

T-13243

T-13243

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Office No. T-13243

LOCALITY

State Massachusetts

General locality Boston to Plum Island

Locality Lovell Island

1968-70

CHIEF OF PARTY

Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T -13243

OBJECT NO. (II):

PH-6601

FIELD OFFICE (III):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (II) (III):

Field - Aug. 4, 1965
Field - Aug. 19, 1965 - Provisional Instructions, Aerial Photography
Office - Oct. 8, 1965 - Instructions, Aerotriangulation
Office - Jan. 27, 1966
Office - Feb. 2, 1966 Instructions, Aerotriangulation
Office - Apr. 28, 1966
Field - May 20, 1966 - Supplement I
Office - July 11, 1966 - Supplement I

METHOD OF COMPILATION (III):

Wild B-8 & 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):

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):

Boston Lighthouse, 1934

LAT.:

LONG.:

42° 19' 40.180" (M=12398)

70° 53' 26.214" (M=6002)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 484, 445.48

X = 764, 787.57

Massachusetts

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): None		DATE:
MEAN HIGH WATER LOCATION (iii) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography April 26, 1966		
PROJECTION AND GRIDS RULED BY (iv): L.F. Van Scoy		DATE 9/13/67
PROJECTION AND GRIDS CHECKED BY (iv): R. Glaser		DATE 9/14/67
CONTROL PLOTTED BY (iii): L.O. Neterer, Jr.		DATE 10/10/67
CONTROL CHECKED BY (iii): L.L. Graves		DATE 10/11/67
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (iii): H. P. Eichert		DATE 11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (iii): Wild B-8	PLANIMETRY L.O. Neterer, Jr.	DATE 10/15/67
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (iii): L.O. Neterer, Jr.		DATE 10/25/67
SCRIBING BY (iii): W. Gilbert		DATE 10/1/72
PHOTOGRAMMETRIC OFFICE REVIEW BY (iii): R.E. Smith		DATE 11/1/67
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

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ERA (KIND OR SOURCE) (iii):

Wild RC-8 "L"

PHOTOGRAPHS (iii)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
66-L-(c)-2927 thru 2930	Apr. 26, 1966	11:20	1:30,000	2.1 ft. above MLW

TIDE (iii)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston		9.5	11.0
SUBORDINATE STATION: Deer Island (South end)		9.3	10.8
SUBORDINATE STATION:			

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

DATE: 10/73

PROOF EDIT BY (iv):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (ii):

18

RECOVERED:

12

IDENTIFIED:

1

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

none

RECOVERED:

none

IDENTIFIED:

none

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (iii):

none

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (iii):

none

REMARKS:

T-13243

COMPILATION RECORD	COMPLETION DATE	REMARKS
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Alongshore Area for Hydro	Oct. 1967	Superseded
Field Edit Applied; Compilation Complete	July 1972	Superseded
Final Review	Oct. 1973	

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-13243

There was no field inspection prior to compilation.

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PHOTOGRAMMETRIC PLOT REPORT
Job PH-6601
Boston to Plum Island, Massachusetts

November 1, 1966

21. Area Covered

This report covers aerotriangulation for 1:5,000 and 1:10,000 scale surveys in an area north of Boston, Massachusetts. The 1:5,000 scale surveys are T-12968 thru T-12977; the 1:10,000 scale surveys are T-12959 thru T-12967 and T-12978 thru T-12985.

22. Method

Four strips were bridged by the analytic method. Strip 1 was at a scale of 1:30,000 using infrared photography; Strips 2 and 3 at a scale of 1:30,000 using color film; and Strip 4 using color film at a scale of 1:15,000.

The 1:30,000 scale bridges were to be used for the 1:10,000 scale compilation. The four-model 1:15,000 scale bridge was necessary to complete coverage on surveys T-12972 and T-12978.

Common points between the 1:30,000 and 1:15,000 scale photography were selected. Plane coordinate positions from our bridges were determined so that 1:15,000 scale models could be controlled to compile the 1:5,000 scale surveys. Plane coordinates are on the Massachusetts State Grid (Mainland). The attached aerotriangulation sketch shows location of strips bridged. Closures to control have been tabulated.

23. Adequacy of Control

Field identified control was supplemented by office identified horizontal control points and was adequate.

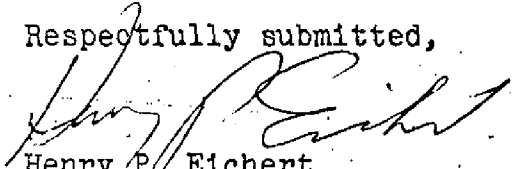
24. Supplemental Data

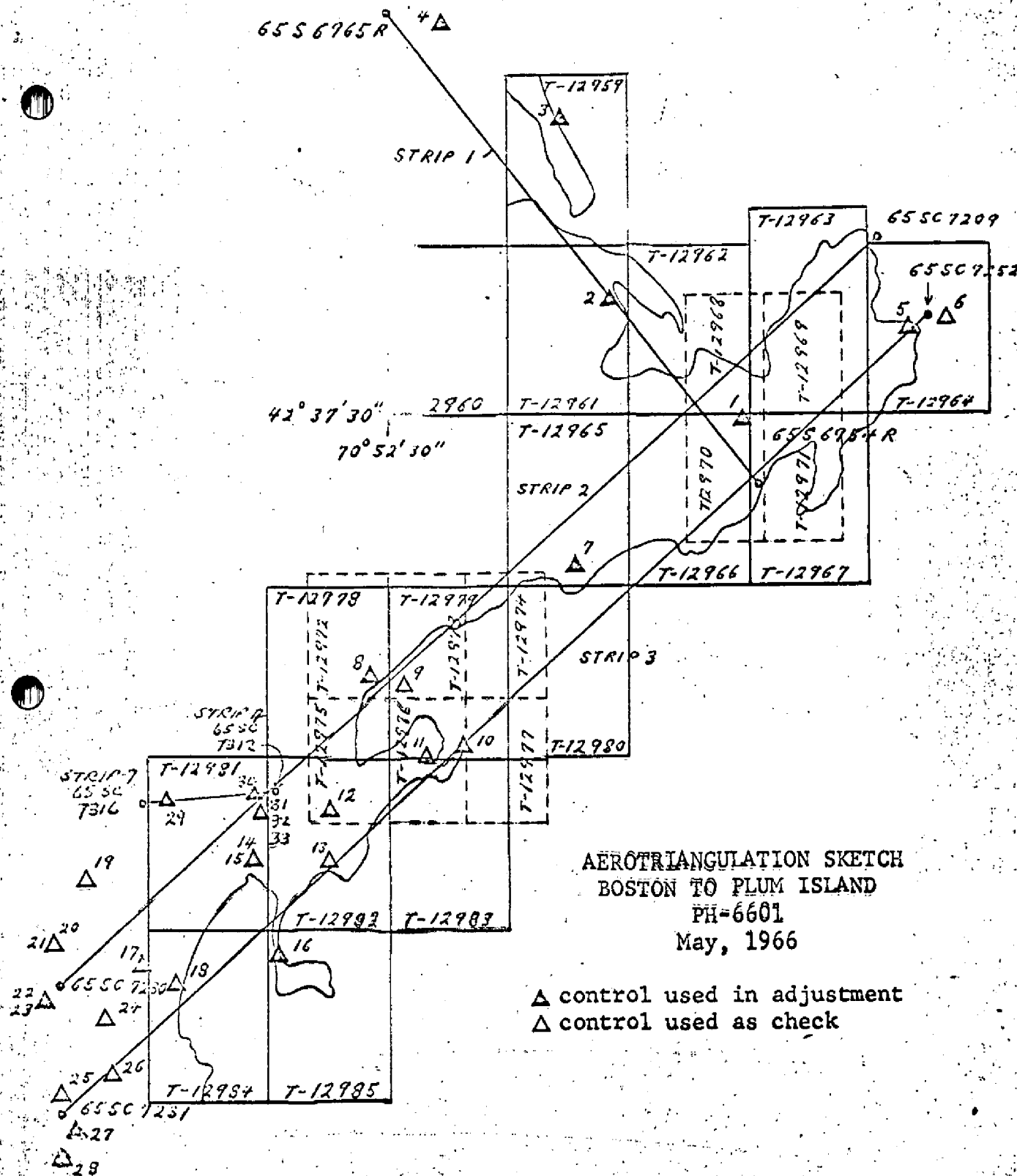
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

25. Photography

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

Respectfully submitted,


Henry P. Eichert



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

△ control used in adjustment
△ control used as check

10

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 CUPOKA, 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 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. MARYS 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-13243

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 ($\frac{1}{Ft} = \frac{3048006}{meters}$) FORWARD (BACK)
BOSTON LIGHTHOUSE, 1934	Vol. 1 Pg. 68		42° 19' 40.180" 70° 53' 26.214"	1239.8 (611.5) 600.2 (773.6)
COMPUTED BY L.O. Neterer, Jr.	DATE 10/10/67	CHECKED BY L.L. Graves	DATE 10/10/67	15



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 13243 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. = 304.8006 meter) FORWARD (BACK)	N.A. 1927 - DATUM
M 2/2 R, 1940	Vol. 1 Pg. 292	NA	42° 19' 57.875" 70° 55' 54.130"	1785.7 1239.3	(65.6) (134.4)
STANDISH, 1934	Vol. 1 Pg. 36	NA	42° 19' 43.658" 70° 55' 38.873"	1347.1 890.0	(504.2) (483.9)
CRF 10 WHIPPLE, 1940	Vol. 1 Pg. 291	NA	42° 19' 37.077" 70° 55' 31.453"	1144.0 720.2	(707.3) (653.6)
H. STATION, 1940	Vol. 1 Pg. 291	NA	42° 19' 16.6110" 70° 55' 43.1146"	512.5 987.2	(1338.8) (386.6)
CALF. ISLAND, 1940	Vol. 1 Pg. 288	NA	42° 20' 33.129" 70° 53' 47.613"	1022.2 1089.9	(829.1) (283.6)
GREEN ISLAND BOLT, (USE), 1940	Vol. 1 Pg. 288	NA	42° 21' 10.548" 70° 53' 33.113"	325.5 757.9	(1525.8) (615.4)
BC 5, 1943	Vol. 1 Pg. 384	NA	42° 20' 29.621" 70° 52' 44.770"	914.0 1024.8	(937.3) (348.7)
Comp. LIG M 2/2 L, 1940	Vol. 1 Pg. 292		42° 19' 57.851" 70° 55' 54.292"	1785.0 1243.0	(66.3) (130.7)
" G-4 L, 1940	Vol. 1 Pg. 290		42° 19' 16.611" 70° 55' 43.115"	512.5 987.3	(1338.8) (386.6)
" G-5 L, 1943	Vol. 1 Pg. 390		42° 19' 16.664" 70° 55' 43.134"	514.2 987.7	(1337.1) (386.2)

COMPUTED BY

W. Gilbert

DATE

6/30/72

CHECKED BY

Charles Parker

DATE

6/30/72

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COMPILATION REPORT

T-13243

31. DELINEATION

The B-8 was used to compile the detail from the color diapositives.

32. CONTROL

Identifiable control was used. The color diapositives overlapped sufficiently into the bridged area to the north to allow an adequate bridging to tie.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAIL

Low water and ledge lines were determined by office interpretation.

36. OFFSHORE DETAIL

To be determined by the Hydrographer.

37. LANDMARKS AND AIDS

Two landmarks and four fixed aids to navigation on forms 567 have been submitted to Rockville, MD Office dated March 13, 1973.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions with T-12985 to the north and with T-13242 to the west are in agreement. There are no contemporary surveys to the east and the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No Statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS Quadrangle Hull, MA, 1:24,000 scale Revised 1958.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with USC&GS Chart 246 scale 1:25,000 Revised 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

Lowell O. Neterer
Lowell O. Neterer, Sr.
Cartographic Technician
10/7/67

Approved:

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

Sept. 24, 1973

GEOGRAPHIC NAMES

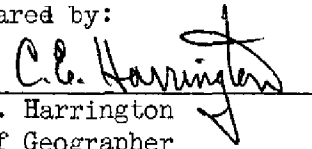
FINAL NAME SHEETS

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

T-13243

Black Rock
Black Rock Channel
Broad Sound
Calf Island
Flying Place
Gallops Island
Georges Island
Great Brewster Island
Great Brewster Spit
Green Island
Halftide Rocks
Hypocrite Channel
Little Brewster Island
Little Calf Island
Lovell Island
Middle Brewster Island
Outer Brewster Island
Ram Head
Roaring Bulls
Shag Rocks
South Channel
The Narrows

Prepared by:


C. E. Harrington
Staff Geographer

T - 13243

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-13243

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) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Wash. Science Center	11. DETAIL POINTS RES
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RES	13. LOW-WATER LINE RES	14. ROCKS, SHOALS, ETC. RES	15. BRIDGES XX
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 XX		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES RES
CULTURAL FEATURES			
27. ROADS RES	28. BUILDINGS RES	29. RAILROADS XX	30. OTHER CULTURAL FEATURES RES
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
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 XX	39. FORMS RES
40. REVIEWER R.E. Smith		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 L.L. Graves July 20/72 Reviewer: A.L. Shands July 26/72		SUPERVISOR Albert C. Rauck, Jr. Albert C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: 3 Sets Sextant Fixes 18 Form 526 2 Form 152 1 Field Edit Ozalid 1 Field Edit Cronaflex 1 Each Matte Photo 66-L-(c)-2928 & 2929 1 Each Cronar Photo 66-L-(c)-2928 & 2929 1 Each 567 for Landmarks For Charts and 567 For None-Floating Aids.			

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FIELD EDIT REPORT

Job FH-6601

Map T-13243

Massachusetts

This map was field-edited during October 1970. The map was compiled without field inspection prior to compilation, therefore, a complete fieldedit was done. All field notes are in violet ink on the ratio prints and referenced from the field edit sheet. The map area consists of all islands which are located at the entrance to Boston harbor, only one, Georges Island is occupied at present, except Little Brewster which is used by the Coast Guard.

52. ADEQUACY OF COMPILATION

The adequacy of compilation was generally good, especially the compilation of ledge areas.

54. RECOMMENDATIONS

None

56. LANDMARKS AND AIDS

Form 567 submitted for all nautical landmarks and fixed aids within the limits of this map. Only a few landmark buildings are recommended for charting, these being the Coast Guard buildings on Little Brewster Island and two buildings on Georges Island.

Landmark bluffs are noted on the field edit ozalid and referenced to a photograph.

57. ROCKS AND ROCK LEDGES

All rocks and ledge areas were investigated at low water. There are only a few rocks around the outer island in this map, most of the shoreline around these islands consists of ledge. Greatest number of rocks and rock areas were found around Great Brewster, Lovell, and Georges Islands, these were located on photographs and by sextant fixes.

58. MISCELLANEOUS

Form 526 copies are submitted for all nautical landmarks and aids which havetriangulation positions and ground stations recovered and used in locating rocks and buoys. Special attention is brought to the area just west of Green, Calf, and Greater Brewster Islands, this area is used as anchorage for barbes which are used for burning trash.

The buoys for this anchorage area are large metal drums about 6 feet in diameter and 10 to 12 feet long, these were located by sextant fixes and plotted on the cronaflex sheet, the angles are recorded on a sepearte sheet.

Field-edit additions and corrections have been shown on the following matte and cronapague ratio prints:
66-L-2928 and 2929, also on the field-edit ozalid.

Submitted By
Ernest W. Hartford
Ernest W. Hartford
Surveying Technician
October 26, 1970

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE CHARTED
TO BE CHARTED

STRIKE OUT TWO

Atlantic Marine Center, July 19, 1972

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

The positions given have been checked after listing by

L. L. Graves

Alfred C. Holmes. RADM. NOAA

Director, AMC

[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. 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. Positions of charted

* TABULATE SECONDS AND METERS

USCOMM-DC 36485-P

REVIEW REPORT T-13243

SHORELINE

OCTOBER, 1973

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None available her at this time.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS Quadrangle Hull, MA, dated 1958 at 1:24,000. There is general agreement except for some rocks (See 65 below). The significant differences are noted in brown on the discrepancy print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None available here at this time.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 246 dated Mar. 25, 1972, at 1:25,000 scale. There were position differences in some rocks. Photogrammetric positions of these rocks were field edited. Some shown on the chart were not visible on the photos. Agreement in general was good. All significant differences are noted in red on the discrepancy print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

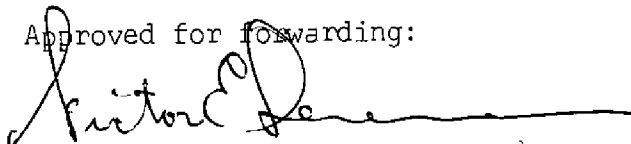
This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Bernard Kurs

Bernard Kurs, Cartographer

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

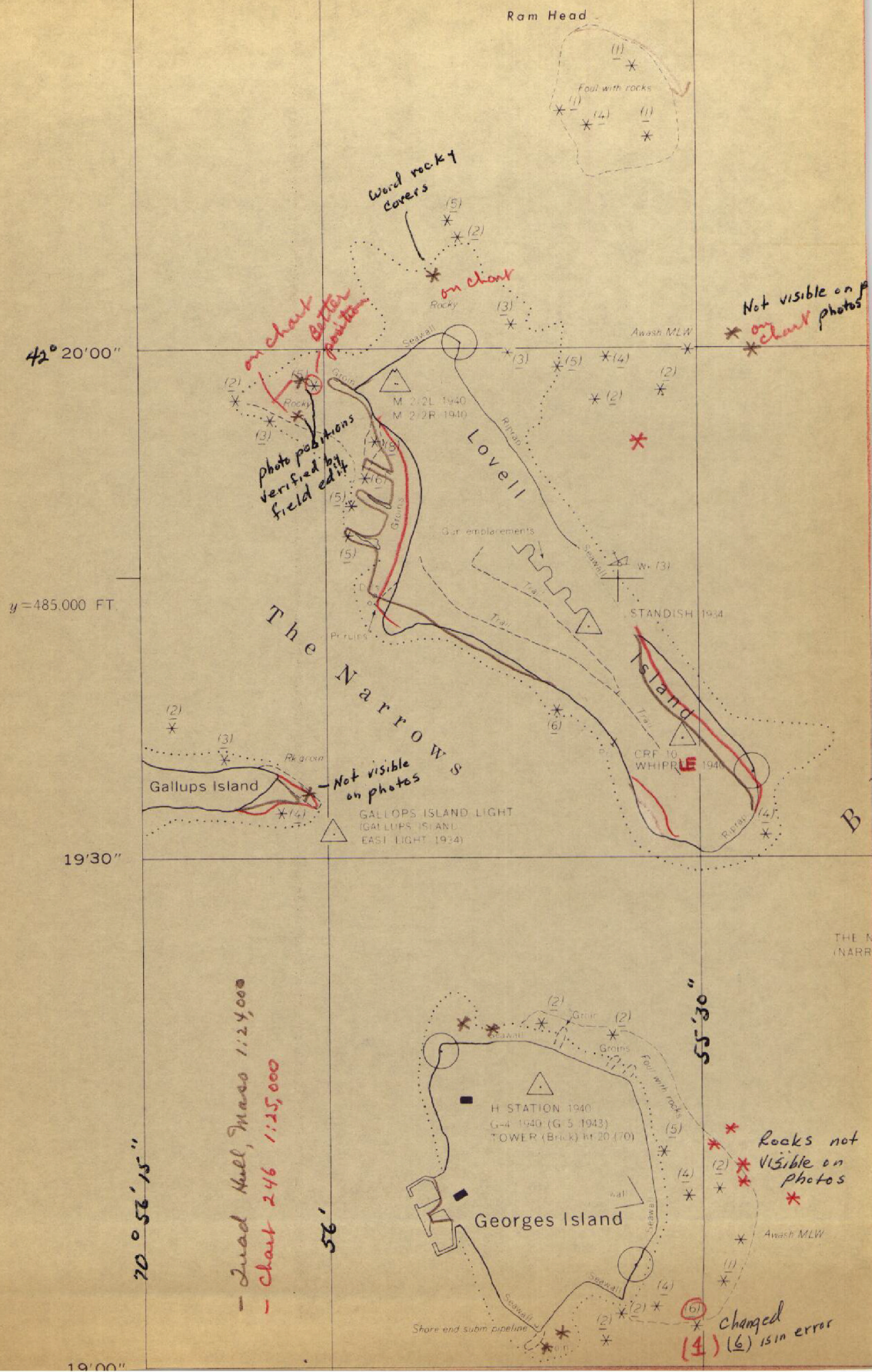
Chief, Photogrammetric Branch *for* *Randall C. Youngblood*
Chief, Coastal Mapping Division

27

Not visible on ~~any~~ photos

Rocks not
Visible on
photos
*

(6) changed
(4) (6) is in error



(5) * Awash MLW
* (5) + Covers 4 ft MLW

GREEN ISLAND BOLT HOUSE 1940

Green Island

Not apparent on photos

Hypocrite Channel

42° 21' 00"

Little Calf Island

Outer Brewster Island

20' 30"

Calf Island

Middle Brewster Island

Not visible on photos

changed to above MHW

Chart 246 1:25,000
— Lead Hull, Mass. 1:24,000

Flying place

Field edited positions

Great Brewster Island

70° 54'

53' 30"

20'

53'

T-13243

Hand-drawn map of Little Brewster Island and surrounding areas. The map shows a coastline with numbered points (1) through (17) marked with stars. A dashed line indicates a "Shore and subm" (shore and submerged) area. A solid line marks the "Angish M.W." (Angish Mainland). A small boat is drawn near the shore. A large "X" is drawn over the map, with handwritten notes: "Not visible on photos" and "on chart". A red arrow points to a star marked (17) with the note "on chart". A red arrow points to a star marked (17) with the note "Field inspect position". A red arrow points to a star marked (17) with the note "Area M.W.".

Brewster

Little
Brewster
Island

Black Rock

FALSE SPIT DAYBEACON
(FALSE SPIT BEACON 1934)

66-1 (C)-2928.

Share and submit

Not visible
on photos

Not apparent
in states.

* - probabile
same poss. differe

on chart
field inspect.
position

inverted
water
up

Island is subject to change

This line not
visible
photos

- chart 246. 1:25,000
- Quad 44el, Mass 1:24,000

42° 19' 00"

70.55,00"

"DE, 65

103.55

T-13243

31

