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Woods Hole Sea Grant: Marine/Environmental Education

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Crago, T.I. and M. DiSpezio (eds.)
Set of 54 field guide cards featuring original illustrations of marine invertebrates, 2005 WHOI-H-05-001
Also visit our companion web site, www.beachcomberscompanion.net

Gulf of Maine Marine Habitat Primer
Helpful to educators and students.
Also available as a PDF file -- click here.
56 pp., 2005 WHOI-B-05-001
Produced by the Gulf of Maine Council on the Marine Environment, the Primer provides an overview of habitat characteristics, ecological functions, economic and recreational values, human impacts, and management considerations in this environmentally and economically important region. Written for resource managers and other coastal decision makers interested in learning more about the region's coastal and offshore habitats, the Primer is intended to support more informed decisions about projects reviews, special management area designations, restoration targets, and other vital local and regional concerns.

Seaweeds of the Northeast Coast of North America
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
Sears, J.R. (ed.)
1 pp. (17" x 22" poster), 2004 WHOI-G-04-001

NEAS Keys to Benthic Marine Algae of the Northeastern Coast of North America from Long Island Sound to the Strait of Belle Isle
Helpful to educators and students.
Available on loan from the National Sea Grant Library or for purchase ($20.00) from the University of Massachusetts Bookstore, 285 Old Westport Road, North Dartmouth, MA 02747; dcarlson@umassd.edu.
Sears, J.R. (ed.)
161 pp., 2002 (Second Edition) WHOI-H-02-001

Teaching Materials for Spineless Science: An Introduction to Classification Focusing on the Invertebrates
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
DiSpezio, M. Artwork by T. Morgan.
10 pp. text plus 8 overhead transparencies, 2001 WHOI-E-01-002

Aquaculture Curricula Resource Guide: A Resource Tool for the Aquaculture Educator
Available on loan from the National Sea Grant Library or online: http://www.state.ma.us/dfa/aquaculture/education.htm (look for "Curricula Guide")
Soares, S.J., J.K. Buttner, and D.F. Leavitt
NRAC Publication No. 01-001, 54 pp., 2001 WHOI-E-01-003

Fish Printing in the Classroom
Helpful to educators and students.
WHOI Sea Grant
1 p., 2001 WHOI-E-01-001

Marine Science Careers: A Sea Grant Guide to Ocean Opportunities
Helpful to educators and students.
Available on loan from the National Sea Grant Library or download PDF file (4MB) or visit web site based on this publication is available at http://www.marinecareers.net
Adams, S. and T.I. Crago
32 pp., 2000 WHOI-E-00-001;
Students thinking about careers in the marine sciences often picture themselves working with marine mammals. Within the marine science fields, however, very few scientists specialize in this area. Today's marine scientists pursue a great variety of wide-ranging careers, using the latest in technology to address the problems and issues that face our marine resources. Marine Science Careers is a guide to the probabilities for this field for today and the years to come. The guide focuses on four major career areas--marine biology,

oceanography, ocean engineering, and closely related fields--as well as on careers that involve both the oceans and the Great Lakes. It is intended for high school students, but it will also be of interest to college undergraduates, middle school students, and the parents, teachers, and guidance counselors who will be helping them plan their futures.

SoundWaves 1620 AM: Cape & Islands Information

Crago, T.I.
2 pp. brochure, 1999 WHOI-A-99-001
While waiting for the ferry to Martha's Vineyard from Woods Hole, tune your radio to 1620AM to learn more about the local environment, the ferry and your trip to the Vineyard, and local happenings.

SoundWaves 1620 AM: Cape & Islands Information (Broadcast Audio Tape)
1999. Available on a loan basis only from Woods Hole Sea Grant. WHOI-F-99-001
You don't have to plan a special trip to Woods Hole to tune in to the SoundWaves broadcast, just borrow the audio tape from WHOI Sea Grant.

Educating the Next Generation: Sea Grant's Role in Marine Science Education
Helpful to educators and students.
WHOI Sea Grant
Focal Points, 4 pp., 1998 WHOI-G-98-009
Also available online: click here

Tips on Preparing a Scientific Research Paper
Helpful to educators and students.
Crago, T.I.
15 pp., 1998 WHOI-E-98-001

A Director's Perspective on 30 Years of Sea Grant
Helpful to educators and students.
McDowell, J.E.
Nor'easter, Vol. 10, Nos. 1 and 2, pp. 14-17, 1998 WHOI-R-98-007

Challenge of the Unknown Beckons Scientists Who Study Risk
Helpful to educators and students.
Crago, T.I.
Nor'easter, Vol. 9, No. 2, pp. 28-31, 1997 WHOI-R-97-006
Risk is a fact of life, intensified by technological advances. Researchers look at the tradeoffs between progress and the risks it brings to try to keep the two in balance.

Coastweeks Events Inspire Sense of Appreciation, Responsibility for Coast
Helpful to educators and students.
Crago, T.I.
Nor'easter, Vol. 9, No. 1, pp. 24-27, 1997 WHOI-R-97-001
From a 2 a.m. "Aha!" to a nationwide annual celebration of the coastal environment, Coastweeks brings fun to environmental stewardship.

Field Guides for New England Marine Environments
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
5 guides per set, 10 pp., 1997 WHOI-H-97-001
Updated and reprinted in 1997 by popular demand, this set of five field guides includes: "Salt Ponds," "Tidal Flats," "Rocky Shores and Wooden Structures," "Sandy Shore and Dunes," and "Salt Marsh." These oversized, 11-by-17 inch guides describe the characteristics of each environment, illustrate a cross section of each environment, and include the plants and animals that inhabit it, identified by both common and scientific names. Coated to help withstand years of use in the classroom or in the field.

WHOI Teacher Packet
Helpful to educators.
WHOI-E-96-002
WHOI is a private, non-profit research facility dedicated to expanding the frontiers of knowledge about the marine world. Most of the funding at WHOI supports its mission of research and higher education (graduate and post-graduate levels). In addition, as resources permit, the Institution's Education, Information, and Sea Grant offices, as well as the joint Marine Biological Laboratory/WHOI Library, prepare outreach and curriculum materials for elementary, secondary, and continuing adult education. In response to the high volume of requests for teaching materials from educators, staff from several of the WHOI outreach offices, including Sea Grant, created a packet of educational materials. To receive a teacher packet, you must be an educator -- formal or informal -- at a school or organization where a program or coursework in marine science and/or oceanography is offered.

Surfing the Net: How Sea Grant Programs Have Jumped on the Information Superhighway and Why You Should Too

Helpful to educators and students.
Crago, T.I.
Nor'easter, Vol. 7, No. 1, pp. 24-27, 1995 WHOI-R-95-004

Marine Science Reading List
Helpful to educators and students.
Marine Biological Laboratory/Woods Hole Oceanographic Institution Library 52 pp., $2.00, 1995 WHOI-L-95-002
Compiled by the joint MBL/WHOI Library, this comprehensive reading list is geared for students and adults and features hundreds of marine science references--including books, articles, videos, films, and on-line information--on topics ranging from aquaculture to underwater exploration.

Over the Wedge: Where Fresh and Saltwater Meet
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
Waters, B.S.
Poster, 2 pp. 1993 WHOI-G-93-002

Recycling Marine Science
Helpful to educators and students.
Crago, T.I. and L.A. Campbell
Nor'easter, Vol. 4, No. 2, pp. 42-46, 1992 WHOI-R-92-008
The community of Woods Hole-Falmouth, Massachusetts, is fortunate to have numerous programs that contribute to the recycling of marine science and education. The article, which originally appeared in the Fall/Winter 1992 issue of Nor'easter magazine, highlights various institutions, programs, and organizations in the Falmouth area which are examples of creative linkages and networking among local scientific establishments and the greater community. Similar networks between research and outreach can be set up in virtually any town, and the articles includes a side-bar featuring a checklist of activities that can be undertaken in your community.

All About Oceanography: A Fun-filled Activity Book
Helpful to educators and students.
Crago, T.I. and L.A. Campbell (eds.)
33 pp., 1992, $2.00 WHOI-E-92-002
Features factual tidbits and trivia about the various disciplines of oceanography (biological, chemical, and physical oceanography, marine geology and geophysics, and applied ocean physics and engineering), as well as coastal oceanography and marine policy. Illustrations of hydrothermal vent communities, coastal erosion, the hydrologic cycle, red tide, remotely operated vehicles, the Gulf Stream, and many others are included in the booklet's 32 pages, as are crossword and word search puzzles.

Expanding the Collection through Bibliographic Control of Institution Desk References
Rioux, M.
In: The Aquatic Environment: Description, Management, Conservation. Proceedings of the 17th Annual Conference - IAMSLIC - October 7-11, 1991, Galveston, Texas, pp. 97-105, 1992 WHOI-R-91-013

Field Guides for Eastern Shore Marine Environments
(NOTE: Both versions of the field guides--this set and the guides produced in 1997, see above--are only available on loan from the National Sea Grant Library.)
Helpful to educators and students.
Waters, B.S.
10 pp., 1992, WHOI-H-78-001
Set of five includes the following field guides: Description of a Salt Marsh, Description of Salt Ponds, Description of Rocky and Man-Made Shores, Description of Tidal Flats, and Description of the Sandy Shore and Dunes Environment.

The Raindrop Journey
Helpful to educators and students.
Only available on loan from the National Sea Grant Library. An online version is also available at www.capecodgroundwater.org/raindropjourneypages/raindropjourney.html
Waters, J.F. and B.S. Waters
2 pp., 1992 WHOI-E-92-001

Environmental Guide for New England Mariners
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
McConnell, M.
12 pp., 1991 WHOI-H-89-001
This booklet describes how boaters can, and in some instances must, play an even more active role in keeping coastal waters clean and healthy. To date there haven't been enough pump-out stations, or knowledge of where they are, to help mariners dispose of their waste responsibly. Now, however, more pump-out facilities are coming on line, more floating 'honey wagons' are in use, and more enforcement

is becoming apparent throughout the region. Whether you have a canoe, a cabin cruiser, or something in between, what you do on - and to - your boat makes a difference to all of us!

A Resource Book for Educators, 1991-1992
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
Network for Environmental Science Education in Southeastern Massachusetts
16 pp., 1991 WHOI-D-91-001
This booklet is designed as a resource for educators. It lists the 1991-92 members of the Network for Environmental Science Education in Southeastern Massachusetts and provides basic information about their goals and programs. The booklet may be of help to teachers and group-leaders who are planning environmental field trips or seeking specific information. A complete listing of member organizations of the Network and a map showing their locations in southeastern Massachusetts is located in the centerfold of this booklet. More detailed descriptions are given, in alphabetical order, on the accompanying pages. The name of one contact person for each organization is also provided.

Women in Marine Science... Good Girls Don't?
Helpful to educators and students.
Campbell, L.A.
Nor'easter, Vol. 2, No. 1, pp. 26-31, 1990 WHOI-R-90-010
Though women have succeeded in breaking into many previously male- dominated fields in recent years, it is still unusual to find them in science and technology careers. This article describes some of the specific trials faced by women in science, as well as the changes taking place in attitudes and institutions. The personal stories presented here illustrate the wide variety of marine science careers that exist and the uniqueness of the women who pursue them.

Groundwater Resource Guide
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
Cape Cod Environmental Education Resource Center (CCEERC)
Vol. 1, No. 1, 8 pp., 1990 WHOI-H-90-002
Imagine a life where the water you use is unsafe to drink. Imagine a time when there is not enough water available. And imagine what it would be like to use only bottled water for your needs. In order to prevent these problems from becoming reality, we must learn to protect and conserve our limited and valuable water supply. This groundwater resource guide, published by a group of educators on Cape Cod, Massachusetts, discusses the water cycle, the water budget, zones of aeration and saturation, hydrogeology, and how groundwater gets polluted. Complete with illustrations and activities for the classroom, as well as a glossary and bibliography, this 8-page guide can be a valuable teaching tool.

Depositing "Grey Literature" in the U.S. Technical Information System: Who is Responsible?
Only available on loan from the National Sea Grant Library
Helpful to educators and students.
Putnam, S.S.
Report from the IAMSLIC '90 Conference, 1990, 9 pp., 1990 WHOI-R-90-007
A large percentage of current technical information falls into the category of "grey literature" which is difficult to identify and acquire. It is typically unpublished or quasipublished material that cannot be obtained through the usual bookselling channels and is rarely incorporated into the large databases and standard reference sources. A portion of this critical body of technical information can be located in online databases such as NTIS. Presumably government depositories collect the information published by their agencies....or do they? It is apparent that not all of the literature issued by agencies and their contractors has actually been received by the depositories. How does the "grey literature" get into the government depositories such as NTIS, DTIC, NASA, GPO, Sea Grant, and the municipal, state and Federal depository libraries? Who is responsible for depositing this material? This paper answers these questions for a non-government, marine research facility and describes some of the responsibilities librarians must assume to ensure timely dissemination of information through the technical information network.

Sea Grant's Role in Marine Education
Helpful to educators and students.
Wildman, R.D. and D.A. Ross
Oceanus, Vol. 33, No. 3, pp. 39-45, 1990 WHOI-R-90-005
Never before have scientific and environmental issues dominated the actions of countries and the concerns of individuals as they do today. Despite the fact that these issues are covered almost daily on the front pages of our newspapers and featured on the evening TV news. There are only a few programs in the United States that are striving to increase the numbers of marine scientists and engineers. One that is active in the marine area is the National Sea Grant College Program, which is part of the National Oceanic and Atmospheric Administration (NOAA) in the U.S. Department of Commerce.

International Directory of Marine Science Libraries and Information Centers
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
Winn, C.P.
160 pp., 1987 (includes updated information as of 1992) WHOI-D-87-001

This directory identifies a network of more than 300 cooperating libraries, information centers, and other units in 50 countries which are willing to provide assistance not only to other cooperating members, but to any investigator seeking information in the marine sciences. This directory represents a new beginning in establishing an active program of international exchange of marine science information.

Directory of Marine Science Libraries and Information Centers
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
Woods Hole Oceanographic Institution
1981 WHOI-D-81-001

Directory of Marine Science Libraries on the East Coast of the United States and Canada
Helpful to educators and students.
Only available on loan from the National Sea Grant Library
Winn, C.P. and C. Hurter
1976 WHOI-D-76-001

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