in this office at this time.

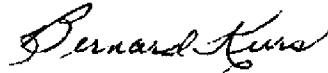
65. COMAPRISON WITH NAUTICAL CHARTS:

See reports for T-12976 and T-12977.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

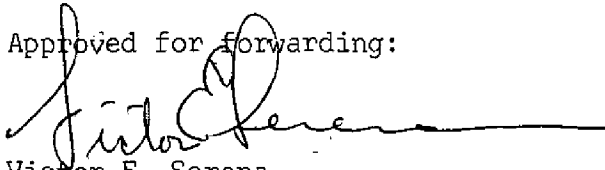
This survey meets project instructions and the National Standards of Map Accuracy.

Reviewed by:



Bernard Kurs
Cartographer

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch  for Chief, Coastal Mapping Division

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, 1973

61. GENERAL STATEMENT:

There is no field edit 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.