

# T-12961

Original

T-12961

Form 504	
U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline (Photogrammetric)
Field No.	Office No. T-12961
Field Edited	
LOCALITY	
State	Massachusetts
General locality	Boston to Plum Island
Locality	Castle Neck River
1965 -	
CHIEF OF PARTY	
J. Bull, RADM, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

## DESCRIPTIVE REPORT - DATA RECORD

T - 12961

PROJECT NO. (II):

Job PH-6601

FIELD OFFICE (II):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. Bull, RADM, USESSA, Director, AMC

INSTRUCTIONS DATED (II) (III):

FIELD August 4, 1965  
FIELD August 19, 1965 Provisional Instructions - Aerial Photography  
OFFICE October 8, 1965 Instructions, Aerotriangulation  
OFFICE January 27, 1966  
OFFICE February 2, 1966 Instructions, Aerotriangulation  
OFFICE April 28, 1966  
FIELD May 20, 1966 Supplement I  
OFFICE July 11, 1966 Supplement I

METHOD OF COMPILATION (III):

Kelsh &amp; Graphic

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 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):

N.A. 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):

CHOATE RM 2, 1849 ✓

LAT.:

LONG.:

42° 39' 54.80" (1691.1m) 70° 45' 41.47" (944.5m) ✓

☒ ADJUSTED Office Comp. from Adj.  
☐ UNADJUSTED Pos. of CHOATE 1849

PLANE COORDINATES (IV):

STATE

ZONE

607,675.12 ft. ✓ x = 798,631.51 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

FIELD INSPECTION BY (II):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  August 1965; Air photo compilation, graphic		
PROJECTION AND GRIDS RULED BY (IV):  A. E. Roundtree		DATE  4/22/66
PROJECTION AND GRIDS CHECKED BY (IV):  R. Glaser		DATE  4/27/66
CONTROL PLOTTED BY (III):  C. Blood		DATE  9/14/66
CONTROL CHECKED BY (III):  L. Neterer		DATE  9/14/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  H. P. Eichert		DATE  11/ 1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  J. Place	DATE  3/15/67
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):  J. Place		DATE  3/22/67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  C. Bishop		DATE  3/30/67
REMARKS:		

FORM C&GS-181c  
(3-66)U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"S" CAMERA

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65S(c) 7260 thru 7261	Aug.31, 1965	8:04	1:30,000	- 0.5 ft. below MLW *
65 S 6958 thru 6959	Aug.24, 1965	9:03	1:30,000	+ 7.8 ft. above MLW *
65 S 6994 thru 6995	Aug. 24, 1965	9:50	1:40,000	+ 7.2 ft. above MLW *

## TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: PORTLAND (Predicted)		9.0	10.4
SUBORDINATE STATION: Plum Island Sound (Predicted)		8.6	9.9
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs A.M.C.

DATE: Feb. 1974

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

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

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

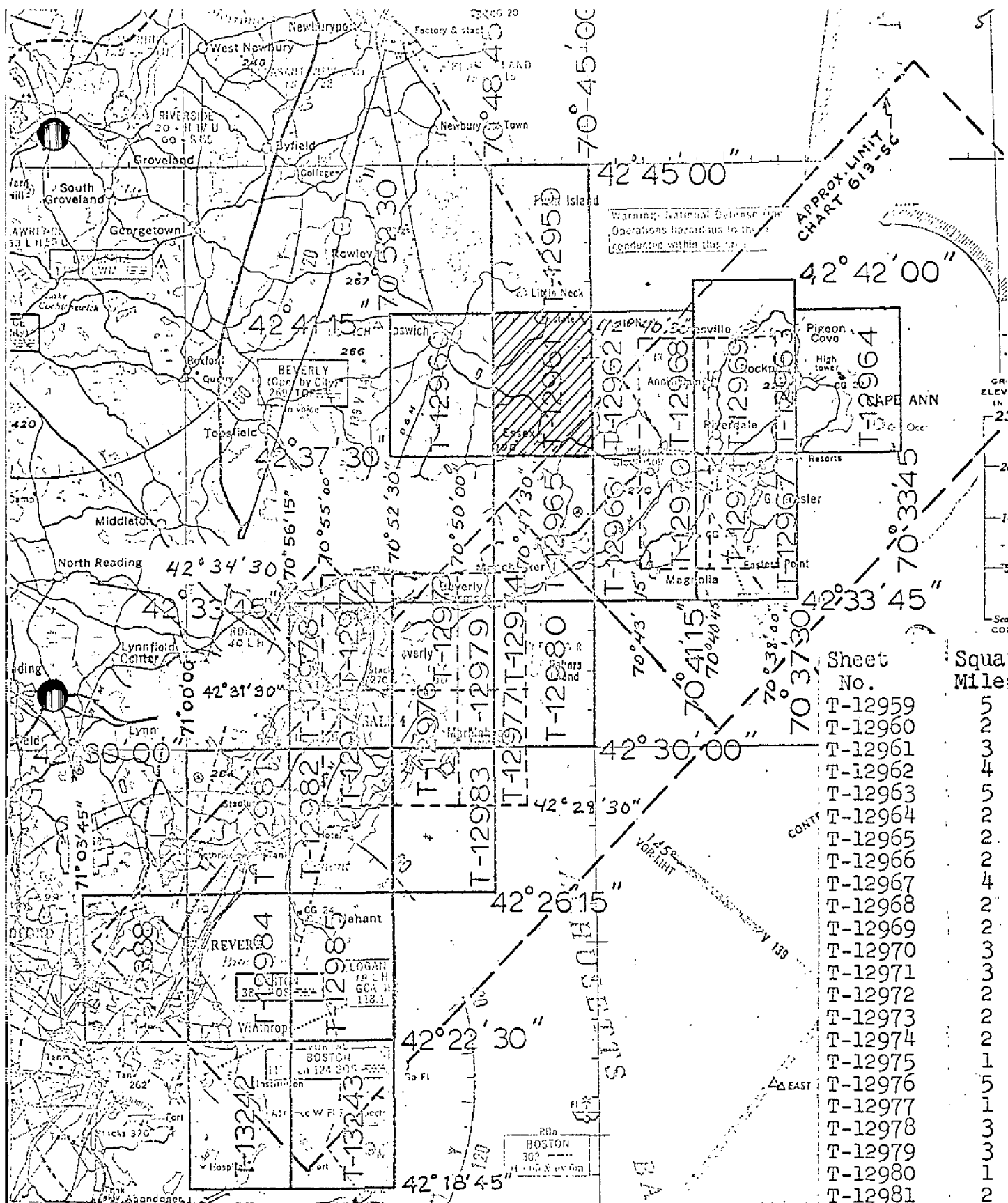
\*

The stage of tide at time of photography was determined by readings on a staff at Merrimack River Entrance at that time. See Instructions - OFFICE - dated April 28, 1966.

4

T-12961

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending Field Edit	March 1967	Superseded
Field Edit Applied	November 1967	Superseded
Final Review	Feb. 1974	



JOB PH-6601

BOSTON TO PLUM ISLAND

SHORELINE MAPPING AT 1:5,000 & 1:10,000 SCALE

CHART 613-SC

CHART TOPOGRAPHY AT 1:40,000 SCALE

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

Squa:  
Mile:

## 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.

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.

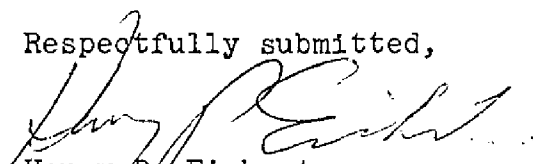
24. Supplemental Data

Vertical control points needed <sup>as</sup> ~~and~~ control for strip adjustments were taken from USGS quads.

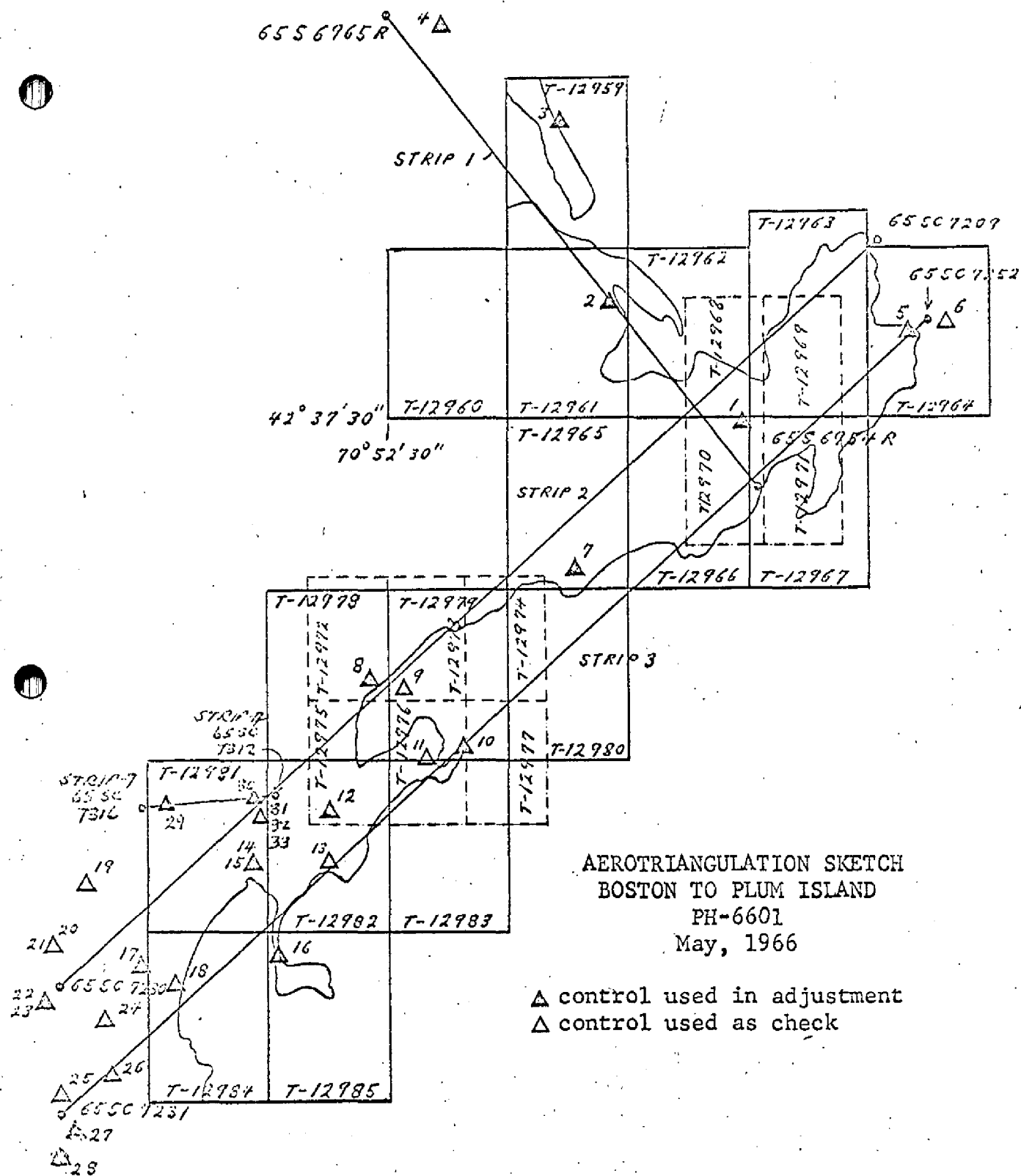
25. Photography

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, 1849

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 ~~5~~ 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, ABBOT TOWER, 1919

office identified (-0.6, +4.4)

10 MARBLEHEAD LIGHTHOUSE, 1914

office identified (+2.0, +5.1)

7 MANCHESTER CHURCH DARK SPIRE, 1848

target (-3.5, -5.8)

sub pt A (-4.1, -5.2)

1 MEAD 2 (MGS), 1934

target (+3.8, -0.7)

sub.pt. (+6.2, -1.2)

5 STONEHAVEN (ROCKPORT TOWN (MGS)), 1939

target (-2.1, +0.3)

sub pt A (-1.3, +1.6)

sub pt B (-2.0, +1.2)

6 STRAITS MOUTH LIGHTHOUSE, 1902

office identified (-3.1, -5.2)

## STRIP #4

29 DANVERS, COOKE & KRAUSE  
~~COOKE~~ CO. CHIMNEY, 1919

HOME STA (-0.78 +0.79)

SS 'A' (-0.01 -0.01)

SS 'B' (-1.83 +1.74)

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

(-0.01 -0.01)

31 BEVERLY, ODD FELLOWS' 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)



MAP T-12161

PROJECT NO. PH-6601

SCALE OF MAP 1:10,000

SCALE FACTOR

[illegible]

3 FT. = 3048006 METER

COMPUTED BY: **L. L. Graves**

DATE 10-03-66

CHECKED BY: J. S. Place

DATE 10-04-66

COMM-DC-57843

COMPILATION REPORT  
T-12961  
Project PH-6601

31. DELINEATION:

Delineation was done graphically, using pass points located by Kelsh Instrument as control.

32. CONTROL:

Adequate. See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are not applicable.

Drainage was compiled graphically from office interpretation of infrared photos.

35. SHORELINE AND ALONGSHORE DETAILS:

All compilation was done by office interpretation of the photographs. Rock elevations and additional rocks are to be located by the hydrographer.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

Form 527's for LANDMARKS AND AIDS have been submitted to the Washington office under date November 2, 1967.

38. CONTROL FOR FUTURE SURVEYS:

None



39. JUNCTIONS:

Satisfactory junctions were made with maps T-12960, T-12959, T-12962 and T-12965, scale 1:10,000, to the west, north, east and south, respectively.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle IPSWICH, MASS., scale 1:24000, Revised in 1950.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 243, scale 1:20,000, 8th Edition, September 14, 1964.

Items to be applied to nautical charts immediately:

None

Items to be carried forward:

None

Submitted:

*Edward Kusz*  
Johnnie S. Place  
Cartographer

Approved and forwarded:

*Alfred C. Holmes*  
Alfred C. Holmes, RADM, NOAA  
Director, Atlantic Marine Center

Sept. 24, 1973

GEOGRAPHIC NAMES

FINAL NAME SHEETS

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

T-12961

Bull Island  
Castle Neck *← Castle Hill*  
Castle Neck River  
Crane Beach  
Cross Island  
Dean Island  
Eagle Island  
Ebben Creek  
Essex  
Essex Falls  
Essex River  
Fox Creek  
Great Bank  
Hog Island  
Hog Island Channel  
Ipswich Bay  
Ipswich River  
Labor in Vain Creek  
Long Island  
Lowe Island  
Lufkin Creek  
Rantour Pond  
Round Island  
Soqinese Creek  
South Essex  
Tilton Hill  
Treadwell Island  
Treadwell Island Creek  
Whites Hill

Prepared by:

*C. E. Harrington*  
C. E. Harrington  
Staff Geographer

T - 12961

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 in edit procedures.

On each annotated 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-10343 12961

1. PROJECTION AND GRIDS <b>CHB</b>	2. TITLE <b>CHB</b>	3. MANUSCRIPT NUMBERS <b>CHB</b>	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <b>RES</b>	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) <b>X</b>		7. PHOTO HYDRO STATIONS <b>X</b>
8. BENCH MARKS <b>X</b>	9. PLOTTING OF SEXTANT FIXES <b>X</b>	10. PHOTOGRAMMETRIC PLOT REPORT <b>Bridge (W.O.)</b>	11. DETAIL POINTS <b>Kelsh</b>
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE <b>CHB</b>	13. LOW-WATER LINE <b>CHB</b>	14. ROCKS, SHOALS, ETC. <b>CHB</b>	15. BRIDGES <b>X</b>
16. AIDS TO NAVIGATION <b>RES</b>	17. LANDMARKS <b>RES</b>	18. OTHER ALONGSHORE PHYSICAL FEATURES <b>CHB</b>	19. OTHER ALONGSHORE CULTURAL FEATURES <b>RES</b>
PHYSICAL FEATURES			
20. WATER FEATURES <b>CHB</b>		21. NATURAL GROUND COVER <b>CHB</b>	22. PLANETABLE CONTOURS <b>X</b>
23. STEREOSCOPIC INSTRUMENT CONTOURS <b>X</b>	24. CONTOURS IN GENERAL <b>X</b>	25. SPOT ELEVATIONS <b>X</b>	26. OTHER PHYSICAL FEATURES <b>X</b>
CULTURAL FEATURES			
27. ROADS <b>CHB</b>	28. BUILDINGS <b>CHB</b>	29. RAILROADS <b>X</b>	30. OTHER CULTURAL FEATURES <b>CHB</b>
BOUNDARIES			
31. BOUNDARY LINES <b>X</b>		32. PUBLIC LAND LINES <b>X</b>	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES <b>CHB</b>		34. JUNCTIONS <b>CHB</b>	35. LEGIBILITY OF THE MANUSCRIPT <b>CHB</b>
36. DISCREPANCY OVERLAY <b>X</b>	37. DESCRIPTIVE REPORT <b>CHB</b>	38. FIELD INSPECTION PHOTOGRAPHS <b>X</b>	39. FORMS <b>CHB</b>
40. REVIEWER <i>Charles H. Bishop</i> <b>C. H. Bishop</b>		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> <b>A. C. Rauck, Jr.</b>	
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 <i>R. E. Smith</i> <b>R. E. Smith</b>		SUPERVISOR <i>Albert C. Rauck, Jr.</i> <b>A. C. Rauck, Jr.</b>	
43. REMARKS			

20

FIELD EDIT REPORT  
Project PH-6601  
Cape Ann to Boston  
T-12959, T-12960, T-12961

GENERAL NOTES

These three sheets was field edited during the period 17 April through 10 May 1967. Corrections and additions have been inked on the photographs in black, except(photo. pts., LDMKS, and fixed aids which are in red) and referenced on the discrepancy print in blue.

NAUTICAL LANDMARKS & FIXED AIDS

Three nautical landmarks and one aid are noted on the discrepancy print and referenced to photographs.

LANDMARK BUILDINGS

Five buildings on MHWL and one landmark building are recommended and referenced to photographs.

All public buildings are inked on photos. number 65-S-6994 and 6995.

BLUFFS

Bluffs of LDMK value are noted on the discrepancy print and referenced to photographs.

ROADS

Corrections and additions are noted on the discrepancy print and referenced to photographs.

PIERS

All piers in question and additions to same are noted on the discrepancy print and referenced to photographs.

MARINE RAILWAYS & BOAT RAMPS

All marine railways and boat ramps are inked on photographs and referenced on discrepancy print.

21

ROCKS

All rocks questioned on the discrepancy print were verified, Corrections and additions are noted on the discrepancy print and referenced to photographs.

Locations of rocks in three areas were determined by sextant fix.

Field Edit notations are inked on the following photographs: 65-S-6994, 6995, 7262 and 7263

Submitted by:  
E.W. Hartford

24 May 1967

REVIEW REPORT T-12961

SHORELINE

February, 1974

61. GENERAL STATEMENT:

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

There are no registered surveys in this office at this time.

This survey supersedes any prior registered survey that may exist for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A general comparison was made with U.S.G.S. Quadrangle Ipswich, Mass., 1950 at 1:24,000. The quadrangle shoreline is only generalized and of marshy nature. The shoreline is subject to frequent changes.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with "Advance" boat sheet H-8939, 1967 at 1:10,000 scale. The two surveys are in good agreement.

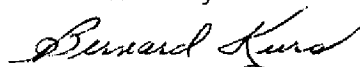
65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 243, November 4, 1973 at 1:20,000 scale. Most of the shoreline is of a marshy nature and therefore very changeable with major storms. Differences and changes are noted in red on the discrepancy print.

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

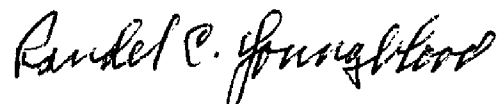

Approved for Forwarding:

  
Jeffrey G. Carlen, CDR, NOAA  
Chief, Coastal Mapping Division, AMC

Approved:

  
Alfred C. Holmes, RADM, NOAA  
Director, Atlantic Marine Center

Approved:

  
Chief, Photogrammetric Branch  Chief, Coastal Mapping Division





## NONFLOATING AIDS OR EXAMINATION MARKS FOR CHARTS

TO BE CHARTED  
BOOKS REMOVED  
BOOKS DELETED

**STRIKE OUT TWO**

Atlantic Marine Center

November 1 1967

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

The positions given have been checked after listing by

R. E. Smith

**J. Bull, RADM, USESA**

Director, AMC

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



