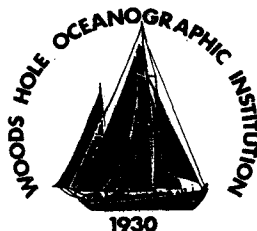


WHOI-85-27

Woods Hole Oceanographic Institution



Buzzards Bay Bibliography

A reference collection of scientific and technical reports
published on Buzzards Bay

Compiled by

Bruce W. Tripp

July 1985

Technical Report

*Preparation and printing of this report was funded
by a grant from the Andrew W. Mellon Foundation to the Coastal Research
Center and from the Woods Hole Oceanographic
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John W. Farrington, Director
Coastal Research Center



FORWARD

Coastal Research Center

Technical Report Series: Buzzards Bay

The Coastal Research Center of the Woods Hole Oceanographic Institution has initiated a series of WHOI/CRC Technical Reports in order to make information generated by CRC-associated researchers available as rapidly as possible to the coastal community.

Buzzards Bay is an important segment of the Massachusetts coast and has been studied by Woods Hole scientists and others for decades. However, only a few systematic studies have been completed. Increasing development pressure in this heavily used area has been followed by an increasing demand for more complete information on coastal environmental quality. In an effort to fill this information gap, and to foster understanding of fundamental processes operative in coastal areas in general, multi-disciplinary research is being pursued in Buzzards Bay. As the results of this become available, this information will be published in the CRC Technical Report Series.

INTRODUCTION

Coastal Research Center scientists have recognized a need for a compilation of scientific and technical information on Buzzards Bay, and authorized the effort that has resulted in this publication.

Buzzards Bay is an important segment of the Massachusetts coast that is heavily used for industrial, commercial and recreational activities. The full range of multiple use demands found elsewhere in the urbanized northeastern United States are found in and around Buzzards Bay, yet few systematic scientific studies have been done in this area. This bibliography represents a first step in an assessment of the available information so that future research can be planned more rationally, making the best use of finite resources.

The search for published information found herein included library collections, computer compilations, review articles, bibliographies and personal files. This search has been an identification process for the most part and many of the entries in this bibliography are derived from secondary sources. The original articles in some cases are quite rare and acquisition of copies of listed reports is a logical next step. An assessment of the data and conclusions contained in these reports has intentionally been left to a later date and will probably be undertaken by more than one agency or institution.

The main body of the bibliography is organized by senior author, listed alphabetically. Several appendices are included to make the information more useful. In Appendix I, all of the citations are reorganized according to thirteen subject headings. Several charts of station locations are collected in Appendix II. References cited in the main body of the bibliography refer directly to Buzzards Bay in some way. Other publications that are relevant to the Bay but do not contain direct reference to that water body are collected in Appendix III.

The completeness of each reference citation varies and it is inevitable that this bibliography contains errors and omissions. Due to the intense demand for this information, we have decided to make this compilation available at this stage in the hope that the value derived from its immediate use will outweigh its shortcomings. Comments on these shortcomings are welcome and should be addressed to the compiler.

Many people have assisted with the collection of references found here and several have generously made their personal reprint collections available. This assistance is gratefully acknowledged as this report could not have been produced without it. Typing and editorial assistance was competently and graciously provided by Peggy Chandler and her efforts are also acknowledged.

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APPENDIX I

References reorganized according to the following topic areas:

Benthos
Biogeochemistry
Circulation and Sediment Transport, Tides
Economic Resources
Fisheries
Glacial Geology
Intertidal, Beaches
Plankton
Pollution
Resource Management
Salt Marsh, Mudflats
Water Column, Chemistry and Biology
Watershed, Groundwater

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APPENDIX II

Charts of station locations identifying sampling sites of
various research efforts in Buzzards Bay

Figure Captions

- Fig. 1. Locus chart showing Buzzards Bay in relation to Massachusetts coast.
- Fig. 2. Buzzards Bay bathymetry, showing water depths along 5 meter contours.
- Fig. 3. Sediment textures in New Bedford Harbor area (after Summerhayes et al., 1985 and Moore, 1963).
- Fig. 4. Areas closed to fishing due to PCB contamination.
- Fig. 5. Station locations in New Bedford Harbor showing Summerhayes sediment sampling, preliminary EPA-RAMP sampling, WHOI Sea Grant sediment and biological sampling and NOAA benthic animal research.
- Fig. 6. Station locations for biological sampling and mussel cage deployments for Mussel Watch and Sea Grant research (WHOI).
- Fig. 7. Transects showing water sampling stations for study of Buzzards Bay hydrography (after Rosenfeld et al., 1984).
- Fig. 8. Locations of WHOI and USGS current meter stations.



Fig. 1.

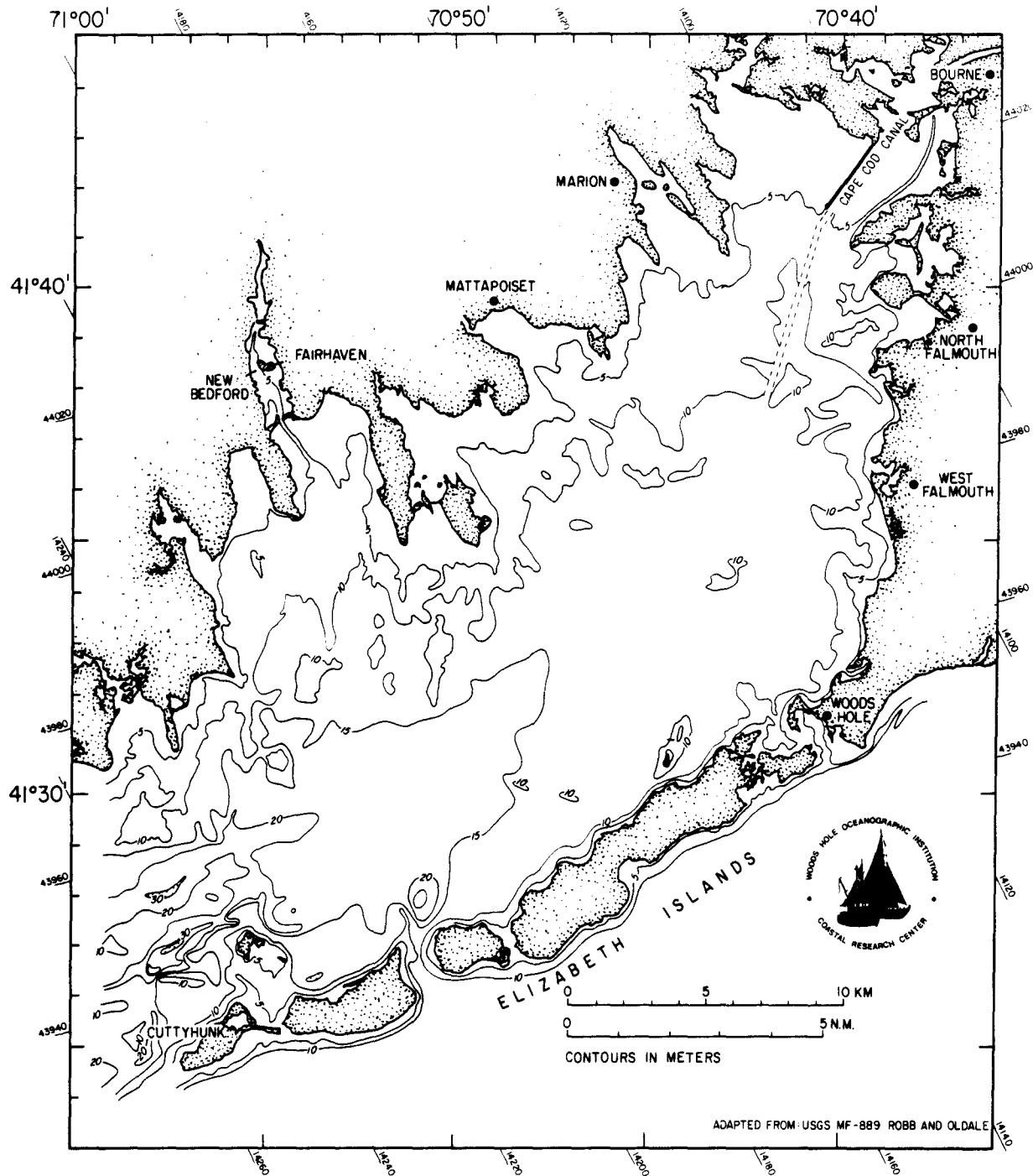


Fig. 2.

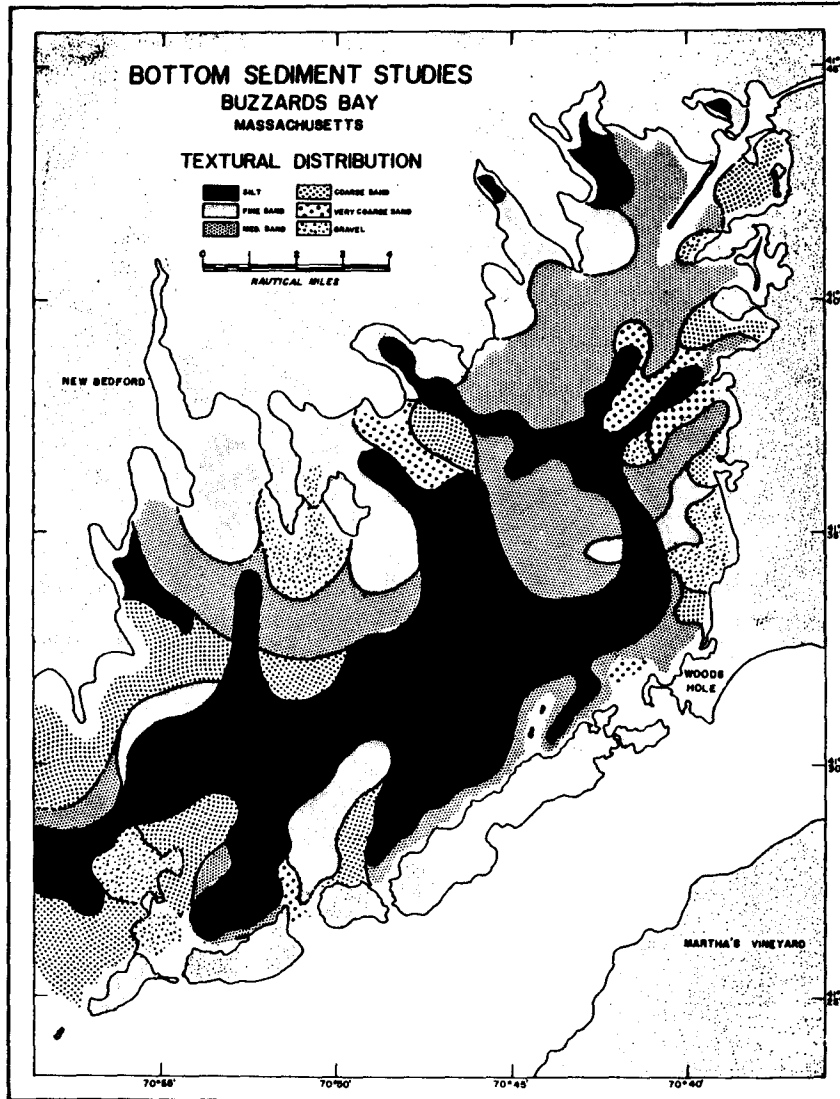


Fig. 3.

FIG. 5.—Textural distribution chart. For purposes of clarity, the mechanical analysis of sands and the petrographic study of silts have been combined into six size classes. Where the bulk of the sample is below .06 mm in diameter, the material has been classified as silt; where the material is above 4.0 mm, the deposit is termed gravel. The other sand classes are the same as those proposed by Wentworth (1922), except that the fine and very fine sands have been charted together.

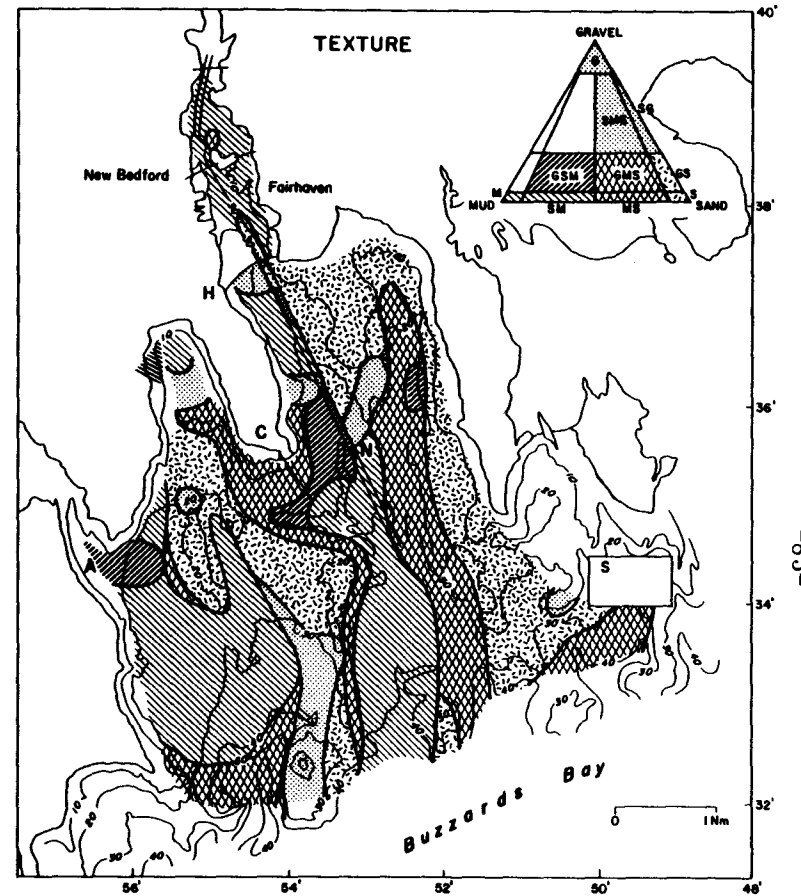


Fig. 10. Textural characteristics of bottom sediments (after Folk 1968).

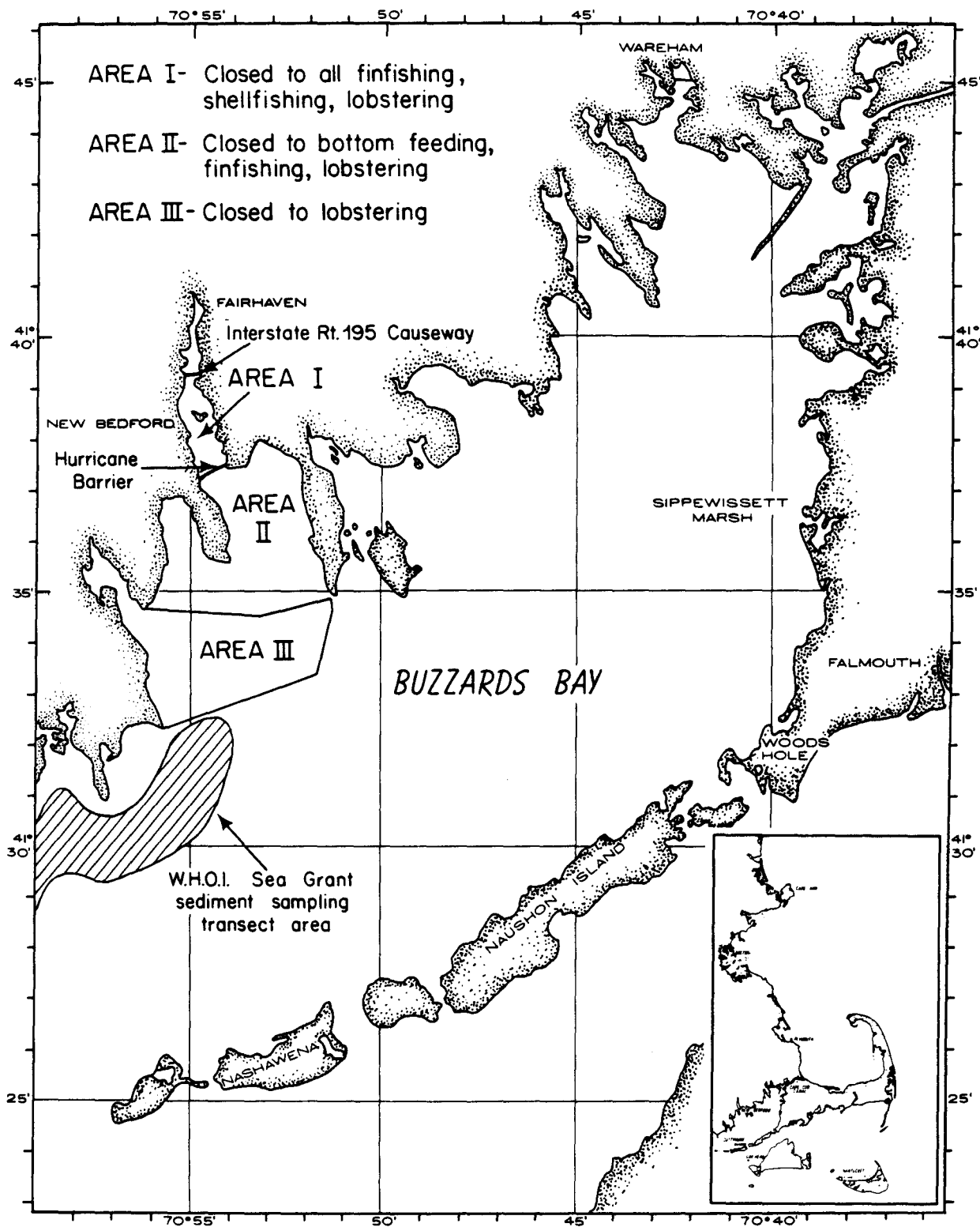


Fig. 4.

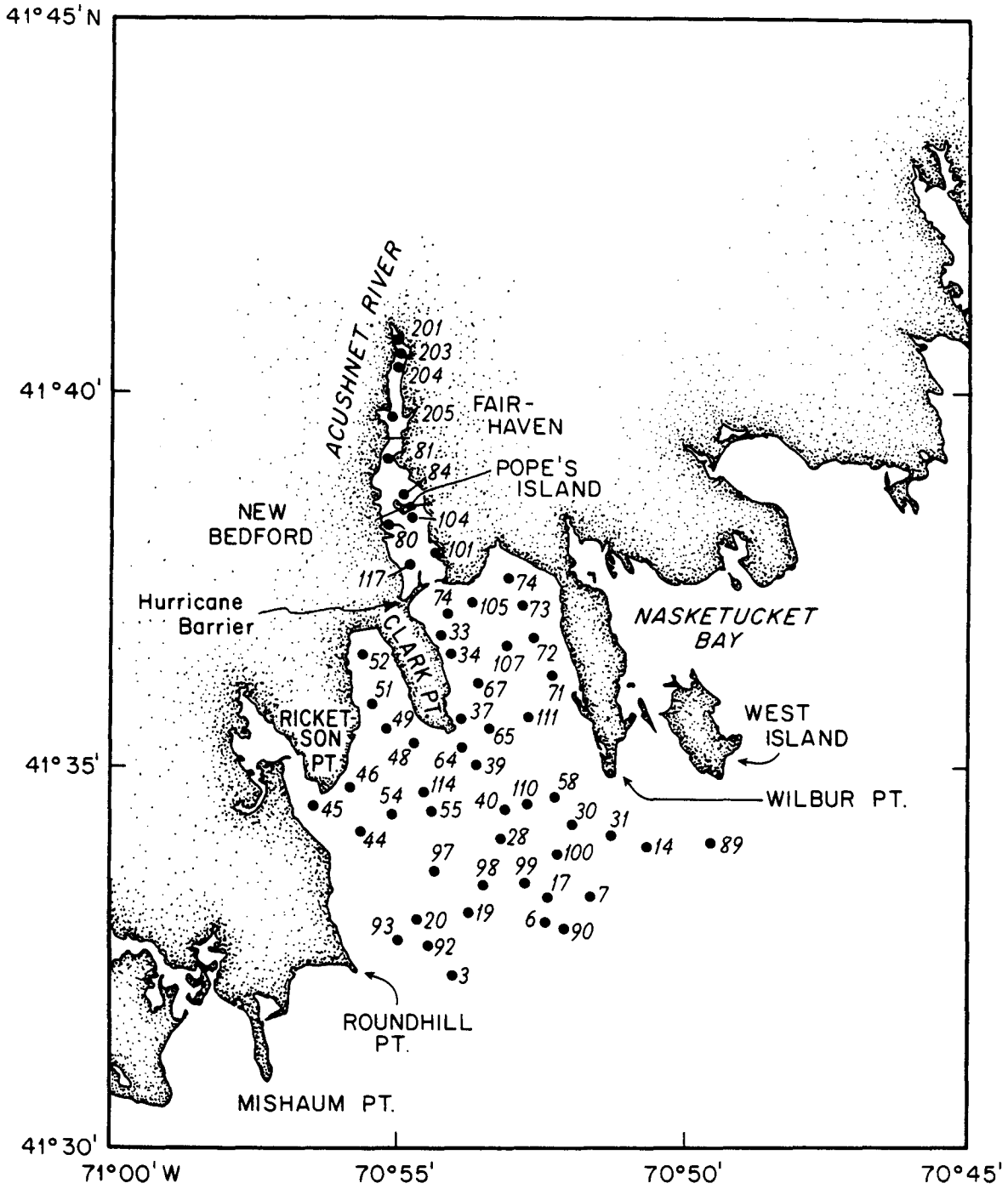


Fig. 5.

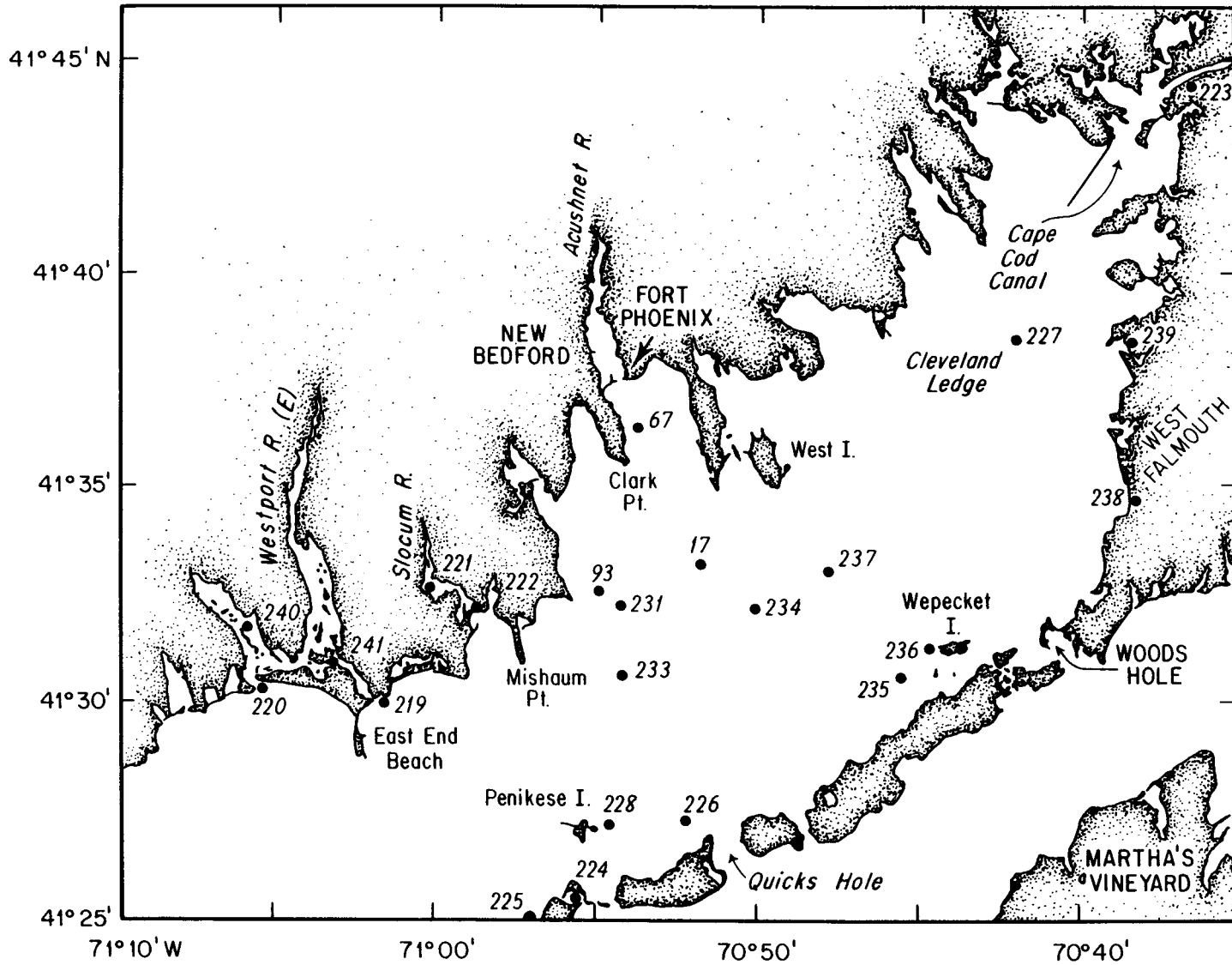


Fig. 6.

STATION NUMBERS
BUZZARDS BAY CRUISE 4
MAY 5-6, 1983

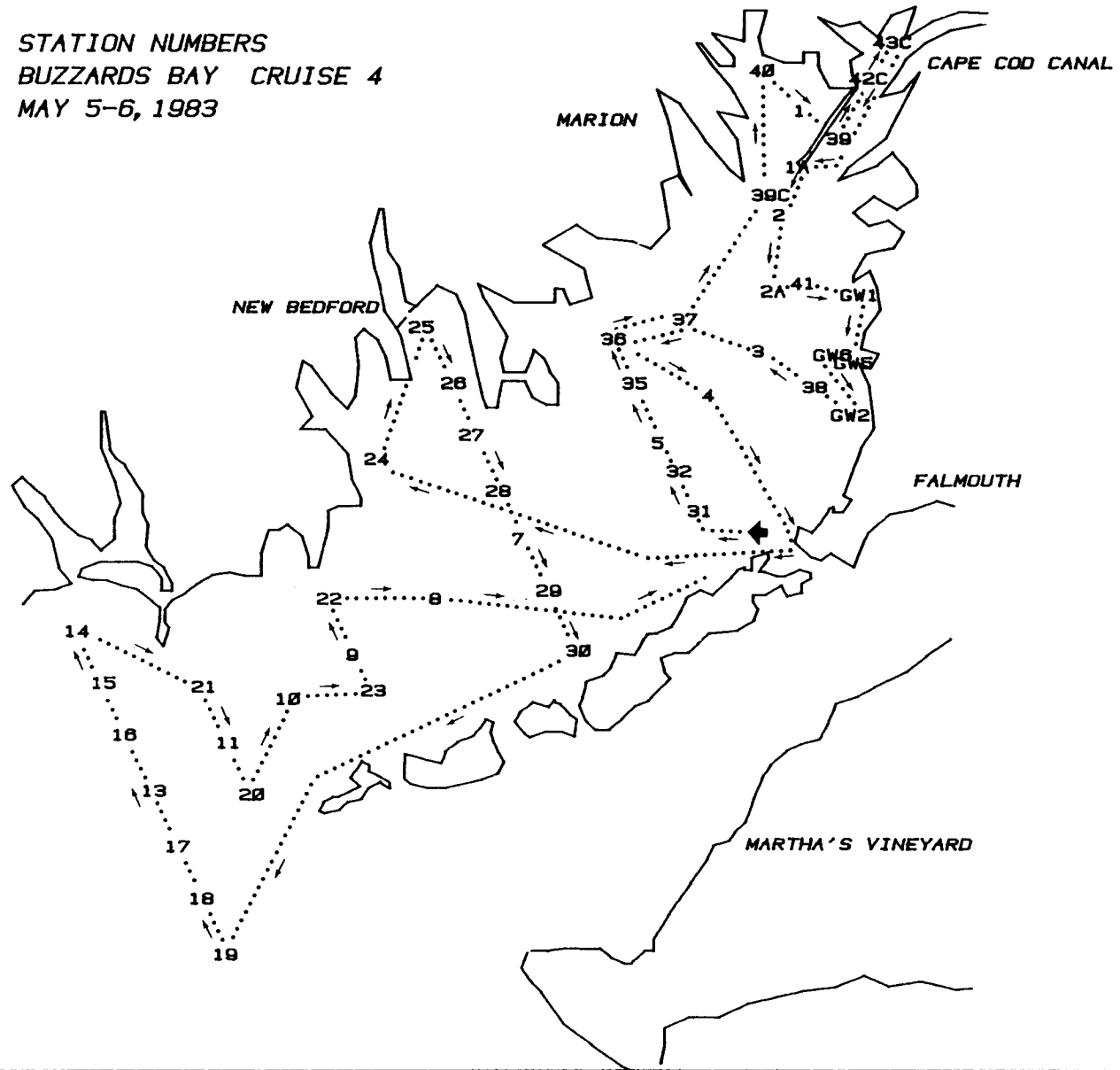


Fig. 7.

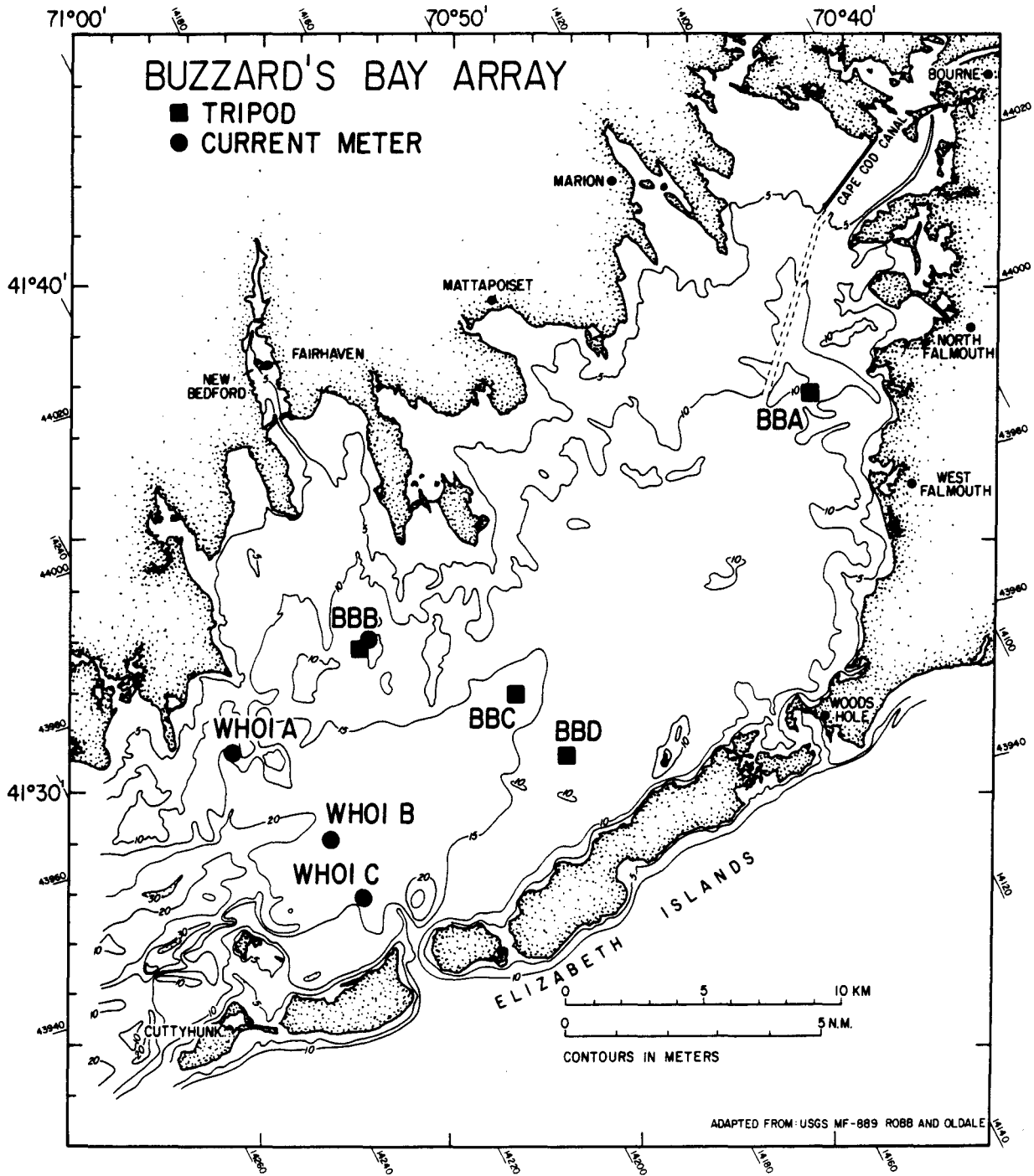


Fig. 8.

APPENDIX III

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