

T-12971

T-12971

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-12971

LOCALITY

State Massachusetts

General locality Boston to Plum Island

Locality Gloucester Harbor

19 65 - 1968

CHIEF OF PARTY

Allen L. Powell, Director, AMC

LIBRARY & ARCHIVES

DATE



DESCRIPTIVE REPORT - DATA RECORD

T -12971

PROJECT NO. (II): Job Ph-6601		
FIELD OFFICE (III): Atlantic Marine Center		CHIEF OF PARTY Allen L. Powell, Director, AMC
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center		
INSTRUCTIONS DATED (II) (III): Field - August 4, 1965 Field - August 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		
USCRIPT SCALE (III): 1:5,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:2,500 Pantographed to 1:5,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV): SEPT 1975
GEOGRAPHIC DATUM (III): NA 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): Railroad Ledge 1934 ✓		
LAT.: 42° 37'00.318" (09.8m) ✓	LONG.: 70° 49'42.645 (971.9m) ✓	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): X =		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

FIELD INSPECTION BY (III):		DATE:
None		
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):		DATE
A. E. Roundtree		4/26/66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		4/28/66
CONTROL PLOTTED BY (III):		DATE
L. Neterer		9/22/66
CONTROL CHECKED BY (III):		DATE
C. Blood		9/22/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
H. P. Eichert		11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8	PLANIMETRY B. H. Barnes Reviewed by: L. O. Neterer	DATE 6/6/69 6/6/69
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
L. O. Neterer		6/12/69
SCRIBING BY (III):		DATE
B. Barge		8/7/69
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation R. J. Pate Field Edit: R. J. Pate Scribing & Stick up: R. J. Pate		DATE 6/12/67 3/9/69 8/15/69
REMARKS:		
Field Edit by: E. W. Hartford 10/28/68		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65-S-7291 thru 65-S-7295	8/31/65	08:25	1:15,000	0.5 ft. below MLW*
65-S-7048 thru 65-S-7051	8/24/65	14:27	"	0.0 ft. above MLW*
65-S-7102R thru 65-S-7105R	8/25/65	09:34	"	0.1 ft. above MHW*
65-S-7108R thru 65-S-7111R	8/25/65	09:37	"	0.1 ft. above MHW*

TIDE (III) PREDICTED

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: BOSTON		9.5	11.0
COORDINATE STATION: GLOUCESTER		8.7	10.1
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs

DATE:
March, 1974

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

20

RECOVERED:

15 / 26

IDENTIFIED:

8

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

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

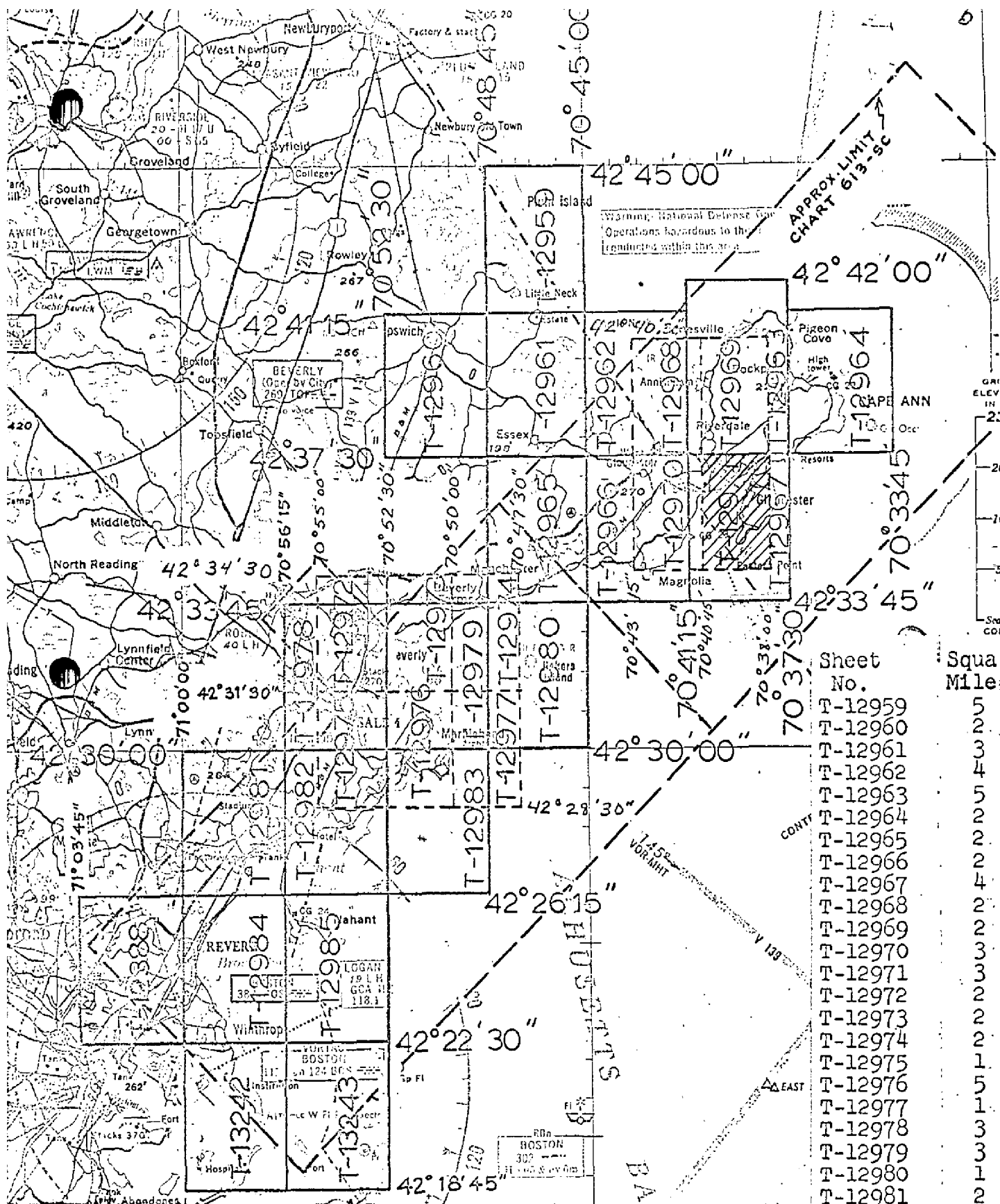
None

REMARKS:

* The stage of Tide at the time of photography was determined by readings on a staff at Tenpound Island at that time see Instructions, OFFICE, dated April 28, 1966.

T-12971

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for Hydro	June 1967	Superseded
Partial Field Edit Applied	April 1968	Superseded
Field Edit Applied, streets and interior details completed compilation complete	March 1969	Superseded
Final Review	March, 1974	



Sheet No.	Squa Mile
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

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-12971
Boston to Plum Island
PH-6601

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.

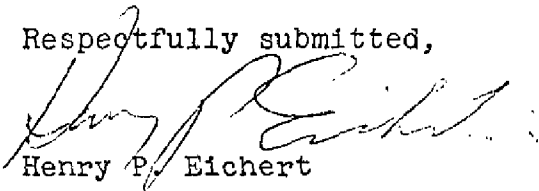
24. Supplemental Data

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

~~AND~~ 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, 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 # 4

29 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- 12971 PROJECT NO. PH-6601 SCALE OF MAP 1:5,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter)	N.A. 1927 - DATUM FORWARD (BACK)
TEN POIND ISLAND LIGHTHOUSE 1902	Vol. 1 P-279	NA 1927	42 36 06.395	197.3	(1654.1) ✓
TAV (GLOUCESTER TAVERN, RED CHIMNEY) 1928	Vol. 1 P-882	"	70 39 57.805	1317.7	(50.1) ✓
GEN (GENERAL FOODS CORP. TOWER) 1916	Vol. 1 P-884	"	42 36 35.51	1095.7	(755.7) ✓
TARR (GLOUCESTER TARR AND WONSON'S FACTORY CHIMNEY) 1916	Vol. 1 P-880	"	70 40 03.40	77.5	(1290.1) ✓
GLOUCESTER UNIVERSALIST CHURCH 1849	Vol. 1 P-831	"	42 36 33.921	1046.7	(804.7) ✓
GLOUCESTER CITY HALL 1902	Vol. 1 P-278	"	70 39 57.471	1310.0	(57.6) ✓
GLOUCESTER PORTUGUESE CHURCH EAST TOWER 1916	Vol. 1 P-853	"	42 36 22.481	693.7	(1157.7) ✓
DOG BAR LIGHT 1916	Vol. 1 P-280	"	70 39 39.467	899.7	(468.0) ✓
EASTERN POINT LIGHTHOUSE 1902	Vol. 1 P-279	"	42 36 47.070	1452.5	(398.9) ✓
			70 40 00.161	3.7	(1363.9) ✓
			42 36 50.295	1552.0	(299.4) ✓
			70 39 48.231	1099.3	(268.3) ✓
			42 37 00.543	16.8	(1834.6) ✓
			70 39 27.075	617.1	(750.4) ✓
			42 34 57.041	1760.1	(91.3) ✓
			70 40 22.306	508.6	(859.6) ✓
			42 34 48.549	1498.0	(353.4) ✓
			70 39 53.943	1230.1	(138.1) ✓
COMPUTED BY LLG	DATE 10/12/66	CHECKED BY JSP	DATE 10/17/66		15

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12971 PROJECT NO. PH-6601 SCALE OF MAP 1:5,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter)	
				FORWARD	(BACK)
RAILROAD	Vol. 1	NA	42 37	00.318	09.8 (1841.6) ✓
LEDGE 1934	P-277	1927	70 40	42.645	971.9 (395.6) ✓
PYR, (GLOUCESTER, CONGREGATIONAL	Vol. 1		42 36	47.266	1458.5 (392.9) ✓
CHURCH PYRAMID SPIRE) 1928	P-882	"	70 39	53.638	1222.5 (145.1) ✓
CITY			42 36	47.985	1480.7 (370.7) ✓
LEDGE 1934	P-277	"	70 40	41.199	939.0 (428.5) ✓
DOG BAR 1940	P-277	"	42 34	57.141	1763.1 (88.3) ✓
FORT 1934	P-277	"	70 40	22.457	512.1 (856.1) ✓
GLOUCESTER EASTERN POINT	P-277	"	42 36	17.657	544.8 (1306.6) ✓
RADIO MAST 1940	P-280	"	70 40	38.060	867.6 (500.1) ✓
KENT 1934	P-277	"	42 34	50.194	1548.8 (302.6) ✓
			70 39	53.573	1221.7 (146.5) ✓
			42 36	33.294	1027.4 (824.0) ✓
			70 40	35.243	803.3 (564.3) ✓
COMPUTED BY	LLG	DATE	10/12/66	CHECKED BY	ALS, JSP
				DATE	10/17/66

COMPILATION REPORT
T-12972

31. DELINEATION

The MHWL was compiled graphically from infrared ratios taken at mean high water. All other detail was compiled on the Wild B-8 using color photos taken at mean low water. Photography was satisfactory.

32. CONTROL

See photogrammetric plot report dated 11/1/66.

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

See item 31. All shoreline and foreshore area detail including all piers, ledges and shallow lines were delineated from office interpretation of the photographs. The field editor has been asked to verify all rock elevations which were determined by the Wild B-8 stereo plotter method.

36. OFFSHORE DETAILS

No Statement.

37. LANDMARKS AND AIDS

Appropriate copies of Forms 567 have been submitted to the Washington Office under dates of December 1968, February 1969 and August 1969.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions were made and found to be in agreement with T-12967 (1:10,000) to the east, west and south, T-12963 (1:10,000) and T-12969 (1:5,000) to the north, T-12970 (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, Mass., scale 1:24,000; dated, 1960

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with USC&GS Chart No. 233, 4th Edition, scale 1:10,000, dated September 23, 1942 revised May 27, 1963.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

A. L. Shands

A. L. Shands
Carto. Technician

Approved and Forwarded

Allen L. Powell
Allen L. Powell
Director, AMC

Sept. 24, 1973

GEOGRAPHIC NAMES

FINAL NAME SHEETS

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

T-12971

Atlantic Ocean
Beacon Hill
Bemo Ledge
Black Bess Point
Black Bess Rocks
Black Rock
Blynman Canal
Boston and Maine (RR)
Brace Cove
Brace Rock
Cape Ann
Cressy Beach
East Gloucester
Eastern Point
Field Rocks
Fort Point
Gloucester
Gloucester Harbor
Halfmoon Beach
Harbor Cove
Inner Harbor
Lighthouse Cove
Massachusetts Bay
Niles Beach
Niles Pond
Pavilion Beach
Rocky Neck
Smith Cove
Southeast Harbor
Stage Fort Park
Stage Head

Tablet Rock
Tenpound Island
Western Harbor
Wonson Cove

Prepared by:



C. E. Harrington
Staff Geographer

PRELIMINARY
T-12970 & T-12971

49. NOTES FOR THE HYDROGRAPHER

Due to the urgency of your need of these two sheets, they are temporarily classified as "Preliminary".

Your customary copy of "Notes for the Hydrographer" and your individual "Hydro Edit Ozalid" have been temporarily suspended until such a time as these sheets can be further completed. These copies will then be forwarded to you.

These two sheets are "Preliminary" only insofar as interior details are concerned.

The MHWL has been compiled from infrared photography taken at or about MHW and much of the obvious foreshore has been compiled. These should serve your needs concerning Hydro Signal Sites, but should not be construed as finished "Incomplete" surveys.

They will be further completed on your return to the Atlantic Marine Center of all processed cronapaque ratio photos in these areas.

PHOTOGRAMMETRIC OFFICE REVIEW
T. 12971

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) RJP		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Bridge WO	11. DETAIL POINTS Wild B-8
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 RJP		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 RES	28. BUILDINGS RJP	29. RAILROADS RJP	30. OTHER CULTURAL FEATURES RJP
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RJP	34. JUNCTIONS RJP		35. LEGIBILITY OF THE MANUSCRIPT RJP
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT RJP	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS RJP
40. REVIEWER RJP <i>R.J. Pate</i> June 12, 1967		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> 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 <i>A. L. Shands</i> A. L. Shands <i>R.J. Pate</i> Reviewer: R. J. Pate	1/8/69 3/9/69	SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: Mat Prints, 65-S-7049, 65-S-7050, 65-S-7051 65-S-7292, 65-S-7293, 65-S-7294 Field Edit Ozalid: T=12971 1:5,000 Field Edit Ozalid: T-12967 1:50,000 Sketch showing addition to school			

FIELD EDIT REPORT

PH-6601
 Boston to Plum Island
 T-12966 67-1:10,000 T-12970 71-1:5000

GENERAL NOTES

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

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

51 METHODS

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

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

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

Notations on photographs by sheet numbers are as follows.

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

52 ADEQUACY OF COMPIATION

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

54 RECOMMENDATIONS

None

56 ROCKS

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

57 NAUTICAL LANDMARKS AND FIXED AIDS

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

58 SUBMERGED PIPE LINES AND CABLES

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

59 LANDMARK BUILDINGS AND BLUFFS

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

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

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

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

60 STREETS

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

Submitted by
E. W. Hartford
E. W. Hartford

28 oct. 1968

NONEXISTING OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

Dec. 6 1968

Atlantic Marine Center

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

The positions given have been checked after listing by

A. L. Shands
A. L. Shands

Howard S. Cole
Howard S. Cole
Director, AMC

Chief of Party

STATE			MASSACHUSETTS			POSITION										METHOD OF LOCATION AND SURVEY No.	DATE OF VERIFICATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE		DATUM															
			°	'	°	'		D.P. METERS		D.P. METERS		D.P. METERS		D.P. METERS		D.P. METERS						
	GLOUCESTER HARBOR																					
	INNER HARBOR																					
STACK	Metal, ht = 75 (85) ft.		42	36	50.37	70	39	N.A.	9.13	208	1927	Photo. T-12971	9-13-68	x		x	1206, 1207	243, 233				
STACK	Round, ht = 120 (130) ft.		42	36	47.13	70	39	"	14.02	320	"	"	"	x		x	1206, 1207	243, 233				
CHIMNEY	Brick, ht = 55 (70) ft.		42	36	30.96	70	39	"	22.11	504	"	"	"	x		x	1206, 1207	243, 233				
	EAST GLOUSTER																					
CHIMNEY	(Tarr Gloucester Tarr and Wonsons Factory Chimney) 1916)		42	36	22.481	70	39	"	39.467	899.7	"	Triang. T-12971	"	x		x	1206, 1207	243, 233				
	Red Brick ht = 55 (70) ft.																					
FLAGPOLE	Wood, ht = 33 (43) ft.		42	36	12.02	70	39	"	34.39	784	"	Photo. T-12971	"	x		x	1206, 1207	243, 233				
CUPOLA	Wood, White, Green Top, ht = 35 (45) ft.		42	35	57.94	70	39	"	27.57	629	"	"	"	x		x	1206, 1207	243, 233				

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 nonexisting 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

USCOM-OC 10234-P81

29

TO BE CHARTED
ROBERTSON
ROBERTSON

STRIKE OUT TWO

NONPOINT SOURCE LANDMARKS FOR CHARTS

Atlantic Marine Center

Dec. 6 1968

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

The positions given have been checked after listing by

A. L. Shands

For: Howard S. Cole
Director, AMC

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

TABULATE SECONDS AND METERS

DISCONTINUED 18234-P41

NONIDENTIFYING CASES: LANDMARKS FOR CHARTS

TO BE CHARTERED
TO BE GRANTED
TO BE EXERCISED

STRIKE OUT TWO

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

The positions given have been checked after listing by

Charles H. Bishop

Allen L. Powell

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

U.S. COMM-DC 16234-PB1

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEYTO BE CHARTED
TO BE EXAMINED
TO BE ORDERED

STRIKE OUT TWO

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

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

The positions given have been checked after listing by

Charles H. Bishop

Charles H. Bishop

Allen L. Powell

Director, AMC

Chief of Party

STATE	MASSACHUSETTS	POSITION										METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE*		LONGITUDE*						DATUM							
		°	'	°	'	°	'	°	'		D.P. METERS						
CHARTING NAME	DESCRIPTION	SIGNAL NAME															
	GLOUCESTER HARBOR																
DAYBEACON 14	Black Rock Daybeacon		42 36	21.36 659	70 39	44.79 1021	N.A. 1927	Photo T-12971	9/13/68	x			x			1206, 1207, 243, 233	
LIGHT	Tenpound Island Light		42 36	06.64 205	70 39	58.12 1325	"	"	9/13/68	x			x			1206, 1207, 243, 233	
LIGHT	(Dog Bar Light 1916) Gloucester Breakwater Light		42 34	57.041 1760.1	70 40	22.306 508.6	"	Triang. T-12971	Verified 9/13/68	x			x			1206, 1207, 243, 233	
	GLOUCESTER INNER HARBOR																
DAYBEACON			42 36	46.70 1441	70 39	19.39 442	N.A. 1927	Photo T-12971	9/13/68	x			x			1206, 1207, 243, 233	
	SOUTHEAST HARBOR																
DAYBEACON	Green Rock Daybeacon		42 36	09.14 282	70 39	45.40 1035	N.A. 1927	Photo T-12971	9/13/68	x			x			1206, 1207, 243, 233	
	SEACOAST																
LIGHT	Eastern Point Light (Eastern Point Lighthouse 1902)		42 34	48.549 1498.0	70 39	53.943 1230.1	N.A. 1927	Triang. T-12971	Verified 9/13/68	x			x			1206, 1207, 243, 233	
																✓C-11B	

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

It was clearly noted throughout the project to this date, that no great effort was made by either parties, i. e., Hydro Edit and Field Edit, to follow the concept as outlined in the "Notes for the Hydrographer and/or Field Editor". Evidence of the field editor editing areas offshore and outlined and noted for the hydro editor and the reverse, were noted many times.

These overlap of areas of edit have produced difficulties for the Compilation office in applying adequate edit to the manuscripts in order to bring them to the Advance stage for smooth processing.

REVIEW REPORT T-12971

SHORELINE

March, 1974

61. GENERAL STATEMENT:

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

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

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

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

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

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

65. COMPARISON WITH NAUTICAL CHARTS:

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

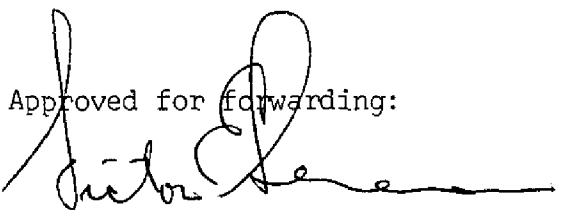
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:


Bernard Kurs
Cartographer

Approved for forwarding:


Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch  Chief, Coastal Mapping Division

