

THE EARTH SCIENCES: NATURAL SYSTEMS

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SURVEY THE TOPICS

- American Geophysical Union, <http://earth.agu.org/homepage.html> (Database of articles, policy resources)
- Columbia University Center for International Earth Science Information Network, <http://www.ciesin.org/>
- Geo Clio: webserver for the history of geology and the earth sciences, <http://geoclio.st.usm.edu/> (U. Southern Mississippi)
- National Geophysical Data Center, <http://www.ngdc.noaa.gov/> (Satellite images & other government visuals)
- National Oceanic and Atmospheric Administration, <http://www.noaa.gov/>
- United States Geological Survey (USGS), <http://www.usgs.gov/>

CLARIFY TERMS

- Chemistry & Environmental Dictionary, <http://environmentalchemistry.com/yogi/chemistry/dictionary/>
- Illustrated Glossary of Geologic Terms, http://www.ge-at.iastate.edu/courses/Geol_100/glossary.html (IA State U.)

FIND MORE

EXPERTS

- Earth Sciences Organizations (by country), <http://www.vl-es.geo.ucalgary.ca/VL/html/es-orgs-by-location.html> (U. Calgary)

FIND BOOKS, MAGAZINE ARTICLES & INTERNET SITES

- Global Change Master Directory of Earth Science Data, <http://gcmd.gsfc.nasa.gov/> (Index & resources)
- Sci Net Earth Science, http://www.scinet.cc/directory/Science/Earth_Science/ (Directory & search engine)

NEWS SOURCES

- Earth Science World, <http://www.earthscienceworld.org/> (American Geological Institute)
- Eureka Alert Earth Sciences, <http://www.eurekaalert.org/bysubject.php?kw=79>
- Nature, <http://www.nature.com/nature/>
- New Scientist, <http://www.newscientist.com/>
- Science, <http://www.sciencemag.org/>

EARTH SCIENCES A - Z:

ECOSYSTEMS IN GENERAL

- Biodiversity & Conservation Hypertext Book, <http://darwin.bio.uci.edu/~sustain/bio65/Titlepage.htm> (UC, Irvine)
- Biodiversity Worldmap, <http://www.nhm.ac.uk/science/projects/worldmap/> (London Natural History Museum)
- Biogeography.com, <http://www.biogeography.com/> (Extensive links)
- California Environmental Resources Evaluation System (CERES), <http://ceres.ca.gov/index.html> (Extensive information and links)
- Colinvaux, *Introduction to Ecology*, QH-541.C63
- Environmental Information Sources, http://www.environment.gov.au/ps/owa/other_servers.list_servers?cty=&cat=28
- Ford, *Modeling the Environment*, 1999

Global Environmental Outlook 2000, <http://www.unep.org/Geo2000/english/index.htm> (United Nations)

Google Environmental links, <http://directory.google.com/Top/Science/Environment/>

Grzimek's *Encyclopedia of Ecology*, QH-541 .G79

Introduction to Biomes, <http://www.runet.edu/~swoodwar/CLASSES/GEOG235/biomes/intro.html>

Levin, *Encyclopedia of Biodiversity*, 2000

Nebel & Wright, *Environmental Science: toward a sustainable future*, 2002

REGIS: Environmental Planning GIS at Berkeley, <http://www.regis.berkeley.edu/>

Wilson, *Biodiversity*, QH--75.B5228 1996

World Biodiversity Database, <http://www.eti.uva.nl/Database/WBD.html> (U. of Amsterdam)

CONSERVATION

Abell, *Freshwater Ecoregions of North America: a conservation assessment*, 2000

The Center for Conservation Biology Network, <http://conbio.net/>

Nature Serve, <http://natureserve.org/> (Database of conservation information)

Oates, *Reader in Environmental and Resource Management*, 1999

Ricketts, *Terrestrial Ecoregions of North America: a conservation assessment*, 1999

Wikramanayake, *Terrestrial Ecoregions of the Indo-Pacific: a conservation assessment*, 2001

World Conservation Union, <http://www.iucn.org/>

DEGRADATION

The Case of Mass Extinction, <http://advlearn.lrdc.pitt.edu/belvedere/materials/Mass-Extinctions/>

Davis, *Environmental Disasters: a chronicle of individual, industrial and governmental carelessness*, 1998

Gareth, *Resources, Society and Environmental Management*, 1997

Goudie, *Human Impact Reader*, 1997

Mass Extinctions, <http://www.bbc.co.uk/education/darwin/exfiles/massintro.htm>

National Library for the Environment, <http://cnie.org/NLE/> (National Council for Science and the Environment)

REMEDIATION

American Academy of Environmental Engineers, <http://www.enviro-engrs.org/>

Brownfields, <http://www.epa.gov/swerosps/bf/> (EPA)

Brownfields Center, <http://www.ce.cmu.edu/Brownfields/> (Carnegie Mellon U.)

Environmental Protection Agency Superfund, <http://www.epa.gov/superfund/>

Google Remediation links,

http://directory.google.com/Top/Science/Environment/Hazardous_Waste/Remediation_Technology/

Google Restoration Ecology links, http://directory.google.com/Top/Science/Biology/Ecology/Restoration_Ecology/

Rafson, *Brownfields: redeveloping distressed properties*, 1999

Russ, *Redeveloping Brownfields: landscape architects, planners, developers*, 2000

ECOSYSTEMS: CORAL REEFS

Bakus, *Coral Reef Ecosystems*, 1994

Eakin, Coral Related Literature, <http://www.ogp.noaa.gov/misc/coral/coralit.html>

Introduction to Coral Reefs, <http://www.uvi.edu/coral.reefer/> (U. of Virgin Islands)

National Coral Reef Institute, <http://www.nova.edu/ocean/ncri/>

Reefbase: a global information system on coral reefs, <http://www.reefbase.org/>

Spalding et al, *World Atlas of Coral Reefs*, 2001

ECOSYSTEMS: DESERTS / DESERT SCRUB ECOSYSTEMS

Arid Lands Newsletter, <http://ag.arizona.edu/OALS/ALN/ALNHome.html> (Full text online, from U. of Arizona)

Cooke, *Desert Geomorphology*, 1993

Desertification, <http://www.fao.org/desertification/default.asp?lang=en> (Food & Agriculture Organization, United Nations)

Louw & Seely, *Ecology of Desert Organisms*, 1982

Sowell, *Desert Ecology: an introduction to life in the arid southwest*, 2001

ECOSYSTEMS: ESTUARIES

Hobbie, *Estuarine Science: a synthetic approach to research and practice*, 2000

Little, *The Biology of Soft Shores and Estuaries*, 2000

Marine & Estuarine Wetlands,

<http://www.botgard.ucla.edu/html/botanytextbooks/worldvegetation/marinewetlands/index.html>

Malone, *Ecosystems at the Land-Sea Margin*, 1999

National Estuarine Research Reserve System, <http://inlet.geol.sc.edu/cdmohome.html>

Pye & Bath, *Coastal and estuarine environments: sedimentology, geomorphology and geoarchaeology*, 2000

ECOSYSTEMS: FORESTS / TEMPERATE BROADLEAF DECIDUOUS FORESTS

Allaby, *Temperate Forests*, 1999

Dudley, *Forests in Trouble: a review of the status of temperate forests worldwide*, 1992

Duffey, *The Forest World: the ecology of the temperate woodlands*, 1980
Röhrig & Ulrich, *Temperate Deciduous Forests*, 1991

ECOSYSTEMS: GRASSLANDS / TEMPERATE GRASSLANDS / STEPPES / PAMPAS / VELD

Coupland, *Natural Grasslands*, 1993
Langley, *Grasslands*, 1993
Licht, *Ecology and Economics of the Great Plains*, 1997
Thornley, *Grassland Dynamics: an ecosystem simulation model*, 1998
Vickery & Dunwiddie, *Grasslands of Northeastern North America*, 1997

ECOSYSTEMS: INTERTIDAL ZONES / LITTORAL ZONES

Mathieson & Nienhuis, *Intertidal and Littoral Ecosystems*, 1991
Niesen, *Beachcomber's Guide to California Marine Life*, 1994
Online Intertidal Field Guide, <http://oceanlink.island.net/oinfo/intertidal/intertidal.html>
Pethick, *Introduction to Coastal Geomorphology*, 1984
Raffaelli, *Intertidal Ecology*, 1996

ECOSYSTEMS: LAKES & PONDS

Lerman, *Lakes: Chemistry, Geology, Physics*, 2nd, 1995
Pond Management, <http://ohioline.osu.edu/b374/index.html> (Ohio U.)
Pond Management Guide, <http://www.ces.ncsu.edu/nreos/wild/aquatics/pond/index.html> (NC State U.)
Understanding Lake Ecology, <http://wow.nrri.umn.edu/wow/under/primer/>

ECOSYSTEMS: MEDITERRANEAN ECOSYSTEMS / SCRUB FORESTS / COASTAL SCRUB ECOSYSTEMS / CHAPARRAL

Arroyo & Zedler, *Ecology and Biogeography of Mediterranean Ecosystems in Chile, California, and Australia*, 1995
Bakker, *An Island Called California : an ecological introduction to its natural communities*, QH-105.C2 B3 1984
Barbour & Major, *The Terrestrial Vegetation of California*, 1988
California Native Plant Society, <http://www.cnps.org/>
Coastal Sage Scrub Links, <http://www.csupomona.edu/~jskoga/Sagescrub/Sagescrub.html> (Cal State, Pomona)
Dallman, *Plant Life in the World's Mediterranean Climates*, QK-938.M45 D35 1998
DiCasteri & Mooney, *Mediterranean Type Ecosystems: origin and structure*, 1973
DiCasteri & Sprecht, *Ecosystems of the World II: Mediterranean-type shrublands*, 1981
Gordon, *Ecological Guide to Southern California Chaparral Plant Series*, 1994
Halvorson, *California Grassland Restoration Literature*, 1990
Head, *The California Chaparral: an elfin forest*, 1976
Keeley, *Bibliographies on Chaparral and the Fire Ecology of Other Mediterranean Systems*, 2nd, 1988
Keeley, *The California Chaparral: paradigms reexamined*, 1989
Kreissman, *California: an environmental atlas and guide*, 1991
Mooney, *Convergent Evolution in Chile and California: Mediterranean climate ecosystems*, 1977
Moreno & Oechel, *The Role of Fire in Mediterranean-Type Ecosystems*, 1994
Ornduff, *Introduction to California Plant Life*, QK-149.O73
Schoenberr, *Natural History of California*, QH-105.C2 S36 1992
Thrower & Bradbury, *Chilie-California Mediterranean Scrub Atlas: a comparative analysis*, 1977

ECOSYSTEMS: OCEANS / MARINE ECOSYSTEMS

Ellis, *Deep Atlantic: life, death and exploration in the abyss*, 1996
Ernst & Morin, *The Environment of the Deep Sea*, 1982
Knox, *The Biology of the Southern Ocean*, 1994
Menzies, *Abyssal Environment and Ecology of the World Oceans*, 1973
Mitchell, *The Fragile South Pacific: an ecological odyssey*, 1990
National Oceanographic Data Center, <http://www.nodc.noaa.gov/>
Pirie, *Oceanography: contemporary readings*, 3rd, GC--26.O275 1996
Scripps Institution of Oceanography, <http://www.sio.ucsd.edu/>
Sherman, *Large Marine Ecosystems of the Indian Ocean: assessment, sustainability and management*, 1998

ECOSYSTEMS: RAINFORESTS / TROPICAL BROADLEAF EVERGREEN FORESTS

Binabitrop, <http://www.ots.ac.cr/en/rdmcnfs/binabitrop.shtml/> (Costa Rica National Bibliography in Tropical Biology)
Gay, *Rainforests of the World: a reference handbook*, 2nd, 2001
Lanting, *Jungles*, 2000
Terborgh, *Diversity and the Tropical Rainforest*, 1992
Turner, *The Ecology of Trees in the Tropical Rain Forest*, 2001
Weber, *African Rain Forest Ecology and Conservation*, 2001

Whitmore, *An Introduction to Tropical Rain Forests*, 2nd, 1998
Whitmore & Hadley, *Rain Forest Regeneration and Management*, 1990

ECOSYSTEMS: RIVERS & STREAMS

American Rivers, <http://www.amrivers.org/> (Resources & links)
California Riparian Evaluation System, <http://ice.ucdavis.edu/papers/p327.html> (UC, Davis)
California Rivers Assessment (CARA), <http://endeavor.des.ucdavis.edu/newcara/>
Garrett, *The Biota of the Los Angeles River: an overview*, 1993
Google River Restoration links, http://directory.google.com/Top/Recreation/Outdoors/Fishing/River_Restoration/
Herson-Jones, *Riparian Buffer Strategies for Urban Watersheds*, 1995
Hicklin, *River Geomorphology*, 1995
Lampert, *Limnoecology*, QH--96.57.A1L3513 1996
Malanson, *Riparian Landscapes*, 1995
Morrison, *Rio L.A.: tales from the Los Angeles River*, 2001
Realtime Streamflow, <http://water.usgs.gov/waterwatch/> (USGS data)
Riparian Ecosystem Creation and Restoration: a literature summary,
<http://www.npwrc.usgs.gov/resource/literatr/ripareco/agrico.htm>
River Corridor and Wetland Restoration, <http://www.epa.gov/owow/wetlands/restore/> (EPA)
Warner, *California Riparian Systems: ecology, conservation and productive management*, 1984
Woods, *Wetlands of the Los Angeles River Watershed: profiles and restoration opportunities*, 2000

ECOSYSTEMS: SAVANNAS / TROPICAL GRASSLAND

Cole, *The Savannas: biogeography and geobotany*, 1986
Huntley & Walker, *Ecology of Tropical Savannas*, 1982
Jayalaxshmi, *World Savannas: ecology and human use*, 2000
Sarmiento, *The Ecology of Neotropical Savannas*, 1984
Solbrig et al, *Biodiversity and Savanna Ecosystem Processes: a global perspective*, 1996
Tropical Savannas Cooperative Research Centre, <http://savanna.ntu.edu.au/index.html>

ECOSYSTEMS: THE TAIGA / BOREAL FORESTS / NORTHERN CONIFEROUS FORESTS

Biodiversity in Boreal Forests, <http://www.helsinki.fi/science/biobof/> (U. of Helsinki)
Boreal Forest Network, <http://www.borealnet.org/> (Conservation group)
Boreal Science, <http://www.borealscience.on.ca/> (Ontario Ministry of Natural Resources)
Gawthrop, *Vanishing Halo: saving the boreal forest*, 1999
Hansson, *Boreal Ecosystems and Landscapes: structures, processes and conservation of biodiversity*, 1997
Shugart, *A Systems Analysis of the Global Boreal Forest*, 1992

ECOSYSTEMS: THE TUNDRA

Arctic Circle, <http://arcticcircle.uconn.edu/> (Directory & resources from U. of Connecticut)
International Permafrost Association, <http://www.geodata.soton.ac.uk/ipa/> (U. of Southampton)
National Information Services Corporation, *Arctic & Antarctic Regions* (Bibliographic database 1800 to present, updated twice a year)
Nuttall & Callaghan, *The Arctic: environment, people, policy*, 2000
Wielgolaski, *Polar and Alpine Tundra*, 1997
Woodin & Marquiss, *Ecology of Arctic Environments*, 1997
Woo & Gregor, *Arctic Environment: past, present & future*, 1992
Zwinger, *Land Above the Trees: a guide to American alpine tundra*, 1996

ECOSYSTEMS: WETLANDS

Cronk, *Wetland Plants: biology and ecology*, 2001
Freshwater Wetlands, <http://www.botgard.ucla.edu/html/botanytextbooks/worldvegetation/fwaterwetlands/index.html>
Gopal et al, *Biodiversity in Wetlands: assessment, function and conservation*, 2000
Keddy, *Wetland Ecology: principles and conservation*, 2000
Majumdar et al, *Ecology of Wetlands and Associated Systems*, 1998
Mitsch, *Global Wetlands: old world and new*, 1994
Mitsch, *Wetlands*, 3rd, 2000
Tiner, *Wetland Indicators: a guide to wetland identification, delineation, classification and mapping*, 1999

GENERAL PROCESSES: AQUATIC

American Society of Limnology and Oceanography, <http://www.aslo.org/>
Centre for Ecology and Hydrology, <http://www.ceh.ac.uk/>
Financial Data for Water Companies, <http://www.awwa.org/quotes.htm>

Groundwater.com, <http://www.groundwater.com/> (Directory, resources)
History of Oceanography links, <http://www.lib.noaa.gov/docs/windandsea4.html#Historyoce> (NOAA)
History of Oceanography Resources, <http://scilib.ucsd.edu/sio/archives/histoceanogr/> (Scripps)
Maritime History on the Internet, <http://ils.unc.edu/maritime/home.shtml>
Nathanson, *Basic Environmental Technology: Water Supply, Waste Management and Pollution Control*, TD145.N38 1997
Outwater, *Water: A Natural History*, GB-701.O88 1996
United States Water News, <http://www.uswaternews.com/homepage.html>
van der Leeden, *The Water Encyclopedia*, TD351.V36 1990
The Water Cycle, <http://earthobservatory.nasa.gov/Library/Water/> (NASA)
Water Librarians' Homepage, <http://www.interleaves.org/~rteeter/waterlib.html> (Directory of links)
Water on the Web, <http://wow.nrri.umn.edu/wow/index.html> (U. of Minnesota)
Water Words Dictionary, <http://www.state.nv.us/cnr/ndwp/dict-1/ww-index.htm> (Nevada Division of Water Planning)
Yahoo! Hydrology links, http://dir.yahoo.com/Science/Earth_Sciences/Hydrology/

DRINKING WATER

Drinking Water Basics, <http://www.epa.gov/safewater/dwhealth.html> (Environmental Protection Agency)
Water and Sanitation, http://www.who.int/water_sanitation_health/ (World Health Organization)

GLACIERS

Glacier, <http://www.glacier.rice.edu/> (Rice U.)
World Glacier Monitoring Service, <http://www.geo.unizh.ch/wgms/>

GENERAL PROCESSES: ATMOSPHERIC

Barry & Chorley, *Atmosphere, Weather, and Climate*, 7th ed., 1998
Eureka Alert Atmospheric Sciences, <http://www.eurekaalert.org/bysubject.php?kw=10>
Felton, *California's Many Climates*, QC984.C2F4
Hildore, *Climatology: an Atmospheric Science*, 1993
History of Meteorology, <http://www.lib.noaa.gov/docs/windandsea4.html#Historyof> (NOAA)
Landsberg general ed., *World Survey of Climatology* (A multivolume series begun in 1969)
McGuffie, *Climate Modeling Primer*, 2nd, QC981.M482 1996
National Center for Atmospheric Research, <http://www.ncar.ucar.edu/ncar/>
Schneider, *Encyclopedia of Climate and Weather*, QC-854.E523 1996 v. 1 & 2

CLIMATE CHANGE

Climatology and Paleoclimatology Resources, <http://stommel.tamu.edu/~baum/climatology.html> (Texas A & M U.)
NOAA Paleoclimatology Program, <http://www.ngdc.noaa.gov/paleo/>
Scheider, *Climate Change Policy: a survey*, 2001

METEOROLGY

Meteorology Glossary, <http://www.geog.ubc.ca/courses/geog102/Resources/G102Glossary.html> (U. of British Columbia)
The Weather Channel, <http://www.weather.com/> (Cable TV channel's website)
Yahoo! Meteorology links, http://dir.yahoo.com/Science/Earth_Sciences/Meteorology/

GENERAL PROCESSES: GEOLOGY

Birkeland, *Soils & Geomorphology*, 3rd ed., 1999
Geo Clio: webserver for the history of geology and the earth sciences, <http://geoclio.st.usm.edu/> (U. Southern Mississippi)
GeoTimes, <http://www.geotimes.org/current/> (American Geological Institute)
Illustrated Glossary of Geologic Terms, http://www.ge-at.iastate.edu/courses/Geol_100/glossary.html (IA State U.)
Keller, *Environmental Geology*, 7th, 1995
McPhee, *Assembling California*, QE89.M37 1993
National Geophysical Data Center, <http://www.ngdc.noaa.gov/>
Plate Tectonics, <http://www.ucmp.berkeley.edu/geology/tectonics.html> (Animations by UC Berkeley Museum of Paleontology)
Tarbuck, *Earth : an introduction to physical geology*, QE--28.2.T37 1996
Trefethen, *Geology for Engineers*, 2nd, QE--33.T7

EARTHQUAKES

Bolt, *Earthquakes*, QH534.2.B64 1993
Cal Tech Seismological Laboratory, <http://www.gps.caltech.edu/seismo/seismo.page.html>
Recent Earthquakes in California, <http://quake.wr.usgs.gov/renteqs/> (Updated hourly)
SeismoSurfing, <http://www.geophys.washington.edu/seimosurfing.html> (Directory)
Tremulus: a guided tour to paleoseismology, <http://tremulus.free.fr/>
Up-To-the-Minute Southern California Earthquake Map, <http://www.crystal.ucsb.edu/scec/webquakes/>
USGS Earthquake Hazards Program, <http://earthquake.usgs.gov/>
Yanev, *Peace of Mind in Earthquake Country*, TH1095.Y36 1990

NATURAL HISTORY ART & LITERATURE

California Natural History Guides, a series of books published by the U. of California Press, various call numbers

American Nature Writing (anthology published annually by Sierra Club Books / U. of Oregon Press)

Coates, *Nature: Western Attitudes Since Ancient Times*, QH--81.C59 1998

Gilbar, *Natural State: a Literary Anthology of California Nature Writing*, QH105.C2N425 1998

Google Medical & Scientific Illustration links,

http://directory.google.com/Top/Arts/Illustration/Specialized/Medical_and_Scientific/

Gould, *Ever Since Darwin : Reflections in Natural History*, QH-361.G65 1977

Knight, *Natural Science Books in English 1600-1900*, 1972

Mabey, *Oxford Book of Nature Writing*, QH--81.O97 1995

Mitman, *Reel Nature: America's romance with wildlife on film*, 1999 (Historical survey of the genre)

Natural History Museums and Collections, <http://www.lib.washington.edu/sla/natmus.html>

Royte, *The Tapir's Morning Bath: mysteries of the tropical rain forest and the scientists who are trying to solve them*, 2001

Schoenherr, *Natural History of California*, QH105.C2S36 1992

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