

T-12984

T-12984

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. Field Edited Office No. T-12984

LOCALITY

State MassachusettsGeneral locality Boston to Plum IslandLocality Broad Sound1966-70

CHIEF OF PARTY

*Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-12984

SUBJECT NO. (II):

Job PH-6601

FIELD OFFICE (III):

*None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

*Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (II) (III):

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

METHOD OF COMPILATION (III):

Wild B-8

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):

MEAN HIGH WATER 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

REFERENCE STATION (III):

REVERE POLICE TOWER, 1934

LAT.:

LONG.:

42°24'50.399 (1555.1M) 70°59'24.077 (550.5M)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

*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):		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		5/31/66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		6/1/66
CONTROL PLOTTED BY (III):		DATE
L. O. Neterer, Jr.		9/22/66
CONTROL CHECKED BY (III):		DATE
C. Blood		9/22/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
Henry P. Eichert		11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8	PLANIMETRY L. O. Neterer, Jr.	DATE 9/16/67
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
L. L. Graves		12/19/67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
* R. J. Pate		*6/13/72
REMARKS: *Field Edit By: E. W. Hartford July and August		

DESCRIPTIVE REPORT - DATA RECORD

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CAMERA (KIND OR SOURCE) (III):

RC 8 "S" & "L"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65 S 7234	8/31/65	07:40	1:30,000	0.2 Ft. below MLW
65 S 7235	"	07:41	"	" "
65 S 7236	"	07:41	"	" "
66 L 2918	4/26/66	11:07	1:30,000	1.7 Ft. above MLW
66 L 2919	"	11:08	"	" "
65 S 6932 R	8/24/65	08:44	1:30,000	8.8 Ft. above MLW
65 S 6933 R	"	"	"	" "
65 S 6934 R	"	08:45	"	" "

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: Deer Island		9.3	10.8

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:

11

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:

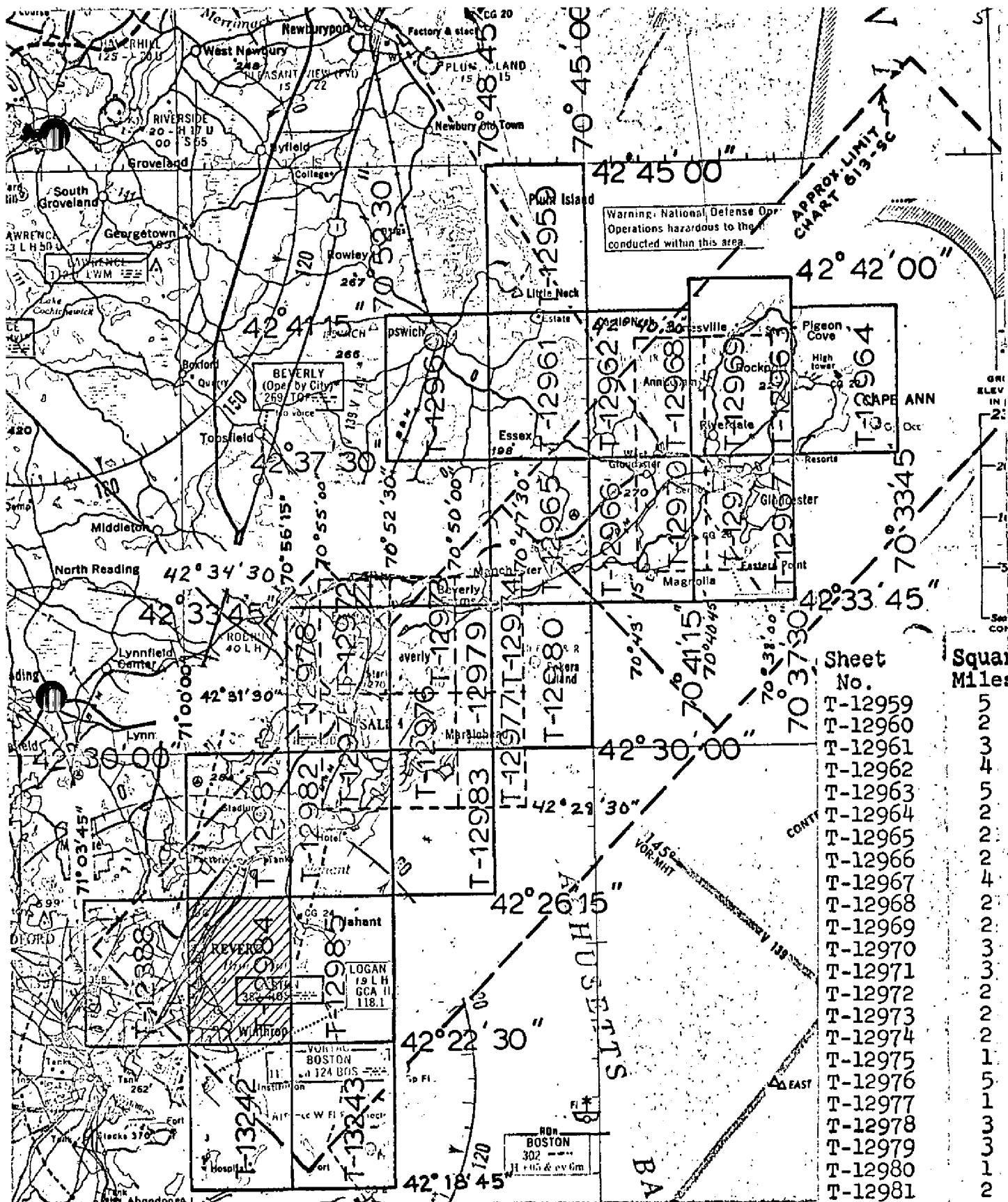
65 S 7234 thru 65 S 7236 and 65 S 6932 through 65 S 6934 stage of tide photographs are based on the tide staff data recorded on the respective dates listed above. Photographs 66 L 2918 and 66 L 2919 were computed from predicted tides.

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T-12984

COMPILATION RECORD COMPLETION DATE REMARKS

Compilation Complete Pending Field Edit	Nov. 1967	*Superseded
Field Edit Applied, * Compilation Complete	June 1972	Superseded
Final Review	Oct. 1973	



Sheet
No.

Squad
Miles

- 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

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- 3
- 2

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-12984

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.

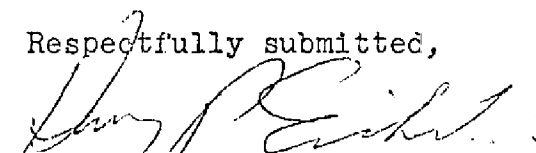
24. Supplemental Data

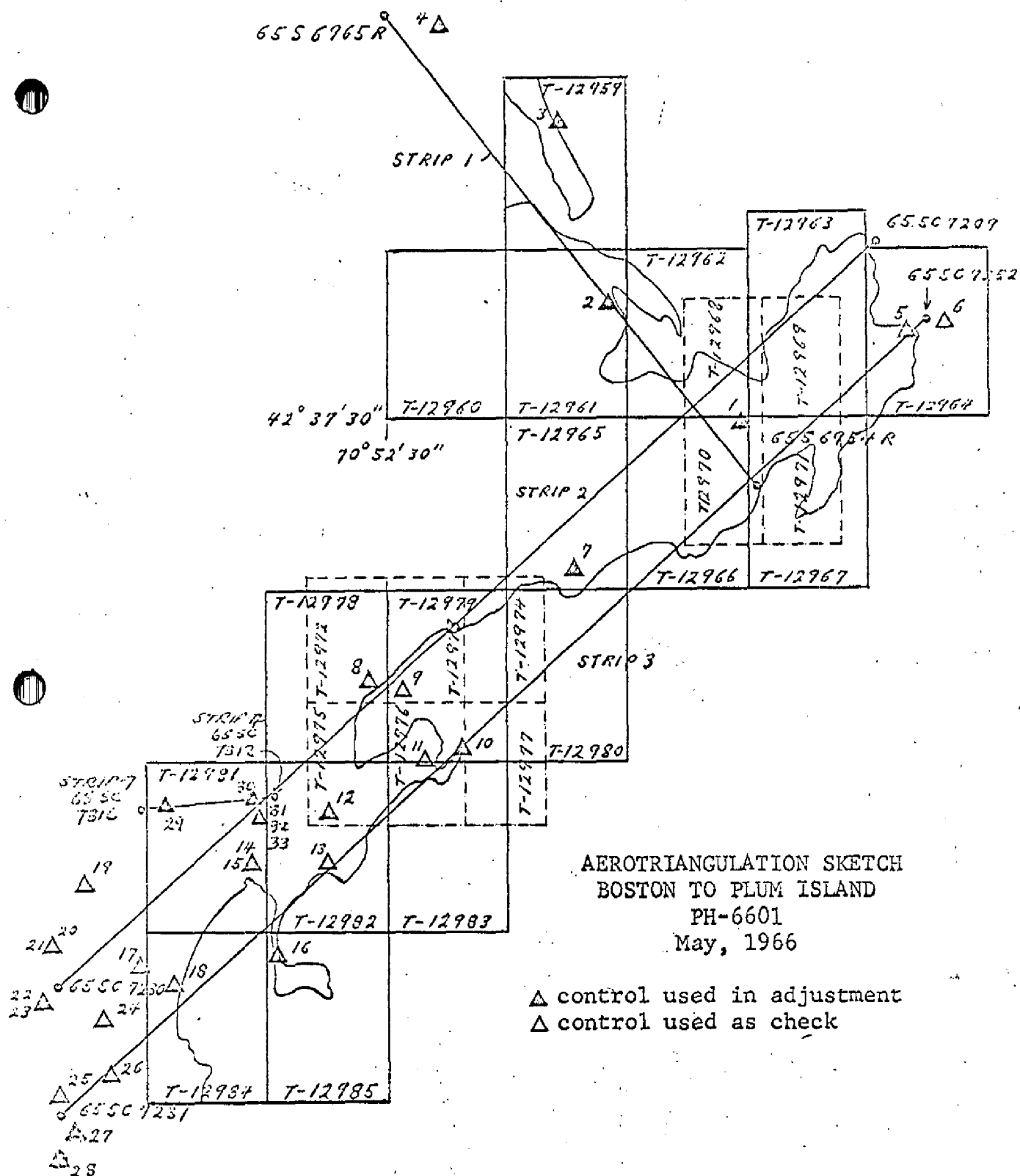
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

25. Photography

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

Respectfully submitted,


Henry P. Eichert



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. 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 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 $(-3.1, -5.2)$

STRIP # 4

24 DANVERS, COOKE & KRAUSE
CO. CHIMNEY, 1919

HOME STA (-0.78 +0.79)

SS "A" (-0.01 -0.01)

SS "B" (-1.83 +1.74)

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

(-0.01 -0.01)

31 BEVERLY, ODD FELLOWS CUPOLA, 1934

(-1.29 +1.55)

32 BEVERLY, ST. MARY'S CHURCH SPIRE, 1934

(-1.32 -1.09)

33 BEVERLY, 1ST BAPTIST CHURCH, 1914

(+1.35 +1.10)

TIE POINTS

12601 (-0.28 -6.78)

12602 (-3.79 -3.20)

13601 (-2.56 -3.47)

14601 (-3.15 -1.53)

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12984 PROJECT NO. PH-6601 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION L IN METERS (1 ft. = 3048006 meter) FORWARD (BAC)
WINTHROP, CATHOLIC CHURCH, TOWER 1934	Vol. I Pg. 63	NA 1927	42° 22' 46.360"	1430.4 (420.9)
WINTHROP, METHODIST CHURCH, SPIRE 1934	" "	"	70° 59' 00.294"	6.7 (1366.0)
WINTHROP LIGHT 1934	Vol. I Pg. 94	"	42° 22' 35.829"	1105.5 (745.8)
			70° 59' 03.749"	85.8 (1286.9)
REVERE BEACH, NEW AMUSEMENT HOUSE CUPOLA 1919	Vol. I Pg. 874	"	42° 24' 41.799"	1289.7 (561.6)
			70° 58' 48.624"	1112.7 (260.4)
REVERE POLICE TOWER, 1934	Vol. I Pg. 96	"	42° 24' 39.003"	1203.4 (647.9)
			70° 59' 28.438"	650.3 (721.6)
REVERE BEACH STACK, 1919	Vol. I Pg. 97	"	42° 24' 50.399"	1555.1 (296.2)
			70° 59' 24.077"	550.5 (821.4)
			42° 24' 52.213"	1611.1 (240.2)
			70° 59' 27.853"	636.9 (735.0)
COMPUTED BY L. L. Graves	DATE 10/11/66	CHECKED BY RJP	DATE 10/12/66	5



DESCRIPTIVE REPORT CONTROL RECORD

MAP T-12984

PROJECT NO.

PH-6601

SCALE OF MAP.

1:10,000

SCALE FACTOR

[illegible]

COMPUTED BY L.L. Graves

DATE 10/12/66

CHECKED BY R. J. P.

DATE 10/12/66

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COMPILATION REPORT
T-12984

31. DELINEATION:

B-8 was used to delineate the planimetry, and inshore detail. The Mean High Water Line was compiled by the graphic method, from infrared ratio photographs taken at MHW.

Photography was adequate.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation of photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline was delineated from office interpretation of infrared photography taken at Mean High Water. Alongshore details were delineated from office interpretation of color photography taken at Mean Low Water.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Junctions are in agreement with T-12981 to the north, T-12985 to the east, T-13242 to the south, and T-12388 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle Lynn, Mass., scale 1:24,000 dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 246 (BOSTON HARBOR), scale 1:25,000, 30th Edition, dated Feb. 28, 1966 and 240, (SALEM AND LYNN HARBORS), scale 1:25,000, 8th Edition, dated Aug. 15, 1960; revised Feb. 8, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Submitted by:

Bernard L. Graves for
L.L. Graves
Cartographic Technician

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-12984

Beachmont
Belle Isle Inlet
Boston and Maine (RR)
Boston Harbor
Broad Sound
Cherry Island Bar
Crescent Beach
Diamond Creek
Grovers Cliff
Lewis Lake
Logan International Airport
MBTA
Ocean Spray
Oak Island
Pines River
Point of Pines
Revere
Revere Beach (locality)
Revere Beach
Sales Creek
Short Beach
Short Beach Creek
Winthrop
Winthrop Beach
Winthrop Highlands
Youngs Hill

Prepared by:

C. E. Harrington

C. E. Harrington
Staff Geographer

T - 12984

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- 12984

1. PROJECTION AND GRIDS RJP	2. TITLE RJP	3. MANUSCRIPT NUMBERS RJP	4. MANUSCRIPT SIZE RJP
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RJP	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	10. PHOTOGRAMMETRIC PLOT REPORT RJP	11. DETAIL POINTS RJP
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RJP	13. LOW-WATER LINE RJP	14. ROCKS, SHOALS, ETC. RJP	15. BRIDGES RJP
16. AIDS TO NAVIGATION RJP	17. LANDMARKS RJP	18. OTHER ALONGSHORE PHYSICAL FEATURES RJP	19. OTHER ALONGSHORE CULTURAL FEATURES RJP
PHYSICAL FEATURES			
20. WATER FEATURES RJP		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 RJP
CULTURAL FEATURES			
27. ROADS RJP	28. BUILDINGS RJP	29. RAILROADS RJP	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RJP		34. JUNCTIONS RJP T-13242 LLG	35. LEGIBILITY OF THE MANUSCRIPT RJP
36. DISCREPANCY OVERLAY RJP	37. DESCRIPTIVE REPORT RJP	38. FIELD INSPECTION PHOTOGRAPHS RJP	39. FORMS RJP
40. REVIEWER Albert C. Rauch, Jr. for R. J. Pate June 16, 1972		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauch, Jr. A. C. Rauch, 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 June 6, 1972 R. J. Pate June 13, 1972		SUPERVISOR Albert C. Rauch, Jr. A. C. Rauch, Jr.	
43. REMARKS Field Edit Applied From: Cronaflex T-12984, Field Edit Ozalid T-12984, Photographs, 70 L 3979, 70 L 3982, 65 S 7234 and 66 L 2917.			

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FIELD EDIT REPORT
JOB PH-6601
MAP T-12984
MASSACHUSETTS

This map was field-edited during the latter part of July and August 1970. The map was compiled without field inspection prior to compilation, therefore, a complete and thorough field edit was done. This map area is covered by photography taken June 1970; therefore most shore line features are referenced to these photos. All field notes were made in violet ink on the ratio prints and referenced from the field edit sheet.

52. ADEQUACY OF COMPILATION

The adequacy of the compilation of this map was good. A few representative areas were selected to check the high water line.

Distances were measured from photo points to the high water line and noted on the photos. These are referenced from the field edit sheet. A visual inspection of the low water line was made in a few areas, all of which agreed generally with the compilers interpretation.

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 map.

The chart name of one landmark in the area of the town of Winthrop is recommended to be changed from TOWER to BELL TOWER; this is noted on the field edit sheet and on form 567. There are only two aids in this map area: these are BLACK ROCKS LIGHT #9, and WHITE ROCKS LIGHT #7. These aids have been numbered within the last year.

57. ROCKS AND ROCK LEDGES

Rocks in question and additional rocks have been shown on the photographs and referenced from the field edit sheet.

Two rock areas, one near Revera Beach and one near breakwater at Winthrop Beach, have most of the rocks located by sextant fixes. These were plotted on the cronaflex sheet along with the angles, and are referenced from the field edit sheet.

All ledge areas in question were inspected at or near low water; there were no ledges visible in these areas; these areas should be charted as rocky areas.

58. MISCELLANEOUS

A few sheets are noted on the field edit sheet and referenced to the photographs.

Buildings to be mapped were either checked directly on the field edit ozalid or circled on the photographs and referenced from the field edit ozalid.

Field edit corrections and additions have been shown on the following photographs: 65-S-7234, 66-E-2917, 70-L-3979 and 70-L-3982.

SUBMITTED BY: Erwest W. Hartford
Surveying Technician
August 31, 1970

STRIKE OUT TWO

Atlantic Marine Center
Norfolk, Virginia

June 1, **19**72

The positions given have been checked after listing by

L. L. Graves

Alfred C. Holmes,
Director. AMC

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

NONFLOATING AIDS FOR CHARTS

TO BE CHARTED - STRIKE OUT TWO

Atlantic Marine Center,
Norfolk, Virginia

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

The positions given have been checked after listing by

L. L. Graves

Alfred C. Holmes,

MASSACHUSETTS

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

TO BE CHARTED

STRIKE OUT TWO

LANDMARKS FOR CHARTS

Atlantic Marine Center
Norfolk, Virginia

June 2 1972

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

The positions given have been checked after listing by

L. L. Graves

Alfred C. Holmes,

Chief of Party:

Director: AMC

[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

REVIEW REPORT T-12984

SHORELINE

October, 1973

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None available here at this time. Indexes show the only prior surveys of this area to be too far out of date for any usefulness. This survey supersedes any prior surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Quadrangle Lynn, MA, dated 1956 at 1:24,000 scale. The only significant discrepancy is the ledge areas shown from Cherry Island Bar to Winthrop Highlands. The field editor defines these areas as foul with rocks not ledge. These are indicated on the discrepancy print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with boat sheet H-9134 dated 1970 at 1:10,000 scale. In general the comparison was very good. The shape of one area fouldwith rocks at 42°25' Lat. and 70°58' Long. is different. The shape given by the hydrographer is believed to be better, since it is substantiated by hydro reading on the boat sheet, and should be used. It is indicated on the discrepancy print in purple.

The boat sheet does not cover south of 42°24'45" Lat. in Broad Sound.

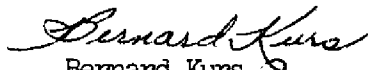
65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 240 at 1:25,000 scale dated 5/19/73. There is good general agreement with a few exceptions. These are noted on the discrepancy print in red.

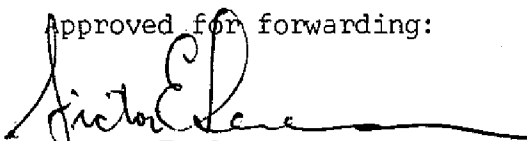
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with 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

65-S-6934R



WHITE ROCKS LIGHT 1954

ATE
ROCKS

25'30"

Foul with Rocks and Kelp

* Not visible
on photos

Subm 1 ft to 8 ft

(2)*

(2)*

Lobster Rocks

Awash MLW

BLACK RR. Pt

Awash MHW

(5)*

y=520,000 FT.

(7)*

Awash MLW

25'30"

lineation of features
ine on this survey
e contemporary
rea where available,
d delineation.

Pier

Piling
Pier

(2)*

Awash MLW

(4)*

Foul

(6)*

Awash MLW

25'

25'00"

Chart 240 1:25,000



Sewer Outfall

y=515,000 FT.

70°57'

56'30"

42°

24'30"

T-12984

B R O A D

