

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

Map No.

TP-00770

Edition No.

1

Job No.

CM-7407

Map Classification

FINAL, FIELD EDITED MAP

Type of Survey

SHORELINE

LOCALITY

State

MASSACHUSETTS

General Locality

BUZZARDS BAY

Locality

WEST FALMOUTH HARBOR

1974 TO 1977

REGISTERED IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00770</u> MAP EDITION NO. (1) MAP CLASS FINAL JOB RM <u>CM-7407</u>
----------------------------	---	---	---

DESCRIPTIVE REPORT - DATA RECORD

PHOTOGRAMMETRIC OFFICE
 Coastal Mapping Unit, Norfolk, VA
 Atlantic Marine Center

OFFICER-IN-CHARGE

 Jeffrey G. Carlen, CDR

LAST PRECEDING MAP EDITION	
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH- _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED	
1. OFFICE	2. FIELD
Aerotriangulation March 20, 1975 Compilation April 17, 1975 Memo November 12, 1975 Amendment PH-6311 November 14, 1975 Supplement I December 04, 1975 Supplement II July 19, 1976	Horizontal Control January 30, 1974 (Premarking) Amendment I March 08, 1974 -

II. DATUMS	
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN	OTHER (Specify)
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL	OTHER (Specify)
3. MAP PROJECTION Lambert Conformal	4. GRID(S) STATE ZONE Massachusetts Mainland
5. SCALE 1:10,000	STATE ZONE

III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY	M. McGinley	April 1975
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Calcomp</u> CHECKED BY	R. Robertson R. Robertson	April 1975 April 1975
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:10,000</u> CHECKED BY	C. Blood A. Rauck, Jr. N.A. N.A.	March 1976 March 1976
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Smooth drafted</u> CONTOURS BY CHECKED BY SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY	C. Blood Frank Margiotta N.A. N.A. C. Blood Frank Margiotta	May 1976 May 1976 April 1976 May 1976
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	Frank Margiotta	May 1976
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY	I. Perkinson F. Margiotta	July 1978 Nov. 1979
7. COMPILATION SECTION REVIEW BY	F. Margiotta	Nov. 1979
8. FINAL REVIEW BY	J. Hancock	Oct. 1984
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	Feb. 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J. Sched	March 1985
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R. Kohnspan	April 1985

TP-00770
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) E=152.71mm, C=88.47mm, Z=153.14mm Wild RC-8 "E", RC-10"C", RC-10"Z"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern <input checked="" type="checkbox"/> STANDARD MERIDIAN 75th <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74 C(C) 9482 - 9484 ✓	Apr. 18, 1974 ✓	10:33	1:60,000 ✓	0.2 ft. above MLW***	
74 E(C) 4806 - 4809 ✓	Apr. 20, 1974 ✓	10:52	1:30,000	0.3 ft. below MLW*	
74 Z(I) 9506 - 9509 ✓	Apr. 20, 1974 ✓	10:52	1:30,000	0.3 ft. below MLW**	

REMARKS *Compilation/bridging photographs. **Tide coordinated photography at MLW.
***Bridging photographs.

2. SOURCE OF MEAN HIGH-WATER LINE:

*The mean high water line was compiled from the above listed compilation photographs by stereo instrument methods.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

**The mean low water line was compiled graphically from the tide coordinated MLW infrared photography.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00766	No survey	TP-00772	No survey

REMARKS

TP-00770

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION (P remarking) FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	April 1974
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	R. Tibbetts	April 1974
	R. Tibbetts	April 1974
	L. Davis	April 1974
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None	
	None	
	None	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (<i>Triangulation Stations</i>) BY LOCATED (<i>Field Methods</i>) BY IDENTIFIED BY	R. Tibbetts	April 1974
	None	
	L. Davis	April 1974
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Paneled	2. VERTICAL CONTROL IDENTIFIED None		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
74 C(C)9482	NYES NECK WATER TOWER, 1910 (Sub. Pt. paneled)		
74 E(C)4726	WAQUOIT CONGREGATIONAL CHURCH SPIRE, 1934 (Sub. Pt. paneled). (Station is beyond project limits and falls east of this map)		

3. PHOTO NUMBERS (*Clarification of details*)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
74 C(C)9482	LOOKOUT TOWER		

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (*Sketch books, etc. DO NOT list data submitted to the Geodesy Division*)

1 Form 76-53, 1 Form 152, 2 Forms 266, 2 Forms 269C, 1 Form 76-77 (Tide Record Book)

TP-00770
HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	Sept. 1977
2. HORIZONTAL CONTROL	RECOVERED BY	R. Ledbetter
	ESTABLISHED BY	None
	PRE-MARKED OR IDENTIFIED BY	None
3. VERTICAL CONTROL	RECOVERED BY	None
	ESTABLISHED BY	None
	PRE-MARKED OR IDENTIFIED BY	None
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (<i>Triangulation Stations</i>) BY	R. Ledbetter
	LOCATED (<i>Field Methods</i>) BY	R. Ledbetter
	IDENTIFIED BY	H. Hart
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	H. Hart
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None

2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)
74 E(C) 4806 - 4809 (Black/White Ratio Prints)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (*Sketch books, etc. DO NOT list data submitted to the Geodesy Division*)
2 Forms 76-40, Field Edit Report, Field Edit Paper Print, Sketch for 3 pt. fix for piling, 1 Form 157, 1 Form 76-70.

TP-00770
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	May 1976	Class III manuscript SUPERSEDED	July 1976	June 1976
Field edit applied, compilation complete	November 1979	Class I manuscript SUPERSEDED	January 1980	January 1980
Final Review	October 1984	Final Map	March 1985	March 1985

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

PAGES NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		May 22, 1980	Landmarks for charting
1		May 22, 1980	Aids for charting
1		March 1985	Landmarks
1		March 1985	Aids

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS ~~387~~ ⁷⁶⁻⁴⁰ SUBMITTED BY FIELD PARTIES.
3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

Official Mileage for Cost Accounts

Sheet No.
 TP-00695
 TP-00761
 TP-00762
 TP-00763
 Berrie TP-00764
 TP-00765
 TP-00766
 DASH ST. TP-00767
 TP-00768
 TP-00769
 TP-00770
 TP-00771
 TP-00772
 TP-00773
 TP-00774
 TP-00775
 TP-00776

Sq. Miles
 2
 1
 1
 3
 6
 9
 3
 5
 5
 4
 5
 2
 5
 5
 4
 1

TOTAL 63



6

SOUND

Revised 5-27-75 7-13-76 RW

JOB CM-7407
 BUZZARDS BAY AND ELIZABETH ISLANDS
 MASSACHUSETTS
 SHORELINE MAPPING
 Scale 1:5000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00770

This 1:10,000 scale final shoreline map is one of seventeen maps that comprise project CM-7407, Buzzards Bay, Massachusetts. The project consists of sixteen 1:10,000 scale maps (TP-00761 thru TP-00776) and one 1:5,000 scale inset map (TP-00695).

The purpose of this map was to furnish support for hydrographic activity scheduled in the spring of 1976 and to provide current shoreline data for nautical charts.

This map portrays a portion of the eastern shoreline of Buzzards Bay, extending north from the Great Sippewisset Marsh to Megansett Harbor.

Photo coverage for the project was adequately provided in 1974 with 1:60,000 scale, 1:30,000 scale and 1:15,000 scale color photographs. The 1:60,000 scale photographs were taken with the RC-10 "C" camera for aerotriangulation. The 1:30,000 scale photographs were taken with the RC-8 "E" camera for aerotriangulation and compilation. The 1:15,000 scale photographs were taken with the RC-10 "Z" camera and were used to bridge and compile inset map TP-00695. Supplemental tide coordinated infrared photographs at 1:30,000 scale were taken on black-and-white film at mean low water with the RC-10 "Z" camera. Photo coverage used to produce this map included the 1:30,000 scale compilation photos and the 1:30,000 MLW infrared photos, both taken April 1974.

Field work prior to compilation consisted of the recovery, establishment and identification, by premarking methods, of horizontal control necessary for aerotriangulation. Also, the field party was responsible for assisting in obtaining the tide coordinated aerial photography. This activity was performed April 1974.

Analytic aerotriangulation was adequately provided by the Washington Science Center April 1975. This activity also included ruling the base manuscripts and providing ratio photographs for compilation.

Compilation by office interpretation of the 1:30,000 scale color photographs was performed at the Coastal Mapping Section, Atlantic Marine Center in May 1976. The MLW tide coordinated infrared photographs were ratioed to map scale and were used to graphically delineate the MLW line. Copies of the Class III manuscript and applicable source data were forwarded to the field for edit.

A Class III map print was forwarded to the hydrographer in support of contemporary hydrographic operations. The hydro surveys common to this map, H-9661 and H-9712, were field accomplished but are unprocessed and currently are in an inactive status.

TP-00770

Field edit was conducted September 1977 by a photogrammetric field party. Application of this data was accomplished at the original compilation office November 1979 and the manuscript was advanced to Class I. Copies of the Class I manuscript were forwarded to the Hydrographic Surveys Branch and the Marine Charts Branch.

Final review was performed at the Atlantic Marine Center in October 1984. A final Chart Maintenance Print and a Hydrographic Print were prepared and forwarded to the Marine Charts Branch and the Hydrographic Surveys Branch.

The Descriptive Report for this final field edited map contains all pertinent information used to produce this map. The original base manuscript and related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00770

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification by premarking methods of the horizontal control necessary for the aerotriangulation of the project.

PHOTOGRAMMETRIC PLOT REPORT
JOB CM-7407
Buzzards Bay, Massachusetts
April 1975

21. Area Covered

This project covers the shoreline of Buzzards Bay and the Elizabeth Islands. Included are seventeen T-sheets. Sheets TP-00761 thru TP-00776 are 1:10,000 scale and TP-00695 is 1:5,000 scale.

All sheets have the Massachusetts State Grid (Mainland Zone) intersections plotted.

22. Method

Four strips of color photography were bridged on the Wild STK-1 in order to obtain compilation and pass-point positions and exact scale ratios to be used during compilation.

Strip 1 (1:60,000-scale) was adjusted on five field-identified triangulation stations with twenty-two additional triangulation stations and tie points as checks. Strip 2 (1:60,000-scale) was adjusted on three field-identified triangulation stations and one tie point with fourteen additional triangulation stations and tie points as checks. Strip 3 (1:30,000-scale) was adjusted on five field identified triangulation stations with sixteen additional triangulation stations and tie points as checks. Strip 4 (1:15,000-scale) was adjusted on four office identified triangulation stations with six additional triangulation stations and tie points as checks. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Calcomp.

1:10,000-scale ratios were ordered for the entire project. 1:5,000-scale ratios were also ordered for the area covered by T-sheet TP-00695.

The panel for Nobska Point Lighthouse 1904 could not be held in the adjustments. A distance was not recorded on the Control Station Identification form at the time of the field work, but was furnished by the Norfolk Office at a later date. It is believed an error in this distance is the cause for the point not holding in the strip adjustments.

The center panel of the target for Goosberry Neck 2 (USE) 1934 was not in place at the time of photography. Only the three legs were visible.

Neither one of the two field-identified substitute points for USE 6 1934 could be found on the 1:15,000-scale bridging photography (Strip 4).

All other horizontal control utilized in the adjustments held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging only was obtained from local USGS quadrangles.

25. Photography

Photography was adequate as to overlap and coverage.

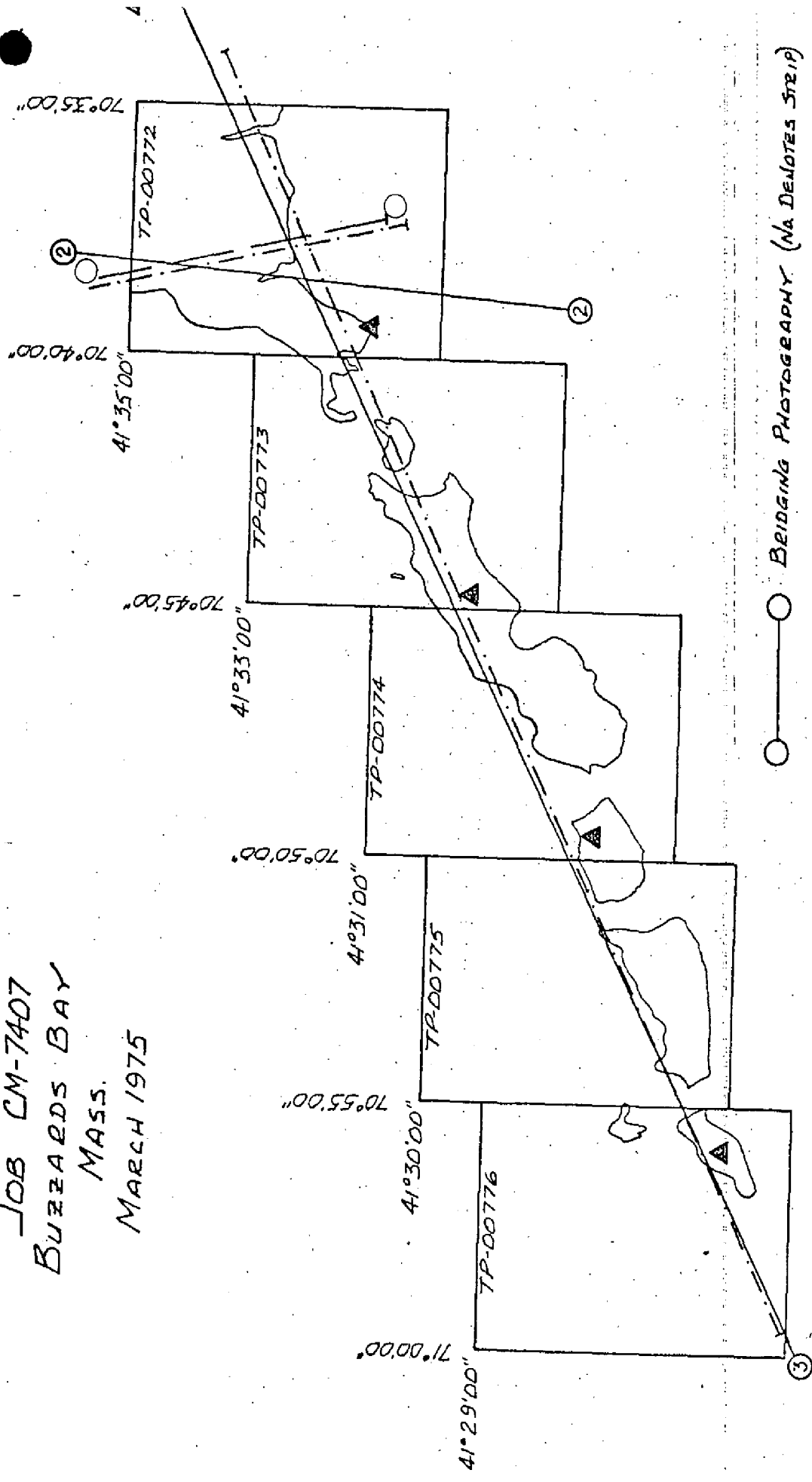
Submitted by:

Michael L. McGinley
Michael L. McGinley

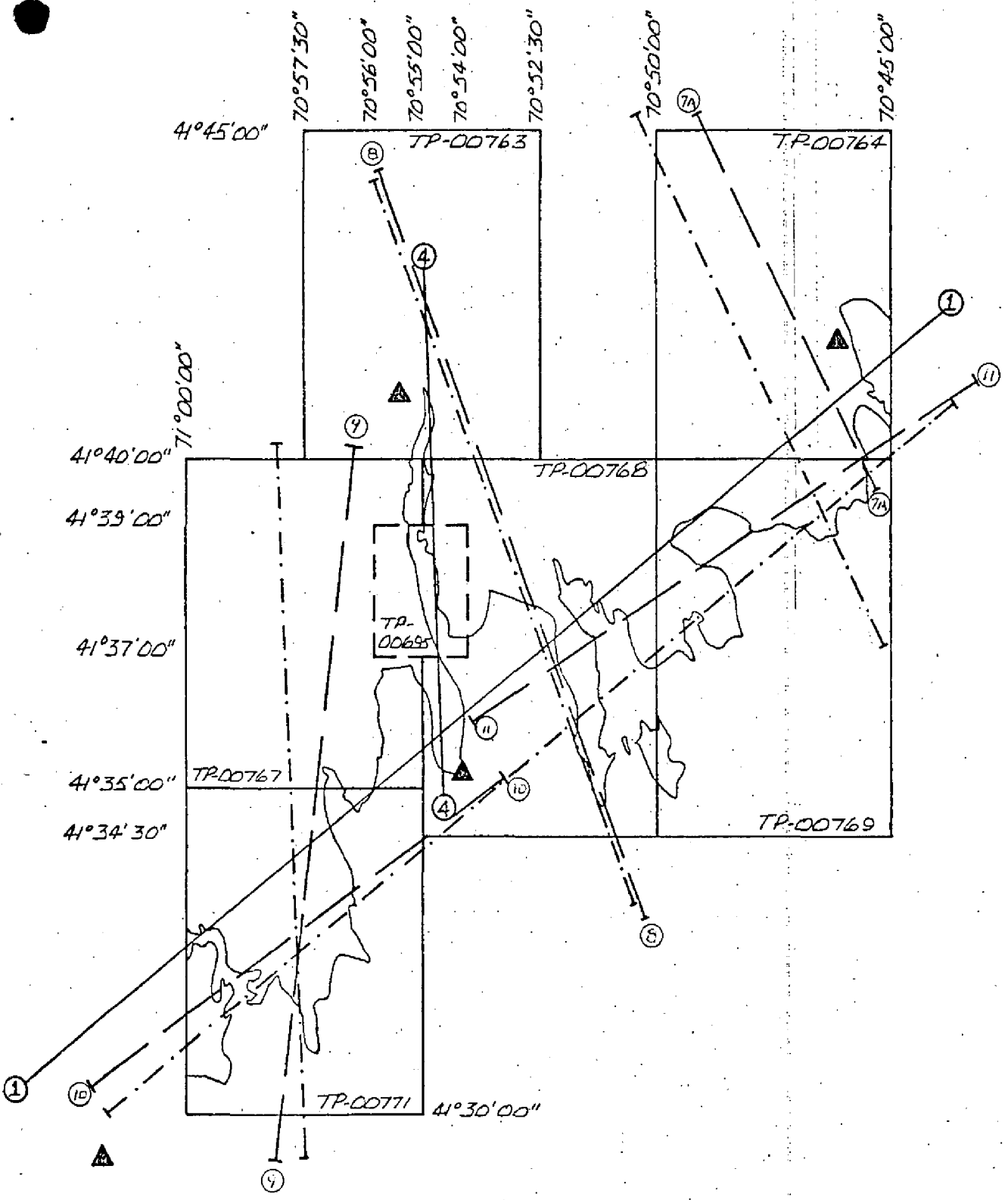
Approved by:

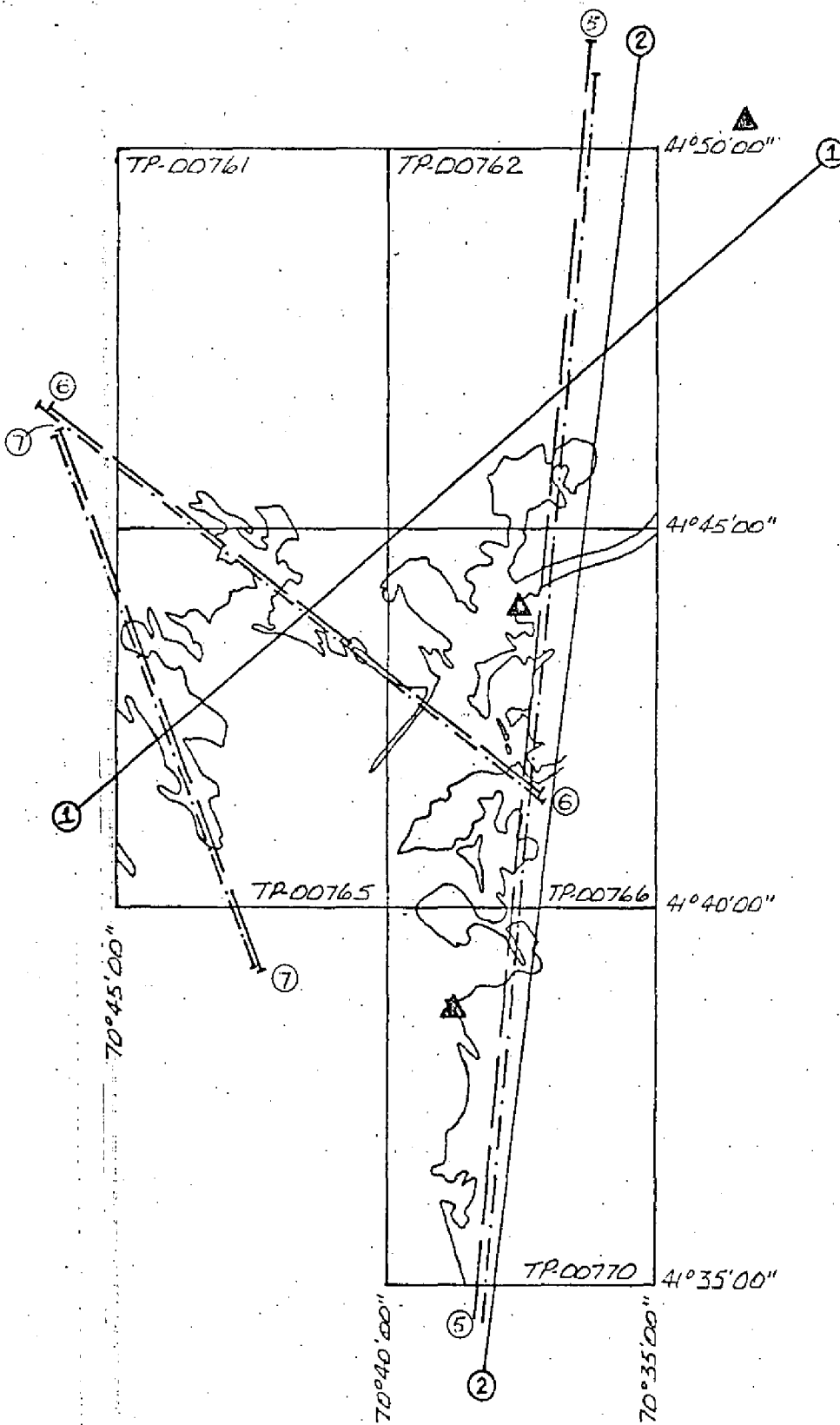
John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section

JOB CM-7407
 BUZZARDS BAY
 MASS.
 MARCH 1975



○ ○ BRIDGE PHOTOGRAPHY (NA DENOTES STRIP)
 ——— 1:30,000 COMPILATION PHOTOGRAPHY
 - · - · - 1:30,000 B/W SUPPORT PHOTOGRAPHY





DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	
			TP-00770	CM-7407	STATE	ZONE	φ LATITUDE	λ LONGITUDE
SOURCE OF INFORMATION (Index)		AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET		REMARKS		BACK	
			STATE	ZONE	φ	λ	FORWARD	BACK
	G.P. Vol. I Page 864		Massachusetts		φ 41° 39' 58.603"	λ 70° 39' 15.295"	1808.0	43.1
SCRAG, 1910	"		Mainland		φ 41° 38' 26.928"	λ 70° 39' 00.933"	353.8	1034.3
NYES NECK WATER TOWER, 1910	"				φ 41° 35' 56.471"	λ 70° 37' 47.448"	830.8	1020.3
FALMOUTH, TANK WITH BLACK KNOB, 1932	G.P. Vol. I Page 340				φ 41° 38' 26.928"	λ 70° 39' 00.933"	21.6	1367.1
NORTH FALMOUTH CONGREGATIONAL CHURCH, 1844	G.P. Vol. I Page 803				φ 41° 35' 56.471"	λ 70° 37' 47.448"	1742.2	108.9
WEST FALMOUTH WATER TOWER, 1904	G.P. Vol. I Page 843				φ 41° 38' 26.928"	λ 70° 39' 00.933"	1098.8	290.7
CHASS, 1910	G.P. Vol. I Page 863				φ 41° 35' 56.471"	λ 70° 37' 47.448"	1010.2	840.8
FALMOUTH, 1835	G.P. Vol. I Page 43				φ 41° 38' 26.928"	λ 70° 39' 00.933"	171.6	1216.0
					φ 41° 35' 56.471"	λ 70° 37' 47.448"	1728.6	122.5
					φ 41° 38' 26.928"	λ 70° 39' 00.933"	1102.3	287.2
					φ 41° 35' 56.471"	λ 70° 37' 47.448"	468.0	1383.0
					φ 41° 38' 26.928"	λ 70° 39' 00.933"	1319.8	69.6
					φ 41° 35' 56.471"	λ 70° 37' 47.448"	1620.9	230.1
					φ 41° 38' 26.928"	λ 70° 39' 00.933"	129.3	1260.2
					φ 41° 35' 56.471"	λ 70° 37' 47.448"		
					φ 41° 38' 26.928"	λ 70° 39' 00.933"		
					φ 41° 35' 56.471"	λ 70° 37' 47.448"		
					φ 41° 38' 26.928"	λ 70° 39' 00.933"		
					φ 41° 35' 56.471"	λ 70° 37' 47.448"		
COMPUTED BY	A. C. Rauck, Jr.	DATE	COMPUTATION CHECKED BY		Irene Perkinson		DATE	4/30/75
LISTED BY		DATE	LISTING CHECKED BY				DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT

TP-00770

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. The Wild B-8 plotter was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:30,000 scale bridging/compilation color photographs.

Mean low water tide coordinated infrared photographs at 1:30,000 scale were ratioed to map scale in order to graphically compile the low water features.

All photographs used to compile this map are listed on NOAA Form 76-36B. The photography was adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated April 1975.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The MHW line and alongshore detail were compiled from office interpretation of the 1:30,000 scale compilation photographs as described in item #31.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument and graphic methods as described in item #31.

37 - LANDMARKS AND AIDS

Work copies of forms 76-40 were prepared and forwarded to the field editor for verification, location and/or deletion.

38 - CONTROL FOR FUTURE SURVEYS

None.

TP-00770

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated April 1975.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangles: Woods Hole, MA, scale 1:24,000, dated 1967; Onset, MA, scale 1:24,000, dated 1967; and Pocasset, MA, scale 1:24,000, dated 1967.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey Charts: 13229, scale 1:40,000, 11th edition, dated January 18, 1975; 13230, scale 1:40,000, 26th edition, dated November 2, 1974; and 13236, scale 1:20,000, 18th edition, dated October 12, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Charles E. Blood
Charles E. Blood
Cartographic Technician
May 1976

Approved,

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

ADDENDUM TO THE COMPILATION REPORT

TP-00770

FIELD EDIT

Field edit was accomplished by coastal mapping photo party personnel in the summer of 1977.

A position for a new daybeacon in Megansett Harbor was submitted on the field 76-40 forms; no other field data was included. The plotting of this aid does not appear to support navigation at the entrance to Fiddlen Cove as its purpose is so stated in the field edit report. The position for this aid is very questionable and was referred to final review.

The prominent rock (Lat. $41^{\circ}39.6'$, Long. $70^{\circ}38.0'$) north of Halftide Rock in Megansett Harbor appears to bare at MHW although the field editor indicated it being awash.

The prominent rock east of Megansett Harbor, Breakwater, Lt. 6; just inside of the jetty, was not addressed during field edit. There is doubt as to the classification of this feature because it has the distinct characteristics of a mooring structure.

GEOGRAPHIC NAMES

FINAL NAME SHEET

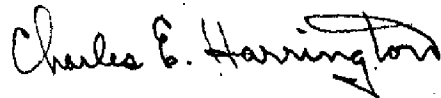
CM-7407 (Buzzards Bay and Elizabeth Islands, Massachusetts)

TP-00770

Amrita Island
 Bay Colony (RR)
 Beach Pond
 Black Beach
 Buzzards Bay
 Cataumet
 Cedar Lake
 Chappaquoit Beach
 Chappaquoit Point
 Crow Point
 Eustis Beach
 Falmouth Cliffs
 Fiddlers Cove
 Flax Pond
 Fresh Pond
 Great Sippewisset Creek
 Great Sippewisset Marsh
 Great Sippewisset Rock
 Halftide Rock
 Harbor Head
 Herring Brooke

Hospital Cove
 Little Island
 Megansett
 Megansett Harbor
 Merriam Beach
 Nyes Neck
 Old Silver Beach (locality)
 Oyster Pond
 Rands Harbor
 Scraggy Neck
 Seal Rocks
 Silver Beach (locality)
 Silver Beach Harbor
 Snug Harbor
 Southwest Beach
 Squeteague Harbor
 Sunrise Beach
 West Falmouth
 West Falmouth Harbor
 Wild Harbor
 Wild Harbor River

Approved by:



Charles E. Harrington
 Chief Geographer
 Nautical Charting Division

Field Edit Report
Job CM-7407
Buzzard's Bay, Massachusetts
TP-00770 West Falmouth Harbor

This sheet was field edited during the 1977 summer season.

52. ADEQUACY OF COMPILATION - Compilation was generally good and will be adequate after the field edit corrections are compiled.

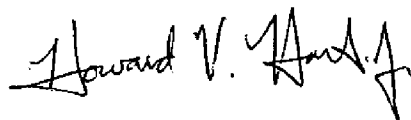
54. RECOMMENDATIONS - None.

56. SHORELINE AND ALONGSHORE FEATURES - The shoreline and MHWL are compiled well except for Amrita Island in Squeteague Harbor. The corrected shoreline was compiled on the field edit ozalid as are all other discrepancies. Rock height data has been indicated on photographs 74E 4806, 74E 4807, 74E 4808, 74E 4809.

57. OFFSHORE FEATURES - Catamet rock was not found and should be located by the Hydrographers. A red nun buoy is adjacent to the charted position of the rock.

58. LANDMARKS AND AIDS - There were two fixed aids to navigation (private) located on this sheet. A daybeacon off Black Beach was located by intersection. It marks a dangerous submerged rock. A daybeacon at the entrance to Fiddler's Creek was located with a three point fix. All landmarks were inspected from seaward. The Nye's Neck Water Tower 1910 has been rebuilt into a private lookout tower. The Falmouth Fire Tower is a good landmark as are the two tanks on Telegraph Hill in West Falmouth. Forms 76-40 are submitted.

n 59. GENERAL STATEMENT - All field edit notes have been made in violet ink on both the Field Edit Ozalid and the photographs. Note the deletion on photo 74E 4808, at the entrance to Rand's Harbor. This was a field error and was duly corrected.



Howard V. Hart Jr.
Surveying Technician

REVIEW REPORT TP-00770
SHORELINE

61. GENERAL STATEMENT

Final review for this final field edited map was accomplished at the Atlantic Marine Center in October 1984. For a schedule of the office and field operations, refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

No survey is applicable to this map.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following 1:24,000 scale U.S. Geological Survey quadrangles: Woods Hole, MA, dated, 1967; Onset, MA, dated 1967; and Pocasset, MA, dated 1967.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Contemporary hydrographic activity common to this map was assigned as hydro surveys H-9661 and H-9712. These surveys were physically accomplished; however, the field data is currently unprocessed and the completion date is unscheduled.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS nautical charts: 13236, 22nd edition, dated March 10, 1984, 1:20,000 scale; 13229, 20th edition, dated March 24, 1984, 1:40,000 scale; and 13230, 34th edition, dated March 10, 1984, 1:40,000 scale.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by,

Jerry L. Hancock

Jerry L. Hancock
Final Reviewer

Approved for forwarding,

Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Branch, AMC

Approved,

Gregory L. Turner

Chief, Photogrammetric Section, Rockville

Ronald K. Brewer

Chief, Photogrammetry Branch,
Rockville

NOAA FORM 76-40
(3-74)

Replaces CAGS Form 567.

- TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

REPORTING UNIT
(Field Party, Ship or Office)
Coastal Mapping Div.
AMC Norfolk, VA

STATE
Massachusetts

LOCALITY
Buzzards, Bay
Elizabeth Islands

DATE
7/6/78

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

LANDMARKS FOR CHARTS

- ORIGINATING ACTIVITY
- HYDROGRAPHIC PARTY
 - GEODETIC PARTY
 - PHOTO FIELD PARTY
 - COMPILATION ACTIVITY
 - FINAL REVIEWER
 - QUALITY CONTROL & REVIEW CRP
 - COAST PILOT BRANCH
- (See reverse for responsible personnel)

The following objects HAVE NOT been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO. 503
 JOB NUMBER CM-7407
 SURVEY NUMBER TP-00770
 DATUM N.A. 1927

DESCRIPTION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station name, where applicable, in parentheses)

CHARTING NAME
2 ✓
STANDPIPES
(West Falmouth Water Tower, 1904) ✓
Southernly one ht. = 35(204)

STANDPIPES
(Falmouth, Tank with Black Knob, 1932) ✓
Northerly one ht. = 40(209)

LOOKOUT TOWER
(Nyes Neck Water Tower, 1910) ✓

LOOKOUT TOWER
Stone Water Tower, ht. = 35(75) ✓
(Chass. 1910)

LOOKOUT TOWER
Falmouth Fire Tower, ht. = 80(220) ✓
(Falmouth, 1835)

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

OFFICE
Apr 20, 1974
74E(C)4806

FIELD
Triang. Rec.
July 20 1977

POSITION
LATITUDE
D.M. Meters
41 35
LONGITUDE
D.P. Meters
70 37

CHARTS AFFECTED
13236(251)
13230(249)
13229(114-5)

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	R. S. TIBBETTS
POSITIONS DETERMINED AND/OR VERIFIED	H. B. HART I. PERKINSON
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify) FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

REPORTING UNIT
(Field Party, Ship or Office)
Coastal Mapping Unit,
AMC, Norfolk, VA

STATE

Massachusetts

LOCALITY

Buzzards Bay
Elizabeth Island

DATE

3/6/78

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

NONFLOATING AIDS OR MARKERS FOR CHARTS

ORIGINATING ACTIVITY

HYDROGRAPHIC PARTY
 GEODETIC PARTY
 PHOTO FIELD PARTY
 COMPILATION ACTIVITY
 FINAL REVIEWER
 QUALITY CONTROL & REVIEW GRP.
 COAST PILOT BRANCH
(See reverse for responsible personnel)

The following objects HAVE HAVE NOT been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.

503

JOB NUMBER

CM-7407

SURVEY NUMBER

TP-00770

DATUM

N.A. 1927

POSITION

LATITUDE	LONGITUDE
° / ' / "	° / ' / "
D.M. Meters	D.P. Meters
41 39	70 37
28.2	36.7
870.0	849.1

DESCRIPTION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses)

Megansett Harbor Breakwater Light **
6

**This daymark was not verified or otherwise reported by the field editor. However, a phone call to Mr. Kelly of the First District U.S. Coast Guard verified its existence and submitted the above position March 6, 1978.

OFFICE

This position from USCG

FIELD

Not field edited

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

CHARTS
AFFECTED

13236
13230

DAYBEACON

Great Sippewissett Rock Daybeacon

LATITUDE	LONGITUDE
° / ' / "	° / ' / "
D.M. Meters	D.P. Meters
41 35	70 39
16.5	15.0
509.0	347.5

F-3-6-L
7-27-77

13230

TYPE OF ACTION		RESPONSIBLE PERSONNEL	
OBJECTS INSPECTED FROM SEAWARD		NAME	ORIGINATOR
		R. Tibbetts	<input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
		H. Hart	FIELD ACTIVITY REPRESENTATIVE
		I. Perkinson	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'			
(Consult Photogrammetric Instructions No. 64)			
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75		FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75		II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75	
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

