

ENVS 39 – Summer 2008
Natural Resources, Development and the Environment

008 Steele, Tues. and Thurs. 10:00-11:50, x-hour Wed. 3:00
Office hours: Tues. and Thurs. 12:00-1:00 and by appointment
Instructor: Coleen Fox

Course description

The countries of the Global South (located in Africa, Latin America, and Asia) are rich in biodiversity and resources, but also home to the world's poorest billion people. Many of these people live in close proximity to degraded and highly contested ecosystems. These ecosystems, and the resources they contain, are increasingly expected to serve multiple purposes – to support livelihoods, fuel economic development, and protect biodiversity. But is this possible? What conditions might ensure genuinely sustainable development?

The course focuses on the tension between economic development and environmental conservation in the Global South. We will pay particular attention to the power relations that govern decision making around natural resources, as well as to processes occurring at global and regional scales -- from demand for biofuels to global environmental agreements -- which affect local ecosystems. Overarching questions include: What role can and should resources play in development? What do we mean by development? What might green or sustainable development look like in the Global South? Are resources the source of conflict and will they likely become so? Who are the new agents of global development and what are the implications for sustainability? Key concepts covered in the class include human and environmental security, governance of the commons, privatization and commodification of resources, the resource curse, and globalization.

Course requirements

You must complete readings before the class for which they are assigned. Requirements include: three take-home essays (20% each); a research project/presentation (25%), and attendance and participation (15%).

Attendance is required. This is a discussion-based class. I expect you to come to class with questions and comments about the readings. You should be prepared for unannounced quizzes (part of your participation grade) on the key concepts contained in the readings. All readings are available electronically, either directly through e-resources or on blackboard. Please see me if you have any problems accessing them.

Class web site

Class announcements, readings, and assignments will be posted on the class website at <http://blackboard.dartmouth.edu>. Please check the site regularly.

Honor Principle

As do all courses at Dartmouth, this course requires that you familiarize yourself with the guidelines of the Academic Honor Principle concerning independent work, proper citation of other's work and general codes of learning. Please consult the Green Pages of the Dartmouth Student Handbook for additional details about the Honor Principle. Please see me if you have any questions about this issue.

Disabilities

Please feel free to discuss with me questions relating to disabilities at the earliest possible moment. I will make every effort to ensure a supportive learning environment.

June 19: Environment, development and resources – introduction to the issues

Video 'Second Nature'

June 24: What do we mean by 'development' and who does it? – history, meaning, and discourse

McMichael, Philip. 2000. 'Instituting the development project' and 'The globalization Project'. *Development and social change: a global perspective*, 2ndnd edition, pp.3-41, 149-187. Los Angeles: Pine Forge Press. (blackboard)

Simon, David. 2007. Beyond antidevelopment: discourses, convergences, practices. *Singapore Journal of Tropical Geography* 28: 205-218. (e-resources)

Gasper, Des. 2004. The meaning of 'development'. *The Ethics of Development: From Economism to Human Development*, pp. 25-48. Edinburgh: Edinburgh University Press. (blackboard)

June 26: Sustainable development?

Adams, W.M. 2001. 'The dilemma of sustainability' and 'The origins of sustainable development'. *Green Development: Environment and sustainability in the Third World*, pp. 1-53. Routledge: London and New York. (blackboard and available as an e-book)

Case studies -- pursuing sustainable development in Zimbabwe, Thailand, and Bhutan

Manjengwa, Jeanette Marie. 2007. Linking environment and development, easier said than done: learning from the Zimbabwean experience. *Development Southern Africa* 24(2): 225-240. (e-resources)

Parnwell, M.J.G. 2006. Eco-localism and the shaping of sustainable social and natural environments in Northeast Thailand. *Land Degradation & Development* 17: 183-195. (e-resources)

Rinzin, Chhewang, Walter J.V. Vermeulen and Pieter Glasbergen. 2007. Public perceptions of Bhutan's approach to sustainable development in practice. *Sustainable Development* 15: 52-68. (e-resources)

July 1: Disease environments – implications for human development

Mayer, Jonathan. 2000. Geography, ecology and emerging infectious diseases. *Social Science & Medicine* 50: 937-952. (e-resources)

Haines, A., R.S. Kovats, D. Campbell-Lendrum, C. Corvalan. 2006. Climate change and human health: Impacts, vulnerability and public health. *Public Health* 120: 585-596. (e-resources)

Case study – environmental alteration and malaria

Greenwood, Brian M. et al. 2008. Malaria: progress, perils, and prospects for eradication. *The Journal of Clinical Investigation* 118(4): 1266-1276. (e-resources)

Guimaraes, R.M., C. Asmus, and A. Meyer. 2007. DDT reintroduction for malaria control: the cost-benefit debate for public health. *Cad. Saude Publica*, Rio De Janeiro 23(12): 2835-2844. (blackboard)

Guerra, C.A., R.W. Snow, and S.I. Hay. 2006. A global assessment of closed forests, deforestation and malaria risk. *Annals of Tropical Medicine & Parasitology* 100 (3): 189-204. (e-resources)

Robert, Vincent. et al. 2003. Malaria transmission in urban sub-Saharan Africa. *American Journal of Tropical Medicine and Hygiene*. 68(2): 169-176. (e-resources)

July 3: Ben Carton – The 2001 Cholera epidemic in KwaZulu-Natal

Readings tba

July 8: Non-renewable resources – curses or blessings?

Sachs, Jeffrey D. and Andrew M. Warner. 2001. The curse of natural resources. *European Economic Review* 45: 827-838. (e-resources)

Brunnschweiler, Christa, 2008. Cursing the Blessings? Natural Resource Abundance, Institutions, and Economic Growth. *World Development* 36(3): 399-419. (e-resources)

Le Billon, Phillipe. 2001. The Political Ecology of War: Natural Resources and. Armed Conflict. *Political Geography* 20 (2001): 561–584. (e-resources)

Case study – diamonds

View 'Blood Diamond' before class – on reserve at JMC

Ola, Olsson. 2007. Conflict Diamonds. *Journal of Development Economics* 82: 267-286.
(e-resources)

Taylor, Ian and Gladys Mokhawa. 2003. Not Forever: Botswana, Conflict, Diamonds and the Bushmen. *African Affairs* 102: 261-283. (e-resources)

July 10: Nigerian oil, Zambian copper, and Bolivian tin – opportunities for sustainable development?

Ite, Uwem E. 2007. Partnering with Shell for Sustainable Development: Shell's Experience in the Niger Delta, Nigeria. *Sustainable Development* 15: 216-228.

Shaxson, Nicholas. 2007. Oil, corruption and the resource curse. *International Affairs* 83(6): 1123-1140. (e-resources)

Fraser, Alastair and John Lungu. Zambia. 2007. *For Whom the Windfalls? Winners and losers in the privatization of Zambia's copper mines*. Lusaka: CSTNZ and CCJDP. (blackboard, read only a chapter or two).

n.a. 2007. Zambia: Regaining Former Copper Glory. *Engineering and Mining Journal*. May: 62-65. (blackboard)

Quiroga, Eduardo R. 2002. The case of artisanal mining in Bolivia: Local participatory development and mining investment opportunities. *Natural Resources Forum* 26: 127-139. (e-resources)

ESSAY #1 DUE MONDAY JULY 14. NO LATER THAN 10:00 am

July 15: Water resources and development

Rijsberman, Frank R., 2006. Water scarcity – Fact or fiction? *Agricultural Water Management* 80: 5-22. (e-resources)

Pearce, Fred. 2004. Megawater. In, *Keepers of the Spring* (pp. 11-23). Washington, D.C.: Island Press. (blackboard)

United Nations Human Development Report 2006. *Beyond scarcity: Power, poverty and the global water crisis*. (e-resources)

July 17: Water for profit or human needs?

Finnegan, William. 2002. Letter from Bolivia: Leasing the Rain. *The New Yorker*. 8 April: 43- (e-resources)

Goldman, Michael. 2007. How "Water for All!" policy became hegemonic: the power of the World Bank and its transnational policy networks. *Geoforum* 38: 786-800. (e-resources)

Budds, Jessica and Gordon McGranahan. 2003. Are the debates on water privatization missing the point? Experiences from Africa, Asia and Latin America. *Environment and Urbanization* 15: 87-115. (e-resources)

July 22: Rivers for livelihoods and biodiversity or national development?

Fearnside, Philip M. Dams in the Amazon: Belo Monte and Brazil's Hydroelectric Development of the Xingu River Basin. *Environmental Management* 38(1): 16-27. (e-resources)

McCarthy, Julie. May 31, 2008. Brazilian Tribes Say Dam Threatens Way of Life. <http://www.npr.org/templates/story/story.php?storyId=91007395>

Mwangi, Oscar. 2007. Hydropolitics, Ecocide and Human Security in Lesotho: A Case Study of the Lesotho Highlands Water Project. *Journal of Southern African Studies* 33(1): 3-17. (e-resources)

Willemse, Nico E. 2007. Actual versus Predicted Transboundary Impact: A Case Study of Phase 1B of the Lesotho Highlands Water Project. *International Journal of Water Resources Development* 23(3): 457-472. (e-resources)

July 24: Population, food and agriculture – a Malthusian dilemma?

McCann, James. 2001. Maize and Grace: History, Corn, and Africa's New Landscapes, 1500-1999. *Society for Comparative Study of Society and History*. 246-272. (e-resources)

Gregory, P.J. et al. 2005. Climate change and food security. *Philosophical Transactions of The Royal Society* 360: 2139-2148. (e-resources)

July 29: Food security and development

Yarnell, Amanda. 2008. Feeding Africa: Ensuring a sustainable food supply in Africa may have little to do with science. *Chemical and Engineering News* 86(4): 74-76. (e-resources).

Hauser, Michael and Charles Walaga. 2005. Achieving household food security through organic agriculture? Lessons from Uganda. *Journal fur Entwicklungspolitik* 21(3): 65-84. (e-resources)

Ahmad, M. et al. 2005. Food and water insecurity: Re-assessing the value of rainfed agriculture. *Water Science and Technology: Water Supply* 5(1): 109-116. (e-resources)

Millman, Joel and Roger Thurow. 2008. Food Crisis Forces a New Look at Farming. *Wall Street Journal* 10 June. (e-resources).

Barclay, Eliza. 2008. How a Kenyan village tripled its harvest. *Christian Science Monitor*, June 17. (e-resources)

ESSAY #2 DUE WED JULY 30, NO LATER THAN 10:00AM

July 31: Forests – resources for local use, global biodiversity, or commercial development?

Fearnside, Philip. 2001. Saving tropical forests as a global warming countermeasure: an issue that divides the environmental movement. *Ecological Economics* 39: 167-184. (e-resources)

Llana, Sara Miller. 2008. Bolivia gets clean by staying green: Project pays Bolivia for the forests it does not cut - a potential model in the battle against climate change. *The Christian Science Monitor*, June 5.

Rasul, Golam. 2007. Political ecology of the degradation of forest commons in the Chittagong Hill Tracts of Bangladesh. *Environmental conservation* 34(2): 153-163. (blackboard)

Dove, Michael. 1993. A Revisionist View of Tropical Deforestation and Development. *Environmental Conservation* 20(1):17-24. (blackboard)

Brown, Ellie and Michael F. Jacobson. 2005. *Crude Oil: How Palm Oil Harms Health, Rainforest & Wildlife*. Washington, D.C.: Center for Science and the Public Interest. (<http://www.cspinet.org/palm/>)

MONDAY AUG. 4 -- ANNOTATED BIBLIOGRAPHY FOR RESEARCH PAPER DUE NO LATER THAN 10:00AM

Aug 5: Conservation as sustainable development in Africa – weighing the evidence

Musters, C.J.M. et al. 2000. Can Protected Areas Be Expanded in Africa? *Science* 287, 10 Mar.: 1759-1760. (e-resources)

Mundy, P.J. 2006. The African elephant – Something to cherish and to use. *The International Journal of Environmental Studies* 63(5): 587-597. (blackboard)

Johannesen, Anne Borge and Anders Skonhøft. 2005. Tourism, poaching and wildlife conservation: what can integrated conservation and development projects accomplish? *Resource and Energy Economics* 27: 208-226. (e-resources)

Ferreira, Sanette. 2004. Problems associated with tourism development in Southern Africa: The case of Transfrontier Conservation Areas. *GeoJournal* 60: 301-310. (e-resources)

Munthali, Simon. 2007. Transfrontier conservation areas: Integrating biodiversity and poverty alleviation in Southern Africa. *Natural Resources Forum* 31: 51-60. (e-resources)

Aug. 7, 12: Ecotourism – benefiting the environment and local people?

Fennel, David and David Weaver. 2005. The Ecotourism Concept and Tourism-Conservation Symbiosis. *Journal of Sustainable Tourism* 13(4): 373-390. (e-resources).

Walpole, M.J. 2001. Local attitudes towards conservation and tourism around Komodo National Park, Indonesia. *Environmental Conservation* 28(2): 160-166. (blackboard)

Sherwood, David. 2001. Costa Rica sees tourism's environmental dark side: Lax regulations have allowed development to surge to the breaking point. *The Christian Science Monitor* 17: April. (e-resources)

Sobhee, Sanjeev. 2006. Fisheries biodiversity conservation and sustainable tourism in Mauritius. *Ocean & Coastal Management* 49: 413-420. (e-resources)

Ohl-Schacherer et al. 2008. Indigenous ecotourism in the Amazon: a case study of 'Casa Matsigenka' in Manu National Park, Peru. *Environmental Conservation* 35(1): 14-25. (e-resources)

Sekhar, Nagothu Udaya. 2003. Local people's attitudes towards conservation and wildlife tourism around Sariska Tiger Reserve, India. *Journal of Environmental Management* 69: 339-347. (e-resources)

Rugendyke, Barbara and Nguyen Thi Son. 2005. Conservation costs: Nature-based tourism as development at Cuc Phuong National Park, Vietnam. *Asia Pacific Viewpoint* 46(2): 185-200. (e-resources)

ESSAY #3 DUE FRIDAY AUG. 15TH NO LATER THAN 5:00 PM

Aug 14: presentations

Aug 19: presentations

All research papers due Aug. 23, 10:00 am. **NO EXTENSIONS.**

