

# Ocean Drifters

# **Acknowledgments and References**

Special thanks to the people and entities that kindly allowed us to adapt, interpret, and/or reproduce information and activities from the following resources.

Department of Environmental Regulation, Tallahassee, Florida. *Classroom and Field Experiments for Florida Environmental Resources*.

Mississippi-Alabama Sea Grant Consortium, University of Southern Mississippi, University of South Alabama, and NOAA Office of Sea Grant, U.S. Department of Commerce: Irby, B.N., M.K. McEwen, S.A. Brown, and E.M. Meek (editors). 1984. *Diversity of Marine Animals*.

Mississippi-Alabama Sea Grant Consortium, University of Southern Mississippi, University of South Alabama, and NOAA Office of Sea Grant, U.S. Department of Commerce: Irby, B.N., M.K. McEwen, S.A. Brown, and E.M. Meek (editors). 1984. *Marine and Estuarine Ecology*.

The National Science Teachers Association, Arlington, Virginia: Ford, B.A. and P.S. Smith. 1995. *Project Earth Science: Physical Oceanography*.

University of North Carolina, North Carolina Department of Administration, and NOAA Office of Sea Grant, U.S. Department of Commerce: Mauldin, L. and D. Frankenberg. 1978. *North Carolina Marine Education Manual: Unit Three: Coastal Geology.* 

Wade, L. 1992. Whales in the Classroom: Volume I: Oceanography. Singing Rock Press, Brooklyn Park, Minnesota.

#### References:

Atlas, R.M. and Bartha R. 1981. *Microbial Ecology: Fundamentals and Applications*. Addison-Wesley Publishing Company Inc., Philippines. 560pp.

Darley, W.M. 1982. *Algal Biology: A Physiological Approach*. Blackwell Scientific Publications, London, England. 168pp.

McConnaughey, B.H. 1978. *Introduction to Marine Biology*. 3<sup>rd</sup> edition. The C.V. Mosby Company, St. Louis, Missouri. 624pp.

Nybakken, J.W. 1982. *Marine Biology: An Ecological Approach*. Harper & Row Publishers Inc., New York, New York. 446pp.

Sumich, J.L. 1996. *An Introduction to the Biology of Marine Life*. 6<sup>th</sup> edition. Times Mirror Higher Education Group Inc., Dubuque, Iowa. 461pp.

Trainor, F.R. 1978. Introductory Phycology. John Wiley & Sons Inc., New York, New York. 525pp.

### **Other Sources of Information**

In addition to the natural museums, libraries, state and county parks there are a number of professional organizations that may be able to provide help or suggestions with environmental experiments. Some of these are:

American Institute of Chemical Engineers 345 East 47<sup>th</sup> St., New York, NY, 10017

The Air and Waste Management Association P.O. Box 2861, Pittsburgh, PA, 15230

Florida Audubon Society 480 E. Highway 436, Casselberry, FL, 32707

Marine educational materials (curricula or activities) may be obtained through:

National Marine Educators Association P.O. Box 51215, Pacific Grove, CA, 93950

Florida Advisory Council on Environmental Education 237 Holland Bldg., Tallahassee, FL, 32399-1400 phone: (904) 487-0123

MARE. Lawrence Hall of Science University of California, Berkeley, CA, 94720

Marine Education Computer Printout Bibliography Virginia Sea Grant Marine Advisory Service phone: (804) 642-7165 (search by grade level and topic of interest, \$5.00/search)

National Aquarium in Baltimore - Educational Department 501 E. Pratt Street, Baltimore, MD, 21202 phone: (410) 576-3880

Nation Sea Grant College Programs, Marine Information Service Sea Grant College Program, Texas A&M University, College Station, Texas, 77843-4115 (single copies of a bibliography of educational materials are available free of charge)

Pacific Science Center - Washington Sea Grant Marine Education Project 200 Second Ave. North, Seattle, WA, 98109-4895 phone: (206) 443-3627

## **Personal Library Software:**

Kestler, C.S. 1991. Freshwater Life. Nature Study. v44 n4 pages 13-15

Kirby, J.M. and L.N. Reinking. 1994. *A Field and Classroom Exercise for Measuring the Species Diversity of Freshwater Plankton Communities.* American Biology Teacher. v56 n5 pages 297-301

Sanderson, S.L. and R. Wassersug. 1990. *Suspension-feeding Vertebrates*. Scientific American. v262 n3 pages 96-101

Tanner J. Marine Biology: Ecology of the Sea A Zephyr Learning Packet (revised)

#### On Film:

Oceans Alive (1990). Environmental Media, Chapel Hill, North Carolina: A series of 60, five-minute video-programs designed to supplement Life and Physical Science lessons.

Plankton - National Geographic (12 min., color) Plankton: Life of the Sea MN-10769, NAVY The Day the Tide Turned Red MN-11395, NAVY

# **Suggested Books and Readings:**

Alexander, R. McNeill. 1983. *Animal Mechanics*, 2<sup>nd</sup> edition. Blackwell Scientific Publications, Oxford, England

Canby, T.Y. 1984. *El Niño III Wind*. National Geographic. (Feb.) **165** (2): 144-183

Environmental Systems Research Institute. 1995. *GIS in K - 12 Education: An ESRI White Paper*. Environmental Systems Research Institute Inc., Redlands, California Groves, D. 1989. *The Oceans - A Book of Questions and Answers.* Wiley and Sons, New York, New York

Hardy, A. 1971. The Open Sea: Its Natural History. Part I: The World of Plankton. Houghton Mifflin, Boston, Massachusetts

Madrazo, G. (editor). 1990. Oceanography for Landlocked Classrooms. National Association of Biology Teachers, Reston, Virginia

Margulis, L. and K.V. Schwartz. 1987. *Five Kingdoms: An Illustrated Guide to the Phyla of Life on Earth.* W.H. Freeman, San Francisco, California

Mobile County Public Schools. 1978. Experiments and Techniques: A Laboratory Guide For the Secondary Marine Science Program. Mobile County Schools, Mobile, Alabama

Needham, J.G. and P.R. Needham. 1976. A Guide to the Study of Freshwater Biology,  $5^{\rm th}$  edition. Holden-Day, San Francisco, California

Project WILD *Aquatic Education Activity Guide*. 1987. Western Regional Environmental Education Council, Boulder, Colorado

Raymont, J.E.G. 1980. *Plankton and Productivity in the Oceans*, 2<sup>nd</sup> edition. Vols. 1 and 2: Phytoplankton. Pergamon, Elmsford, New York

Round, F.E., R.M. Crawford, and D.G. Mann. 1990. The Diatoms. Cambridge University Press, New York

Simon, S. 1988. How to Be an Ocean Scientist in Your Own Home. Lippincott, New York

Smith, D.L. and K.B. Jonhson. 1996. *A Guide to Marine Coastal Plankton and Marine Invertebrate Larvae*, 2<sup>nd</sup> edition. Kendall/Hunt Publishing Co., Dubuque, Iowa

Stewart, R.H. 1985. Methods of Satellite Oceanography. University of California Press, California

Taylor, F.J.R. (editor). 1987. The Biology of Dinoflagellates. Blackwell Scientific Publications, London, England

Thurman, H. 1991. *Introductory Oceanography*, 6<sup>th</sup> edition. Merrill Publishing Co., Columbus, Ohio Williams, R.S.Jr. and J.G. Ferrigno (editors). 1994. *Satellite Image Atlas of the World*. USGS. Prof. Paper 1386-B.