

Cunningham et al. Environmental Science: A Global Concern 11e
Further readings for Chapter 5 (Biomes)

Alcala, A. C. 2001. Marine reserves in the Philippines: historical development, effects and influence on marine conservation policy. Bookmark Press. The story of Apo and Sumlion Islands.

Alexander, Bryan and Cherry Alexander. 1996. *The Vanishing Arctic*. Facts on File Books. Beautiful photographs of the people and landscapes of this rapidly changing biome.

Abell, Robin A, et al. (eds). 2000. *Freshwater Ecoregions of North America*. Island Press. A conservation assessment of freshwater biomes.

Askins, Robert A. 2000. *Restoring North America's Birds: Lessons from Landscape Ecology 2nd ed*. Yale University Press. Gathers results of research on birds and their habitats to understand how declining species can be revitalized.

Barcelos e Ramos, J., Biswas H., Schulz K., G, LaRoche J. & Riebesell U., 2007. "Effect of rising atmospheric carbon dioxide on the marine nitrogen fixer *Trichodesmium*." *Global Biogeochemical Cycles* 21, GB2028. doi:10.1029/2006GB002898.

Bissonette, John A. and Ilse Storch (eds). 2002. *Landscape Ecology and Resource Management: Linking Theory with Practice*. Island Press. A useful combination of landscape ecology and on-the-ground land and resource management.

Bauer, D. M., et al. 2004. "Public Preferences for Compensatory Mitigation of Salt Marsh Losses: a Contingent Choice of Alternatives." *Conservation Biology* 18 (2): 401-422. Explores public preferences in wetland restoration.

Bellwood, D. R., et al. 2004. "Confronting the coral reef crisis." *Nature* 429: 827-833. A good review of the state of coral reefs worldwide.

Berrill, Michael, et al. 1981. *A Sierra Club Naturalist's Guide to the North Atlantic Coast: Cape Cod to Newfoundland*. Sierra Club Books. A good guide to coastal regions of northeastern North America.

Bond, Pauline. 1984. *Plants of the Cape flora: A descriptive catalogue*. Trustees of the National Botanic Gardens of South Africa. The Mediterranean climate of South Africa's Cape region has produced one of the most diverse botanical regions of the world.

Boyce, Mark S. and Alan Haney (eds). 1997. *Ecosystem Management: Applications for Sustainable forest and Wildlife Resources*. Yale Univ. Press.

Bowen, John. 1993. *Adventuring Along the Southeast Coast*. Sierra Club Books. An travel guide and ecological introduction to the coastal regions and barrier islands of the southern Atlantic states.

Breckle, Siegmund-Walter. 1999. *Walter's vegetation of the Earth: the Ecological systems of the Geo-Biosphere 4th ed.* A classification system for terrestrial biomes.

Brower, Kenneth. 2001. "Leopold's Gift" *Sierra* 86(1): 30-39, 109-110. Dave Brower's son revisits Aldo Leopold's Sand County farm to learn how the science of restoration ecology was born.

Caldeira K. & Wickett M. E., 2005. Ocean model predictions of chemistry changes from carbon dioxide emissions to the atmosphere and ocean. *Journal of Geophysical Research-Oceans* 110, C09S04. doi:10.1029/2004JC002671.

Callicott, J. Baird 1991. *Companion to a Sand County Almanac : Interpretive and Critical Essays*. Univ of Wisconsin Press. A leading environmental philosopher and ethicist discusses Leopold's land ethic.

Castaldo, Nancy F. 2004. *Deserts*. Chicago Review Press. A guide to desert people, animals and plants.

Causey, Billy d., et al. 2001. *The Status of Coral Reefs of the Florida Keys*. Florida Keys National Marine Sanctuary. Pollution, warming, diseases, and recreation all threaten coral reefs.

Clancy, Tim. 2004. "The War on Bosnia." *World-Watch*. 17 (2): 12-22. The environmental effects of war in Bosnia.

Colombini, Fabio. 2002. *Pantanal: cores e sentimentos*. Escrituras Editoria. Beautiful photographs of the world's largest wetland complex and its wildlife.

Cox, J. and R.T. Engstrom. 2001. "Influence of the spatial pattern of conserved lands on the persistence of a large population of red-cockaded woodpeckers" *Biological Conservation*. 100 (1): 137-150. GIS can be a useful tool in analyzing landscape patterns and connectivity between habitat patches.

Cunningham, M.A. and D. Johnson. 2006. Proximate and Landscape Factors Influence Grassland Bird Distributions. *Ecological Applications* 16(3): 1062-1075. Models incorporating both proximate and landscape-scale features best describe the distribution of 17 of 19 grassland bird species in the tall-grass prairie.

Daniel, Glenda. 1981. *A Sierra Club Naturalist's Guide to the North Woods of Michigan, Wisconsin, and Minnesota*. Sierra Club Books. A useful overview of the ecology of the Great Lakes forest.

Dauber, Jens, et al. 2003. "Landscape structure as an indicator of biodiversity: matrix effects on species richness." *Agriculture, Ecosystems & Environment* 98 (1/3): 321-9

Dramstad, Wenche E., et al. 1997. *Landscape Ecology Principles in Landscape Architecture and Land-Use Planning*. Island Press. Landscape ecology from the perspective of architects and planners.

du Toit, Johan T. et al. 2003. *The Kruger Experience: Ecology and Management of Savanna Heterogeneity*. Island Press. Records a century of research and management of Kruger National Park in South Africa.

Early, Lawrence S. 2004. *Looking for Longleaf: The Fall and Rise of an American Forest*. Univ. of North Carolina Press. The human history and ecology of southern pine forests.

Ellis, Richard. 2003. *The Empty Ocean: Plundering the World's Marine Life*. Washington Island Press. Most of us aren't aware of the losses of marine resources.

Elvidge, C. D., et al. 2004. "Satellite observation of Keppel Islands (Great Barrier Reef) 2002 coral bleaching using IKONOS data." *Coral Reefs*, 23 (1): 123-132. Satellite imaging shows the extent of coral bleaching on the Great Barrier Reef.

Egan, Dave and Evelyn Howell (eds). 2000. *The Historical Ecology Handbook: A Restorationist's Guide to Reference Ecosystems*. Island Press. To determine what needs to be restored and how to do it, we need to understand what ecosystems were like before they were disturbed.

Epstein, N., et al. 2004. "Alleviating impacts of anthropogenic activities by traditional conservation measures: can a small reef reserve be sustainably managed?" *Biological Conservation*. 121 (2): 243-255. In small marine preserves, mere enclosure may not be enough to preserve communities; active restoration approaches, such as the "gardening concept" may be needed.

Field, John G., et al. (eds). 2002. *Oceans 2020: Science, Trends, and the Challenge of Sustainability*. Island Press. A comprehensive review of the state of the world's oceans.

Forman, Richard T. T. 1995. *Land Mosaics: The Ecology of Landscapes and Regions*. Cambridge Univ. Press. A general text in landscape ecology.

Foster, David R and Glenn Motzkin. 2003. Interpreting and conserving the openland habitats of coastal New England: insights from landscape history. *Forest Ecology and Management* v. 185 (1-2): 127-50

Fox, Helen E., et al. 2005. "Experimental Assessment of Coral Reef Rehabilitation Following Blast Fishing." *Conservation Biology* 19 (1): 98-107. Artificial rock piles can help recreate coral reefs.

Friederici, Peter (ed). 2003. *Ecological Restoration of Southwestern Ponderosa Pine Forests*. Island Press. A collection of views on the need for and practice of restoration in this important biome.

Galindo-Leal, Carlos and Ibsen de Gusmao Camara (eds). 2003. *The Atlantic Forest of South America: Biodiversity Status, Threats, and Outlook*. Island Press. Surveys one of the most endangered biomes in the world.

Gardner, R. H., R. V. O'Neill, and Monica Goigel Turner. 2001. *Landscape Ecology in Theory and Practice: Pattern and Process*. Springer Verlag. A general textbook of contemporary landscape ecology

Grimsditch, Gabriel D. and Rodney V. Salm 2006 *Coral Reef Resilience and Resistance to Bleaching* IUCN Resilience Science Group Working Paper Series No 1. available at <http://www.iucn.org/dbtw-wpd/edocs/2006-042.pdf> describes strategies for protecting reefs.

Gobster, Paul H. and R. Bruce Hull (eds). 2000. *Restoring Nature: Perspectives from the Social Sciences and Humanities*. Island Press. Contributors to this volume explore the human dimensions of biological restoration.

Grottoli, Andrea G., et al. 2006. "Heterotrophic plasticity and resilience in bleached corals." *Nature* 440: 1186-1189. Corals can survive bleaching by preying on marine animals.

Gunderson, Lance H. and C. S. Holling (eds). 2001. *Panarchy: Understanding Transformations in Systems of Humans and Nature*. Island Press. A new work by the originators of resilience theory.

Gunderson, Lance H. and Lowell Pritchard Jr. 2002. *Resilience and the Behavior of Large-Scale Systems*. Island Press. An innovative examination of how ecological resilience and human adaptability interact in complex, regional-scale systems.

Hall-Spencer, J., Allain, V. & J. H. Fossa, 2002. "Trawling damage to Northeast Atlantic ancient coral reefs." *Proceedings of the Royal Academy of Sciences B*, online publication DOI: 10.1098/rspb.2001.1910. Trawlers threaten cold-water corals thousands of years old.

Harper-Lore, Bonnie and Maggie Wilson (eds). 2000. *Roadside Use of Native Plants*. Island Press. Published by the U.S. Department of transportation's Federal Highway Administration, this collection provides information and background about using native plants for landscaping.

He, Jianzhong et al. 2003. "Detoxification of vinyl chloride to ethene coupled to growth of an anaerobic bacterium" *Nature* 424: 62-65. A novel bacterium that destroys vinyl

chloride as part of its energy metabolism raises the prospect of effective bioremediation for contaminated water reservoirs.

Heinselman, Miron. 1999. *Boundary Waters: Wilderness Ecosystem*. Univ. of MN Press. An excellent study of the ecology of Minnesota's canoe country wilderness.

Helvarg, David. 2001. *Blue Frontier: Saving America's Living Seas*. NY: Owl Books. Describes the use and abuse of the 200-mile Exclusive Economic Zone around America's coastlines. The author argues that we are destroying this rich resource.

Higgs, Eric. 2003. *Nature by Design: People, Natural Processes, and Ecological Restoration*. MIT Press. Examines the ethical and philosophical basis of ecological restoration.

Hill, Julia Butterfly. 2001. *The Legacy of Luna: The Story of a Tree, a Woman and the Struggle to Save the Redwoods*. HarperSanFrancisco. The saga of a two-year tree-sitting effort to save a giant coastal redwood in the Headwaters Forest of California.

Hinrichsen, Don. 2000. "The Future of Coasts." *Worldwatch* 13 (6): 26-38. Global warming, rising sea levels, storms, and erosion threaten coastlines.

Horton, Tom. 2003. *Turning the Tide: Saving the Chesapeake Bay* (revised and expanded edition) Island Press. Updates a classic on restoration of the United States greatest estuary.

Irwin, Sue. 1992. *California's Eastern Sierra: A Visitor's Guide*. Cachuma Press. An introduction to the geology and natural history of the Great Basin and Mojave Desert.

Jones, A.G., et al. 2003. "A review of conservation threats on Gough Island: a case study for terrestrial conservation in the Southern Oceans." *Biological Conservation* 113 (1): 75-87. A case study in island biogeography.

Jones, Stephen R. 2004. *A Field Guide to the North American Prairie*. Houghton Mifflin. A good introduction to this neglected biome.

Kalluri, S. et al. 2003. "The potential of remote sensing data for decision makers at the state, local and tribal level: experiences from NASA's Synergy program." *Environmental Science and Policy* 6 (6): 487-500. GIS is a useful tool for policy makers.

Karlson, R. H., et al. 2004. "Coral communities regionally enriched along an oceanic biodiversity gradient." *Nature* 429 (6995): 867-870. A large-scale survey shows significant regional and local variation in the species richness of coral assemblages across 10,000 km transect.

Keddy, Paul A. 2000. *Wetland Ecology: Principles and Conservation*. Cambridge Univ. Press. An overview of global wetlands, their ecology and management.

Kershner, Bruce and Robert T. Leverett. 2004. *The Sierra Club Guide to the Ancient Forests of the Northeast*. Sierra Club Books. A guide to the ecology of old growth forests in Northeastern U.S.

Krutch, Joseph Wood. 1948 *The Forgotten Peninsula: A Naturalist in Baja California*. Univ. of Arizona Press. (reprint edition 1986) A classic in nature writing about the Baja desert.

Ladd, Doug. 1995. *Tallgrass Prairie Wildflowers*. Falcon Press. A fieldguide to prairie flower identification.

Larson, Lane and Peggy Larson. 2000. *The Deserts of the Southwest: A Sierra Club Naturalist's Guide*. Sierra Club Books. A naturalist's guide to southwestern deserts.

Lawler, Andrew. 2005. "Reviving Iraq's Wetlands." *Science* 307: 1186-1189. Can these once vast marshes be restored?

Leopold, Aldo. 1948. *A Sand County Almanac*. Oxford Univ. Press. Perhaps the best book ever written in America about conservation and land ethics.

Leopold, Aldo. 1972. *Round River: From the Journals of Aldo Leopold*. Oxford Univ. Press. Collected and edited by his son Luna.

Leopold, Aldo. 1993. *River of the Mother of God: and Other Essays*. A collection of Leopold's essays edited by Susan Flader and J. Baird Callicott

Levin, Ted. 2001. "Reviving the River of Grass." *Audubon* 103 (4): 54-57. Lead article on ecological restoration of the Everglades in a special issue devoted entirely to the politics, biology, and opportunities in this vast wetland.

Lopez, Barry. 1986. *Arctic Dreams: Imagination and Desire in a Northern Landscape*. Scribners. An elegantly written series of essays about arctic regions.

Lorbiecki, Marybeth. 1996. *Aldo Leopold: A Fierce Green Fire*. Falcon Pub. A biography of a great conservationist with many family photographs.

MacArthur, Robert H. 1984. *Geographical Ecology*. Princeton Univ. Press. A summation of the life work of one of the most influential ecologists of our time.

MacDougall, A. S., et al. 2004. "Defining Conservation Strategies with Historical Perspectives: a Case Study from Degraded Oak Grassland Ecosystem." *Conservation Biology* 18 (2): 455-465. Historical data can inform restoration projects.

Mander, U., et al. 2004. "Development of European landscapes" *Landscape and Urban Planning* 67 (1-4): 1-8. Lead article in a special issue on European landscape ecology.

Manning, Richard 1997. *Grassland: The History, Biology, Politics and Promise of the American Prairie*. Penguin Books. A human and natural history of the prairie.

Mannion, Antoinette M. (Ed.), 2002. *Dynamic World: Land-Cover and Land-Use Change*. Hodder & Stoughton Educational, London. A comprehensive survey of world vegetation and land use changes.

Matthews, Anne and Donald Worster. 2002. *Where the Buffalo Roam: Restoring America's Great Plains*. Univ. of Chicago Press. Describes a bold suggestion by Frank and Deborah Popper to return millions of acres in the ten Great Plains to their natural condition.

McKibben, Bill. 2005. *Wandering Home: A long walk across America's most hopeful landscape: Vermont's Champlain Valley and New York's Adirondacks*. Random House. The author visits green businesses and muses about sustainability.

McLeod, Elizabeth and Rodney V. Salm 2006 *Managing Mangroves for Resilience to Climate Change* IUCN Resilience Science Group Working Paper Series No 2. available at <http://www.iucn.org/dbtw-wpd/edocs/2006-041.pdf>

Meine, Curt. 1991. *Aldo Leopold: His Life and Work*. Univ. of Wisconsin Press. Probably the most extensive and authoritative biography available.

Mitsch, William J. and James G. Gosselink. 2000. *Wetlands 3rd ed*. John Wiley & Sons. Extensive coverage of the biology and management of wetlands.

Mittermeier, Russell A., et al. 2006. *Pantanal: South America's Wetland Jewel* Firefly Press. The world's largest contiguous wetland in southern Brazil is a paradise for biodiversity.

Morrison, Michael L. 2002. *Wildlife Restoration: Techniques for Habitat Analysis and Animal Monitoring*. A comprehensive guide to restoring wildlife and the habitats upon which they depend.

Mowat, Farley. 1989. *Tundra*. Peregrine Smith Publishers. Stories about the arctic and the people who live there.

Mumby, Peter J., et al. 2006. "Fishing, trophic cascades, and the process of grazing on coral reefs." *Science* 311 (5757): 98-101. Caribbean reefs protected by no-fishing zones despite rise in predators.

Nadkarni, Nalini M. and N. T. Wheelwright. 2000. *Monteverde: Ecology and Conservation of a Tropical Cloud Forest*. Cambridge, MA: MIT Press. A comprehensive study of the ecology and biodiversity of a Costa Rican cloud forest.

Nassauer, Joan Iverson. 1997. *Placing Nature: Culture and Landscape Ecology*. Island Press. An excellent compilation of reflections on landscape ecology by from a wide variety of perspectives.

Noss, R. 1999. *The Redwood Forest*. Island Press. An excellent overview of the history, ecology, and conservation of this important biome.

O'Brien, Dan. 2002. *Buffalo for the Broken Heart: Restoring Life to a Black Hills Ranch*. Random House. Restorationists are learning the importance of bison for prairie ecology.

Packard, Stephen and Cornelia F. Mutel. 1997. *The Tallgrass Restoration Handbook*. Covelo, CA: Island Press. Practical hands-on manual for restoring prairies, savannas, and woodlands.

Palmer, T. 1999. *The Heart of America*. Island Press. A landscape approach to ecological and conservation issues.

Palumbi, Stephen. 2003. *Marine Reserves: A Tool for Ecosystem Management and Conservation*. Pew Oceans Commission. Describes how fully protected marine reserves are an effective tool for restoring and maintaining coastal and marine habitats.

Pirot, Jean-Yves, et al. 2000. *Ecosystem Management: Lessons from Around the World*. Island Press. A guide for development and conservation practitioners.

Powell, G. V. and R. D. Bjork. 2004. "Habitat Linkages and the Conservation of Tropical Biodiversity as Indicated by Seasonal Migrations of Three-Wattled Bellbirds." *Conservation Biology* 18 (2): 500 – 510. Birds that migrate between habitat fragments are highly endangered.

Power, Haney A. 1996. "Adaptive Management for Sound Ecosystem Management," *Environmental Management* 20(6):879-886. Emphasizes the importance of research and monitoring in management.

Punshon, T, D.C. Adriano, and J.T. Weber. 2002. "Restoration of drastically eroded land using coal fly ash and poultry manure" *The Science of the Total Environment*. 296 (1-3): 209-225. Remediation research in Georgia's Savannah River Ecology Laboratory shows that low-tech approaches can be effective.

Quammen, David. 1997. *The Song of the Dodo : Island Biogeography in an Age of Extinctions* New York: Touchstone Books. A delightfully written account of adventure travel and the search for biodiversity.

Ray, Janisse. 2000. *Ecology of a Cracker Childhood*. Milkweed Editions. An engaging chronicle of growing up in Georgia's longleaf pine forests.

Reynolds J.F. and Stafford-Smith D.M. (Eds). 2002. *Global desertification: do humans cause deserts?* Dahlem University Press. Desert expansion is promoted by changes in land use

Richardson, Curtis S. 2005. "The restoration potential of the Mesopotamian marshes of Iraq." *Science* 307: 1307-1311. Can these once vast marshes be restored?

Ricketts, E. F., J. Calvin, and J. W. Hedgpeth. 1939. *Between Pacific Tides*. Stanford University Press. A classic on the biology of Pacific tide pools. With a forward by John Steinbeck.

Ricketts, Taylor. H. et al, 1999. *Terrestrial Ecoregions of North America: A Conservation Assessment*. Covelo, CA: Island Press. An overview of the features and status of all major ecoregions in North America.

Ricketts, Taylor H., Gretchen C. Daily and Paul R. Ehrlich 2002. "Does butterfly diversity predict moth diversity? Testing a popular indicator taxon at local scales" *Biological Conservation*, Vol. 103 (3) (2002) pp. 361-370. This study found no correlation between moth and butterfly diversity across 19 sites sub-alpine sites in Colorado.

Riley, Ann L. 1998. *Restoring Streams in Cities: A Guide for Planners, Policymakers, and Citizens*. Covelo, CA: Island Press. Describes an interdisciplinary approach to stream management and restoration.

Rodgers, C.L. and R.E. Kerstetter. 1974. *The Ecsphere: Organisms, Habitats, and Disturbances*. Harper. A good overview of biomes and human disturbance.

Rohrig, E. and B. Ulrich. 1991. *Temperate Deciduous Forests*. Elsevier Science. A biogeographical guide to the history and flora of this biome.

Royte, Elizabeth. 2004. "Don't spoil the soil: why care bout this dirt? Because cryptobiotic soil gives life to Utah's Redrock desert." *OnEarth* 25 (3): 26-32. It takes hundreds of years to grow but can be destroyed in a millisecond. Your government is selling it off piece by piece to the energy industry.

Russ, G. R., et al. 2004. Marine reserve benefits local fisheries. *Ecological Applications* 14:597-606. The story of Apo and Sumlion Islands in the Philippines.

Sayre, R. et al. 1999. *Nature in Focus: Rapid Ecological Assessment*. Island Press. Rapid ecological assessment is a method for quick analysis of threatened ecosystems.

Scholes RJ and R. Biggs. 2005. "A biodiversity intactness index." *Nature* 434 (7029): 32-33. Most conservation plans are based on rare or endangered species, it might be more effective to assess relative intactness of landscapes.

Shirley, Shirley. 1994. *Restoring the Tallgrass Prairie: An Illustrated Manual for Iowa and the Upper Midwest*. Univ. of Iowa Press. An excellent guide to both identification and cultivation of prairie plants.

Smith, Nigel J. H. 1999. *The Amazon river forest: A natural History of Plants, Animals, and People*. Oxford University Press. A comprehensive exploration of the ecology and human culture of the Amazon.

Soini, Katriina. 2001. "Exploring human dimensions of multifunctional landscapes through mapping and map-making." *Landscape and Urban Planning*. 57 (3-4): 225-239. Cartography is important in resource planning.

Sowell, John. 2001. *Desert Ecology: An Introduction to Life in the Arid Southwest*. Univ. of Utah Press. An interesting and accessible introduction to American deserts.

Stap, Don. 2002. "Living on the Edge." *Audubon* 104 (2): 56 – 62. With wetlands declining, shorebirds are in trouble. How can we restore their habitat?

Steffan-Dewenter, Ingolf and Teja Tscharntke. 2002. "Insect communities and biotic interactions on fragmented calcareous grasslands a mini review." *Biological Conservation*, 104 (3): 275-284. Species richness of butterflies increase with fragment size and connectivity between patches.

Steinbeck, John and Edward F. Ricketts. 1951. *The Log from the Sea of Cortez*. Viking Press. A classic exploration of marine biology in the Gulf of California.

Steiner, Frederick. 2002. *Human Ecology: Following Nature's Lead*. Island Press. A noted landscape planner presents a historical and analytical examination of how humans interact with each other as well as with other organisms and their surroundings.

Steinitz, Carl, et al (eds). 2002. *Alternative Futures for Changing Landscapes: The Upper San Pedro River Basin in Arizona and Sonora*. Island Press. Using GIS-based modeling, the authors evaluate the demographic, economic, physical, and environmental processes in a desert watershed and project the consequences of various land-use planning and management decisions.

Sweeney, B. W., et al. 2004. "Riparian deforestation, stream narrowing, and loss of stream ecosystem services." *Proceedings of the National Academy of Sciences (US)* 101 (39): 14132-14127. Riparian deforestation causes channel narrowing, habitat loss, and compromises in-stream processing of nutrients.

Taylor, Ronald J. 1992. *Sagebrush Country: A Wildflower Sanctuary*. Mountain Press. A lyric description of a biome that many people regard as a wasteland.

Tchernov, Dan, et al. 2004. "Membrane lipids of symbiotic algae are diagnostic of sensitivity to thermal bleaching in corals." *Proceedings of the National Academy of*

Sciences (US) 101 (39): 13531-13535. Lipid composition may be a key to the differences in thermally induced bleaching found in corals.

Thomas, R.C., et al. 1997. "The Conservation of a Fragmented Ecosystem within a Cultural Landscape: the Case of an Ancient Woodland in England," *Biological Conservation* 82 (3): 243-252.

Thoreau, Henry David. 1864. *The Maine Woods*. The Union Magazine. Reprinted 1950 by Bramhall House. Notes from three trips to the Kennebec, the Penobscot and the St. John Rivers in 1846, 1853 and 1857 give a sense of the northeastern wilderness.

Tidwell, Mike. 2003. *Bayou Farewell: The Rich Life and Tragic Death of Louisiana's Cajun Coast*. Pantheon Books. Explains the threats to the most extensive coastal wetlands in the U.S.

Tindall, Blair. 2004. "Tidal Attraction." *Sierra* 89 (3): 48-55, 64. A lyrical description of the strange and beautiful creatures of tide pools.

Tiner, Ralph W. 1999. *Wetland Indicators: A Guide to Wetland Identification, Delineation, Classification, and Mapping*. Lewis Publishers. A useful guide to identifying, describing, classifying, and delineating wetlands

Took, Roger. 2004. *Running with Reindeer: Encounters in Russian Lapland*. Westview Press. A gripping description of the social and environmental destruction in a rarely visited part of the world.

Tress, Barbel, et al. 2001. "Bridging human and natural sciences in landscape research." *Landscape and Urban Planning*, 57 (3-4): 137-141. Landscape ecology is by nature an interdisciplinary topic.

Vale, Thomas R. (ed). 2002. *Fire, Native Peoples, and the Natural Landscape*. Island Press. What was the role of native people in shaping landscapes of North America?

UNEP. 2005. *One Planet Many People: An Atlas of Our Changing Environment*. United Nations Environment Programme. An impressive collection of photos and satellite images of human effects on our environment.

Vanderpoorten, A., et al. 2004. "A GIS-based survey for the conservation of bryophytes at the landscape scale" *Biological Conservation* 121 (2): 189-194. Addresses the importance of scale in conservation and landscape planning.

Van Dyke, Fred. 2003. *Conservation Biology: Foundations, Concepts and Applications*. McGraw Hill Co. A good introduction to the science of conservation biology.

Wallace, David Rains. 1984. *The Klamath Knot*. Sierra Club Books. An prize-winning exploration of the ecologically unique Klamath Mountains in northern California.

Warne, Kennedy. 2007. "Blue Haven" *National Geographic* 211 (4): 70-89. Marine reserves are protecting fish and sea life.

Whitney, Stephen. 1979. *A Sierra Club Naturalist's Guide to the Sierra Nevada*. Sierra Club Books. A good introduction to mountain ecology.

Wikramanayake, Eric, et al. 2002. *Terrestrial Ecoregions of the Indo-Pacific: A Conservation Assessment*. Island Press. A study by the World Wildlife Fund of conservation needs in the Indo-Pacific.

Williams, Ted. 2006. "Wetlands: The last line of defense." *Audubon* 108 (3): 56-59. The only flood protection that really works is wetlands.

Woodward, Colin. 2003. "Saving Maine." *OnEarth* 25 (2): 14-22. How scientists are trying to bring back oceans from the brink of ruin.