

T-12980

T-12980

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Job No. PH-6601 Map No. T-12980

Classification No. Edition No.
Field Edited

LOCALITY

State Massachusetts

General Locality Boston to Plum Island

Locality Massachusetts Bay

1965 TO 1969

Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-12980

OBJECT NO. (II):

Job 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 and 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):

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):

Great Misery 2, 1916

LAT.:

LONG.:

42° 32' 49.631"(1531.4m)

70° 47' 49.211"(1122.8m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

y = 564, -553.31 Ft.

x = 789, 442.58 Ft.

MASS

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-12980

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		4/26/66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		4/28/66
CONTROL PLOTTED BY (III):		DATE
L. Neterer		9/19/66
CONTROL CHECKED BY (III):		DATE
A. Santillan		9/19/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
H.P. Eichert		11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	L.O. Neterer	8/17/67
Wild B-8	CONTOURS	DATE
	None	
MANUSCRIPT DELINEATED BY (III):		DATE
R.R. White		8/18/67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
C.H. Bishop		8/20/67
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

T-12980

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "S" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65-S-6940R thru 65-S-6943R	Aug. 24, 1965	08:50 EST	1:30,000	8.4 Ft. Above MLW
65-S-(c)-7203	Aug. 25, 1965	10:19	1:5,000	8.5 Ft. Above MLW
65-S-(c)-7242 thru 65-S-7245	Aug. 31, 1965	07:45	1:30,000	0.3 Ft. Below MLW
65-S-(c)-7307 and 65-S-7308	Aug. 31, 1965	08:40	1:15,000	0.4 Ft. Below MLW
65-S-(c)-7356 thru 65-S-7358	Aug. 31, 1968	09:05	1:15,000	0.1 Ft. Below MLW

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston		9.5	11.0
SUBORDINATE STATION: Manchester		8.8	10.2
SUBORDINATE STATION:			

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

DATE:
Jan. 1974

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

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

RECOVERED:

IDENTIFIED:

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

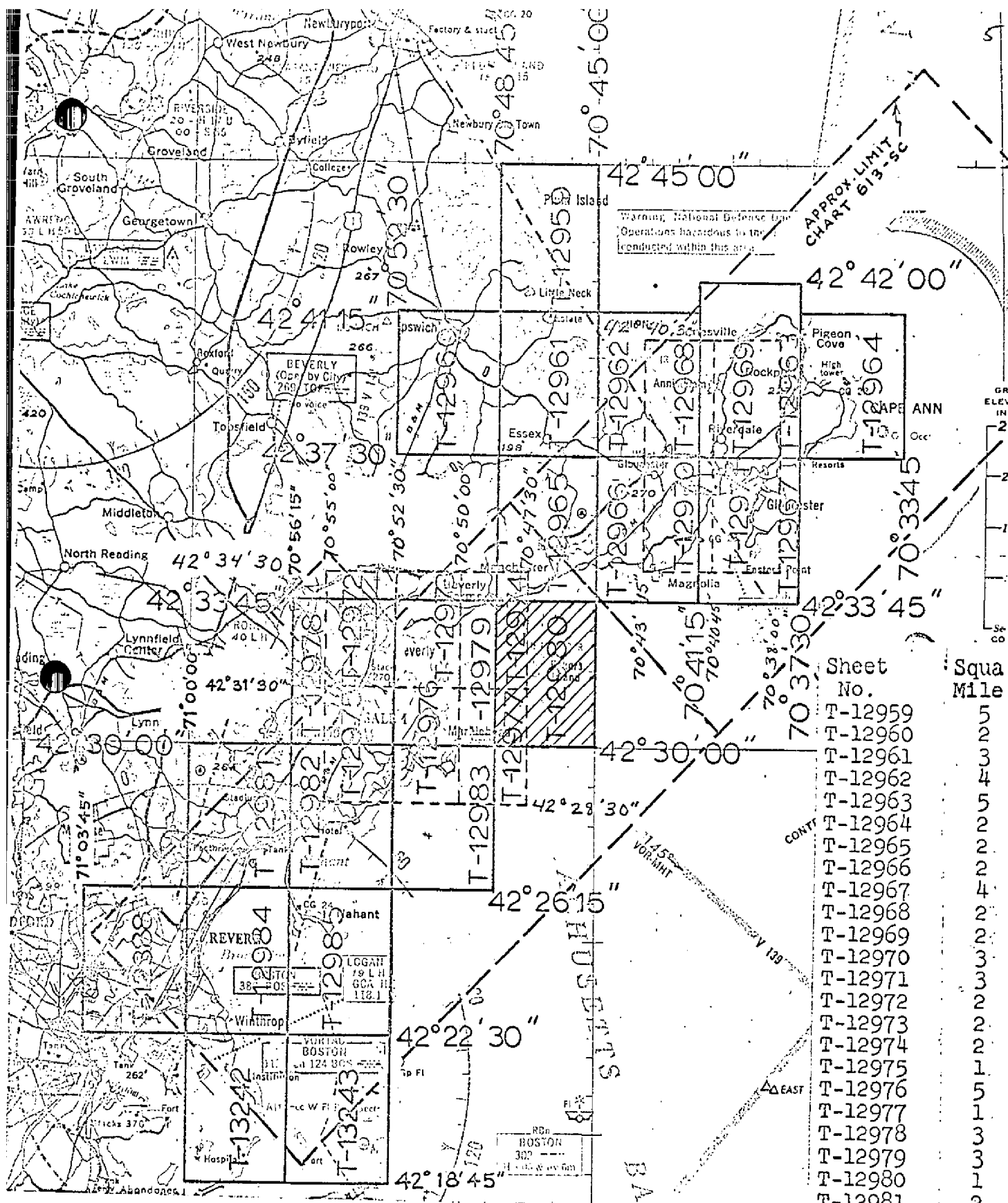
*The Stage of Tide At Time of Photography Was Determined By Readings on a Staff At Gloucester Harbor (Ten Pound Island). See Instructions- Office - Dated 28 April 1966.

T-12980

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	August 1967	Superseded
Partial Field Edit Applied Lat. 42°31'30", Long. 70°45' 00" To Lat. 42°33'45", Long. 70° 47'30"	July 1968	Superseded
Partial Field Edit Applied From Reduction of T-12974 Lat. 42°31'30"; Long 70°47'30" To Lat. 42°33'45"; Long. 70°48' 45"	August 1968	Superseded
Additional corrections (via 1:10,000 work and reductions) W. of Long. 70°47'30"	September 1969	Superseded
Additional Field Edit Applied from T-12341 (1:5000, Man- chester Harbor) Aug.-Sept. 1969. BW	October 1969	Superseded

Final Review

Jan. 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

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

Job PH-12980

T-12980

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.

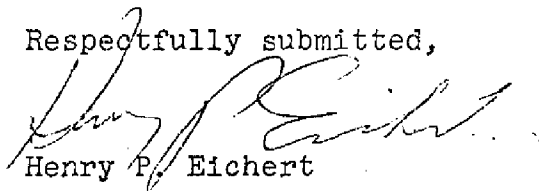
24. Supplemental Data

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 STONEHAGEN (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

23 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, 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 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-T-12980 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	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 304.8006 meter) FORWARD (BACK)	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 304.8006 meter) (BACK)
BAKER ISLAND LIGHTHOUSE, 1834	Vol. I P. 285	NA 1927	42° 32' 10.946"	337.7	(1531.7)
			70° 47' 11.243"	256.6	(1112.6)
HALES BACK BEACON 1914	Vol. I P. 285	"	42° 32' 54.367"	167.5	(173.9)
			70° 47' 06.489"	148.1	(1220.8)
BATAN ROCKS BEACON, 1914	Vol. I P. 508	"	42° 30' 36.535"	1127.3	(724.1)
			70° 48' 03.330"	76.0	(1293.8)
BRIMBLES BEACON, 1914	Vol. I P. 508	"	42° 31' 16.170"	498.9	(1352.5)
			70° 48' 30.263"	690.8	(678.8)
BOWDITCH LEDGE BEACON 1848	Vol. I P. 824	"	42° 32' 24.800"	765.2	(1086.2)
			70° 48' 43.201"	985.8	(383.3)
6 S 6 1943 10 10	Vol. I P. 393	"	42° 33' 39.683"	1224.5	(626.9)
			70° 46' 26.596"	606.7	(762.0)
MISERY, 1914	Vol. I P. 393	"	42° 33' 00.08"	02.5	(246.2)
			70° 47' 49.21"	1122.7	(246.2)
GREAT MISERY 2, 1916	GP Vol. I P. 285	"	42° 32' 49.631"	1531.4	(320.0)
			70° 47' 49.211"	1122.8	(246.2)
NORTH GOOSEBERRY ISLAND 1818	Vol. I P. 825	"	42° 31' 35.399"	1092.3	(759.1)
			70° 47' 39.198"	894.7	(474.8)
COMPUTED BY LLG	DATE 10/11/66	CHECKED BY J.P. & A.L.S.	DATE 10/11/66		

COMPILATION REPORT

Map Manuscript T-12980

Project PH-6601

31. DELINEATION

Between Lat. $42^{\circ} 30' 00''$; Long. $70^{\circ} 45' 00''$ and Lat. $42^{\circ} 33' 45''$; Long. $70^{\circ} 47' 30''$, the mean high water line was compiled graphically from infrared photographs taken at mean high water. All other features were compiled with the Wild B-8 from color photographs taken at mean low water.

Between Lat. $42^{\circ} 30' 00''$; Long. $70^{\circ} 47' 30''$ and Lat. $42^{\circ} 31' 30''$; Long. $70^{\circ} 48' 45''$ all details were traced from a reduction to 1:10,000 scale of T-12977 (1:5,000).

Between Lat. $42^{\circ} 31' 30''$; Long. $70^{\circ} 47' 30''$ and Lat. $42^{\circ} 33' 45''$; Long. $70^{\circ} 48' 45''$ all details were traced from a reduction to 1:10,000 scale of T-12974 (1:5,000).

32. CONTROL

See Photogrammetric Plot Report dated November 1, 1966.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

See Item 31. The low water line was delineated from office interpretations of the photographs. Foul limits, rocks, and rock elevations were determined from office interpretation of the photographs and are to be verified by the field editor.

36. OFFSHORE DETAILS

No Statement.

37. LANDMARKS AND AIDS

Appropriate copies of form 567 for Landmarks and Fixed Aids to navigation were forwarded to the Washington Office under date Sept. 26, 1969.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-12974 scale 1:5,000 and T-12965 scale 1:10,000 to the north, T-12977 and T-12974 scale 1:5,000, and T-12979 scale 1:10,000 to the west; and T-12977 scale 1:5,000 to the south.

There is no contemporary survey to the east or south east.

40. HORIZONTAL AND VERTICAL ACCURACY

No Statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS Quadrangle, MARBLEHEAD NORTH, MASSACHUSETTS, scale 1:24,000, dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with USC & GS Chart 241, SALEM, MARBLEHEAD, AND BEVERLY HARBORS scale 1:10,000 3rd edition, dated Sept. 30, 1963; and Chart 240 SALEM AND LYNN HARBOR, 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:

Richard R. White

R.R. White
Cartographic Technician
August, 1967

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-12980

Bakers Island
Boston and Maine (RR)
Bowditch Ledge
Brimbles
Cat Island
Cat Island Channel
Chubb Island
Chubb Point
Dry Breakers
Eagle Island
Gales Point
Great Misery Island
Halftide Rocks
Halfway Rock
Hardy Rocks
House Island
Inner Breakers
Little Misery Island
Lobster Cove
Manchester Bay
Massachusetts Bay
Middle Breakers
North Gooseberry Island
Pickett Ledge
Pickworth Point
Pope Head
Ram Islands
Salem Channel
Satan Rock

Sauli Rock
Smith Point
South Gooseberry Island
West Beach
Whaleback

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- 12980			
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) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT CHB	11. DETAIL POINTS CHB
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	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 NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES CHB
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS XX	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
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 XX	39. FORMS CHB
40. REVIEWER Charles H. Bishop 8/20/67		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 R.R. White C.H. Bishop CHB		SUPERVISOR July 10, 1968 Sept. 16, 1968 Albert C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: Photos 65-S-7212, 65-S-7243 and reductions of sheet T-12974. Additional field edit was applied by tracing the reduction of T-12341. A 1:5,000 scale manuscript which has been field edited.			

FIELD EDIT REPORT

PH-6601

Boston to Plum Island

T-12959 T-12975 T-12976 T-12978 T-12980

GENERAL NOTES

This report is submitted for four T-sheets, field edited May and June 1968 one sheet T-12980 was field edited June 1967 and is being returned.

Most discrepancies on sheet T-12978 are referenced to sheet T-12975 because of duplication. A few in the northwest corner of sheet T-12978 are noted directly on the sheet or referenced to photo 65-S-7315.

All notations on T-sheet and Photographs are made in violet ink. The notations were made either directly on the discrepancy sheet or referenced to photos.

51 METHODS

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

All rock and ledge areas were inspected at or near low-water. The rock and ledge heights were obtained by hand leveling from mean high-water or mean low-water lines, or by using hourly tide heights obtained from the ship Pierce.

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-12975	T-12976	T-12978	T-12959
65-S-7340	65-S-7324	65-S-7315	65-S-7263
7349	7325		
7351	7350		
	7351		
	7352		
	7353		

52 ADEQUACY OF COMPILATION

The compilation of MHWL and MLWL around ledge areas as a whole appeared to be good, several ledge areas were inspected at low water, these are noted on the discrepancy print and referenced to a photograph. Compilation of piers, streets, and buildings was found to be good.

54 RECOMMENDATIONS:

~~None~~
None

56 ROCKS

Very few rocks were verified directly on the field edit sheets. However areas of rocks in question and rocks recommended for charting, are noted on the field edit sheet and referenced to

photos.

These are inked on the following photos.

T-12976	T-12975
65-S-7324	65-S-7340
7325	7351
7350	
7351	
7352	
7353	

NAUTICAL LANDMARKS AND FIXED AIDS

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

58 LANDMARK BUILDINGS AND BLUFFS

Three landmark buildings are recommended for deletion, one each on the following: T-sheets, T-12975, T-12976, and T-12978. All landmark buildings recommended for charting are circled and labeled as such on the following photos.

65-S-7324, 7350, 7352

All bluffs were investigated off shore and bluffs recommended for charting are inked on the following photos.

65-S-7324 7350 7352

All Public Buildings are circled on the following photos,

65-S-7340 [REDACTED] 7349 7352

59 STREETS

All street additions and classifications for T-sheets T-12975 and T-12976 are noted on the field edit sheet and referenced to the photos.

Submitted by

E. W. Hartford
E. W. Hartford

2 June 1968

NONFLOATING AXES FOR LANDMARKS FOR CHARTS

Atlantic Marine Center, Norfolk, Va. Sept. 16, 1968

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

The positions given have been checked after listing by

Howard S. Cole

C. H. Bishop

Howard S. Cole

Director, AMC

Director, AMC

[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

REVIEW REPORT T-12980

SHORELINE

January, 1974

61. GENERAL STATEMENT:

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

General comparison with Registered Survey number 3765, ^{dated} 1919 at 1:10,000 scale was made. There is a datum difference and time and man has made some shoreline changes.

This survey supersedes the prior listed survey for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle Marblehead North, Mass., 1956 at 1:24,000 scale. There are some differences in the location of Inner and Middle Breakers. See discrepancies in brown on the discrepancy print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of "Advance" Boat Sheets H-9090 and H-9094. Both are at 1:10,000 scale and are dated 1969. Both surveys are in very good agreement. For that area that falls south of 42° 31' 30" Lat. and east of 70° 47' 30" Long. the final, latest hydro. survey should be used as the field inspection in this area was nil.

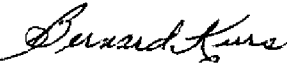
65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 240 dated May 19, 1973 at 1:25,000 scale. There is good general agreement with a few exceptions. See the discrepancy print marked in red for the significant differences.

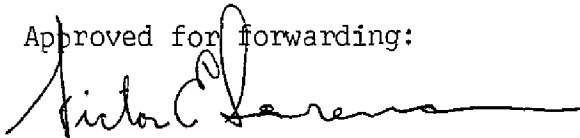
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

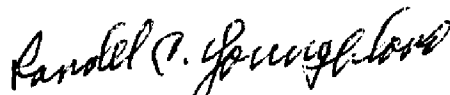

Bernard Kurs,
Cartographer

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch *for* 
Chief, Coastal Mapping Division

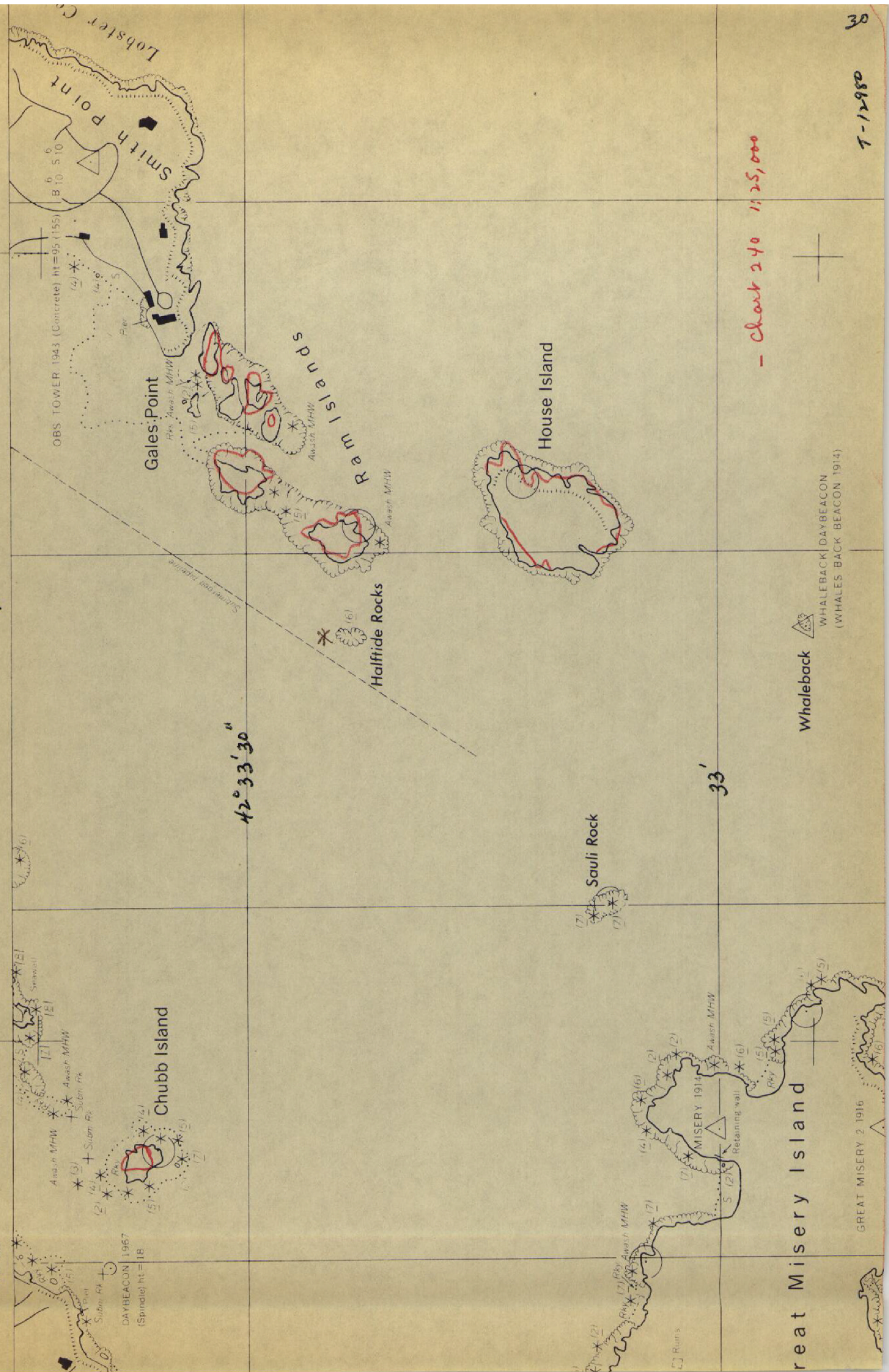
48° 00"

x = 790,000 FT.

47° 30"

70° 47' 00"

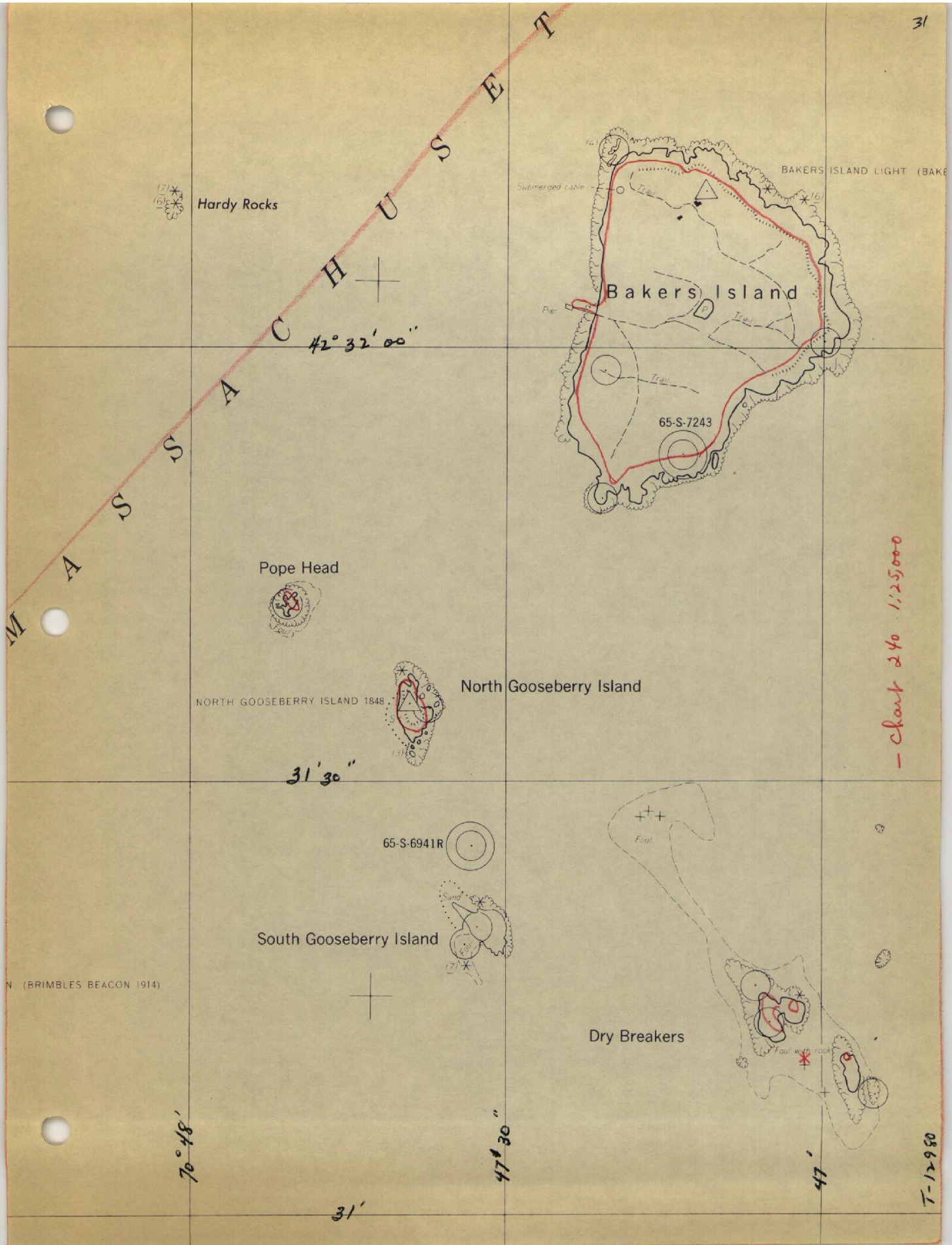
x = 795,000 FT. 46° 30"

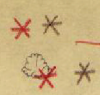


- Chart 240 1:25,000

T-12880

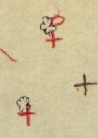
30





Inner Breakers

Not apparent on
photography



Middle Breakers



Halfway Rock

- Chart 240 1:25,000 scale
- Quad Marblehead Mass 1:24,000

T-12980