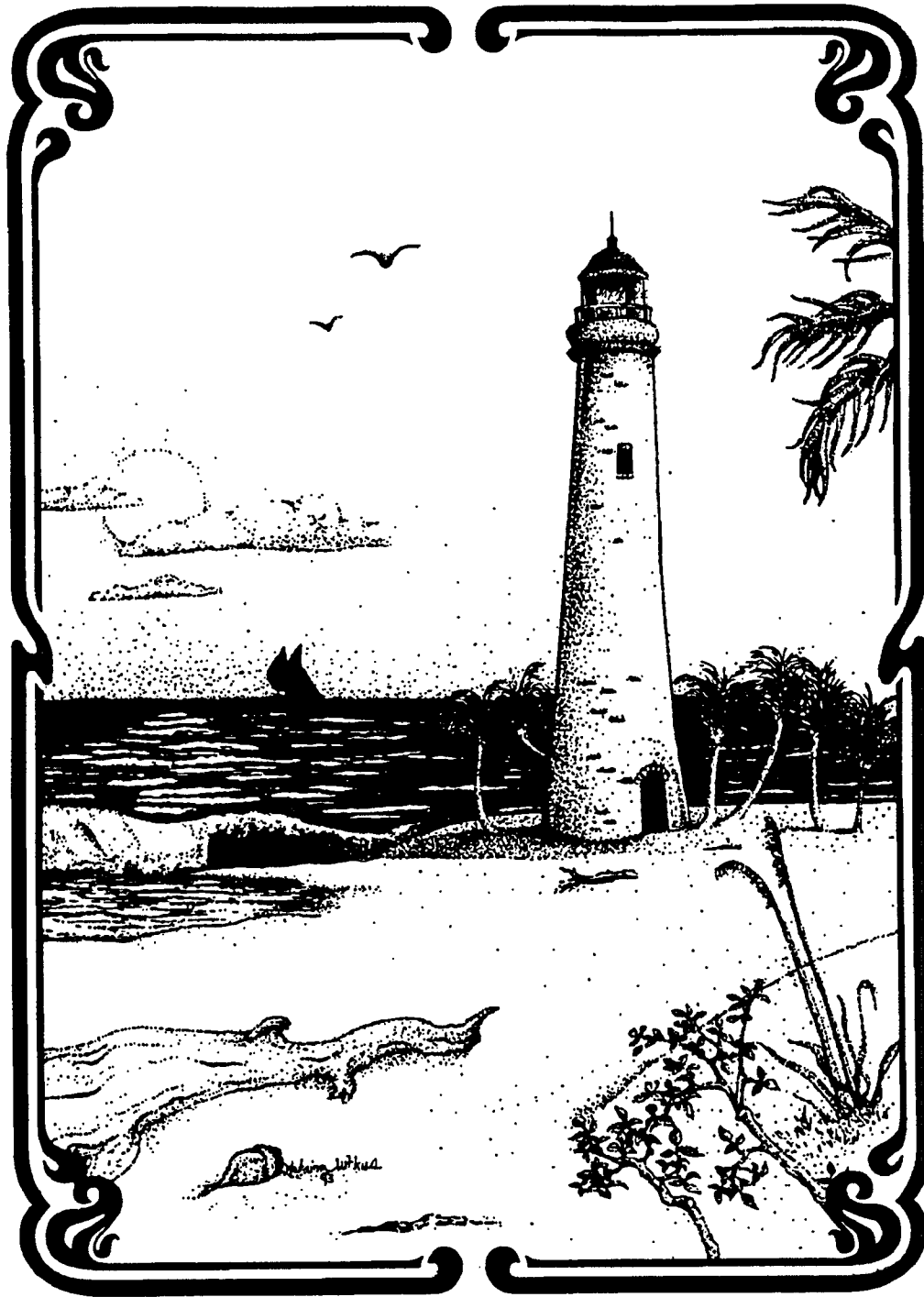


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*Biscayne Bay:  
A Bibliography of the Marine Environment*

by  
Kay K. Hale

Florida Sea Grant College Program



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Secondly, I thank my RSMAS Library staff, all of whom extended help above and beyond any of their job descriptions. My assistant, Helen Albertson, furnished innumerable interlibrary loans and scouted out additions to the citations list; Florence Martin helped with binding, preserving and labelling documents; Marty Healey acquired materials from various sources and shared some of his term paper resources; and Maria Bello expertly photocopied and collated so many of the texts and illustrations.

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Thanks to all the organizations and individuals who furnished documents for the Biscayne Bay bibliography. These have been collected and organized into the RSMAS Library's Biscayne Bay Collection where they are accessible to anyone seeking information on this vital natural resource.

## INTRODUCTION

The history of Miami and Biscayne Bay are intimately related. In addition to food, industry, transportation and recreation, the Bay provides a constant source of aesthetic satisfaction for those who live and work along its shores.

Biscayne Bay is a tropical lagoon, approximately 35 miles long and a maximum of 8 miles wide. Webster's dictionary defines "lagoon" as "a shallow sound, channel, pond or lake, especially one near, or communicating with, the sea." It is geographically divided into three parts: North, Central and South Bay. The North Bay is the most urbanized, bordered on the east by barrier islands, including Miami Beach, and including the Miami business district. Central Bay, extending from Government Cut to the southern limits of Coral Gables, has been affected by bulkheading and canal discharges. South Bay, aside from the Cutler and Turkey Point power plants, has been less affected by human activity and includes the northwestern portion of the Biscayne National Park.

Almost 100 years ago, in 1895, Hugh M. Smith of the U.S. Commission of Fish and Fisheries was dispatched to Biscayne Bay to determine whether the region was suitable for a marine hatching and experiment station. He found that "the water of Biscayne Bay is exceedingly clear. In no part can one fail to clearly distinguish objects on the bottom when the surface is not especially rough." Since that time, however, a century of natural phenomena, development and urbanization have profoundly affected the health and character of the Bay. Dredging and filling, sewage disposal, channel and canal building, flood control practices, hurricanes, and intense development of the shoreline have profoundly altered the waters.

Information on the marine environment of Biscayne Bay is frequently requested from the Library of the Rosenstiel School of Marine and Atmospheric Science (RSMAS).<sup>1</sup> Students, researchers, engineers, planners and the public regularly need publications on such subjects as pollution, monitoring, conservation and protection, coastal and resource management, artificial reefs, fishery assessments, park and marina construction, estuarine dynamics, and sampling.

Three major bibliographies on the marine environment of Biscayne Bay have been compiled: by Morrill and Olson in 1955, Rosendahl in 1975, and an unpublished manuscript by

de Sylva in 1984. The current updated and expanded list incorporates those publications as well as previously unidentified citations and later studies and documents issued until July 1992. All the documents listed are available from the RSMAS Library or the Richter Library at the Coral Gables campus of the University of Miami and classification numbers are noted at the end of the references. Included are books, scientific articles, theses and dissertations, book chapters, conference proceedings, reports and government publications. The bibliography does not include newspaper articles, accounts of public hearings, personal correspondence or articles from popular boating and sports magazines. Besides nautical charts issued by the U.S. Defense Mapping Agency, only a few maps are cited.

This bibliographic database containing over 1700 entries was compiled using PROCITE™ software, produced by Personal Bibliographic Software, Inc. PROCITE™ is a very powerful and flexible system which allows for almost unlimited record size. Index terms are based on the *Aquatic Sciences and Fisheries Thesaurus*, published in 1986 by Cambridge Scientific Abstracts for the Food and Agriculture Organization of the United Nations. The thesaurus is used in the *Aquatic Sciences and Fisheries Abstracts (ASFA)*, the major index to the journal and report literature of the marine and freshwater environment. The database is mounted on an IBM compatible computer in the RSMAS Library where it is searchable on any field. The Subject Index, which is long and detailed in print, was compiled for computer searching. PROCITE allows a searcher to combine terms for specific citation access.

In many cases, inclusion or exclusion of a reference was a subjective decision. The geographical emphasis of a given document might lie outside Biscayne Bay, but if was related to resources within the Bay area or if some aspect had a direct impact upon the Bay, then it was included. For example, natural resources surrounding Biscayne Bay are similar to those found further south in the Florida Keys, so citations on the Keys are included. The coral reefs which lie outside the Bay but which are very often affected by conditions within the Bay are also included. Drawing imaginary lines to separate the Bay from its geographical surroundings was usually impossible; instead, including a related reference seemed preferable.

The bibliography is far from complete.

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1. Rosenstiel School of Marine and Atmospheric Science - Library - 4600 Rickenbacker Causeway - Miami, FL 33149-1098 -(305) 361-4021.

Many publications on the hydrography of Biscayne Bay have been included, but sources covering this subject are so numerous that it was impossible to cover the subject completely at this time. Some of the "grey literature" is also missing because the publications are either not accessible or they have been cited in a manner which makes them difficult to identify.

However, this bibliography is a living and growing project. As new and old items are made available, they will be added to the database and issued, either as printed supplements or as updated diskettes.

Contributions of any relevant publications not listed here would be greatly appreciated, as would suggestions and corrections.

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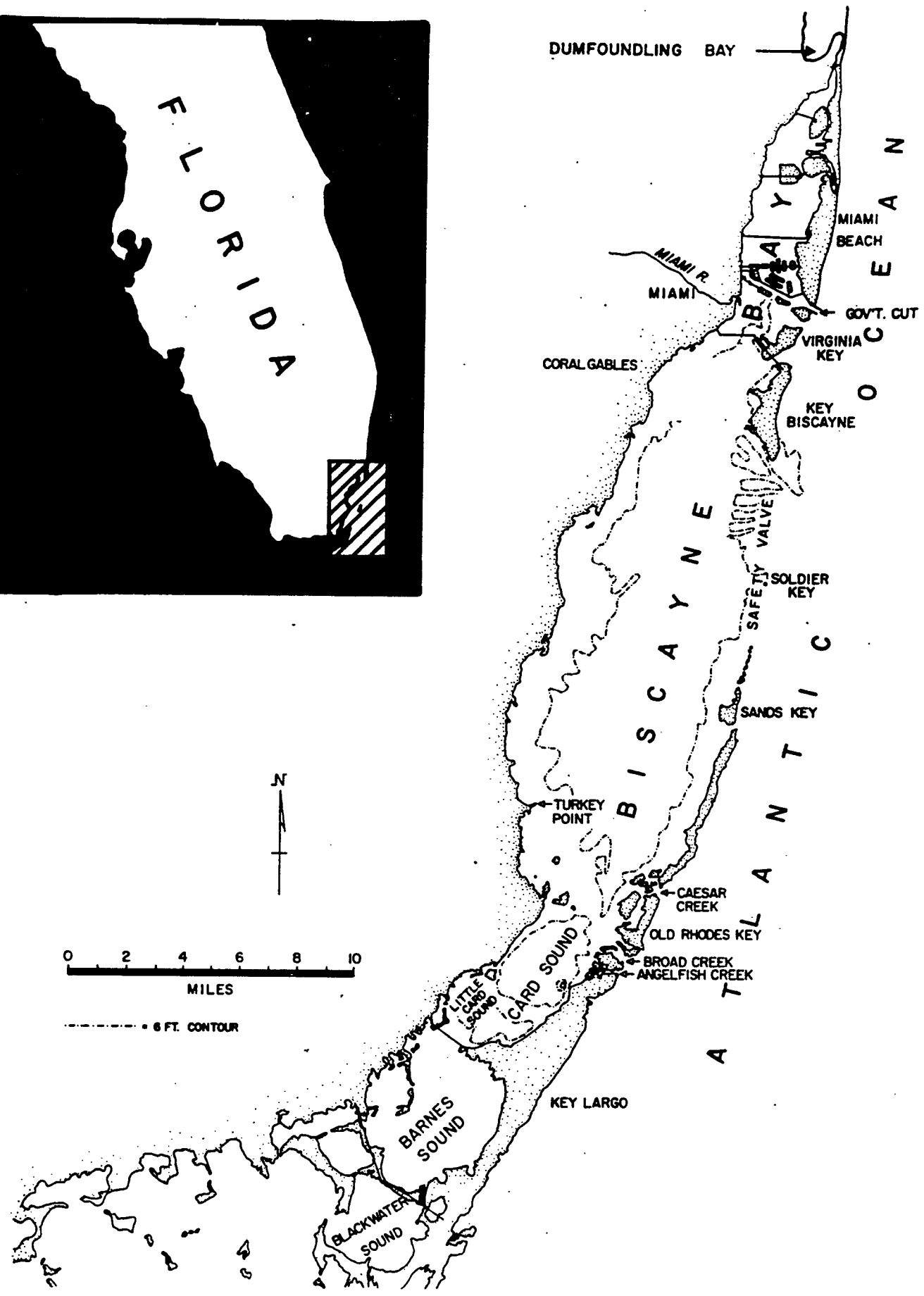
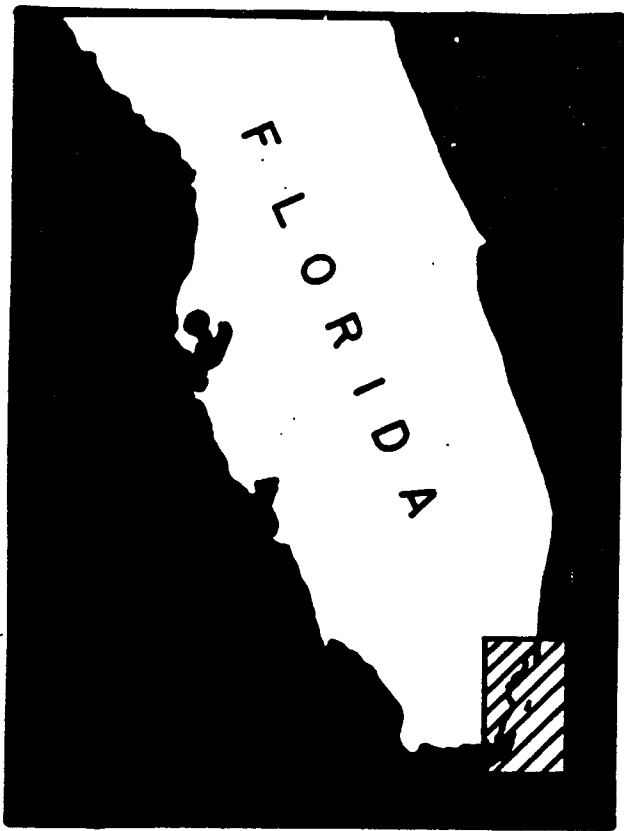
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Map source, page 3 - Rosendahl, P.C. A Bibliography of Biscayne Bay, Florida, Monitoring and Research Programs. Coral Gables: University of Miami Sea Grant Program, 1975 (Sea Grant Special Report # 2), p.3.





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