

T-12969

T-12969

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job No. Map No. T-12969
Classification No. Edition No. 1
Field Edited

LOCALITY

Massachusetts
State
General Locality Boston to Plum Island
Locality Hodgkins Cove

19 65 TO 19 69

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-12969

PROJECT NO. (II):

PH-6601

FIELD OFFICE (II):

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 Plotter and Graphic

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:7,500 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):

MEAN ~~LOW WATER~~ ^{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 ~~soundings datum~~

REFERENCE STATION (III):

Gloucester Tank 1935

LAT.:

42° 37' 36.175"

LONG.:

70° 40' 08.439"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 593,869.97 Ft.

x = 823, 650.12 Ft.

STATE

Massachusetts

ZONE

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-12969

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photography: August 25, 1965		
PROJECTION AND GRIDS RULED BY (IV): A.E. Roundtree		DATE 4/26/66
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser		DATE 4/28/66
CONTROL PLOTTED BY (III): L. Neterer		DATE 9/22/66
CONTROL CHECKED BY (III): C. Blood		DATE 9/22/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): H.P. Eichert		DATE 11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY B.H. Barnes	DATE 5/12/67
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): L.O. Neterer		DATE 12/6/67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): C.H. Bishop		DATE 1/31/68
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

T-12969

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65S(C)7296 thru 7300	Aug. 31, 1965	08:27	1:15,000	0.6 ft. below MLW
65S-7112R thru 7116R	Aug. 25, 1965	09:39	1:15,000	8.7 ft. above MLW

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Portland, ME		9.0	10.4
SUBORDINATE STATION: Annisquam, MA		8.5	9.9
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Bernard Kurs AMC

DATE:

March, 1974

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

0

IDENTIFIED:

0

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

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

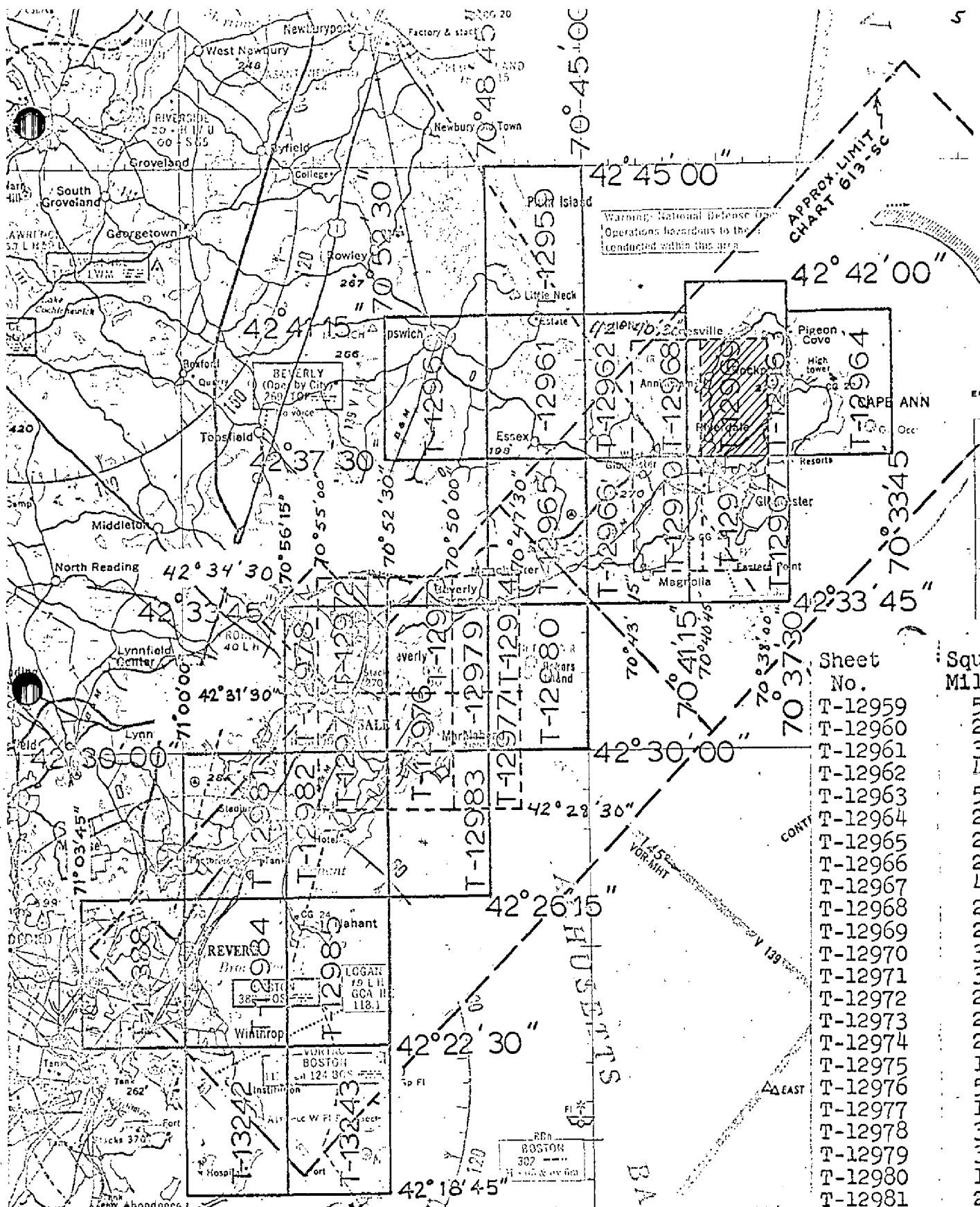
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

*The stage of tide at time of photography was determined from readings on a staff at Plum Island (Merrimack River Entrance). See Instructions, OFFICE, dated April 28, 1966.

T-12969

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	Jan. 31, 1968	Superseded
Field Edit applied; Compilation Complete	July 24, 1969	Superseded
Final Review	March, 1974	



Sheet
No.

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
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T-12388
T-13242
T-13243

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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-12969

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.

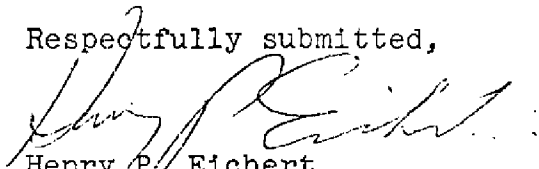
24. Supplemental Data

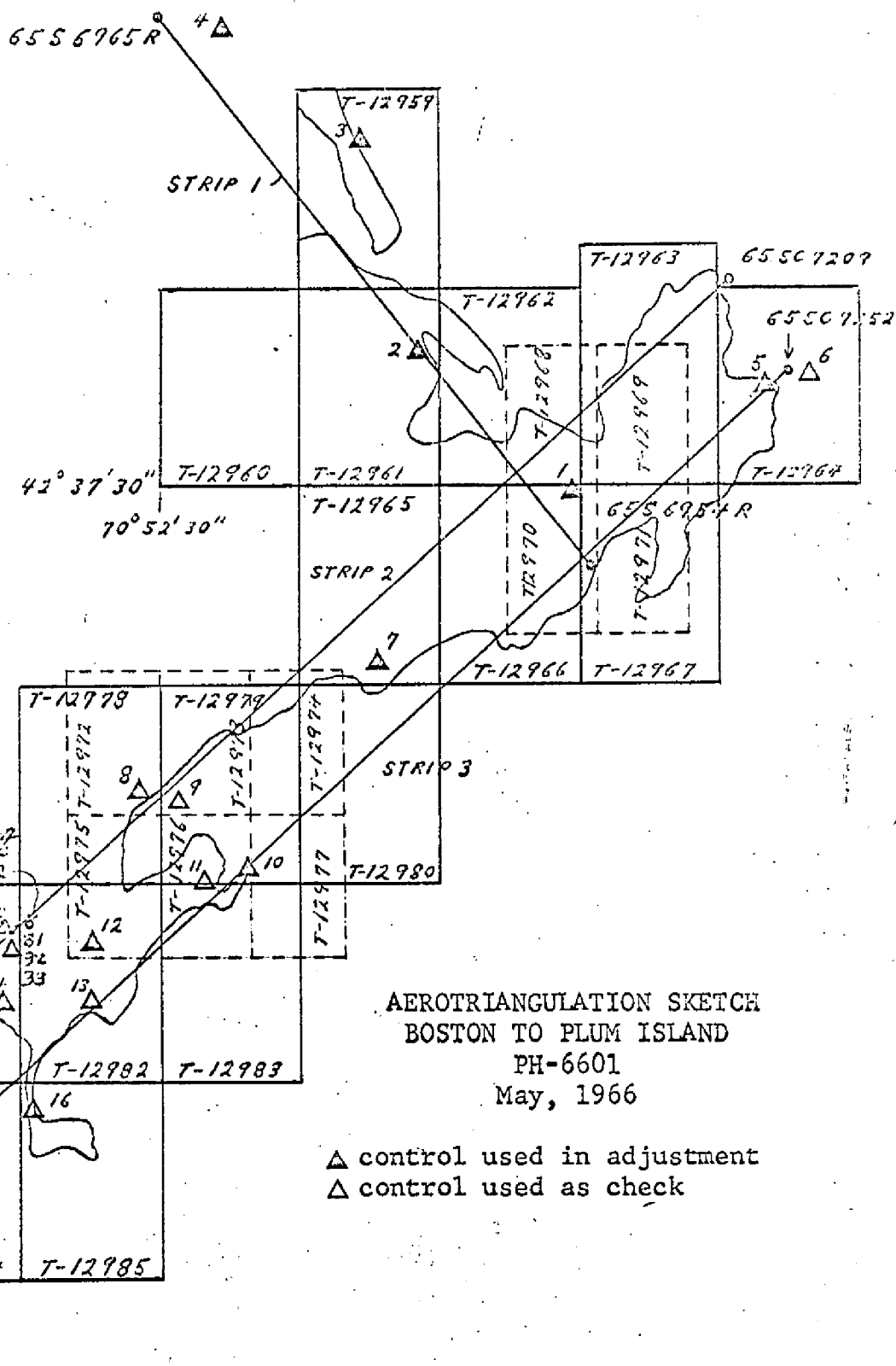
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

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

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 STAND PIPE, 1934

office identified $(+0.7, +1.8)$

11 MARBLEHEAD, ABERT TOWER, 1919

office identified $(-0.6, +4.4)$

10 MARBLEHEAD LIGHTHOUSE, 1914

office identified $(+2.0, +5.1)$

7 MANCHESTER CHURCH PARK SPIRE, 1848

target $(-3.5, -5.8)$

sub pt A $(-4.1, -5.2)$

1 MEAD 2 (MGS), 1934

target $(+3.8, -0.7)$

sub.pt $(+6.2, -1.2)$

5 STONEHAVEN (ROCKPORT TOWN (MGS)), 1939

target $(-2.1, +0.3)$

sub pt A $(-1.3, +1.6)$

sub pt B $(-2.0, +1.2)$

6 STRAITS MOUTH LIGHTHOUSE, 1902

office identified $(-3.1, -5.2)$

STRIP # 7

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 COPOLA, 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)

COMPILATION REPORT

T-12969

31. DELINEATION

The mean high water line was compiled graphically from infrared photographs taken at mean high water. All other detail was compiled using the Wild B-8 plotter.

32. CONTROL

See Photogrammetric Plot Report, dated November 1, 1966.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line was delineated from office interpretation of infrared photographs taken at mean high water. The mean low water line, rocks, ledges and foul areas were delineated from office interpretation of the color photographs taken at mean low water.

36. OFFSHORE DETAILS

All offshore details were delineated by office interpretation of the photographs.

37. LANDMARKS AND AIDS

Appropriate copies of Forms 567 have been submitted to the Washington office Dec. 9, 1968.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with T-12967 (1:10,000) to the south and east; T-12963 (1:10,000) and T-12969 (1:5,000) to the north; and T-12966 (1:5,000) to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle Gloucester, MA, scale 1:24,000, dated 1960.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with charts No. 233, scale 1:10,000 Fourth Edition, dated April 27, 1963 and chart No. 243, scale 1:20,000 Eighth Edition, dated Sept. 14, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS

None.

ITEMS TO BE CARRIED FORWARD

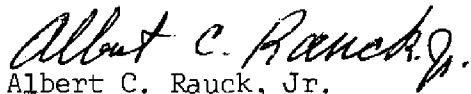
None.

Submitted:



A.L. Shands
Cartographic Technician
12/9/68

Approved:



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-12969

Annisquam
Annisquam River
Bay View
Davis Neck
Goose Cove
Hodgins Cove - Hodgkins Cove
Ipswich Bay
Langsford Pond
Lobster Cove
Mill Pond
Mill River
Plum Cove
Riverdale
Riverdale Station
Strangman Pond

Prepared by:

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

49. NOTES FOR THE HYDROGRAPHER AND FIELD EDITOR

Separate edit ozalids have been prepared for your respective uses. These are intended to simplify your efforts and eliminate the possibility of any duplication of edit procedures.

On each are noted pertinent remarks concerning doubtful interpretations or items of compilation requiring additional clarification and/or verification.

For the field editor, notes include all items inshore from the approximate M.L.W.L. All offshore items are noted for the Hydrographer's attention.

Among these items requiring edit by both parties, are "Landmarks and Aids". These are indicated by a numeral. The following key is an explanation of the attention they may require:

1. Object not visible on photos. Verify by edit.
2. Object visible, position verified.(by compiler)
3. Object visible, position re-determined. Verify by edit.
4. Object which may be a landmark or new aid. Verify by edit.

Forms 567 should be submitted for all "Landmarks and Aids".

FORM C&GS-1002
(9-66)U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-12969

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	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 CHB	11. DETAIL POINTS CHB
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE CHB	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES
16. AIDS TO NAVIGATION CHB	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES CHB	21. NATURAL GROUND COVER CHB		22. PLANETABLE CONTOURS N.A.
23. STEREOSCOPIC INSTRUMENT CONTOURS N.A.	24. CONTOURS IN GENERAL N.A.	25. SPOT ELEVATIONS N.A.	26. OTHER PHYSICAL FEATURES CHB
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES N.A.		32. PUBLIC LAND LINES N.A.	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB	34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY CHB	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS X X	39. FORMS CHB
40. REVIEWER C.H. Bishop 1/31/68		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. A.C. Rauck	
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 C.H. Bishop Reviewed by: A.L. Shands		SUPERVISOR Albert C. Rauck, Jr. A.C. Rauck	
43. REMARKS Field Edit applied from: Field Edit Ozalid (T-12969) Field photos (Matte Ratio Prints) 65S-7297, 7299 (1:5,000) 65S-7210 (1:10,000)			

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FIELD EDIT REPORT
JOB PH-6601
Map T-12963
Massachusetts

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

52. ADEQUACY OF COMPILATION

The adequacy of the compilation was good; especially the compilation of ledges and foreshore.

54. RECOMMENDATIONS

None

56. LANDMARKS AND AIDS

Form 567 is submitted for all nautical landmarks and fixed aids within the limits of this map. Charting names for several nautical landmarks have been recommended for change. Many landmark buildings (not nautical landmarks) were deleted on the field edit ozalid. They were not prominent nor neither were they considered of any value as a landmark building.

See Field Edit Report for Map T-12962 concerning submission of Form 567 in this area.

57. ROCKS AND ROCK LEDGES

The Hydrographic Party in 1967 edited a portion of this map for rocks. This field editor only edited the portions not resolved previously. All rock inspection was done at or near low-water.

Elevations of rocks at low-water have generally been found to be shown too low by compiler; maybe caused by sea-growth on rocks.

Individual rock symbols have been show in many places where the the field editor believes the areas would be better represented by a ledge symbol.

58. MISCELLANEOUS

Several streets, roads, highway numbers etc. have been shown by notation on the field edit ozalid.

All of Map T-12969 and a part of Map T-12968 fall within the limits of this map. Separate field edit ozalids for these two maps have been submitted.

Field edit corrections have been shown on the following photographs: 65-S-7210, 65-S-7297 and 65-S-7299.

Submitted By:
Ernest W. Hartford
Ernest W. Hartford
Surveying Technician
July 10, 1969

NONPOLLUTING AIDS OR LANDMARKS FOR CHARTS

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

STRIKE OUT TWO

July 22 1969

Atlantic Marine Center

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

The positions given have been checked after listing by

Charles H. Bishop

Allen L. Powell, Director CHAMQ 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 reported under each column heading should be given. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

J5COM-DC 16234-P89

✓C11B

NONFLOATING AIDS OR LANDMINEBARRIERS FOR CHARTS

STRIKE OUT TWO

Atlantic Marine Center

July 22, 1969

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

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

Allen L. Powell, Director; ~~ANC~~ *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.

* TABULATE SECONDS AND METERS

USCNOA-DC 18234-P01

✓ C 1173



STRIKE OUT TWO

NOTES ON THE LANDMARKS FOR CHARTS

Atlantic Marine Center · July 22 · 1969

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

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

Allen L. Powell, Director, **ARC** *les of Paris*

[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

USC99-DC 10234-P01

[illegible]

REVIEW REPORT T-12969

SHORELINE

MARCH, 1974

61. GENERAL:

See summary which is pg. 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with T-11155 field inspected 1953 and with 1953 photography at 1:10,000 scale. There is good general agreement.

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 U.S.G.S. Quadrangle Gloucester, MA, 1:24,000 dated 1960. The two surveys are in very good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with chart 233 dated Jan. 6, 1973 at 1:10,000 scale. There is very good general agreement.

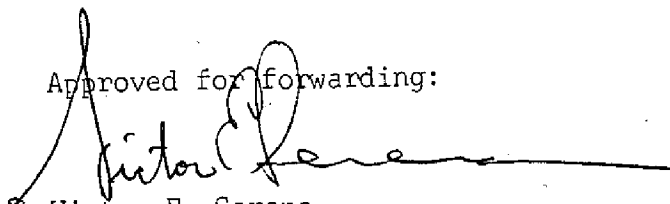
66. ADEQUACY OF RESULTS AND FUTURE SUVEYS:

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

Reviewed by:

Bernard Kurs
Bernard Kurs
Cartographer

26
Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

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