

T-12981

T-12981

FORM C&GS-504	
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>Shoreline (Photogrammetric)</u>	
Field No.	Office No. <u>T-12981</u>
LOCALITY	
State <u>Massachusetts</u>	
General locality <u>Boston to Plum Island</u>	
Locality <u>Lynn Harbor</u>	
<u>1965-69</u>	
CHIEF OF PARTY	
Alfred C. Holmes, Director, AMC	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T-12981

OBJECT NO. (II): Job - Ph-6601		
FIELD OFFICE (II): None		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center		OFFICER-IN-CHARGE Alfred C. Holmes, Director, AMC
INSTRUCTIONS DATED (II) (III): Field-August 4, 1965 Field-May 20, 1966 - Supplement I Office-Jan. 27, 1966 Office-April 28, 1966 Field-August 19, 1965 Provisional Instructions, Aerial Photography Office-Oct. 8, 1965 Aerotriangulation Office-Feb. 2, 1966 Aerotriangulation Office-July 11, 1966 Supplement I		
METHOD OF COMPILATION (III): 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 NA 1927 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): HIGH ROCK 3, 1934		
LAT.: 42°28'04.428" (136.6M)	LONG.: 70°56'49.004" (1119.5M)	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): Y = X =		STATE Massachusetts ZONE Mainland
MAN 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 (II):		DATE:
None		
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):		DATE
A.E. Roundtree		5/27/66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		6/1/66
CONTROL PLOTTED BY (III):		DATE
L. Neterer		9/19/66
CONTROL CHECKED BY (III):		DATE
A. Santillan		9/19/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Henry P. Eichert		11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	B.H. Barnes	4/27/67
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
C.H. Bishop and B. Wilson		10/18/67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
A.C. Rauck, Jr.		Nov. 21, 1967
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

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 AREA (KIND OR SOURCE) (III):

Wild RC '8'

PHOTOGRAPHS (III) Tide Controlled

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65-S-(c)-7225 & 7226	31 Aug. 65	08:39	1:30,000	0.1 Ft. below MLW*
65-S-6920 R thru 6922 R	24 Aug. 65	08:41	1:30,000	8.3 Ft. above MLW*

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston		9.5	11.0
SUBORDINATE STATION: Lynn Harbor		9.2	10.7
SUBORDINATE STATION:			

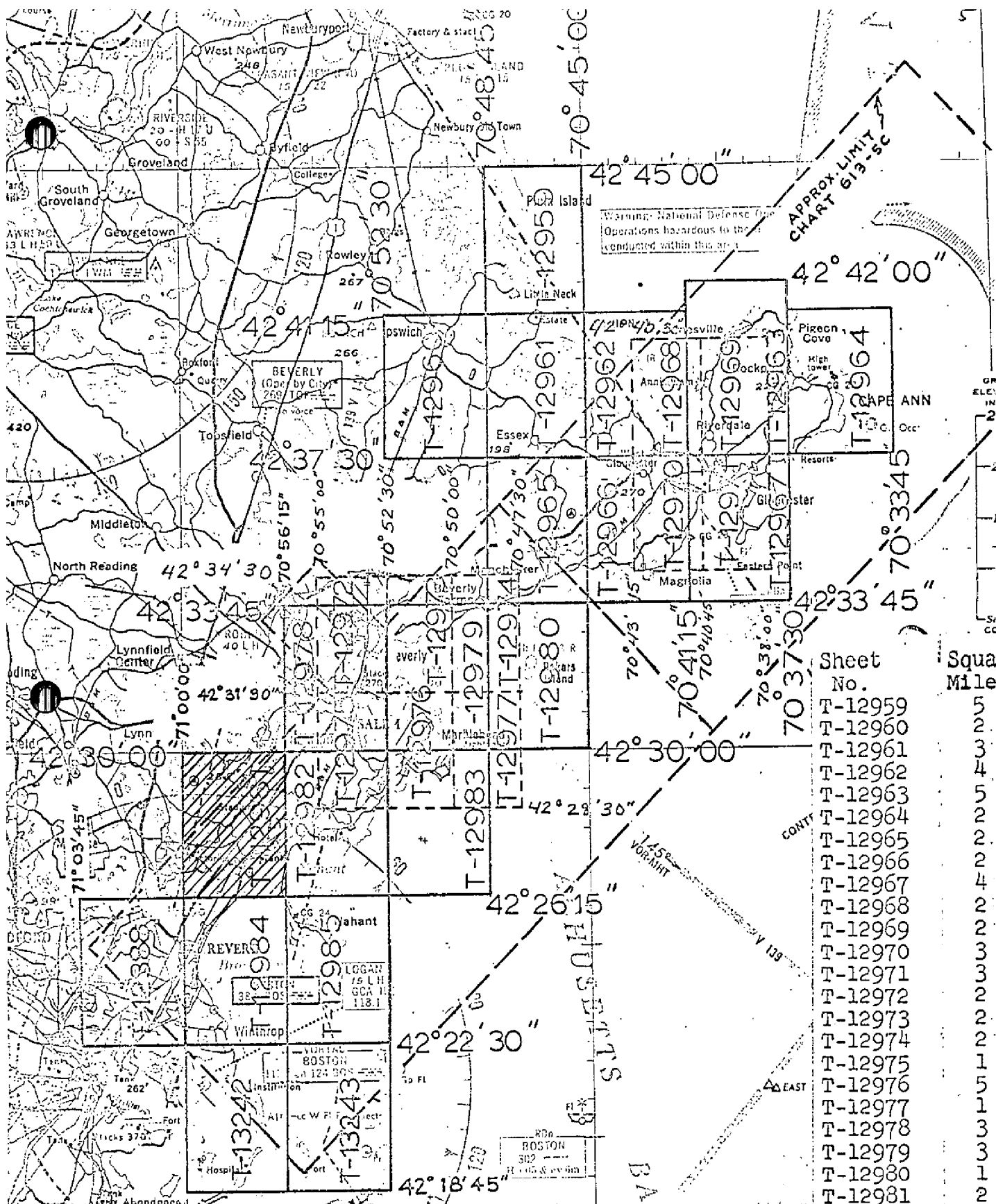
WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC	DATE: Nov. 1973
PROOF EDIT BY (IV):	DATE:
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 17	RECOVERED: 15 IDENTIFIED: 13
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED: 0 IDENTIFIED: 0
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0	
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None	

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 28 April 1966.

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COMPILATION RECORD	COMPLETION DATE	REMARKS
Ready for lot review Alongshore area for hydro	Oct. 18, 1967	Superseded
Advance field edit applied	Oct. 1969	Superseded
Final Review	Nov. 1973	



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	70

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-12981

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 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.

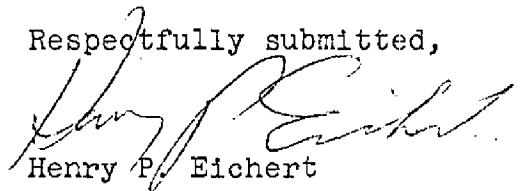
24. Supplemental Data

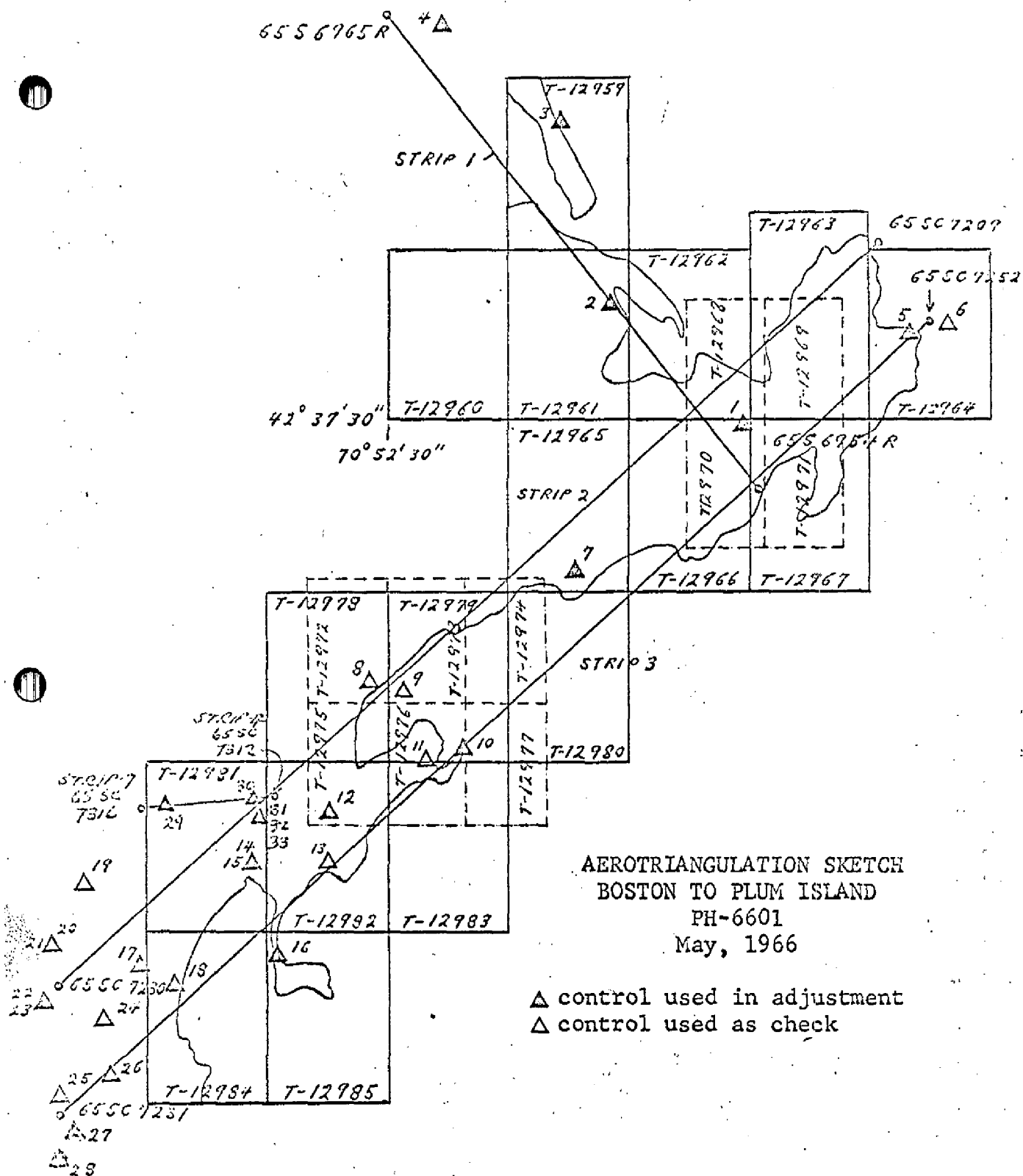
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

25. Photography

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

Respectfully submitted,


Henry P. Eichert



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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

~~sub. pt. A~~ 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

28 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 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 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. MARK'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 REPORT CONTROL RECORD

None

SCALE FACTOR

1:10,000

SCALE OF MAP

PH6601

PROJECT NO.

MAP T-12981

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)	N.A. 1927 - DATUM
LYNN CATHOLIC CHURCH SPIRE 1934	Vol. I Pg. 58	NA 1927	42° 28' 02.823" 70° 56' 29.142"	87.1 665.8	(1764.3) (704.9)
LYNN FIRST UNIVERSALIST CHURCH TOWER, 1934	Vol. I Pg. 59	"	42° 27' 46.068" 70° 56' 18.649"	142.5 426.1	(429.9) (944.7)
LYNN, STACK NO I 1934	Vol. I Pg. 99	"	42° 27' 15.688" 70° 57' 18.722"	484.1 427.8	(1367.3) (943.2)
LYNN OBSERVATORY 1916	Vol. I Pg. 506	"	42° 28' 04.487" 70° 56' 48.963"	138.5 1118.6	(1712.9) (252.1)
LYNN RADIO STATION WLYN MAST. 1958	Vol. I Pg. 28	"	42° 27' 10.379" 70° 58' 50.212"	320.3 1147.4	(1531.0) (223.4)
LYNN BEACH 155 O.P. (USE), 1940	Vol. I Pg. 288	"	42° 26' 37.161" 70° 56' 23.029"	1146.6 526.3	(704.7) (845.0)
WESTERN AVE M.H.B., 1934	Vol. I Pg. 330	"	42° 27' 03.596" 70° 58' 44.996"	111.0 1028.2	(1740.3) (342.9)
POINT OF PINES 1934	Vol. I Pg. 34	"	42° 26' 27.464" 70° 57' 40.995"	847.4 936.9	(1003.9) (434.4)
EDWARDS 1935	Vol. I Pg. 329	"	42° 26' 37.578" 70° 58' 00.310"	119.5 7.1	(691.9) (1364.2)

COMPUTED BY

L.L. Graves

DATE

10/11/66

CHECKED BY

J.P.
A.L.S.

DATE

6/11/66
7/13/72



DESCRIPTIVE REPORT CONTROL RECORD



MAP T- 12981 PROJECT NO. PH-6601 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)	N.A. 1927 - DATUM
LYNN, METHODIST CHURCH SPIRE 1934	Vol. I Pg. 56	NA 1927	42° 27' 52.359"	1615.6	(235.8)
HIGH ROCK 3 1934	Vol. I Pg. 34	"	70° 57' 10.642"	243.1	(1127.7)
LYNN GAS CO. CHIMNEY 1934	Vol. I Pg. 55	"	42° 28' 04.428"	136.6	(1714.8)
LYNN, HOODS, STACK 1934	Vol. I Pg. 56	"	70° 56' 49.004"	1119.5	(251.2)
LYNN GAS CO. LARGE GAS TANK 1915	Vol. I Pg. 57	"	42° 27' 14.295"	441.1	(1410.3)
LYNN, GENERAL ELECTRIC WEST STACK 1916	Vol. I Pg. 57	"	70° 57' 06.699"	153.1	(1217.9)
SANDY POINT LIGHT 1954	Vol. I Pg. 891	"	42° 27' 26.210"	808.7	(1042.7)
BLACK MARSH CHANNEL LIGHT 1954	Vol. I Pg. 891	"	70° 57' 26.371"	602.6	(768.3)
UPPER TURN LIGHT 1954	Vol. I Pg. 891	"	42° 27' 19.061"	588.1	(1263.3)
		"	70° 57' 09.502"	217.1	(1153.9)
		"	42° 26' 57.450"	1772.7	(78.7)
		"	70° 58' 25.610"	585.2	(785.9)
		"	42° 26' 34.185"	1054.8	(796.6)
		"	70° 56' 34.335"	784.7	(586.6)
		"	42° 26' 53.823"	1660.8	(190.6)
		"	70° 56' 33.486"	765.2	(606.0)
		"	42° 27' 10.438"	322.1	(1529.3)
		"	70° 56' 32.935"	752.6	(618.4)
COMPUTED BY L.L. Graves	DATE 10/11/66	CHECKED BY JLP	DATE 10/12/66		

COMPILATION REPORT

T-12981

31. DELINEATION:

The B-8 plotter was used. There no field inspection. Photography was satisfactory.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours inapplicable. Drainage - no statement.

35. SHORELINE AND ALONGSHORE DETAILS:

There was no field inspection. The shoreline was delineated from the high water infrared photography. The "color" photographs as well as the infrared were used in inspection of the cultural details. The low water lines were delineated from the color photographs.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

Forms 567 for 4 non-floating aids and 9 landmarks for charts were submitted October 14, 1969.

Form 567 for the deletion of one landmark was also submitted on the same date.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Satisfactory junctions have been made with: T-12982 to the east, T-12984 to the south. There are no contemporary surveys to the north and west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement,

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made USGS Quadrangles BOSTON, NORTH, MASS., Scale 1:24,000, dated 1956 and Lynn, Mass., scale 1:24,000 dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with chart 240, scale 1:25,000, edition of Aug. 15, 1960, revised Feb. 8, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Respectfully submitted:

Bernard Luns for

B. Wilson
Cartographic Technician
November 1967

Approved:

Albert C. Rauck, Jr.

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

Sept. 24, 1973

GEOGRAPHIC NAMES

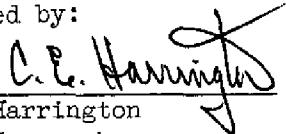
FINAL NAME SHEETS

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

T-12981

Bear Creek
Boston and Maine (RR)
East Saugus
Fox Hill Bascule Bridge
General Edwards Bascule Bridge
Lynn
Lynn Harbor
Nahant Bay
Nahant Beach
Pines River
Point of Pines
Revere Beach
Sand Point
Saugus River

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-12981

1. PROJECTION AND GRIDS ACR	2. TITLE ACR	3. MANUSCRIPT NUMBERS ACR	4. MANUSCRIPT SIZE ACR
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ACR	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT ACR Bridge W.O.	11. DETAIL POINTS ACR
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ACR	13. LOW-WATER LINE ACR	14. ROCKS, SHOALS, ETC. ACR	15. BRIDGES ACR
16. AIDS TO NAVIGATION ACR	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES ACR	19. OTHER ALONGSHORE CULTURAL FEATURES ACR
PHYSICAL FEATURES			
20. WATER FEATURES ACR		21. NATURAL GROUND COVER ACR	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES			
27. ROADS ACR	28. BUILDINGS ACR	29. RAILROADS ACR	30. OTHER CULTURAL FEATURES ACR
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ACR		34. JUNCTIONS ACR	35. LEGIBILITY OF THE MANUSCRIPT ACR
36. DISCREPANCY OVERLAY ACR	37. DESCRIPTIVE REPORT ACR	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS ACR
40. REVIEWER A.C. Rauck, Jr. Nov. 1967		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 A. C. Rauck, Jr. Oct. 20, 1969 Reviewed By: R.J. Pate Oct. 27, 1969		SUPERVISOR Albert C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: Cronaflex copy, field edit ozalid, map of Lynn Mass. 1968 and Field Edit Photos Nos. 65S-7226 and 65S-7236.			

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FIELD EDIT-REPORT
JOB PH-6601
Map T-12981
Massachusetts

This map was field-edited during August 1969. The map was compiled without field inspection prior to compilation, therefore, a complete and thorough field edit was done. All field notes were made in violet ink on the ratio print and referenced from the field edit sheet.

52. ADEQUACY OF COMPILATION

The compilation was adequate. The shoreline was checked by measurements from photographic points and was found to be good.

54. RECOMMENDATIONS

None

56. LANDMARKS AND AIDS

Form 567 is submitted for all nautical landmarks and fixed aids to navigation within the limits of this sheet.

57. ROCKS AND ROCK LEDGES

All rocks were investigated at low-water. There are only a few rocks on this sheet and they have been noted on the photographs. The former bases of the lights in Lynn Harbor Channel can be seen on the photographs. These are composed of rocks, not rock ledges.

58. MISCELLANEOUS

Copies of Form 526 are submitted for all nautical landmarks and aids which have triangulation positions and for other triangulation stations used during photo-hydro support.

There have been several man-made changes in the shoreline at the northern end of Lynn Harbor since the photographs were flown. Some construction was in progress at time of field edit. Changes have been noted on the photograph and cross-referenced from the field edit ozalid.

Field edit corrections are shown on ratio print 65-S-7236 and 65-S-7226.

Submitted By:

E. W. Hartford
Erwest W. Hartford
Surveying Technician
August 29, 1969



PROVIDING AIDS ON LANDMARKS FOR CHARTS

~~TO BE CHARTED~~
~~TO BE REVISED~~
~~TO BE DELETED~~

STRIKE OUT TWO

October 14, 1969

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be reported on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by:

Albert C. Rauck, Jr.

Allen L. Powell, Director, AMC Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-13 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

A.C.R.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE RE-REVISED
TO BE DELETED

STRIKE OUT TWO

October 14, 1969

Atlantic Marine Center

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

The positions given have been checked after listing by

Albert C. Rauck, Jr.

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-13 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

✓ A.C. 12.

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

~~NON-FLUORING AIDS OR LANDMARKS FOR CHARTS~~

Atlantic Marine Center

October 14, 19 69

I recommend that the following objects which have ~~(been not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.

Allen L. Powell
Allen L. Powell, Director, AMC Chief of Party.

STATE	MASSACHUSETTS				CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION							METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION VERIFIC.	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE		LONGITUDE					DATUM												
	"		"																	
	°	'	D.P. METERS	°					'	"	D.P. METERS									
			LYNN																	
TANK			(Lynn Gas Co., Large Gas Tank, 1915) grey, round, ht=215 (225)		42	27	19.061	588.1	70	57	09.502	217.1	NA	Triang. T12981		X		240		
TWIN			(Lynn Gas Co., Chimney, 1934)		42	27	14.295	441.1	70	57	06.699	153.1	"	"		X		240		
CHIMNEYS			Round, red brick, ht=153 (163)		42	28	04.487	138.5	70	56	48.963	1118.6	"	"		X		1207		
OBSERVATORY			(Lynn Observatory, 1916) Stone, square, ht=58 (228)		42	28	02.823	87.1	70	56	29.142	665.8	"	"		X		240		
SPIRE			(Lynn Catholic Church Spire, 1934) Slate roof w/gilded cross, ht=162 (212)		42	27	46.068	1421.5	70	56	18.649	426.1	"	"		X		240		
TOWER			(Lynn First Universalist Church Tower, 1934) Red brick with green trim, ht=135 (180)		42	27	15.688	484.1	70	57	18.722	427.8	"	"		X		240		
STACK			(Lynn Stack No. 1, 1934) Yellow, brick, ht=123 (133)		42	27	57.450	1772.7	70	58	25.610	585.2	"	"		X		240		
STACK			(Lynn General Electric West Stack, 1916) Yellow brick, ht=135 (145)		42	26	10.379	320.3	70	58	50.212	1147.4	"	"		X		240		
R MAST			(Lynn Radio Station WLYN Mast, 1958) Red/white, steel, ht=267 (272)		42	26	48.19	1487	71	00	19.34	442	"	Photo-T12981		X		1207		
STANDPIPE			Standpipe, grey, steel, ht=88 (278)		42	26							"	"		X		1207		

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-13 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

- 9-C-8

REVIEW REPORT T-12981

Shoreline

November, 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 2199. Most of the changes are of a cultural nature. The harbor has been dredged, and much of the shoreline has been bulkheaded, along with natural changes.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with U.S.G.S. Quadrangle Lynn, Mass. dated 1956 at 1:24,000 scale. There was very good general agreement. There are some natural changes and some bulkheading and piers. Nothing of real significance.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with boat sheet H-9134, 1970 at 1:10,000 scale. There are no changes other than those made by the field editor. These were not considered significant.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with chart 240 dated May 19, 1973 at 1:25,000 scale. There are just a few minor changes in shoreline, otherwise, they are in good agreement.

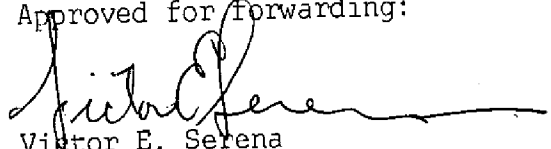
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Bernard Kurs
Bernard Kurs,
Cartographer

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch *for* *Randall C. Youngblood*
Chief, Coastal Mapping Division