

NORMAN MYERS, CMG

Curriculum Vitae

Born: August 24th 1934 at Whitewell, Yorkshire, U.K.

Address: Upper Meadow, Douglas Downes Close, Quarry Road,
Headington, Oxford OX3 8FS, U.K.
Tel. (44) (1865) 750387, fax (44) (1865) 741538
E-mail: myers1n@aol.com

Degrees: B.A. 1958, and M.A. 1963, University of Oxford
Ph.D., 1973, University of California, Berkeley
Honorary Science Degree, University of Kent, 2003

Career: 1972-present, consultancy projects for research organizations and development agencies such as the U.S. National Academy of Sciences, World Resources Institute, the White House, U.S. Departments of State, Defense and Energy, the World Bank, United Nations agencies, OECD, IPCC, European Commission, Shell and McKinsey, and the Rockefeller and MacArthur Foundations.
(1970-71, University of California at Berkeley, for Ph.D.)
1966-69, freelance author and journalist, professional photographer, lecturer and broadcaster on African wildlife
1961-65, high school teacher, Nairobi, Kenya
1958-61, District Officer, Kenya Administration

Professional Specializations:

Environment & Development, with emphasis on intersectoral analyses.

Main areas of expertise:

systems ecology and ecosystem management;
mass extinction;
biodiversity, genetic resources;
resource economics, cost-benefit analysis of environment;
tropical forests, savannahs and grasslands;
population, consumption and poverty;
environmental security, including environmental refugees;
sustainable development, new-growth economics.

Travel and Field Experience:

Research consultancies and projects in 40-plus countries. Extensive experience throughout Europe and North America, plus Japan and Australia, and in all three main regions of the developing world.

Extended Appointments:

Fellow, James Martin 21st Century School, Oxford University
Adjunct Professor, Nicholas School of the Environment, Duke University
James Marsh Professor at Large, University of Vermont
External Fellow, Institute for Science & Civilization, Said Business School, Oxford University
Honorary Visiting Fellow, Green College, Oxford University
Visiting Professor, School of Environment, Oxford University
Visiting Professor, Oxford Brookes University
White Professor at Large, Cornell University
Visiting Professor and Chair in International Environment, University of Utrecht
Visiting Professor and Research Chair in Environment, University of Kent
Visiting Professor, University of Cape Town
Member, Global Council, World Resources Institute
Ambassador and Fellow, World Wide Fund for Nature/UK
Senior Fellow, Redefining Progress, San Francisco
Research Fellow, Conservation International, Washington DC
Faculty Member, SustainAbility Ltd., London
Scientific Fellow, Wildlife Conservation Society, New York
Scientific Advisor, Royal Geographic Society, London
Scientific Advisor, Japan Ecology Foundation, Tokyo
International Advisory Council, Auroville Foundation, India
Research Associate, International Institute for Sustainable Development, Winnipeg, Canada
Corporate Scientific Adviser, British Steel
Research Associate, Stockholm Environment Institute
Visiting Fellow, World Sustainability Institute, Japan
Member of High Level Advisory Group advising the World Trade Organization

Board of Directors, Trustees or Advisers:

Center for Environmental Leadership in Business, Washington DC; Pacific Center for International Studies, San Francisco; Centre for Russian Environmental Policy, Moscow; Center for Conservation Biology, Stanford University; Center for a New American Dream, Maryland; Appropriate Technology Association, Delhi; New Forests Project, Washington DC; Sustainable Forestry Management, London; Sustainable Population Policy for the United States, Washington DC. Population Media Center, Vermont.

Patron: Optimum Population Trust, London; World Rainforests Survival Trust, London; Rainforest Foundation, London; Responsible Forestry Programme, Bristol; The Climate Outreach and Information Network, Oxford.

Board of Editors :

Numerous journals, including Global Environmental Change; Biodiversity and Conservation; Ecological Economics; The Environmentalist; Environmental Conservation; Environment, Development and Sustainability; Ecoscience; World Forest Resource Management; Forest Ecology and Management; Futures.

Professional Affiliations (short selection):

American Association of Environmental & Resource Economists; American Institute of Biological Sciences; World Environment Directory; Directorate of African Demographers; Debretts Distinguished People of Today; Who's Who.

Awards/Honours

Companion, Order of St. Michael and St. George, Queen's Honours 1998
Foreign Associate, U.S. National Academy of Sciences
Fellow, American Association for the Advancement of Science
Fellow, World Academy of Art and Science
Fellow, Linnean Society of London
Fellow, Royal Society of Arts, London
Pew Fellow in Environment (second British scientist to be appointed)
Volvo Environment Prize (first British scientist to receive it)
UNEP Environment Prize (first British scientist to receive it)
Blue Planet Prize (second British scientist to receive it)
Global 500 Roll of Honour, United Nations Environment Programme
Gold Medal, World Wildlife Fund International
Order and Knight of the Golden Ark, Netherlands
Gold Medal, New York Zoological Society
Conservation Medal, San Diego Zoological Society
Distinguished Achievement Award, Society for Conservation Biology
Special Achievement Award, Sierra Club
Conservation Achievement Award, National Wildlife Federation
Premio Internazionale Gaia per la Cultura dell'Ambiente, Italy
Achievement Award of The Christophers, New York, for writers who
 "significantly contribute to the betterment of humankind"
Haas International Alumnus Award, University of California/Berkeley
Honorary Science Degree, University of Kent
Liveable City Award, City of London

Academic Appointments

Hitchcock Professor, Regents Professor, Albright Lecturer and Commencement Lecturer,
 University of California, Berkeley
Regents Professor, University of California, San Diego and Santa Barbara
Boething Lecturer, Stanford University
George Gamow Lecturer, University of Colorado
Eugene Odum Lecturer, University of Georgia
Gilbane Presidential Lecturer, Brown University
Distinguished Visiting Fellow, Harvard University
Beatty Lecturer, McGill University
Prince Philip Presidential Lecturer, Royal Society of Arts
Distinguished Visiting Scholar, MacArthur Foundation
Rajiv Gandhi Memorial Lecture, India

Publications

300 professional papers in scientific journals such as Science, Nature, Foreign Policy, Scientific American, BioScience, American Scientist, Climatic Change, Population and Development Review, Forest Ecology and Management, Technology Review, Journal of Environmental Economics & Management, and International Journal of Social Economics.

NORMAN MYERS' BOOKS

(over one million copies in twelve languages)

- 1972 The Long African Day. MacMillan (three printings).
- 1979 The Sinking Ark. Pergamon Press (three printings, four translations).
- 1980 Conversion of Tropical Moist Forests (report to National Academy of Sciences). National Research Council, Washington DC.
- 1983 A Wealth of Wild Species. Westview Press (four book clubs and two science awards).
- 1984 The Primary Source: Tropical Forests and Our Future. Norton (second edition 1985, third enlarged edition 1992).
- 1984 The Gaia Atlas of Planet Management. Pan Books and Doubleday (twelve translations; fully revised and expanded editions, 1993).
- 1985 (ed. with D.O. Hall and N.S. Margaris) Economics of Ecosystem Management. W. Junk Publishers.
- 1990 The Gaia Atlas of Future Worlds: Challenge and Opportunity in an Age of Change. Doubleday and Robertson McCarta.
- 1991 Population, Resources and the Environment: The Critical Challenges. United Nations Population Fund, New York (French and Spanish translations, 1991).
- 1992 (ed.) Tropical Forests and Climate. Kluwer Academic Publishers.
- 1993 & 1996 Ultimate Security: The Environmental Basis of Political Stability. Norton & Island Press, (Chinese translation, 2001).
- 1994 (with Julian Simon) Scarcity or Abundance: A Debate on the Environment. Norton (Italian translation, 1995).
- 1995 (with Jennifer Kent) Environmental Exodus: An Emergent Crisis in the Global Arena. The Climate Institute, Washington D.C. (Italian translation, 1999).
- 1998 (with Jennifer Kent) Perverse Subsidies. International Institute for Sustainable Development, Winnipeg, Canada (Italian translation, 2000).
- 1999 (with R.A. Mittermeier, P.R. Gil and C.G. Mittermeier)--Hotspots: Earth's Biologically Richest and Most Endangered Terrestrial Ecoregions. CEMEX, Monterrey, Mexico (distributed outside Mexico by the University of Chicago Press).
- 1999 Towards a New Greenprint for Business and Society. Tachibana Publishing Inc. (in Japanese; Korean translation, 2000).
- 2001 (with Jennifer Kent) Perverse Subsidies: How Tax Dollars Undercut the Environment and the Economy. Island Press.
- 2004 (with Jennifer Kent) New Consumers: The Influence of Affluence on the Environment. Island Press (Italian and Japanese translations, 2005).
- 2005 (with Jennifer Kent) The New Gaia Atlas of Planet Management. Gaia Books and University of California Press.
- 2008 (with Jennifer Kent) Institutional Roadblocks: Why Policy Processes Often Fail to Deliver. (in press).
- 2009 (with Jennifer Kent) Forced Migration: The Environmental Underpinnings. Swedish International Development Authority, Stockholm (in prep).

Norman Myers: select publications

1971--Wildlife and Development in Uganda. Bioscience 21: 1071-5.

1972a--National Parks in Savannah Africa. Science 173: 1255-63.

1972b--A Preliminary Appraisal of the Ecological and Socioeconomic Consequences of a Proposed Tourist Development of Kenya's South Coast. Report to the World Bank, Nairobi, Kenya.

1973a--The Masai: Modernizing the Myth. Association of Pacific Coast Geographers Yearbook 35: 147-164.

1973b--The Spotted Cats: In Danger--or in Danger of Danger? In: The World's Cats, Ecology and Conservation, ed. R.L. Eaton, Vol. I: 276-320. World Wildlife Safari, Winston, Oregon, U.S.A.

1973c--Status of the Leopard and Cheetah in Africa and of the Jaguar and Ocelot in the Amazon. In N. Sitwell, ed., Cats of the World: 16-27. Tom Stacey Ltd., London, U.K.

1973d--National Parks and Land-Use Planning. Ekistics 36(214): 223-229.

1973e--Leopard and Cheetah in Ethiopia. Oryx 12(2): 197-205.

1974a--The Ecologic-Socioeconomic Interface of Wildlife Conservation in Emergent Africa: Lakes Nakuru and Naivasha in Kenya. Journal of Environmental Economics and Management 1: 319-334.

1974b--Institutional Inputs for Cheetah Conservation in Africa. Transactions of 39th North American Wildlife and Natural Resources Conference: 323-328.

1975a--The Whaling Controversy. American Scientist 63(4): 448-455.

1975b--The Tourist as an Agent for Development and Wildlife Conservation: The Case of Kenya. International Journal of Social Economics 2(1): 26-42.

1975c--The Cheetah Acinonyx jubatus in Africa. IUCN Monograph No. 4. International Union for Conservation of Nature and Natural Resources, Morges, Switzerland.

1976a--An Expanded Approach to the Problem of Disappearing Species. Science 193: 198-202.

1976b--China's Approach to Environmental Conservation. Environmental Affairs 5(1): 33-63.

1976c--The Leopard Panthera pardus in Africa. IUCN Monograph No.5. IUCN, Morges, Switzerland.

1977a--The Cheetah in Africa Under Threat. Environmental Affairs 5(4): 617-647.

- 1977b--The Cheetah's Relationships to the Spotted Hyena: Some Implications for a Threatened Species. In R.H. Phillips and C. Jonkel, eds., Proceedings of the 1975 Predator Symposium (American Society of Mammalogists): 191-200.
- 1977c--Discounting and Depletion: The Case of Tropical Moist Forests. Futures 9(6): 502-509.
- 1978a--Wildlife of Savannah and Grasslands: A Common Heritage of the Global Community. In E. Schofield, ed., Proceedings of Earthcare Conference: 385-409. Westview Press, Boulder, Colorado, U.S.A.
- 1978b--What Use is Wildlife? Earthscan Briefing Document 11. Earthscan, London, U.K.
- 1978c--The Global Problem of Tropical Deforestation. Keynote paper in Proceedings of U.S. Strategy Conference on Tropical Deforestation: 19- 22. Department of State, Washington D.C., U.S.A.
- 1978d--Institutional Inputs for Conservation of the World's Cats. The World's Cats 3: 74-76.
- 1980a--Tropical Biomass Systems. In L.E. St.-Pierre and G.R. Brown, eds., Future Sources of Organic Raw Materials: 343-354. Pergamon Press, New York, U.S.A.
- 1980b--Bio-Energy for Kenya: Some Technical Possibilities. In Energy and Environment in East Africa: 250-258. United Nations Environment Programme, Nairobi, Kenya.
- 1980c--Present Status and Future Prospects of Tropical Moist Forests. Environmental Conservation 7(2): 101-114.
- 1980d--Playing God to Save Diversity. Technology Review 82(5) 62-63.
- 1980e--Multinational Timber Corporations and Tropical Forests. Council for Economic Priorities, New York, U.S.A.
- 1980f--Bailing Out the Ark. BioScience 30(8): 553-556.
- 1980g--What Future for Amazonia? Americas 32(10): 18-25.
- 1980h--The Problem of Disappearing Species: What Can Be Done? Ambio 9(5): 229-235.
- 1981a--The Exhausted Earth. Foreign Policy 42: 141-155.
- 1981b--The Hamburger Connection: How Central America's Forests Become North America's Hamburgers. Ambio 10(1): 3-8.
- 1981c--Conservation Needs and Opportunities in Tropical Moist Forests. In H. Synge, ed., The Biological Aspects of Rare Plant Conservation: 141-154. John Wiley, Chichester, U.K.
- 1981d--Corn Genes and Big Dollars. Technology Review 84(2): 8-9, 64.
- 1981e--Conserving Marine Genetic Resources in Protected Areas. In Conserving the Natural Heritage of Latin America and the Caribbean: 42- 51. International Union for Conservation of

Nature and Natural Resources, Gland, Switzerland.

1981f--The Leopard in Africa: Biological and Cultural Realities. International Journal for Study of Animal Problems 2(1): 5-6.

1981g--Corporate Destruction of Tropical Forests. Business and Society Review 39: 9-13.

1981h--Tropical Forests as Sources of Pharmaceuticals and Industrial Products. Tropical Silviculture (publication of International Union of Forest Research Organizations) 4: 1-6.

1981i--Non-Market Values of Tropical Forests: Species. In C.F. Jordan, ed., Benchmark Papers in Tropical Ecology. Academic Press, New York, U.S.A.

1982a--Deforestation in the Tropics: Who Gains, Who Loses? Studies in Third World Societies 13: 1-24.

1982b--Conversion Rates in Tropical Moist Forests. In F.B. Golley, H. Lieth and M.J.A. Werger, eds., Tropical Rain Forest Ecosystems: 289-300. Elsevier Publishing Company, Amsterdam, Netherlands.

1982c--Conservation of Rain Forests for Scientific Research, for Wildlife Conservation, and for Recreation and Tourism. In F.B. Golley, H. Lieth and M.J.A. Werger, eds., Tropical Rain Forest Ecosystems: 325-334. Elsevier Publishing Company, Amsterdam, Netherlands.

1982d--(with Dorothy M. Myers) From The "Duck Pond" to the Global Commons: Increasing Awareness of the Supranational Nature of Emerging Environmental Issues. Ambio 11 (4): 195-201.

1982e--Room in the Ark? Bulletin of the Atomic Scientists 38(9): 44-48.

1982f--The Theory of Pleistocene Forest Refugia and Its Implications for Conservation in Africa and Other Parts of the Tropics. In G.T. Prance, ed., The Biological Model of Diversification in the Tropics: 658-672. Columbia University Press, New York, U.S.A.

1983a--The Carbon Dioxide Connection. Journal of Social and Biological Structures 6: 17-28.

1983b--Tropical Moist Forests: Over-Exploited and Under-Utilized? Forest Ecology and Management 6: 59-79.

1983c (with E.S. Ayensu)--Reduction of Biological Diversity and Species Loss. Ambio 12(2): 72-74.

1983d (with Dorothy M. Myers)--How The Global Community Can Respond to International Environmental Problems. Ambio 12(1): 20-26.

1983e--Depletion of Tropical Moist Forests: A Comparative Review of Rates and Causes in the Three Main Regions. Acta Amazonica 12(4): 745- 758.

1983f--A Priority-Ranking Strategy for Threatened Species? The Environmentalist 3: 97-120.

1983g--(with Paul R. Ehrlich and 18 others) Long-Term Biological Consequences of Nuclear

War. Science 222: 1293-1300.

1983h--The Tropical Forest Issue. In T. O'Riordan and R.K. Turner, eds., Resource Management and Environmental Planning 4: 1-28.

1984a--Wild Genetic Resources. Impact of Science on Society (UNESCO) 34(4): 327-334.

1984b--Genetic Resources in Jeopardy. Ambio 13(3): 171-174.

1984c--Problems and Opportunities in Habitat Conservation. In A.V. Hall, ed., Conservation of Threatened Natural Habitats: 1-15. South African National Scientific Programmes, Pretoria, South Africa.

1984d--The Eternal Values of the Parks Movement and the Monday Morning World. In J.A. McNeely and K.R. Miller, eds., National Parks, Conservation and Development: The Role of Protected Areas in Sustaining Society: 656-660. Smithsonian Institution, Washington D.C., U.S.A.

1985b (with K.R. Miller and five others)--Issues in the Preservation of Biological Diversity. In R. Repetto, The Global Possible: Resources, Development and the New Century: 337-362, Yale University Press, New Haven, Connecticut, U.S.A.

1985c (with J.M. Melillo and three others)--A Comparison of Recent Estimates of Disturbance in Tropical Forests. Environmental Conservation 12: 37-40.

1985d (with R.A. Houghton and six others)--Net Flux of Carbon Dioxide from Tropical Forests in 1980. Nature 316: 617-620.

1985e--Causes of Loss of Biological Diversity. Office of Technology Assessment, U.S. Congress, Washington D.C., U.S.A.

1985f--Tropical Deforestation and Species Extinctions: The Latest News. Futures 17: 451-463.

1985g--Forests and Environment. In J.T. Kikhonen, ed., Managing Global Issues: 88-97. University of Helsinki Press, Finland.

1985h--The Global Possible: What Can Be Gained? In R. Repetto, ed., The Global Possible: Resources, Development and the New Century: 477-490. Yale University Press, New Haven, Connecticut, U.S.A.

1985i—The End of the Lines. Natural History 94: 2,5,12.

1986a--Environmental Repercussions of Deforestation in the Himalayas. Journal of World Forest Resource Management 2: 63-72.

1986b--Tropical Forests: An Overview Assessment, With Impacts on Extinctions. In M.E. Soule, ed., Conservation Biology: Science of Scarcity and Diversity: 394-409. Sinauer Associates, Sunderland, Massachusetts, U.S.A.

1986c--Forestland Farming in Western Amazonia: Stable and Sustainable. Forest Ecology and Management 15: 81-93.

1986d--Biological Resources of the Tropics. In V.L. Chopra and T.N. Khoshoo, eds., Conservation for Productive Agriculture: 1-10. Indian Council of Agricultural Research, New Delhi, India.

1986e--Long-Term Impacts of a Nuclear Exchange on the Biosphere in Britain. In Civil Survival: 101-126. Blackwell Books, Oxford, U.K.

1986f (with J. Molofsky and C.A.S. Hall)--A Comparison of Tropical Forest Surveys. Carbon Dioxide Program, Department of Energy, Washington D.C., U.S.A.

1986g--Tree Crop-Based Agroecosystems in Java. Forest Ecology and Management 17: 1-12.

1986h--Economics and Ecology in the International Arena: The Phenomenon of "Linked Linkages". Ambio 15: 296-300.

1986i--The Environmental Dimension to Security Issues. The Environmentalist 6: 251-256.

1986j--Monitoring of Tropical Forests: The Role of Remote Sensing. Smithsonian Tropical Research Institute, Bilbao, Panama.

1987a--Tackling Mass Extinction of Species: A Great Creative Challenge. Albright Lecture in Conservation, University of California, Berkeley, California, U.S.A.

1987b--Not Far Afield: U.S. Interests and the Global Environment. World Resources Institute, Washington D.C., U.S.A.

1987c (with R. Tucker)--Deforestation in Central America: Spanish Legacy and North American Consumers. Environmental Review 11(1): 55-71.

1987d--Tropical Forests: Patterns of Depletion. In G.T. Prance, ed., Tropical Rain Forests and World Atmosphere: 9-22, Westview Press, Boulder, Colorado, U.S.A.

1987e--Trends in the Destruction of Rain Forests. In C.W. Marsh and R.A. Mittermeier, eds., Conservation in the Tropical Rain Forests: 3-20. Alan R. Liss, New York, U.S.A.

1987f--The Extinction Spasm Impending: Synergisms. Conservation Biology 1(1): 14-21.

1987g--Linking Environment and Security. Bulletin of the Atomic Scientists 4(8): 46-47.

1987h--Conservation of Africa's Cats: Problems and Opportunities. In S.D. Miller and D.D. Everett, eds., Cats of the World: Biology, Conservation and Management: 437-446. National Wildlife Federation, Washington D.C., U.S.A.

1987i (with R.A. Houghton and 10 others)--The Flux of Carbon from Terrestrial Ecosystems to the Atmosphere in 1980 Due to Changes in Land Use: Geographic Distribution of the Global Flux. Tellus 39B: 122-139.

1987j--Emergent Aspects of Environment: A Creative Challenge. The Environmentalist 7(3): 163-174.

1987k--Nature Conservation at Global Level: The Scientific Issues. Inaugural Lecture for new Chair and Visiting Professorship, University of Utrecht, Netherlands.

1987l (with J.J. Kozub)--Land and Water Resources Management. Economic Development Institute, The World Bank, Washington D.C., U.S.A.

1987m--Policy Issues for Environment and Development. New Economics 1: 7-8.

1987n--Nuclear Winter in the Third World. In P. Worsley, ed., On the Brink: Nuclear Proliferation and the Third World: 237-242. Third World Publications, London, U.K.

1987o--Population, Environment and Conflict. Environmental Conservation 14(1): 15-22 (award for best paper of the year).

1988a--New Foods and Innovative Agriculture. In P. Ehrensaft and F. Knelman, eds., The Right to Food: Technology, Policy, and Third World Agriculture: 43-54. Pharmi-Libri, Montreal, Canada.

1988b--The Environmental Basis of Sustainable Development. Annals of Regional Science (special issue on Environmental Management and Economic Development) 21: 33-43.

1988c--Tropical Deforestation and Remote Sensing. Forest Ecology and Management 23: 215-225.

1988d--Tropical Forests: Much More Than Stocks of Wood. Journal of Tropical Ecology 4(2): 208-220.

1988e--Tropical Moist Forests and Their Species: Going, Going...? In E.O. Wilson, ed., BioDiversity: 28-35. National Academy Press, Washington D.C., U.S.A.

1988f--Philippines: Forestry, Fisheries and Agricultural Resource Management. The World Bank, Washington D.C., U.S.A.

1988g--Draining the Gene Pool: The Causes and Consequences of Genetic Erosion. In J. Kloppenberg, ed., Seeds and Sovereignty: Debate Over the Use and Control of Plant Genetic Resources: 90-113. Duke University Press, Durham, North Carolina, U.S.A.

1988h--Tropical Forests: A Storehouse for Human Welfare. In F. Almeda and C.M. Pringle, eds., Tropical Rainforests: Diversity and Conservation: 13-27. California Academy of Sciences, San Francisco, U.S.A.

1988i--Threatened Biotas: "Hotspots" in Tropical Forests. The Environmentalist 8: 187-208.

1988j--Tropical Forest Species: Going, Going, Going.... Scientific American 259: 132.

1988k--Natural Resource Systems and Human Exploitation Systems: Physiobiotic and Ecological Linkages. The World Bank, Washington D.C., U.S.A.

1988l--Environmental Degradation and Some Economic Consequences in the Philippines. Environmental Conservation 15: 205-214.

- 1988m--Environmental Challenges: More Government or Better Governance? Ambio 17: 411-414.
- 1988n--Writing off the Environment. In J. Elkington, T. Burke and J. Hailes, The Business of Saving the World: 190-192. Routledge Publishers, London, U.K.
- 1989a--Extinction Rates Past and Present. BioScience 39: 39-41.
- 1989b--Tropical Deforestation and Climatic Change. Environmental Conservation 15: 293-298.
- 1989c--The Greenhouse Effect: A Tropical Forestry Response. Biomass 18: 73-78.
- 1989d--Environment and Security. Foreign Policy 74: 23-41.
- 1989e--Loss of Biological Diversity and Its Potential Impact on Agriculture and Food Production. In D. Pimentel and C. Hall, eds., Food and Natural Resources: 49-67. Academic Press, New York, U.S.A.
- 1989f--Tropical Forests and the Botanists Community. In W. Greuter and B. Zimmer, eds., Proceedings of the XIVth International Botanical Congress: 291-300. Koeltz Scientific Books, Koenigstein, Germany.
- 1989g--The Future of Forests. In L. Friday and R.A. Laskey, eds., The Fragile Environment: 22-40. Cambridge University Press, Cambridge, U.K.
- 1989h--Environmental Security: The Case of South Asia. International Environmental Affairs 1: 138-154.
- 1989i--A Mass Extinction Episode Ahead of Us: Predictable or Preventable? In D. Western and M. Pearl, eds., Conservation for the Twenty-First Century: 42-49. Oxford University Press, Oxford, U.K.
- 1989j--Ecology of the Amazonian Rainforest. In C. Johnson, R. Knowles and M. Colchester, eds., Rainforests: Land Use Options for Amazonia: 9- 12. Oxford University Press, Oxford, U.K.
- 1989k--The Environmental Basis of Sustainable Development. In G. Schramm and J.J. Warford, eds., Environmental Management and Economic Development: 57-68. Johns Hopkins University Press, Baltimore, Maryland, U.S.A.
- 1989l--Synergistic Interactions and Environment. BioScience 39: 506.
- 1989m--Nuclear Winter: Potential Biospheric Impacts in Britain. Ambio 18: 449-453.
- 1989n--Tropical Deforestation and Climatic Change. In A. Berger, S.H. Schneider and J.C.L. Duplessy, eds., Climate and Geo-Sciences: A Challenge for Science and Society in the 21st Century: 341-354. Kluwer Academic Publishers, Dordrecht, Netherlands.

1989o--Population Growth, Environmental Decline and Security Issues in Sub-Saharan Africa. In A. Hjort af Ornas and M.A.M. Salih, eds., Environmental Stress and Security: 211-231. Scandinavian Institute of African Studies, Uppsala, Sweden.

1989p--Tropical Forests and Gaia. Forestry for Sustainable Development Program, College of Natural Resources, University of Minnesota, St. Paul, Minnesota, U.S.A.

1989q--Tropical Forests for Sustainable Development. Forestry for Sustainable Development Program, College of Natural Resources, University of Minnesota, St. Paul, Minnesota, U.S.A.

1989r--Sustainable Development: The Role of NGOs. Forestry for Sustainable Development Program, College of Natural Resources, University of Minnesota, St. Paul, Minnesota, U.S.A.

1989s--Milieuconflikten Bedreigen Wereldvrede. Wetenschap und Samenleving 41(5): 5-11.

1989t--Only One Earth: An Educational Imperative? In R.A. Hinde and D.A. Parry, eds., Education for Peace: 53-62. Spokesman Publishers, London, U.,K.

1990a--Natural Resource-Based Export Initiatives in Central America and the Caribbean. Commission for the Study of International Migration and Cooperative Economic Development, U.S. Congress, Washington, D.C., U.S.A.

1990b--Economic Evaluation of Genetic Resources in Tropical Forests. Allgemeine Forst Zeitschrift fur Waldwirtschaft und Umweltdtvorsorge 1-2: 12-13.

1990c--Environment and Security: The Emergent Linkages. National Forum 70: 30-31.

1990d--Tropical Forests. In J. Leggett, ed., Global Warming: 372-399. Oxford University Press, Oxford, U.K.

1990e--Mass Extinctions: What can the Past Tell Us About the Present and Future? Global and Planetary Change 82: 175-185.

1990f (with D.W. Pearce)--Economic Values and the Environment of Amazonia. In D. Goodman and A. Hall, eds., The Future of Amazonia: 383- 404. Macmillan Press, London, U.K.

1990g--The Coming Challenge of Mass Extinction. In R.P. Cote, ed., Valuing Special Plants and Rare Species: 5-14. Dalhousie University Press, Nova Scotia, Canada.

1990h--Environmental Science and the Policy Interface: Facing Up to the Lack of Interface. In Sustainable Development, Science and Policy: 513- 521. Norwegian Research Council for Science and the Humanities, Oslo, Norway.

1990i--The Biodiversity Challenge: Expanded Hot Spots Analysis. The Environmentalist 10: 243-256.

1991a--The World's Forests and Human Populations: The Environmental Interface. In K. Davis and M.S. Bernstam, eds., Resources, Environment, Population: Present Knowledge, Future Options, Population and Development Review (Special Supplement) 16: 233-247.

1991b--Man's Future Needs the Beasts. In M. Robinson, ed., Man and Beast: 319-329. The Smithsonian Press, Washington D,C., U.S.A.

1991c--Biological Diversity and Global Security. In F. Bormann and S.R. Kellert, eds., Ecology, Economics, Ethics--The Broken Circle: 11-25. Yale University Press, New Haven, Connecticut, U.S.A.

1991d--Tropical Forests: Present Status and Future Outlook. In N. Myers, ed., Climatic Change (special issue on Tropical Forests and Climate) 19 (1-2): 3-32.

1991e (with T.J. Goreau)--Tropical Forests and the Greenhouse Effect: A Management Response. In N. Myers, ed., Climatic Change (special issue on Tropical Forests and Climate) 19 (1-2): 215-226.

1991f--Tropical Deforestation: The Latest Situation. BioScience 41: 282.

1991g--Biologists as Policymakers? Environmental Conservation 18: 6.

1992a--Population/Environment Linkages: Discontinuities Ahead? Ambio 21: 116-118.

1992b--Tropical Forests: The Policy Challenge. The Environmentalist 12: 15-27.

1992c--The Anatomy of Environmental Action: The Case of Tropical Deforestation. In A. Hurrell and B. Kingsbury, eds., The International Politics of the Environment: 430-454. Oxford University Press, Oxford, U.K.

1992d--Synergisms: Joint Effects of Climate Change and Other Forms of Habitat Destruction. In R.L. Peters and T.E. Lovejoy, eds., Global Warming and Biological Diversity: 344-354. Yale University Press, New Haven, Connecticut, U.S.A.

1992e--The Environmental Consequences for the European Community of Population Factors Worldwide and Within the Community. The European Commission, Brussels, Belgium.

1993a--Environment and Development: The Question of Linkages. BioScience 43(5): 302-309.

1993b--Questions of Mass Extinction. Biodiversity and Conservation 2: 2-17.

1993c--Biodiversity and the Precautionary Principle. Ambio 22(2-3): 74- 79.

1993d--Tropical Forests: The Main Deforestation Fronts. Environmental Conservation 20(1): 9-16.

1993e--Population, Environment and Development. Environmental Conservation 20(3): 1-12.

1993f--Environmental Refugees: How Many Ahead? BioScience 43(11): 752- 761.

1993g--Sharing the Earth with Whales. In L. Kaufman and K. Mallory, eds. The Last Extinction: 179-194. MIT Press, Cambridge, Massachusetts, U.S.A.

1993h--Globale Umwelt Kooperation. In G. Altner, B. Mettler-Meibom, U.E. Simonis, and E.U. von Weizsacker, eds., Jahrbuch Okologie 1994: 186-193. Verlag CH Beck, Munchen, Germany.

1994a (with P.R. Ehrlich and A.H. Ehrlich)--The Human Population Problem: As Explosive as Ever? In N. Polunin and J.H. Burnett, eds., Surviving with the Biosphere: 270-281. Edinburgh University Press, Edinburgh, U.K.

1994b--Sub-Saharan Africa and Carrying Capacity. Environmental Awareness 16: 125-135.

1994c--Protected Areas--Protected from a Greater What? Biodiversity and Conservation 3: 411-418.

1994d--We Do Not Want To Become Extinct: The Question of Human Survival. In K.C. Kim and R.D. Weaver, eds., Biodiversity and Landscapes, A Paradox of Humanity: 133-150, Cambridge University Press, New York, U.S.A.

1994e--Global Biodiversity II: Losses. In G.K. Meffe and C.R. Carroll, eds., Principles of Conservation Biology: 110-140. Sinauer Associates, Sunderland, Massachusetts, U.S.A.

1994f--Population Growth as a Factor Leading to Conflict Over Land and Other Natural Resources. In B. Zaba, ed., Environment and Population Change: 101-114. Ordina Editions, London, U.K.

1994g--Global Population and Emergent Pressures. In N. Polunin and M. Nazim, eds. Population and Global Security: 17-48. The Foundation for Environmental Conservation, Geneva, Switzerland.

1994h--Tropical Deforestation: Rates and Patterns. In K. Brown and D.W. Pearce, eds., The Causes of Tropical Deforestation: 27-40. University College London Press, London, U.K.

1994i--Population Summit: Guest Editorial. Environmental Conservation 20: 291-292.

1994j--Population and The Environment: The Vital Linkages. In Population, Environment and Development: 55-63. United Nations, New York, U.S.A.

1994k--Future Operational Monitoring of Tropical Forests: An Alert Strategy. ISPRA Joint Research Centre, Commission of the European Community, Varese, Italy.

1994l--Population and Biodiversity. In F. Graham-Smith, ed. Population: The Complex Reality: 117-136. The Royal Society, London, U.K.

1995a--The World's Forests: Need for a Policy Appraisal. Science 268: 823-824.

1995b--Environmental Unknowns. Science 269: 358-360.

1995c--Tropical Deforestation: Population, Poverty and Biodiversity. In T. Swanson, ed., The Ecology and Economics of Biodiversity Decline: The Forces Driving Global Change: 111-122. Cambridge University Press, U.K.

- 1995d--Population and Biodiversity. Ambio 24(1): 56-57.
- 1995e--Biodiversity. Environmental Awareness 18: 51-60.
- 1995f--Economics of the Environment: A Seismic Shift in Thinking. Ecological Economics 15(2): 125-128.
- 1995g--Global Population Growth as a Source of Conflict. Center for International Studies, University of Pittsburgh, Pittsburgh, Pennsylvania, U.S.A.
- 1996a--The Rich Diversity of Biodiversity Issues. In M.L. Reaka-Kudla, D.W. Wilson and E.O. Wilson, eds., Biodiversity II: Understanding and Protecting Our Natural Resources: 125-138. National Academy Press, Washington D.C., U.S.A.
- 1996b--Extinction and Biodiversity. In W.M. Adams, A.S. Goudie and A. Orme, eds., The Physical Geography of Africa: 356-366. Oxford University Press, Oxford, U.K.
- 1996c--Environmental Services of Biodiversity. Proceedings of U.S. National Academy of Sciences 93: 2764-2769.
- 1996d--The Biodiversity Crisis and the Future of Evolution. The Environmentalist 16: 37-47.
- 1996e--Global Population Growth. In W. Burros, ed., Global Security Beyond 2000: 25-26. Center for West European Studies, University of Pittsburgh, Pittsburgh, Pennsylvania, U.S.A.
- 1996f--Biodiversity: Environmental Discontinuities and Ecological Synergisms. In N. Myers, ed., Special Issue on Discontinuities and Synergisms. Biodiversity and Conservation 5: 1025-1034.
- 1996g--The World's Forests: Problems and Potentials. Environmental Conservation 23: 156-168.
- 1997a--Development, Environment and Health: What Else We Should Know. Environment and Development Economics 2(1): 367-371.
- 1997b--Biodiversity's Genetic Library. In G.C. Daily, ed., Nature's Services: Societal Dependence on Natural Ecosystems: 255-273. Island Press, Washington D.C., U.S.A.
- 1997c--The World's Forests and Their Ecosystem Services. In G.C. Daily, ed., Nature's Services: Societal Dependence on Natural Ecosystems: 215- 235. Island Press, Washington D.C., U.S.A.
- 1997d--Consumption: Challenge to Sustainable Development. Science 276: 53-57.
- 1997e--Consumption in Relation to Population, Environment and Development. The Environmentalist 17: 33-44.
- 1997f--Marine Fisheries: Two Macro-Constraints. Environment and Development Economics 2(1): 88-93.
- 1997g--Mass Extinction and Evolution. Science 278: 597-598.

1997h--Environmental Refugees. Population and Environment 18(5): 509-524.

1997i--Perverse Subsidies: Their Nature and Extent. The MacArthur Foundation, Chicago, Illinois, U.S.A.

1997j--Our Forestry Prospect: The Past Recycled or a Surprise-Rich Future? The Environmentalist 17: 233-247.

1997k--Global Biodiversity II: Losses and Threats. In G.K. Meffe and C.R. Carroll, eds., Principles of Conservation Biology: 123-158. Sinauer Associates, Sunderland, Massachusetts, U.S.A.

1997l--The Population/Environment Predicament: Even More Urgent Than Supposed. Politics and the Life Sciences 16(2): 211-213.

1997m--The Biodiversity Challenge. In A. Goudie, ed., The Human Impact Reader: 432-446. Blackwell, Oxford, U.K.

1997n--Global Survival: A Convergence of Faith and Science? In I. Serageldin and J. Martin-Brown, eds., Ethics and Values--a Global Perspective: 22-25. The World Bank, Washington D.C., U.S.A.

1998a--Emergent Issues of Environmental Economics: What We Should be Analysing Closely But Haven't Thought Enough About. International Journal of Social Economics 25 (6/8): 1271-1278.

1998b--Global Population and Emergent Pressures. In N. Polunin, ed., Environmental Challenges II: Population and Global Security (revised and updated edition): 17-46. Cambridge University Press, Cambridge, U.K.

1998c--Global Conservation Priorities and Future Investment Policies. In G.M. Mace, A. Balmford and J.R. Ginsberg, eds., Conservation in a Changing World: Integrating Processes Into Priorities for Action: 273-285. Cambridge University Press, Cambridge, U.K.

1998d--Disappearing Species: Problems and Opportunities. Proceedings of the Royal Institution of Great Britain 69: 169-194. Oxford University Press, Oxford, U.K.

1998e--An Age of Environmental Opportunity. In S. Hobson and J. Lubchenco, eds., Revelation and The Environment AD 95-1995: 58-61. World Scientific Publishers, London, U.K.

1998f (with R.A. Mittermeier et al.)--Biodiversity Hotspots: A Focused, Species-Based Approach to Conservation Priorities. Conservation Biology 12: 516-520.

1998g--Lifting the Veil on Perverse Subsidies. Nature 392: 327-328.

1998h--Natural Resources Conservation and Enhancement: Components of Ecotechnology. In M.S. Swaminathan, ed., Ecotechnology and Shaping the Future: 21-24. Madras Editorial Services, Chennai, India.

- 1998i--Population: Some Overlooked Issues. The Environmentalist 18: 135-138.
- 1998j—What’s This Biodiversity and What’s It Done for Us Today? In L. Kobner, J.E.S. Sokolow, F.T. Grifo and S. Simpson, eds., Scientists on Biodiversity: 5-8. American Museum of Natural History, New York, U.S.A.
- 1999a--The Next Green Revolution: Its Environmental Underpinnings. Current Science 76: 507-513.
- 1999b--Saving Biodiversity and Saving the Biosphere. In J. Cracraft and F. Grifo, eds., The Living Planet in Crisis: 237-254. Columbia University Press, New York, U.S.A.
- 1999c--Population, Gender, Environment and Food Security. In M.S. Swaminathan, ed., Malthus and Mendel: Population, Science and Sustainable Food Security: 69-74. Madras Editorial Services, Chennai, India.
- 1999d--Esodo Ambientale: Popoli in Fuga da Terre Difficili. Edizioni Ambiente, Milan, Italy.
- 1999e--Population Dynamics and Food Security. In A.E. el Oeheid, S.R. Johnson, H.H. Jensen and L.C. Smith, eds., Food Security: New Solutions for the 21st Century: 176-208. Iowa State University Press, Ames, Iowa, U.S.A.
- 1999f--Environmental Scientists: Advocates as Well? Environmental Conservation 26: 163-165.
- 1999g--Perverse Subsidies (President’s Lecture to the Royal Society of Arts, London). RSA Journal 3-4: 85-91.
- 2000a (with J. Kent)--Food and Hunger in Sub-Saharan Africa. The Winslow Foundation, Washington D.C., U.S.A.
- 2000b (with R.A. Mittermeier, et al.)--Biodiversity Hotspots for Conservation Priorities. Nature 403: 853-858.
- 2000c--Sustainable Consumption. Editorial in Science 287: 2419.
- 2000d--The Meaning of Biodiversity Loss. In P.H. Raven, ed., Nature and Human Society: The Quest for a Sustainable World: 63-70. National Academy Press, Washington D.C., U.S.A.
- 2000e--The New Millennium: An Ecology and an Economy of Hope. Current Science 78: 686-693.
- 2000f--Sustainable Consumption: The Meta-Problem. In R.B. Heap and J. Kent, eds., Towards Sustainable Consumption: A European Perspective: 5-15. The Royal Society, London, U.K.
- 2000g--Subsidies are “Perverse.” World Water Watch 1(1): 42-43.
- 2000h--The Management and Repercussions of Nuclear Power. The Ditchley Foundation, Enstone, Oxon., U.K.
- 2000i--The Century Ahead: Ever-Greater Problems or Ever-Wider Opportunities? United

Nations Chronicle 3: 8-11.

2001a--What's This Biodiversity and What's It Done for Us Today? In M.J. Novacek, editor, The Biodiversity Crisis: Losing What Counts. The New Press, New York, U.S.A.

2001b (with J. Kent)--Food and Hunger in Sub-Saharan Africa. The Environmentalist 21: 41-69.

2001c (with J. Kent) Biodiversity and Water Subsidies. WWF International, Zeist, Netherlands.

2001d—Hotspots. Encyclopedia of Biodiversity, 3: 371-381. Academic Press, Washington DC, U.S.A.

2001e (with A. Knoll)--The Biotic Crisis and the Future of Evolution. Proceedings of National Academy of Sciences (USA) 98: 5389-5392.

2001f (with J. Kent)--New Consumers: The Influence of Affluence. The Winslow Foundation, Washington D.C., U.S.A.

2001g--The World's Forests. In J.M. Harris et al., eds., A Survey of Sustainable Development: Social and Economic Dimensions. Island Press, Washington D.C., U.S.A.

2001h--(with S.L. Pimm et al.) Defying Nature's End? Science 293: 2207-2208.

2001i--The Biodiversity Outlook: Endangered Species and Endangered Ideas. In J.F. Shogren and J. Tschirart, eds., Social Order and Endangered Species Preservation: xxv-xxxvi. Cambridge University Press, New York, U.S.A.

2001j--Mediterranean-Climate Regions: Glowing Hotspots of Diversity. Journal of Mediterranean Ecology 2: 157-164.

2001k--Environmental Refugees. Encyclopedia of Global Environmental Change 3: 214-218. Wiley, Chichester, U.K.

2001l--Environmental Refugees: Our Latest Understanding. Philosophical Transactions of the Royal Society B: 356: 16.1-16.5.

2001m--The Environment in the Century Ahead: Ever-Greater Problems or Ever-Wider Opportunities? In H. van Ginkel and R. Thakur, eds., Embracing the Millennium: Perspectives and Challenges for the United Nations and the International Community: 91-107. United Nations University Press, Tokyo, Japan.

2001n—Extinction of Species. In N. J. Smelser and P.B. Baltes, eds., International Encyclopedia of the Social & Behavioral Sciences: 5200-5202. Pergamon, Oxford, U.K.

2002a--Biodiversity and Biodepletion: The Need for a Paradigm Shift. In T. O'Riordan and S. Stoll, eds., Protecting the Protected: Managing Biodiversity for Sustainability: 46-60. Cambridge University Press, Cambridge, U.K.

2002b (with Mathis Wackernagel et al.)--Tracking the Ecological Overshoot of the Human

- Economy. Proceedings of National Academy of Sciences (USA) 99: 9266-9271.
- 2002c (with W. Lutz et al.)--Population Belongs on Johannesburg Agenda. Nature 418: 17.
- 2002d (with A. Balmford et al.)--Why Conserving Wild Nature Makes Economic Sense. Science 297: 950--953.
- 2002e (with S.R. Brown et al.)--Changes in the Use and Management of Forests for Abating Carbon Emissions: Issues and Challenges Under the Kyoto Protocol. Philosophic Transactions of The Royal Society, London A 360: 1593-1605.
- 2002f--Our Environmental Future. In A Better Future for the Planet Earth, Vol II: 260-279 Asahi Glass Foundation, Tokyo, Japan.
- 2003a (with S. L. Pimm)--Mass Extinction of Species. Foreign Policy March/April: 28-29.
- 2003b--Conservation of Biodiversity: How Are We Doing? The Environmentalist 23: 9-15.
- 2003c (with J. Kent)--New Consumers: The Influence of Affluence on the Environment. Proceedings of National Academy of Sciences (USA) 100: 4963-4968.
- 2003d--Biodiversity Hotspots Revisited. BioScience 53(10): 916-917.
- 2003e--Japan's Strategies for Sustainable Development. In: The Encyclopedia of Environmental Management Strategy: 168-181. Industrial Research Center of Japan Inc., Tokyo, Japan.
- 2003f (with R.A. Mittermeier)--Impact and Acceptance of the Hotspots Strategy. Conservation Biology 17(5): 1449-1450.
- 2003g (with R.A. Mittermeier G.A.B. da Fonseca, T. Brooks, J. Pilgrim and A. Rodrigues)--Conserving Biodiversity Hotspots and Coldspots. American Scientist 91: 384.
- 2003h (with S.R. Brown et al.)--Changes in the Use and Management of Forests for Abating Carbon Emissions: Issues and Challenges Under the Kyoto Protocol. In I. Swingland, ed., Capturing Carbon and Conserving Biodiversity: The Market Approach. Earthscan, London.
- 2003i--The Biotic Crisis: Mass Extinction of Species and Disruption of Future Evolution. UNU/IAS Working Paper No, United Nations University, Tokyo.
- 2005a (with Jennifer Kent)--Die Neuen Konsumenten in Entwicklungs – Und Transformationsländern Und Der Einfluss Ihres Wohlstands Auf Die Umwelt (The Influence of Affluence on the Environment by New Consumers in Developing and Transition Countries). Natur and Kultur 6/1: 3-22.
- 2005b (with Jennifer Kent)--The Biggest Consumption Boom Ever. In: Proceedings of World Future Society Conference, Foresight, Innovation and Strategy: Towards a Wiser Future. World Future Society, Bethesda, Maryland.
- 2005c--Environmental Refugees: An Emergent Security Issue. Organization for Security and Co-operation in Europe, Vienna, Austria.

2006a--Biodiversity: What's at Stake. Paper for UNESCO's 21st Century Talks, 9 May 2006: "Could Everything Disappear?" UNESCO, Paris, France (in press).

2006b--Water: A Global Challenge. In: Proceedings of Science and Technology in Society Forum, Kyoto, Japan.

2006c--Cities, Congestion and Sustainability: Ecological and Socioeconomic Perspectives. In Proceedings of conference Transport and Urban Sustainability: Voice on the Stockholm Trial.

2007a--with five others. How Can Knowledge of the Past Help to Conserve the Future? Biodiversity Conservation Strategies and the Relevance of Long-term Ecological Studies. Philosophical Transactions of the Royal Society B 362: 175-186.

2007b--Our Environmental Challenge: Why Don't We Get to Stronger Grips with Action Policies? International Institute for Applied Systems Analysis, Laxenburg, Austria.

2008a--Perverse Subsidies. In R. Costanza et al., eds., Introduction to Ecological Economics, 2nd Edition (in press).

2008b--New Consumers. In R. Costanza et al., eds., Introduction to Ecological Economics, 2nd Edition (in press).

2008c--Scientific Uncertainty. In R. Costanza et al., eds., Introduction to Ecological Economics, 2nd Edition (in press).

2008d--Environmental Security Concerns: Sources. In S. Stec and B. Baraj, eds., Energy and Environmental Challenges to Security (Proceedings of NATO Advanced Research Workshop). Springer-Verlag (in press).

2008--with R. Costanza and ten others. Overcoming Systemic Roadblocks to Sustainability: An Integrated Redesign of Concepts, Institutions and Technologies (in press).