

Recommended Reading and References

Bascom, Willard. (1980). *Waves and Beaches: The Dynamics of the Ocean Surface.*

No review or summary available

(ISBN: 0385148445)

Book Availability:

This book is out of print, please check your local library.

Beatley, T., Brower, D.J., & Schwab, A.K. (1994). *An introduction to coastal zone management.* Washington D.C.: Island Press.

This book provides a comprehensive introduction to the subject of coastal zone management. The authors review the existing management framework at the federal, state and local level, describing cornerstone programs and innovative and leading state, regional, and special area programs. Throughout they focus on:

- Coastal ecology and the physical attributes of the coastal zone
- Population trends and growth pressures confronting coastal areas
- Policy issues and conflicts facing those in coastal management

In addition, they examine key elements of successful coastal management, as they identify deficiencies in current efforts as well as methods for addressing those deficiencies. *An Introduction to Coastal Zone Management* provides a firm understanding of management approaches and strategies in use around the country focusing on those that have proven most effective.

(ISBN: 1559632801)

Book Availability:

Island Press: \$55.00

<http://www.islandpress.com>

1-800-828-1302

Carter, R.W. (1995). *Coastal environments: An introduction to the physical, ecological and cultural systems of coastlines.* San Diego: Academic Press.

This book links the physical and biological resources of coastlines with their exploitation and use. A holistic approach is taken, which views the coast as an integrated system, involving the input, output and circulation of mass, energy and information with environmental stress on coasts growing rapidly worldwide. The author takes the point of view that it is important to focus on the applications of the physical and biological sciences to shoreline management.

(ISBN: 012161856)

Book Availability:

Academic Press: \$75.00

<http://www.apnet.com>

1-800-321-5068

Carter, R.W., & Woodroffe, C.D. (1997). Coastal evolution. New York: Cambridge University Press.

This book assess how coastlines change, and how they have evolved over the last few thousand years. It introduces some of the latest concepts in coastal morphodynamics, recognizing that coasts develop through co-adjustment of process and form. Particular types of coast, such as deltas, estuaries, reefs, lagoons and polar coasts, are examined in detail with conceptual models developed on the basis of well-studied examples. Coastal Evolution is written for undergraduates who are studying coastal geomorphology, geologists who are mapping coastal sedimentary sequences and environmental scientists, engineers, planners, and coastal managers who need to understand the processes of change which occur on shorelines.
(ISBN: 0521598907)

Book Availability:

Cambridge University Press: \$37.95

<http://www.cup.org>

1-800-872-7423

Clark, J.R. (1996). Coastal zone management handbook. New York: Lewis Publishers.

Coastal Zone Management Handbook comprises the first complete manual on coastal resource planning and management technology. Written by an international consultant, this handbook reflects a global perspective on the natural resources, sensitivities, economics, development, productivity, and diversity of coastal zones. Although the emphasis is on tropical and subtropical ecosystems, the information is widely applicable. In addition to its comprehensive coverage of general concepts related to coastal regions, the book describes the strategic basis for coastal management, provides a set of working tool for management and planning activities, and presents case histories of management projects around the globe. Extensive references are provided for each management analysis, practice technique, and solution.
(ISBN: 1566700922)

Collier, M., Webb, R.H., & Schmidt, J.C. (1996). Dams and rivers: Primer on the downstream effects of dams. U.S. Geological Survey, Circular 1126.

This circular explores the emerging scientific arena of change in rivers below dams. This science tries first to understand and then anticipate changes to river beds and banks, and to riparian habitats and animal communities. To some degree, these downstream changes can be influenced by specific strategies of dam management. Scientists and resource managers have a duty to assemble this information and present it without bias to the rest of society. Society can then more intelligently choose a balance between the benefits and adverse downstream effects of dams.

Publication Availability:

Copies of this report are available free from:

U.S. Geological Survey
Branch Information Services
Box 25286
Denver, CO 80225

Komar, P.D. (1998). The pacific northwest coast: Living with the shores of Oregon and Washington. London: Duke University Press.

While the coast of the Pacific Northwest becomes populated with houses, condominiums, motels, and restaurants, its beaches and cliffs continue to be altered by ocean currents and winter storms. A companion volume to Living with the Shore of Puget Sound and the Georgia Strait, The Pacific Northwest Coast serves as a source of information about the coast of the Pacific Northwest, its geological setting, the natural responses of beaches and cliffs to ocean processes, and the ever-present problem of erosion. In this guide, Paul D. Komar, one of the nation's leading coastal oceanographers, examines the lessons taught by ages of geological and cultural history. With explanations of the area's geological evolution, including natural shoreline erosion and sea-cliff landsliding, Komar details human interaction with the coast: erosion caused by early settlers, the development and destruction of Bayocean Spit, the disastrous effects caused by the 1982-1983 El Nino, and the notorious failure of a construction project of the picturesque - but unstable - bluffs at Jump-Off Joe. Emphasizing the actual and potential harm to human projects and to the natural heritage of the coast, Komar provides the knowledge necessary for finding a safe home near the shore while preserving the beauty that draws us to it.

(ISBN: 0822320207)

Book Availability:
Duke University Press: \$18.95
Books Fulfillment
Duke University Press
Box 90660
Durham, NC 27708-0660
<http://www.duke.edu/web/dupress/index.html>
(919) 688-5134

National Research Council. (1990). Managing coastal erosion. Washington D.C.: National Academy Press.

An increasing number of structures built along the nation's vast coastlines are on erosion-prone shores, where they face the danger of collapse or damage. In response to mounting property losses, Congress has given the Federal Emergency Management Agency (FEMA) responsibility for incorporating coastal erosion into its National Federal Flood Insurance Program (NFIP). Managing Coastal Erosion addresses the immediate question of how to develop an erosion insurance program, and provides invaluable information about the natural processes of coastal erosion and the effects of human activity in coastal areas. It also explores major questions surrounding a national policy on coastal

erosion: Should the federal government be protecting developers and individuals who build in erosion-prone coastal areas? How should such a program be implemented? Can it prompt more responsible management of coastal areas? (ISBN: 0309041430)

Book Availability:

National Academy Press: \$19.60

<http://www.nap.edu>

1-800-624-6242

National Research Council. (1995). Science, policy, and the coast: Improving decisionmaking. Washington D.C.: National Academy Press.

Coastal areas of the United States and elsewhere face pressures from a variety of sources, both from human activities and from natural fluctuations of the environment. To confront these pressures, the concepts of ecosystem management and sustainable development have become part of national and international discussions about environmental management. Although it is not yet clear how to implement ecosystem management for the sustained use of coastal areas and their resources, one thing is certain: knowledge about coastal environmental and societal processes will be fundamental to any attempt to manage coastal environments in such a way that resources can be sustained and multiple uses accommodated. Scientists have an important role and responsibility in working with policymakers to ensure that coastal environmental policies are based solidly on scientific understanding. Carrying out necessary science and using it in coastal policymaking are often difficult. This report, Science, Policy, and the Coast: Improving Decisionmaking, offers advice to all partners in the coastal management and policymaking process to improve the use of science in the management of our coastal waters. (ISBN: 030905339)

Book Availability:

National Academy Press: \$20.00

<http://www.nap.edu/bookstore/index.html>

1-800-624-6242

(Publication on demand)

Shoreland Solutions. (1995). Littoral cell management planning along the Oregon coast. Oregon Department of Land Conservation and Development.

The littoral cell management project is the latest in a series of projects conducted by the Oregon Department of Land Conservation and Development (DLCD) as a part of their five year 309 strategy to improve coastal natural hazards policy, assessment, and awareness in Oregon. This report represents the first phase of this project. The objective of the second phase of this project is to apply the concepts described in the report to develop and implement a pilot littoral cell management plan along the Oregon coast.

Book Availability:

Oregon Department of Land Conservation and Development
1175 Court Street NE
Salem, OR 97310
(503) 373-0050

Viles, H., & Spencer, T. (1995). Coastal problems: Geomorphology Ecology and Society at the Coast. New York: John Wiley & Sons.

As coastal populations burgeon, problems of erosion, pollution and coastal change are becoming ever more serious and necessitate scientifically-informed management strategies. This authoritative new study discusses the causes of, and possible solutions to, some of the more pressing problems, against a background of the natural geomorphological and ecological workings of coastal environments. Drawing on their wide experience of temperate and tropical coasts, the authors consider all types of coastal problems, ranging from those produced entirely naturally to those where human impact dominates. A holistic approach to the understanding of coastal problems is suggested, which integrates geomorphology, ecology, and society through a consideration of the basic processes at work. Extensive use is made of case studies drawn from around the world, from beach erosion along the Nigerian coast to the recovery of the Vietnamese mangroves from war damage. Coastal Problems brings together material vital to any attempts to understand and manage our coasts and will be of interest to all those concerned with the environment and its management. (ISBN: 0470235195)

Book Availability:

John Wiley & Sons: \$44.95

<http://catalog.wiley.com>

1-800-225-5945