

The Living Planet bibliography

Reference

Few subjects, if any, come bigger than of the ecological crisis, its roots, its dimensions, the science, the economics, the politics and so forth. An invaluable aid is the reference work that provides reliable and understandable explanations of related terms and concepts. Fortunately there are some outstanding ones available.

Callenbach, E. (1998). **Ecology: A Pocket Guide**. Univ. California Pr. A short little guide but big on ideas.

Harrison, P. & F. Pearce (2001). **AAAS Atlas of Population and Environment**. Univ. California Pr.

Krech, S. et al, eds. **Encyclopaedia of World Environmental History**. Routledge. Multi-author A-Z glossary which covers not only history but geography and much more, straddling three volumes but with little surplus fat.

Miller, G. Tyler (2003). **Living in the Environment**. Brooks Cole. A great single volume overview that has seen many editions, amazingly each one has been better than the last.

Ecology of a Life-Nurturing Planet: Overview

Bailey, R. (1997). **Ecoregions: The Ecosystem Geography of the Oceans and Continents** Springer-Verlag

Bates, M. (1961). **The forest and the sea: A study of the economy of nature and the ecology of man** Museum Pr. A true 'oldie but goldie', one which captures the essence of the matter much better than more up-to-date textbooks.

Bongaarts, J. & R. A. Bulatao, eds. (1997). **Nature & Human Society: The Quest for a Sustainable World**. National Academy Pr.

Bonner, J. T. (2006). **In the Beat of a Heart: Life, Energy, and the Unity of Nature** Princeton Univ. Pr.

Bunyard, P. ed. (1996). **Gaia in Action: The Science of the Living Earth**. Floris Books.

Capra, F. (1996). **The Web of Life**. Vintage. See also his more recent book **The Hidden Connections** (Anchor books, 2003).

Daily, G., ed. (1997). **Nature's Services: Societal Dependence on Natural Ecosystems**. Island Pr.

Ehrlich, P. (1988). **The Machinery of Nature**. Paladin. A short, very readable guide to the 'rules of the game': how life on Earth is maintained, its rather mechanical title notwithstanding.

Forman, R.T.T. (1995). **Land Mosaics: The Ecology of Landscapes & Regions**.

Cambridge UP.

Goldsmith, E. (1988). 'Gaia: Some Implications for Theoretical Ecology'. *The Ecologist*, 18(2): 64-74. Argues the importance of 'holism'.

Levin, S. (2000). **Fragile Dominion: Complexity & the Commons**. Perseus.

Lewin, R. (2000). **Complexity: Life at the Edge of Chaos, 2nd Edition**. Chicago UP.

Lovelock, J. (1979). **Gaia: a New Look at Life on Earth**. OUP. New light on the life sciences, arguing the Earth can best be understood as a self-regulating whole.

Mayr, E. (2001). **What Evolution Is**. Basic Books.

Mosquin, T. (originally 1994). **The Roles of Biodiversity in Creating and Maintaining the Ecosphere**. Posted @

<http://www.ecospherics.net/pages/MosqEcoFun5.html>

Odum, E. (1969). 'The Strategy of Ecosystem Development'. **Science** 164: 262-270. A classic study of the changes in ecosystems from immature growth to a mature and comparatively stable equilibrium, a process with which most human land uses clash. Though conservationists are frequently attacked for wanting to freeze 'change' and artificially preserve nature in mothballs, Odum shows that it is activities like mining, agriculture and manufacturing that keep environmental systems at a simplified and unstable state.

Rowe, S. & B. Barnes (1994). 'Geo-ecosystems and Bio-ecosystems'.

Bulletin of the Ecological Society of America, 75(1), March, 1994: 40-41.

Schneiderman J. S., ed. (2003). **The Earth Around Us: Maintaining a Liveable Planet**. Westview.

Simmons, I.G. (1993). **Environmental History: A Concise Introduction**. Basil Blackwell.

Ecology of a Life-Nurturing Planet: Life-Support Systems

(See also section on Ecoruination: 'Biodevastation'—General Losses of Biodiversity)

Abramovitz, J. (1998). 'Putting a 'Value' on Nature's 'Free Services'.

WorldWatch. 11(1): 10-19. Not just the means of production but also the conditions for production, taken for granted but now being lost, for which there is no technological substitute and without which no kind of economy of any kind can survive.

Boskin, Y. (1997). **The Work of Nature**. Island Pr.

Daily, G. C., et al (1997). 'Ecosystem Services: Benefits Supplied to Human Societies by Natural Ecosystems.' **Issues in Ecology** 2. Posted @

<http://www.ecology.org/biod/value/EcosystemServices.html>

Daily, G. C., ed. (1997). **Nature's Services: Societal Dependence on Natural Ecosystems**, Island Pr.

Ecological Society of America (1997). **Ecosystem Services: benefits Supplied to Human Societies by natural Ecosystems**. ESA. Posted @ http://www.esa.org/science_resources/issues/FileEnglish/issue2.pdf See also:

Biodiversity and Ecosystem Functioning: Maintaining Natural Life Support Processes

http://www.esa.org/science_resources/issues/FileEnglish/issue4.pdf

Iltis, H. et al (1970). 'Criteria for an Optimum Human Environment'. **Bulletin Atomic Scientists**, Jan.: 2-6.

Odum, E. (1989). **Ecology & Our Endangered Life-Support Systems**. Sinauer.

Pimentel, D., et al. (1980). 'Environmental Quality and Natural Biota'.

Bioscience, 30(11): 750-755.

Smil, V. (2003). **Earth's Biosphere: Evolution, Dynamics and Change**. MIT

Pr.

Thorne-Miller, B. & J. Catrena (1999). **The Living Ocean: Understanding and Protecting Marine Biodiversity** Island Pr.

Various (2005). **Ecosystems and Human Well-being (Millennium Ecosystem Assessment)** Island Pr. Summarised in C. Corvalen (2006). **Ecosystems and Human Well-being, Health Synthesis** WHO

Whitfield, J. (2006). **In the Beat of a Heart: Life, Energy, and the Unity of Nature** Nat. Academy Pr.

See also:

Costanza, R., et al (1997). 'The Value of the World's Ecosystem Services & Natural Capital.' *Nature* 387:253-260. Posted @

http://www.uvm.edu/giee/publications/Nature_Paper.pdf

Daly, H. E. (1998). 'The return of Lauderdale's paradox'. *Ecological Economics* 25:21-23. Essential reading for those trying to understand the implications of the Costanza et al. paper in *Nature* estimating the value of the world's ecosystem services at \$33 trillion. Posted @

<http://www.steadystate.org/Daly-Lauderdale-Paradox.pdf>

<http://www.actionbioscience.org/environment/esa.html> good summary

Ecology of a Life-Nurturing Planet: Case Studies of Specific Ecosystems: Atmosphere

Walker, G. (2007) **An Ocean of Air: A Natural History of the Atmosphere.** Bloomsbury.

Ecology of a Life-Nurturing Planet: Case Studies of Specific Ecosystems: Soil & Plants

Berling, D. (2007). **The Emerald Planet: How Plants Changed Earth's History** OUP.

Hillel, D. (1992). **Out of the Earth: Civilisation and the Life of the Soil.** Aurum Pr.

Logan, W. (2007). **Dirt: The Ecstatic Skin of the Earth.** Norton.

Morton, O. (2007). **Eating the Sun: How Plants Power the Planet.** Fourth Estate.

Tuxill, J. (1999). **Nature's Cornucopia: Our Stake in Plant Diversity.** Worldwatch Report.

Ecology of a Life-Nurturing Planet: Case Studies of Specific Ecosystems: Forests

Bormann, F. H. (1976). 'An Inseparable Link: Conservation of Natural Ecosystems & the Conservation of Fossil Fuels'. *Bioscience* 26(12); 754-760. Strong explanation of ecosystem dynamics and the life-support they provide, with particular reference to forests.

Maser, C. (2001). **Forest Primeval.** UBC Pr. Case study of Oregon's forests but of general relevance.

Molion, L. (1989). 'The Amazonian Forests and Climatic Stability'. *The Ecologist*, 19(6): 211-213.

Myers, N. (1984). **The Primary Source: Tropical Forests and Our Future**. Norton.

Petherick, T. (2005). **Trees That Shape the World**. Quadrille Pr.

Roberts, J. (2004). **Mythic Woods; The World's Most Remarkable Forests**. Weidenfeld Nicolson

Sharma, D. (2005). 'Tsunami, Mangroves and the Market Economy'. *Synthesis*, 37, Spring. In passing considers role of mangrove swamps. Posted @ <http://www.greens.org/s-r/37/37-16.html>

Tudge, C. (2006). **The Secret Life of Trees: How They Live and Why They Matter**. Penguin.

See also various books by Oliver Rackham and Thomas Pakenham

Ecology of a Life-Nurturing Planet: Case Studies of Specific Ecosystems: Wetlands, Rivers & Coastal ecosystems

Anon (1997). **Coral Reefs: Valuable but Vulnerable**. Wildlife Trusts/WWF. Short booklet. Hellier, C. (1988). 'The Mangrove Wastelands'. *The Ecologist*, 18(2), 1988: 77-79. A good case study of what many economists might think worthless but what priceless parts of the real economy, that of Nature.

Maltby, E. (1986). **Waterlogged Wealth**. Earthscan. Why wetlands are anything but wastelands and how they are being destroyed.

Palmer, T. (1994). *Lifelines: The Case for River Conservation*. Island Pr.

Rezendes, P. & P. Roy (1996). **Wetlands: The Web of Life**. Sierra Books.

Shilts, E. (n.d.). **Canada's wetlands**. Canadian Geographic special pamphlet. Cases study of wetlands as nature's kidneys, carbon sinks and nurseries

Ecology of a Life-Nurturing Planet: Indicators of Ecological 'Health'

Costanza, R, et al, eds. (1993). **Ecosystem Health**. Earthscan

Frest, T. (2002). 'Native snails: Indicators of Ecosystem Health. *Wild Earth*, Summer: 44-50.

Woodwell, G. M. (1970). 'The effects of pollution on the structure & physiology of ecosystem'. *Science*, 168: 429

Ecosystems & Biodiversity.

Baskin, Y. (1997). **The Work of Nature. How the Diversity of Life Sustains Us**. Island Press.

Benjamin, A. & B. McCallum (2008). **World Without Bees**. Guardian Books. The role of bees in pollination well illustrates the connected nature of life-support systems. The decline of bee populations due to over-intensive honey production, pollution and other human forces demonstrates the consequences of messing with Mother Nature.

Ehrlich, P. & A. Ehrlich (1982). **Extinction: Causes & Consequences of Disappearing Species**. Gollancz. See also Ehrlich, P. (1980). 'Variety is the Key to Life'. *Technology Review*, March/April; 59-68.

Ehrlich, P. (1982). 'Human Carrying capacity, Extinctions, & Nature reserves'. ***Bioscience***, 32(5), May: 331-333.

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Loreau, M. et al, eds. (2002). *Biodiversity and Ecosystem Functioning: Synthesis and Perspectives*. OUP.

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Odum, E. & H. Odum (1972). 'Natural Areas as Necessary Components of Man's Total Environment'. ***Trans. North American Wildlife Conf.***: 178-189.

Tuxill, J. (1999). **Nature's Cornucopia: Our Stake in Plant Diversity**. Worldwatch Report.

Wilson, E. (1987). 'The Little Things That Run the World: the Importance & Conservation of invertebrates'. ***Conservation Biology***, 1(4): 344-346.

See also:

<http://www.tc-biodiversity.org/Indexpage1.htm> website of the journal ***Biodiversity***.

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