

T-12967

T-12967

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey ShorelineJob No. Map No. T-12967Classification No. Edition No. 1

Field Edited

LOCALITY

State MassachusettsGeneral Locality Boston to Plum IslandLocality Gloucester Harbor1965 TO 1968

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-12967

PROJECT NO. (II):

PH-6601

FIELD OFFICE (III):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

Alfred C. Holmes - Director

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

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:2,500 Pantographed to 1:5,000

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):

N.A. 1927

VERTICAL DATUM (III):
High WaterMEAN ~~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 of mean lower low water

REFERENCE STATION (III):

MEAD 2, 1934

LAT.:

LONG.:

42° 37' 17.798"

70° 41' 03.097"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 591,970.22 Ft. X = 819,581.80 Ft.

Massachusetts

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-12967

FIELD INSPECTION BY (III):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation, Date of Photography: August 31, 1965		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A.E. Roundtree		4/22/66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		4/27/66
CONTROL PLOTTED BY (III):		DATE
C. Blood		9/16/66
CONTROL CHECKED BY (III):		DATE
L. Neterer		9/16/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Henry P. Eichert		11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	*B.H. Barnes Reviewed: L.O. Neterer	6/6/69
Wild B-8	CONTOURS	DATE
	NA	
MANUSCRIPT DELINEATED BY (III):		DATE
C.H. Bishop L.L. Graves		9/8/69 3/18/68
SCRIBING BY (III):		DATE
Charles Parker		2/9/73
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
R.E. Smith		9/11/69
REMARKS:		
*All detail was transferred from T-12970 and T-12971, 1:5,000 scale manuscript.		

DESCRIPTIVE REPORT - DATA RECORD
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CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65S 7248 & 7249	Aug. 31, 1965	07:46	1:30,000	*0.3 ft. below MLW

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston Harbor		9.5	11.0
SUBORDINATE STATION: Gloucester Harbor		8.7	10.1
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs AMC

DATE:

March, 1974

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

22

RECOVERED:

18

IDENTIFIED:

9

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

0

RECOVERED:

IDENTIFIED

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 Tenpound Island. See Instructions, OFFICE, dated April 28, 1966.

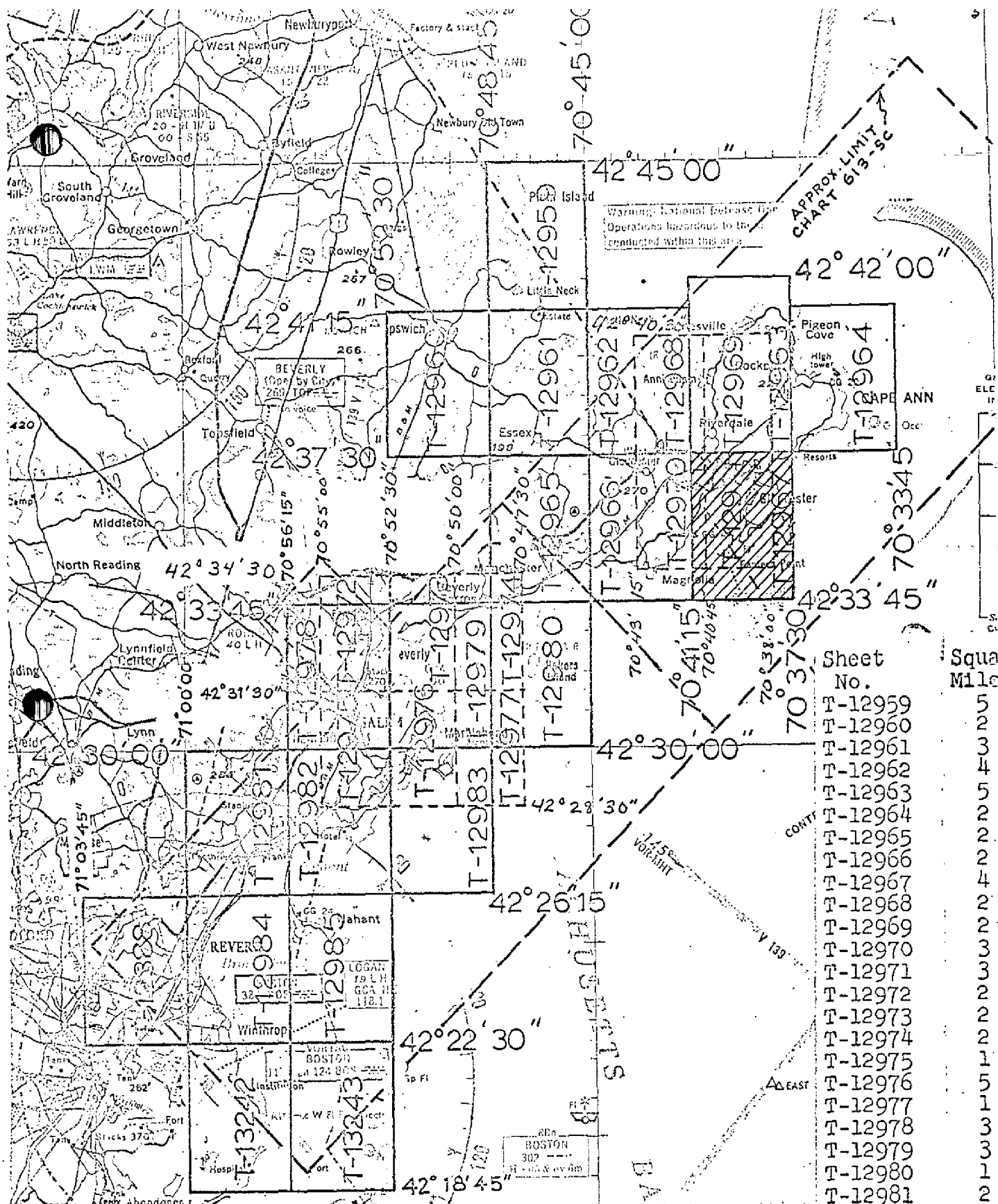
T-12967

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	March, 1968	Superseded
Field Edit transferred from reductions of 1:5,000 sheets MHWL and offshore details	August, 1969	Superseded
Interior details corrected; Compilation Complete	September, 1969	Superseded
Final Review	March, 1974	



Sheet
No.

Square
Mile

- T-12959
- T-12960
- T-12961
- T-12962
- T-12963
- T-12964
- T-12965
- T-12966
- T-12967
- T-12968
- T-12969
- T-12970
- T-12971
- T-12972
- T-12973
- T-12974
- T-12975
- T-12976
- T-12977
- T-12978
- T-12979
- T-12980
- T-12981
- T-12982
- T-12983
- T-12984
- T-12985
- T-12388
- T-13242
- T-13243

TOTAL 79

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-12967

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.

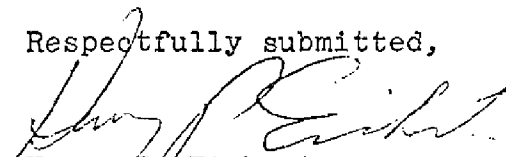
24. Supplemental Data

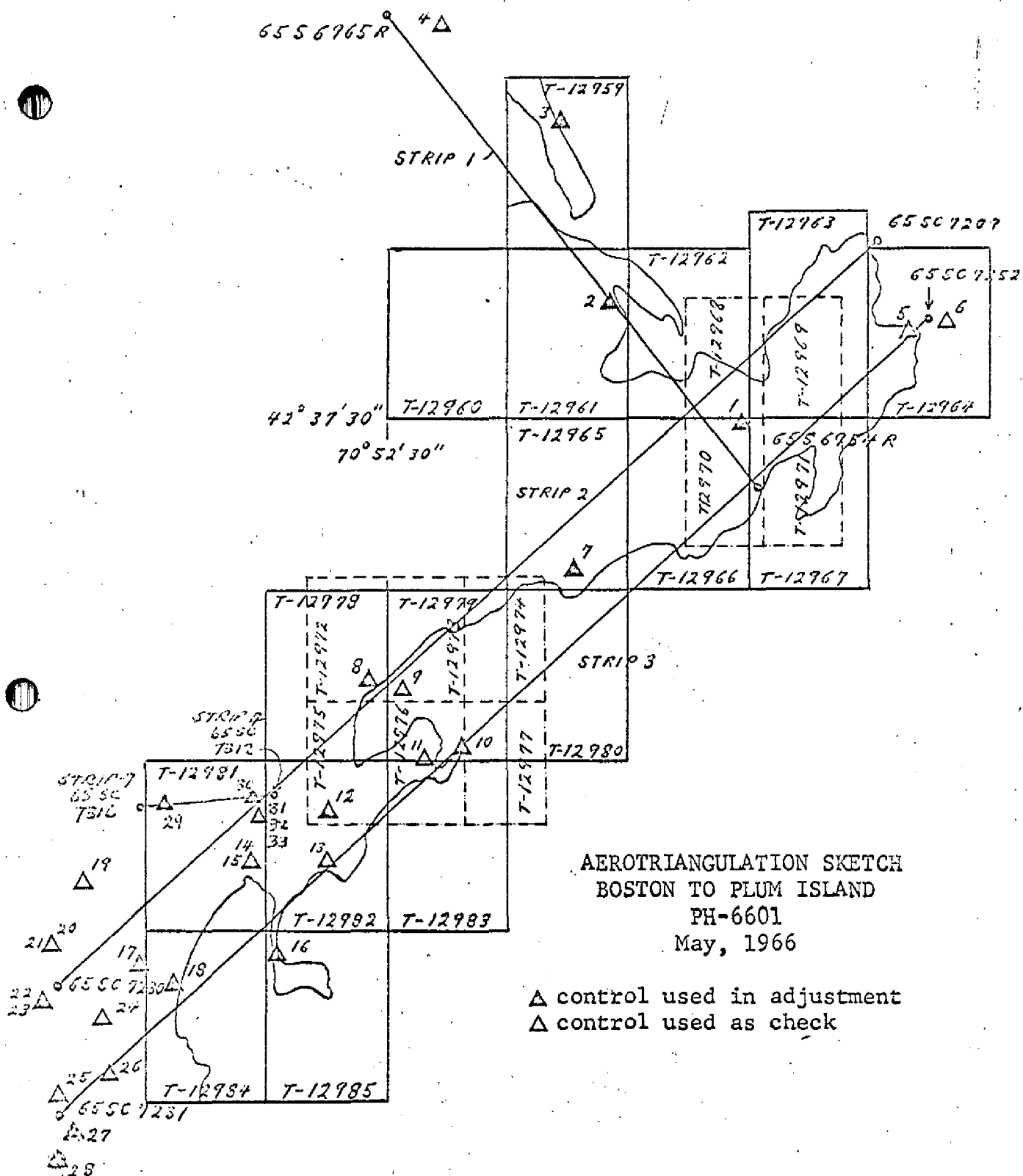
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

25. Photography

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

Respectfully submitted,


Henry P. Eichert



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 $(+5.3, -1.0)$

12 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, 1917

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 HEAD 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 $(-3.1, -5.2)$

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- T-12967 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 O	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 ft. = 3048006 meter) FORWARD (BACK)
RAILROAD LEDGE, 1934	Vol. 1 P. 277	NA 1927	42 37 00.318 70 40 42.645	9.8 (1841.6) 971.9 (394.8)
MEAD 2, 1934	Vol. 1 P. 277	NA 1927	42 37 17.798 70 41 03.097	549.2 (1302.2) 70.6 (1296.8)
TENPOUND ISLAND LIGHTHOUSE, 1902	Vol. 1 P. 279	NA 1927	42 36 06.395 70 39 57.805	197.3 (1654.1) 1317.7 (50.1)
TAV(GLOUCESTER TAVERN RED CHIMNEY), 1928	Vol. 1 P. 882	NA 1927	42 36 35.51 70 40 03.40	1095.7 (755.7) 77.5 (1290.1)
GEN(GENERAL FOODS CORP. TOWER), 1916	Vol. 1 P. 884	NA 1927	42 36 33.921 70 39 57.471	1046.7 (804.7) 1310.0 (57.6)
TARR(GLOUCESTER TARR AND WONSON'S FACTORY CHIMNEY, 1916	Vol. 1 P. 880	NA 1927	42 36 22.481 70 39 39.467	693.7 (1157.7) 899.7 (468.0)
GLOUCESTER UNIVERSALIST CHURCH, 1916	Vol. 1 P. 831	NA 1927	42 36 47.070 70 40 00.161	1452.5 (398.9) 3.7 (1363.9)
GLOUCESTER CITY HALL, 1902	Vol. 1 P. 278	NA 1927	42 36 50.295 70 39 48.231	1552.0 (299.4) 1099.3 (268.3)
GLOUCESTER PORTUGUESE CHURCH	Vol. 1 P. 853	NA 1927	42 37 00.543 70 39 27.075	16.8 (1834.6) 617.1 (750.4)
EAST TOWER, 1916	Vol. 1 P. 853	NA 1927	42 37 00.635 70 39 27.615	19.6 (1831.8) 629.4 (738.1)
GLOUCESTER PORTUGUESE CHURCH	Vol. 1 P. 853	NA 1927	42 34 57.041 70 40 22.306	1760.1 (91.3) 508.6 (859.6)
DOG BAR LIGHT, 1916	Vol. 1 P. 280	NA 1927	42 34 48.549 70 39 53.943	1498.0 (353.4) 1230.1 (138.2)
EASTERN POINT LIGHTHOUSE, 1902	Vol. 1 P. 279	NA 1927	70 39 53.943	1230.1 (138.2)
COMPUTED BY L.L.G.	DATE 10/7/66	CHECKED BY J.P. & A.L.S.	DATE 10/11/66	

STRIP # 4

29 DANVERS, COOKE & ^{KRAUSE}~~COOKE~~ CO. CHIMNEY, 1914

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)

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- T-12967 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	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 ft. = 3048006 meter)	FORWARD (BACK)
NECK FRONT, 1943	Vol. 1	NA	42 35 37.261	1149.8	(701.6)
	P. 374	1927	70 40 55.496	1265.3	(102.7)
NECK REAR, 1943	Vol. 1	NA	42 35 38.014	1173.0	(678.4)
	P. 374	1927	70 40 57.681	1315.1	(52.9)
7AE, 1934	Vol. 1	NA	42 37 03.865	119.3	(1732.1)
	P. 276	1927	70 41 12.128	276.4	(1091.1)
CITY LEDGE, 1934	Vol. 1	NA	42 36 47.985	1480.7	(370.7)
	P. 277	1927	70 40 41.199	939.0	(428.6)
DOG BAR, 1940	Vol. 1	NA	42 34 57.141	1763.1	(88.3)
	P. 277	1927	70 40 22.457	512.1	(856.1)
FORT, 1934	Vol. 1	NA	42 36 17.657	544.8	(1306.6)
	P. 277	1927	70 40 38.060	867.6	(500.1)
GLOUCESTER, EASTERN POINT RADIO MAST, 1940	Vol. 1	NA	42 34 50.194	1548.8	(302.6)
	P. 280	1927	70 39 53.573	1221.7	(146.6)
KENT, 1934	Vol. 1	NA	42 36 33.294	1027.4	(824.0)
	P. 277	1927	70 40 35.243	803.3	(564.3)
MUSCLE, 1943	Vol. 1	NA	42 35 17.396	536.8	(1314.6)
	P. 374	1927	70 41 08.183	186.6	(1181.5)
NECK, 1943	Vol. 1	NA	42 35 36.606	1129.5	(721.9)
	P. 374	1927	70 40 56.059	1278.1	(89.9)
PYR(GLOUCESTER CONGREGA- TIONAL CHURCH PYRAMID SPIRE), 1928	Vol. 1	NA	42 36 47.266	1458.5	(392.9)
	P. 882	1927	70 39 53.638	1222.5	(145.1)
RANGE, 1943	Vol. 1	NA	42 35 37.631	1161.1	(690.3)
	P. 374	1927	70 40 56.569	1289.7	(78.2)

COMPUTED BY L.L.G.
C.H.B.

DATE 10/17/69
8/12/69

CHECKED BY J.P., A.L.S. &

DATE Aug. 12, 1969
10/11/66

COMPILATION REPORT
MAP MANUSCRIPT T-12967
PROJECT PH-6601

31. DELINEATION

The manuscript was delineated from reductions of T-12970 and T-12971 at 1:5,000 scale.

32. CONTROL

See Photogrammetric Plot Report, dated November 1, 1966.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

For Drainage see reports on T-12970 and T-12971.

35. SHORELINE AND ALONGSHORE DETAILS

See Reports on T-12970 and T-12971.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Landmarks and Aids were submitted to the Rockville Science Center on Forms 567, dated December 6, 1968, January 8, 1969, February 19, 1969, February 20, 1969, and August 15, 1969.

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38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with 1:10,000 manuscripts T-12963 to the north and T-12966 to the west. There is no contemporary survey to the south and to the east.

Junctions are in agreement with 1:5,000 manuscripts T-12969 to the North and T-12970 to the west. T-12971 is entirely incorporated within the limits of this manuscript.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Quadrangle, (GLOUCESTER, MA) scale 1:24,000, dated 1960.

47. COMPARISON WITH EXISTING CHARTS

A comparison was made with Nautical Chart No. 243, (IPSWICH BAY to GLOUCESTER HARBOR) scale 1:20,000, dated Sept. 14, 1964, 8th Edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

L.L. Graves

L.L. Graves
Cartographic Technician
3/18/68

Approved:

Albert C. Rauck, Jr.

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

Sept. 24, 1973

GEOGRAPHIC NAMES

FINAL NAME SHEETS

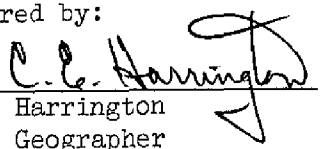
Ph-6601 (Boston to Plum Island, Mass.)

T-12967

Atlantic Ocean
Bass Rocks
Bemo Ledge
Black Bess Point
Black Bess Rocks
Blynman Canal
Boston and Maine (RR)
Brace Cove
Brace Rock
Buswell Pond
Cressy Beach
Dolliver Neck
Eastern Point
East Gloucester
Field Rocks
Fort Point
Freshwater Cove
Gloucester
Gloucester Harbor
Good Harbor Beach
Grant Circle
Halfmoon Beach
Harbor Cove
Inner Harbor
Lighthouse Cove
Massachusetts Bay
Mussel Point
Niles Beach
Niles Pond
Old House Cove

Pavilion Beach
Rocky Neck
Smith Cove
Southeast Harbor
Stage Fort Park
Stage Head
Tablet Rock
Tenpound Island
Western Harbor
Wolf Hill
Wonson Cove

Prepared by:


C. E. Harrington
Staff Geographer

T - 12967

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-12967

1. PROJECTION AND GRIDS RES	2. TITLE RES	3. MANUSCRIPT NUMBERS RES	4. MANUSCRIPT SIZE RES
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RES	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X X		7. PHOTO HYDRO STATIONS X X
8. BENCH MARKS X X	9. PLOTTING OF SEXTANT FIXES X X	10. PHOTOGRAMMETRIC PLOT REPORT RES	11. DETAIL POINTS RES
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RES	13. LOW-WATER LINE RES	14. ROCKS, SHOALS, ETC. RES	15. BRIDGES RES
16. AIDS TO NAVIGATION RES	17. LANDMARKS RES	18. OTHER ALONGSHORE PHYSICAL FEATURES RES	19. OTHER ALONGSHORE CULTURAL FEATURES RES
PHYSICAL FEATURES			
20. WATER FEATURES RES	21. NATURAL GROUND COVER RES		22. PLANETABLE CONTOURS X X
23. STEREOSCOPIC INSTRUMENT CONTOURS X X	24. CONTOURS IN GENERAL X X	25. SPOT ELEVATIONS X X	26. OTHER PHYSICAL FEATURES RES
CULTURAL FEATURES			
27. ROADS RES	28. BUILDINGS RES	29. RAILROADS RES	30. OTHER CULTURAL FEATURES RES
BOUNDARIES			
31. BOUNDARY LINES X X		32. PUBLIC LAND LINES X X	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RES	34. JUNCTIONS RES		35. LEGIBILITY OF THE MANUSCRIPT RES
36. DISCREPANCY OVERLAY RES	37. DESCRIPTIVE REPORT RES	38. FIELD INSPECTION PHOTOGRAPHS X X	39. FORMS RES
40. REVIEWER <i>Albert C. Rauck, Jr.</i> R.E. Smith 3/18/68		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A.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 Field Edit Transfer 1:5,000 reductions Reviewed by: R.E. Smith 9/11/69		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
43. REMARKS Field Edit was applied to T-12970 and T-12971. The manuscripts were photographically reduced and traced onto this manuscript, by L.L. Graves before field edit. After field edit was applied, and roads were double-lined on T-12970 and T-12971, new reductions were made. Changes on the new reductions were applied to T-12967 by Charles Bishop, Aug. and Sept., 1969.			

FIELD EDIT REPORT

PH-6601
Boston to Plum Island
T-12966 67-1:10,000 T-12970 1-1:5000

GENERAL NOTES

This report is submitted for four sheets, field edited July thru September 13, 1968.

All notations on discrepancy sheets and Photographs are made in violet ink. The notations were made either directly on the discrepancy print or referenced to Photos.

51 METHODS

Field edit was accomplished by the following methods, by skiff and truck travel and by walking section of the shoreline.

All rock and ledge areas were inspected at or near low-water, and found to be compiled adequate. The rock and ledge heights were obtained by hand leveling from mean high-water line or from mean low-water.

All discrepancies on the field edit sheets have been verified directly on the sheets or referenced to a photograph.

Notations on photographs by sheet numbers are as follows.

T-12966	T-12967	T-12970	T-12971
65-S-7245	65-S-7049	65-S-7285	65-S-7049
7246	7051	7288	7050
		7292	7051
		7293	7292
		7294	7293
			7294

52 ADEQUACY OF COMPIATION

The compiotion of MHWL and MLWL around ledge and rock areas as a whole appeared to be adequate, several ledge and rock areas in question were inspected at low water and noted on the discrepancy print and referenced to a photograph. Compilation of piers, street and buildings was found to be good.

54 RECOMMENDATIONS

None

56 ROCKS

Several rocks were verified directly on the field edit sheets. All other rocks, rock areas, and additional rocks recommended for charting are noted on the field edit ozalids and referenced to photos.

57 NAUTICAL LANDMARKS AND FIXED AIDS

All nautical landmarks and fixed aids were inspected and submitted on form 567.

58 SUBMERGED PIPE LINES AND CABLES

All submerged pipe lines and cable areas are noted on the field edit ozalid and referenced to a photograph. These areas being verified either by Gloucester City engineers and by the electric light and power company.

59 LANDMARK BUILDINGS AND BLUFFS

Landmark building recommended for deletion and charting are noted directly on the discrepancy sheet. All addition landmark and water-front buildings recommended for charting are circled or outlined on the following photos. 65-S-7049, 50, 72, 45, 85, 88, 92, 93, and 94.

There are four new water-front buildings in Gloucester Harbor shown directly on the field edit ozalid.

All bluffs were investigated of shore and bluff recommended for charting are inked on the following photos. 65-S-7049, 50, 7245, 88, and 93.

Three public buildings are circled on photos 65-S-7050, and 7293.

60 STREETS

All street additions and classification are not on the field edit sheet and referenced to the photos.

Submitted by

E. W. Hartford

28 oct. 1968

NONFLOATING AIDS ON THE MARKET FOR RECENT YEARS

Atlantic Marine Center
Jan. 8 1969

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

The positions given have been checked after listing by

L. L. Graves

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, 7-18 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.

Atlantic Marine Center, Norfolk, Va. Feb. 20 1969

NOVELTY OF THE INVENTION

Chambers H Bishop

The positions given have been checked after listing by

Charles H. Bishop

Allen L. Powell

Director, AIC

Chief of Party.

STATE		MASSACHUSETTS		POSITION						METHOD OF LOCATION AND SURVEY. No.	DATE OF LOCATION	WAGNER CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE*		LONGITUDE*		DATUM									
			°	'	°	'		D.P. MEERS	"	D.P. MEERS	"					
DAYBEACON	GLoucester HARBOR															
	Black Rock Daybeacon		42	36	21.36 659	70 39	70 39	N.A. 1927	Photo T-12971	9/13/68	X		X	1206, 1207, 243, 233		
	Tenpound Island Light		42	36	06.64 205	70 39	70 39	"	"	9/13/68	X		X	1206, 1207, 243, 233		
LIGHT	(Dog Bar Light 1916) Gloucester Breakwater Light		42	34	57.041 1760.1	70 40	70 40	"	Triang. T-12971	9/13/68	X		X	1206, 1207, 243, 233		
DAYBEACON	GLoucester INNER HARBOR															
			42	36	46.70 1441	70 39	70 39	N.A. 1927	Photo T-12971	9/13/68	X		X	1206, 1207, 243, 233		
DAYBEACON	SOUTHEAST HARBOR															
	Green Rock Daybeacon		42	36	09.14 282	70 39	70 39	N.A. 1927	Photo T-12971	9/13/68	X		X	1206, 1207, 243, 233		
LIGHT	SEACOAST															
	Eastern Point Light		42	34	48.549 1498.0	70 39	70 39	N.A. 1927	Triang. T-12971	9/13/68	X		X	1206, 1207, 243, 233		
	(Eastern Point Lighthouse 1902)															✓ 1206

This form shall be prepared in accordance with Hydrographic Manual, Publication 20-2, Secs. 1-55, 2-39, 6-36, 7-19 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.

BOOKS RETURNED
FOR REISSUE
TO BE DELETED

STRIKE OUT TWO

I recommend that the following objects which are ~~excluded from~~ *(deleted from)* the charts indicated.

The positions given have been checked after listing by

Atlantic Marine Center

Jan. 8 1969

I recommend that the following objects which have ~~(423303061)~~ been inspected from seaward to determine their value as landmarks be ~~deleted from~~ the charts indicated.

Allen L. Powell

Director, ATC

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
TABULATE SECONDS AND METERS

REC'D 153 14-281

by R. Timan

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

STRIKE OUT TWO

NON-TOOTH-AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center

August 15, 1969

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

The positions given have been checked after listing by Charles H. Bishop

~~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, 7-18 to 22 inclusive, and Fig. 79. Landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not be individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

✓ СТВ

STRIKE OUT TWO

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

The positions given have been checked after listing by

L. L. Graves

Allen L. Powell

Chief of Party.

Director, AHC

[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 10294P81

✓ by J. L. Winter

NOVIT - THE INTERNATIONAL JOURNAL OF MARKS FOR CHARTS

TO BE CHARTED
TO IDENTIFY
TO BE CHARTED

Atlantic Marine Center, Norfolk, Va. Feb. 19, 1969

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

The positions given have been checked after listing by

Charles H. Bishop

Allen L. Powell

Wages to Juries

STATE	MASSACHUSETTS	SIGNAL NAME	DESCRIPTION	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	C-ARTS AFFECTED
				LATITUDE*		LONGITUDE*		DATUM							
				° ' "	D.M. METERS	° ' "	D.P. METERS								
	GLOUCESTER														
TOWER	(Gloucester Universalist Church 1849). White, ht.= 95 (140) ft.	42 36	47.070 1452.5	70 40	00.161 3.7	N.A. 1927	Triang. T-12971	Verified 9/13/68	x		x			x	1206, 1207 243, 233
SPIRE	(Pyr., Gloucester Congregational Church, Pyramid Spire), 1928) White, Black Top, ht.= 120(155) ft.	42 36	47.266 1458.5	70 39	53.638 1222.5	"	"	Verified 9/13/68	x		x			x	1206, 1207 243, 233
SPIRE	Silver, ht.= 155 (195) ft.	42 36	57.43 1772	70 39	49.10 1119	N.A. 1927	Photo T-12971	9/13/68	x		x			x	1206, 1207 243, 233
TOWER	(Gloucester City Hall, USC&GS, 1902) Cream Color Green Top ht.= 140 (190) ft.	42 36	50.295 1552.0	70 39	48.231 10923	"	Triang. T-12971	Verified 9/13/68	x		x			x	1206, 1207 243, 233
	GLOUCESTER HARBOR														
LIGHTHOUSE	(Ten Pound Island Lighthouse 1902) Steel, brown ht.= 35 (55) ft.	42 36	06.395 197.3	70 39	57.805 1317.7	N.A. 1927	Triang. T-12971	Verified 9/13/68	x		x			x	1206, 1207 243, 233
							</								

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. I-55, 2-39, 6-36, 7-10 to 22-inclusive, and Fig. 79. Positions of charted landmarks and nonbearing 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.

TO BE CHARTED
TO BE REVIEWED
TO BE DEVELOPED

NON-CONTACTING OR LANDMARKS FOR CHARTS

STRIKE OUT TWO

Atlantic Marine Center

Dec. 6 1968

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

The positions given have been checked after listing by

A. L. Shands

Howard S. Cole

Director, AMC

Director, AMC

Director, AMC

[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 16234-P01

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO-BE-REVISED
TO-BE DELETED

STRIKE OUT TWO

Atlantic Marine Center
Sept. 8 1969

I recommend that the following objects which have *(have-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

Charles Bishop

Charles H. Bishop

Allen L. Powell, Director, AM^{Chief of Party.}

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 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 18234-P41

✓ CitB

STRIKE OUT TWO

Dec. 6 1968

NONFUNCTIONAL LANDMARKS FOR CHARTS

Atlantic Marine Center

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be ~~re-examined~~ *re-examined*

The positions given have been checked after listing by

A. L. Shands

Howard S. Cole

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. Revisions shall show both the old and new positions. Landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Information under each column heading should be given. Positions of charted 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.

TO BE CHARTED
 TO BE CHARTED
 TO BE CHARTED

STRIKE OUT TWO

Dec. 6 1968

NONTECHNICAL GUIDANCE FOR CHARTS

Atlantic Marine Center

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be ~~marked~~ marked

The positions given have been checked after listing by.

A. L. Shands

Howard S. Cole

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.

USCGMM-DC 10234-P-6

REVIEW REPORT T-12967

SHORELINE

MARCH, 1974

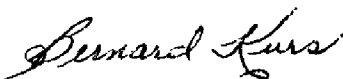
61. GENERAL STATEMENT:

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

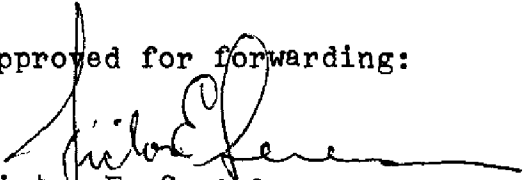
This survey is covered entirely by 1:5,000 scale manuscripts T-12970 and T-12971. T-12971 was compiled slightly beyond its eastern limits to avoid duplication. The scribe coat only covers the designated limits. Survey T-12971 is a reduction of the two aforementioned surveys.

Enclosed are the review reports of surveys T-12971 and T-12972.

Reviewed 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-12971

SHORELINE

March, 1974

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 T-7079, photography of 1952, 1953 field inspected 1953 at 1:10,000 scale. There is good agreement with the exception of additional man-made changes.

This survey supersedes any prior listed surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle Gloucester, Mass, 1960 at 1:24,000 scale. There is good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with two (2) unnumbered boat sheets, 1967 at 1:5,000 scale and H-8941, 1967 at 1:10,000 scale. The surveys agree with the exception of changes made by the field editor.

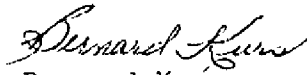
65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with chart 233, 1:10,000 scale, January 6, 1973. There are only minor differences. Visual comparison was made with chart 243, 1:20,000 scale dated October 6, 1973. It appears to be in good general agreement.

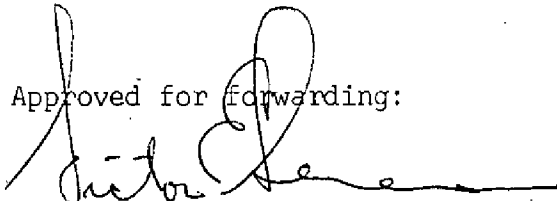
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

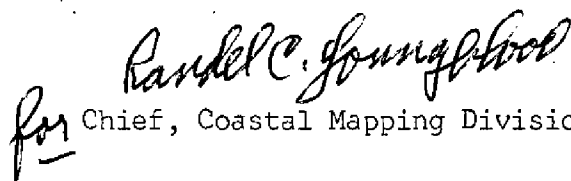
Reviewed by:


Bernard Kurs
Cartographer

Approved for forwarding:


Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch  for Chief, Coastal Mapping Division

REVIEW REPORT T-12972

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 Number 3765, 1919 at 1:10,000 scale. There is a difference in datum so that only a visual comparison was made. In general the two surveys agree except that the time lapse shows considerable change in shoreline both man-made and natural.

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 Salem, MASS., 1956 at 1:24,000 scale. The two surveys are in agreement except for man-made and natural changes to the shoreline. The man-made changes are mostly in the Northeast Shore of the Danvers River and Beverly Harbor.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boat Sheet H-9009, 1968 at 1:5,000 scale. Both surveys are in very good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 241, July 29, 1972 at 1:10,000 scale, and visual comparison was made with Chart 241, May 19, 1973 at 1:25,000 scale. There are natural and cultural changes which are shown on the discrepancy overlay in red. The significant difference is Lobster Rocks which is shown on the chart as ledge and the field editor describes as a shell bottom.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Bernard Kurs
Bernard Kurs
Cartographer