

ORIGINAL

T-12968

T-12968

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-12968  
Classification No. .... Edition No. 1  
Field Edited

### LOCALITY

State Massachusetts  
General Locality Boston to Plum Island  
Locality Ipswich Bay

1965 TO 1969

### REGISTRY IN ARCHIVES

DATE .....

## DESCRIPTIVE REPORT - DATA RECORD

T-12968

PROJECT NO. (II):

PH-6601

FIELD OFFICE (III):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (II) (III):

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

METHOD OF COMPILATION (III):

Wild B-8 Plotter and graphic

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:7500 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):

High water  
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 ~~at mean low water~~

REFERENCE STATION (III):

Annisquam Harbor Lighthouse 1834

LAT.:

42°39' 42.441"

LONG.:

70°40' 55.277"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

= 606,618.13 Ft.

x = 820,026.03 Ft.

Massachusetts

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-12968

FIELD INSPECTION BY (III):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  		
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 1/18/68
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):  L.O. Neterer		DATE 11/22/67
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): C.H. Bishop		DATE 1/22/68
REMARKS:  		

## DESCRIPTIVE REPORT - DATA RECORD

T-12968

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "S"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65S(C)-7281 thru 7284	Aug. 31, 65	0821 EST	1:15,000	0.6 ft. below MLW
65S-7120R thru 7123R	Aug. 24, 65	0943 EST	1:15,000	8.5 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:  
Feb., 1974

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

0

IDENTIFIED:

0

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

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

## REMARKS:

\*The stage of tide at the time of photography was determined from readings on a staff at Merrimack River Entrance. See Instructions, OFFICE, Dated April 28, 1966.

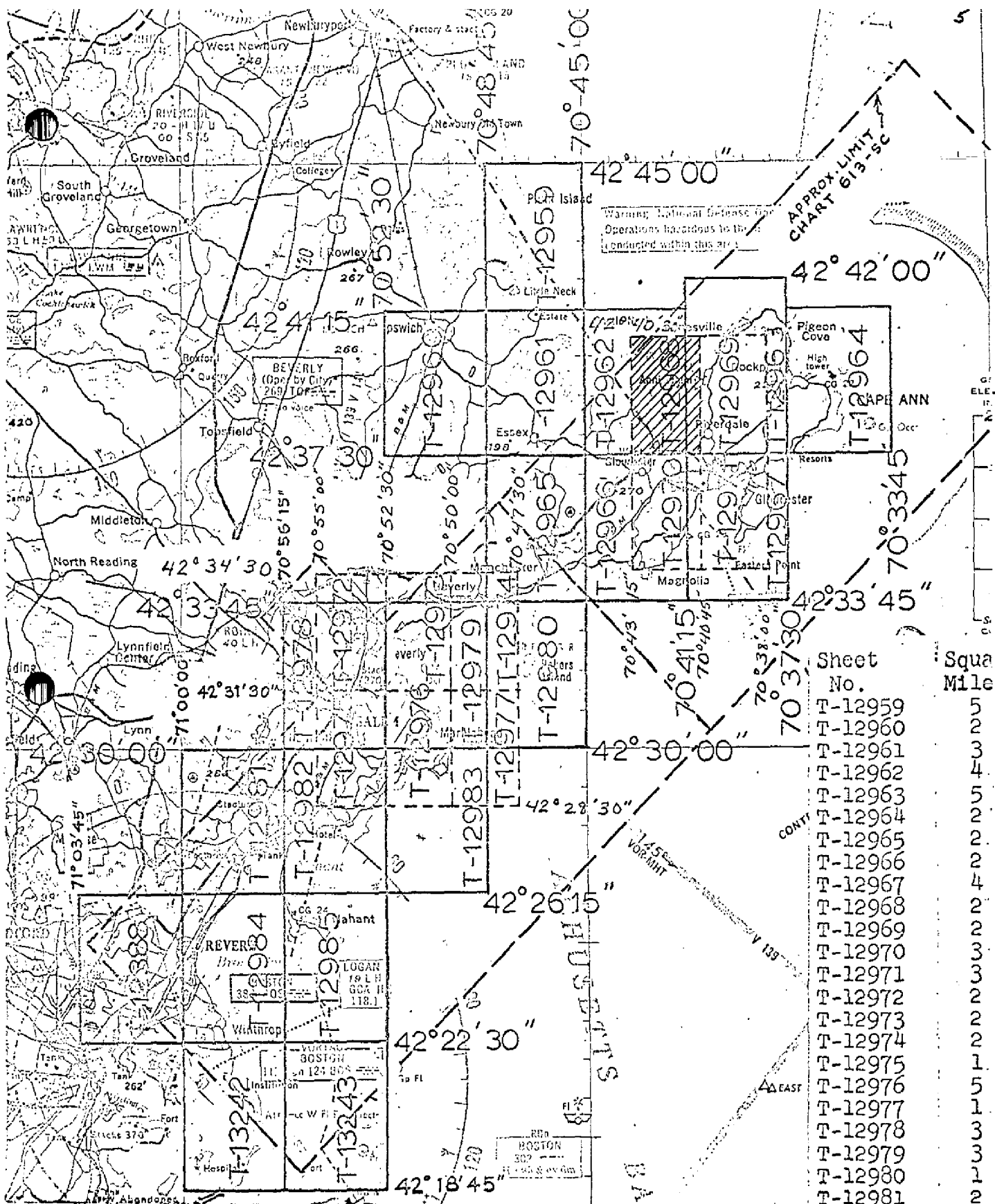
T-12968

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	11/22/67	
Roady double lined	Nov., 68	Superseded
Field edit applied compilation complete	July, 1969	Superseded
Final Review	Feb., 1974	



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

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-12383	3
T-13242	3
T-13243	2

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-12968

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.

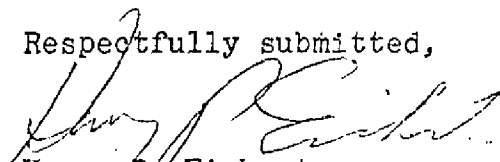
24. Supplemental Data

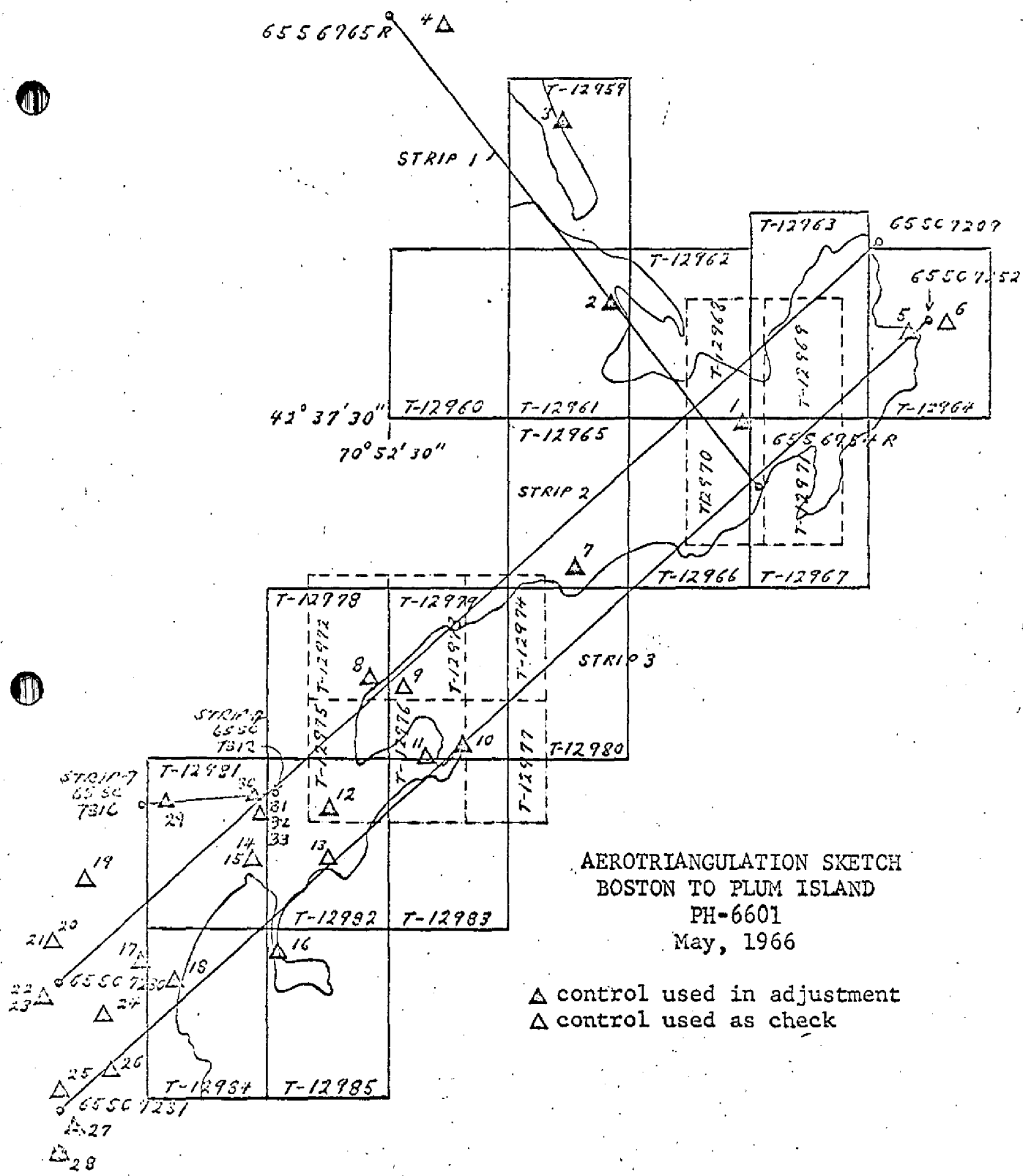
Vertical control points needed <sup>as</sup> ~~and~~ control for strip adjustments were taken from USGS quads.

25. Photography

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

Respectfully submitted,

  
Henry P. Eichert



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

△ control used in adjustment  
△ control used as check

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)

12  
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  $(-3.1, -5.2)$

15

STRIP # 9

29 DANVERS, COOKE & KRAUSE  
~~COKE~~ 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-12968 PROJECT NO. PH-6601 SCALE OF MAP: 5,000 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 LINE IN METERS (1 Ft. = 3048006 meter)	
				FORWARD	(BACK)
PERCH(LOBSTER ROCK BEACON) 1928	Vol. 1 P. 884	NA 1927	42 39' 29.731" 70 41' 01.521"	917.4 34.6	(934.0) (1331.9)
STONE(GLOUCESTER LANE POINT BEACON), 1928	Vol. 1 P. 884	NA 1927	42 39' 05.30" 70 40' 45.12"	163.5 1027.7	(1687.9) (339.0)
ANNISQUAM HARBOR LIGHT HOUSE, 1902	GP P. 279	NA 1927	42 39' 42.441" 70 40' 55.277"	1309.6 1258.9	(541.8) (107.6)
ANNISQUAM HARBOR LIGHT HOUSE, 1902	PC P. 88	NA 1927	606 618.13 820 026.03		
COMPUTED BY L.L.G.	DATE 10/12/66	CHECKED BY A.L.S. J.S.P.	DATE 10/17/66		



## COMPILATION REPORT

T-12968

Job PH-6601

Boston to Plum Island

31. DELINEATION

This map was delineated with the Wild B-8 Plotter and by graphic methods. Pass points were dropped for additional shoreline control. Rocks, the low water line, shallow, foul, and ledge lines were delineated with the B-8; the mean high water was compiled graphically.

32. CONTROL

See Photogrammetric Plot Report dated November 1, 1966. --

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are not applicable.

Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line was delineated by office interpretation of the infrared photography taken at mean high water. The approximate mean low water line, shallow lines, foul lines and rocks were delineated by office interpretation of color photos taken at mean low water.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies at Forms 567 have been forwarded to the Rockville office, Oct. 8, 1969.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

A satisfactory junction has been made with T-12962 (scale 1:10,000) to the north and west, T-12963 (scale 1:10,000) to the north and east, T-12969 (scale 1:5,000) to the east and T-12966 (scale 1:10,000), T-12967 (scale 1:10,000) and T-12970 (scale 1:5,000) to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle GLOUCESTER, MA, scale 1:24,000, dated 1960.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Nautical Chart 243, scale 1:20,000, Eighth/edition, dated Sept. 14, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARDED

None.

Submitted by:

*Lowell O. Neterer Jr.*

Lowell O. Neterer, Jr.  
Cartographic Technician  
11/22/67

Approved:

*Albert C. Rauck, Jr.*

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

Sept. 24, 1973

GEOGRAPHIC NAMES

FINAL NAME SHEETS

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

T-12968

Annisquam  
Annisquam River  
Babson Point  
Bald Rocks  
Barn Rocks  
Coles Island  
Essex Bay  
Farm Creek  
Farm Point  
Ipswich Bay  
Jones River  
Oak Island  
Pearce Island  
Ram Island  
Riverview  
Riverview Landing  
Rust Island  
Sleepy Hollow Lake  
Thurston Point  
Wheeler Point  
Wigwam Point  
Wingaersheek Beach

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".

Infra-red photography was used for the mean high water line. In many places, especially along marsh and ledge areas, there was doubt in the compiler's mind as to just where the water line was. In other words, it is suspected that there was some penetration, even with the infra-red photography. Marsh areas along the west side of the Annisquam River between Lat.  $42^{\circ} 37' 30''$  and Lat.  $42^{\circ} 39' 00''$  and the marsh areas around Coles Island fall in this category. Please check the compiled shoreline closely and make changes, if necessary.

PHOTOGRAMMETRIC OFFICE REVIEW  
T-12968

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		22. PLANETABLE CONTOURS
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES X X		32. PUBLIC LAND LINES X X	
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 <i>Charles H. Bishop</i> C.H. Bishop		Date: 1/22/68 SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck Jr.</i> 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.			
COMPILED C.H. Bishop 7/17/69 <i>C.H.B.</i>		SUPERVISOR <i>Albert C. Rauck Jr.</i> A.C. Rauck	
Reviewer A.L. Shands			
43. REMARKS  Field Edit Applied From Field edit ozalid of T-12962 and T-12968 Matte ratio prints 65-S-7297, 65-S-7299 and 65-S-7281			

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 shown in many places where 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:  
*Erwest W. Hartford*  
 Erwest W. Hartford  
 Surveying Technician  
 July 10, 1969

## ~~NONFLOATING AIDS OR LANDMARKS FOR CHARTS~~

TO BE CHARTED  
TO BE REVISED  
TO BE DELETED

Atlantic Marine Center  
July 23, 1969

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

The positions given have been checked after listing by

A. L. Schrank

*Allen I. Powell*  
Director, AMC      Chief of Party

Allen L. Powell, 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, 7-13 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. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

T-12968

## NONFLOATING AIDS

TO BE CHARTED  
~~TO BE CHARTED~~ } STRIKE OUT TWOAtlantic Marine Center  
Norfolk, Virginia

July 23, 1969

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

The positions given have been checked after listing by A.L. Shands

A.L. Shands

Alfred C. Holmes

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
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE*		LONGITUDE*				DATUM									
			° ' "	D.M. METERS	° ' "	D.P. METERS												
	IPSWICH BAY												Verified					
LIGHT	Annisquam Harbor Light (Annisquam Harbor Lighthouse 1902)		42 39	42.441	70 40	55.277	NA	1258.9	1927	Triang.	6/23/69	X				233 - 243		
DAYBEACON	Annisquam River Channel Day-beacon 7 (Lobster Rock Beacon 1928)		42 39	29.731	70 41	01.521	NA	34.6	1927	Triang.	"	X				"		
	ANNISQUAM RIVER																	
DAYBEACON	Lobster Cove Daybeacon (Gloucester Lane Point Beacon 1928)		42 39	05.30	70 40	45.12	"	1027.7	"	Triang.	"	X				233 - 243		
DAYBEACON	Barn Rocks Daybeacon		42 39	16.72	70 41	10.45	"	238	"	Photo	"	X				"		
LIGHT	Annisquam River Channel Light 30		42 37	45.95	70 41	33.09	"	754	"	"	6/2/69	X				"		
LIGHT	Annisquam River Channel Light 25		42 38	7.32	70 41	8.43	"	192	"	"	6/23/69	X				"		
LIGHT	Annisquam River Channel Light 19		42 38	21.10	70 41	5.71	"	130	"	"	6/23/69	X				"		

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-12968

## SHORELINE

FEB., 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 inspection 1953 and 1953 photography. There is no registry number or further date on the manuscript. The shoreline is in fair agreement except for those areas subject to interpretation such as the extent of grass in water and marsh shoreline and flat sandy beach.

This survey supersedes all 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, MA at 1:24,000 dated 1960. There is general agreement of the two surveys.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with verified Boat Sheet H-8942, 1:5,000 scale dated 1967. There is very good agreement of both surveys.

65. COMPARISON WITH NAUTICAL CHARTS:

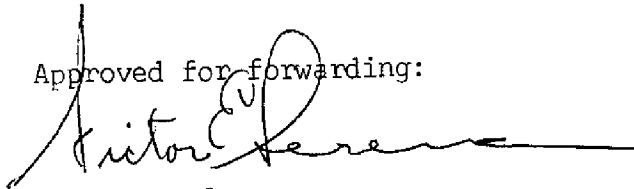
Comparison was made with chart 233, Jan. 6, 1973 at 1:10,000 scale there are very few significant changes. These are shown in red on the discrepancy sheet.

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*  
Bernard Kurs, Cartographer

Approved for forwarding:

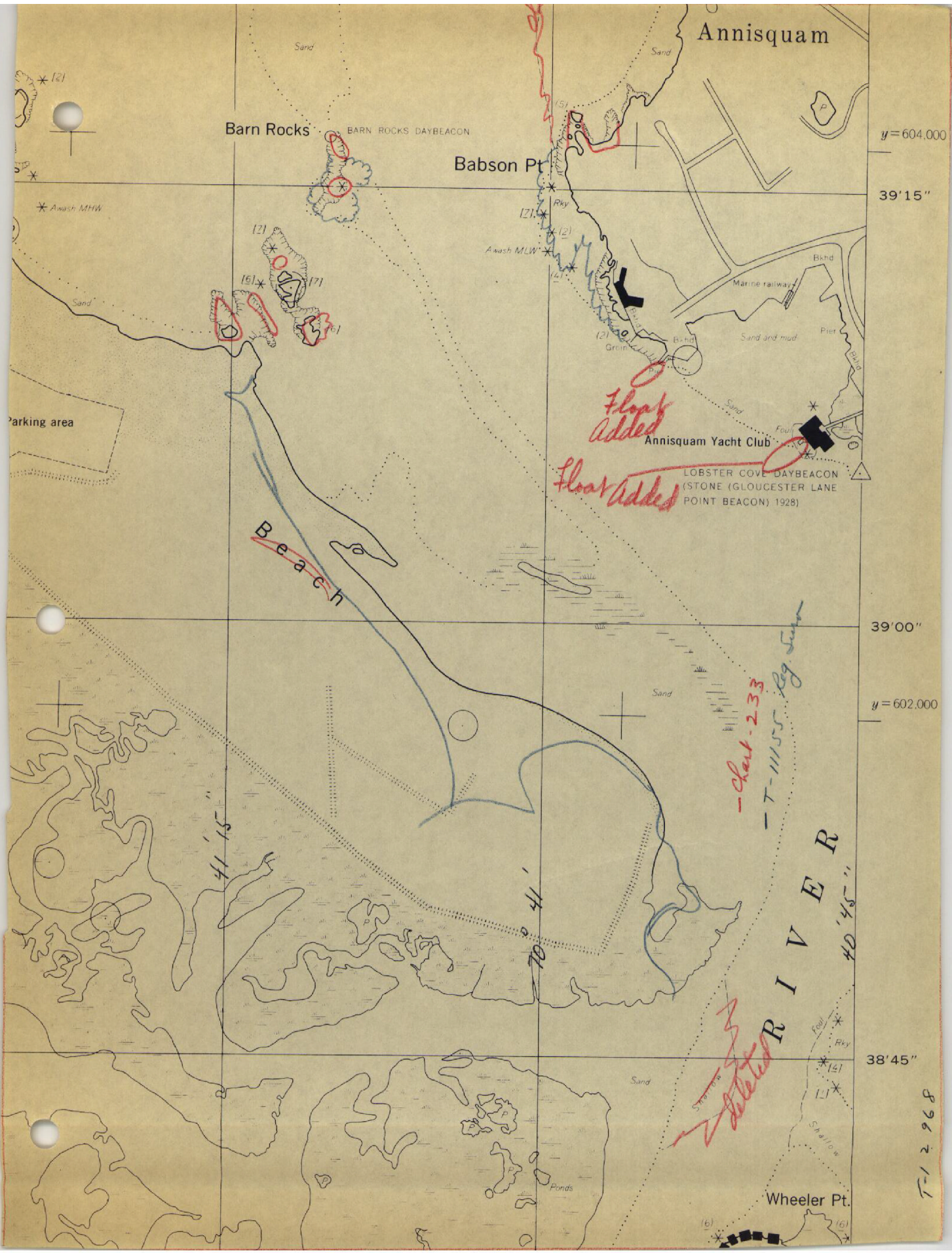


Victor E. Serena  
Chief, Photogrammetric Branch, AMC

Approved:

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





Annisquam

Barn Rocks BARN ROCKS DAYBEACON

Babson Pt.

y=604,000

39'15"

Annisquam Yacht Club

LOBSTER COVE DAYBEACON  
(STONE (GLOUCESTER LANE  
POINT BEACON) 1928)

39'00"

y=602,000

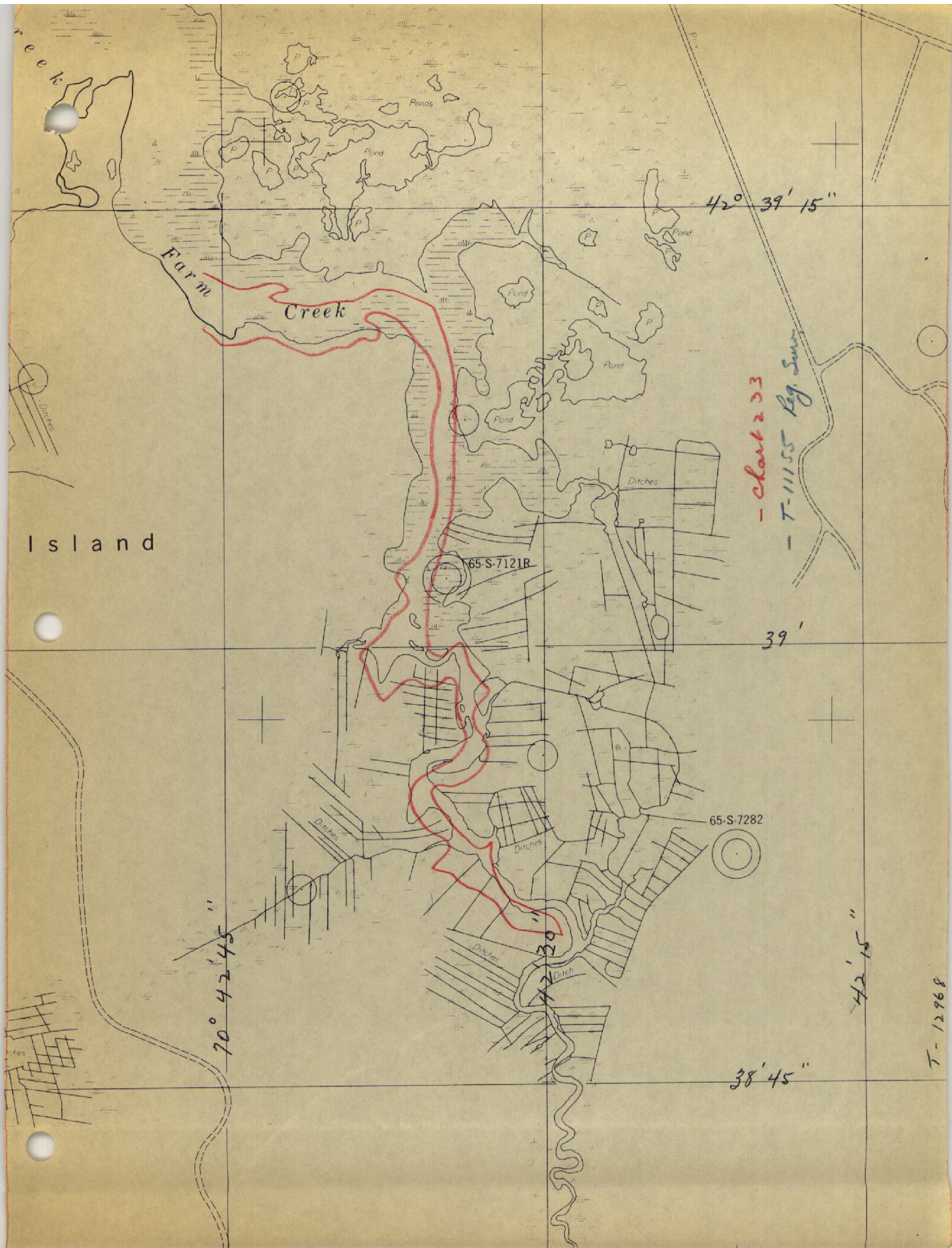
RIVER

38'45"

Wheeler Pt.

T-12968





- chart 233

- T-11155 Reg. Surv.

T-12968