

Anthropology 133

Native Peoples and the Environment

Fall 2013

PROFESSOR:

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DESCRIPTION: Native Peoples and the Environment. Freshman Seminar; Cross-listed with Latin American Studies LTAM-133, 1 Unit.

The relationship between the activities of native peoples and the environment is a complex and contentious issue. One perspective argues that native peoples had little impact on the environments because of their low population densities, limited technology, and conservation ethic and worldview. At other extreme, biodiversity, and Nature itself, are considered the product of a long history of human activities. This seminar will examine the Myth of the Ecologically Noble Savage, the Myth of the Pristine Environment, the alliance between native peoples and Green Politics, and the contribution of native peoples to appropriate technology, sustainable development and conservation of biodiversity.

OFFICE HOURS:

Thursdays 4:30 – 6:00pm or by appointment (email); My office is Penn Museum 435 (Academic Wing).

ANTHROPOLOGY 133 HOMEPAGE: A Blackboard Course Homepage for this course can be found on Penn Website at <https://courseweb.library.upenn.edu/>, click on ANTH 133 after signing in. This homepage will include on-line versions of the course description, syllabus, and handouts; updates on reading assignments and lectures; recent news items on native peoples and the environment; announcements about on-campus seminars and lectures related to the seminar topics; and links to web sites about native peoples and the environment. I recommend saving the address as a "bookmark" and regularly checking the site for new and updated information.

CLASS MEETINGS: Tuesday and Thursdays 3:00-4:30pm, Penn Museum 345 (Academic Wing).

REQUIRED TEXTBOOK AND ON-LINE READINGS:

1) Redman, Charles 1999 *Human Impact on Ancient Environments*. University of Arizona Press, Tucson.

- The Redman book is available for purchase used at Amazon.com or other on-line bookstores. The chapters from this textbook for the first week of readings will be posted as PDF files.

2) *Anthropology 133 Native Peoples and the Environment Website*: a collection of required readings will be available as PDF format digital files on the Blackboard Course Website at <https://courseweb.library.upenn.edu/>. You will need Adobe Reader© software to view the files. I recommend updating to the most recent version of Adobe Reader©. See the Penn Computing for the free software.

COURSE CONTENT:

This seminar focuses on the relationship between native peoples and the environment for freshmen. The course has no prerequisites. I will begin each class with a short lecture introducing the topic. This will be followed by student discussion of the readings. Sometimes the order of lecture and discussion are reversed. Because this course is a seminar, student participation in discussions is required.

I use slide presentations during lectures. Since students will be responsible for the material presented during these illustrated lectures, you might want to seat yourself where you can see your notebook when the room lights are dimmed. I generally do not stop the lecture to spell terminology, although you will periodically be provided handouts with lists of important terminology. Questions and comments are encouraged and may be asked before, during, or after lectures.

REQUIRED READINGS:

A digital copy of the course syllabus with schedule of topics and required readings is provided on the course web site. This syllabus may be periodically updated throughout the semester (using the Announcement Page on the Blackboard site for the class). You must read the required readings before the class meeting. You should be prepared to discuss each of the required readings for all classes. I strongly suggest taking detailed notes while doing the readings. These notes will be useful for in-class discussions and for preparing your papers. Reading guides (“Topics, Themes, and Questions”) will be available for most readings to help you find the key points of the individual readings.

GRADING:

Grading is based on three writing assignments (three 5-10 page papers) and class participation in seminar discussions. I highly recommend that you exchange drafts of your papers with fellow students for editorial comments before submitting draft and final versions. Students will have the opportunity to rewrite their papers for consideration of a higher grade if drafts are received by the due dates (to be announced).

Writing Assignments: I will discuss each writing assignment in detail later in the semester.

Assignment 1: See Handout: date to be announced (30% of final grade)

Assignment 2: See Handout: date to be announced (30% of final grade)

Assignment 3: See Handout: date to be announced (30% of final grade)

Participation in the seminar discussions (10% of final grade)

ATTENDANCE:

Students are expected to show up for all class meetings (except religious holidays). Missing a class or two could negatively affect your grade. Please get the notes from other students if you have to miss a class meeting. The professor will not provide copies of lecture notes or slide presentations to students.

Laptops may be used to take notes and refer to readings under discussion during class. Laptops, phones, and other electronic devices are NOT to be used for email, texting, Facebook, Twitter, or web browsing during class. Turn off all cell phones before class starts.

ACADEMIC INTEGRITY:

Students should be familiar with and respect the Academic Code of Integrity of the University of Pennsylvania. Any cheating or plagiarism in this course will be dealt with severely. Please see the Penn websites below for definitions of what constitutes plagiarism and cheating and how to avoid them:

Academic Code of Integrity:

<http://www.vpul.upenn.edu/osl/acadint.html>

Plagiarism - What it is and how to avoid it:

<http://gethelp.library.upenn.edu/guides/engineering/ee/plagiarize.html>

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SUMMARY SYLLABUS

(Tentative and subject to change)

- August 29: Introduction
- September 3: Contemporary Political Perspectives on the Environment: Environmentalism and Anti-Environmentalism
- September 5: The Cofán: Native People, Homeland, and Development.
- September 10: Defining Biodiversity
- September 12: Linguistic, Cultural, and Biological Diversity
- September 17: Historical Ecology, Archaeology of Landscapes, and New Ecology
- September 19: The Myth of the Pristine Landscape; Degradation vs. Enhancement of the Environment: How is it Measured? At what Scale? Against what benchmark? Disturbance, Change, and Biodiversity
- September 24: Adaptation, Historical Ecology, and Forest History (Kevin Burke)
- September 26: Topic to be announced.
- October 1: What Do Native People Think and Know about the Environment, What can we Learn?
- October 3: The Extinction of Big Game Animals of the Ice Age; The Impact of Humans on Pacific Islands.
- October 8: Cooking the Earth: Fire Histories and People
- October 10: Fall Break (no class)

- October 15: The Myth of the Noble Savage: Native Americans and Conservation
- October 17: The Impact of Indigenous Hunting I
- October 22: Indigenous Hunting as Sustainable Use
- October 24: The Domestication of Plants and Animals
- October 29: Topic to be announced (Object Study)
- October 31: Topic to be announced (Object Study)
- November 5: Native Agroforestry in the Tropics
- November 7: Pre-Columbian Transformation of the Amazon
- November 12: The Domestication of Landscape: Amazonian Black Earths
- November 14: The Andes: A Built Environment; Applied Archaeology
- November 19: The Signature of Settled Life and Farming on the Landscape
- November 21: Cities in the Tropical Forest: The Maya
- November 26: The Jungle as Pharmaceutical Cornucopia: Shamanism, Ethnobotany, Bioprospecting, and Intellectual Property Rights
- November 28: Thanksgiving Holiday
- December 3: Native Peoples and Green Politics: An Uneasy Alliance; Ecotourism, Cultural Tourism, National Parks, and Native Peoples.
- December 5: Cities in the Desert
- December 10: Nature Reserves With or Without Native People; The Role of Humans in shaping the Past and the Future

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READING SYLLABUS

(Tentative and subject to change)

August 29: Introduction

**September 3: Contemporary Political Perspectives on the Environment:
Environmentalism and Anti-Environmentalism**

Hardin, Garrett 1998 [1968] The Tragedy of the Commons. In *Debating the Earth: The Environmental Politics Reader*. Edited by John S. Dryzek and David Scholosberg, Oxford University Press, Oxford, pp. 23-34.

Simon, Julian and Herman Kahn 1998 [1984] Introduction to the Resourceful Earth. In *Debating the Earth: The Environmental Politics Reader*. Edited by John S. Dryzek and David Scholosberg, Oxford University Press, Oxford, pp. 43-65.

Easterbrook, Gregg 1998 [1995] The Ecoreal Manifesto. In *Debating the Earth: The Environmental Politics Reader*. Edited by John S. Dryzek and David Scholosberg, Oxford University Press, Oxford, pp. 66-69.

Ehlich, Paul R. and Anne H. Ehrlich 1998 [1996] "Wise Use" and the Environmental Anti-Science. In *Debating the Earth: The Environmental Politics Reader*. Edited by John S. Dryzek and David Scholosberg, Oxford University Press, Oxford, pp. 70-80.

Lewis, Martin 1998 [1994] Introduction to Green Delusions. In *Debating the Earth: The Environmental Politics Reader*. Edited by John S. Dryzek and David Scholosberg, Oxford University Press, Oxford, pp. 398-410.

Zalasiewicz J, Williams M, Haywood A, Ellis M. 2011 The Anthropocene: a new epoch of geological time? *Philosophical Transactions of the Royal Society A*. 369(1938):835-41.

OPTIONAL:

King, Ynestra 1998 [1983] Towards an Ecological Feminism and a Feminist Ecology. In

Debating the Earth: The Environmental Politics Reader. Edited by John S. Dryzek and David Scholosberg, Oxford University Press, Oxford, pp. 429-437.

September 5: The Cofán: Native People, Homeland, and Development.

Cepek, Michael L. 2011 Foucault in the Forest: Questioning Environmentality in Amazonia. *American Ethnologist* 38(3):501-515.

OPTIONAL:

Cepek, Michael L. 2008 Essential Commitments: Identity and the Politics of Cofán Conservation. *Journal of Latin American and Caribbean Anthropology* 13(1):1-27.

September 10: Defining Biodiversity

Raven, Peter 1994 Defining Biodiversity. *Nature Conservancy* 44(1):11-15.

Lovejoy, Thomas 1997 Biodiversity: What is It? In *Biodiversity II: Understanding and Protecting our Biological Resources*. Edited by Marjorie Reaka-Kudla, Don Wilson, and Edward O. Wilson, Joseph Henry Press, Washington D.C. pp. 7-14.

Janzen, Daniel H 1997 Wildland Biodiversity Management in the Tropics. In *Biodiversity II: Understanding and Protecting our Biological Resources*. Edited by Marjorie Reaka-Kudla, Don Wilson, and Edward O. Wilson, Joseph Henry Press, Washington D.C. pp. 411-431.

OPTIONAL:

Rodolfo Dirzo and Peter H. Raven 2003 Global State of Biodiversity and Loss. *Annual Review of Environment and Resources* 28:137-167.

Patrick, Ruth 1997 Biodiversity: Why is it Important? In *Biodiversity II: Understanding and Protecting our Biological Resources*. Edited by Marjorie Reaka-Kudla, Don Wilson, and Edward O. Wilson, Joseph Henry Press, Washington D.C. pp. 15-24.

September 12: Linguistic, Cultural, and Biological Diversity

TEXTBOOK:

Redman Chapter 3

Mann, Charles C. 1991 Extinction: Are Ecologists Crying Wolf? *Science* 253:736-738.

Guterman, Lila 2000 Have Ecologists Oversold Biodiversity? *Chronicle of Higher Education*. October 13.

Maffi, Luisa 2005 Linguistic, Cultural, and Biological Diversity. *Annual Review of Anthropology* 29:599–617.

OPTIONAL:

Gorenfloa, L. J., Suzanne Romaine, Russell A. Mittermeier, and Kristen Walker-Painemillad 2012 Co-occurrence of linguistic and biological diversity in biodiversity hotspots and high biodiversity wilderness areas. *PNAS* 109(21): 8032-8037.

John Richard Stepp, Hector Castaneda, Sarah Cervone 2005 Mountains and Biocultural Diversity. *Mountain Research and Development* 25(3):223–227.

September 17: Historical Ecology, the Archaeology of Landscapes, and the New Ecology

TEXTBOOK:

Redman: pp. 89-90 (succession, climax community)

Botkin, Daniel 1990 Chapter 1. In *Discordant Harmonies: A New Ecology for the Twenty-First Century*. Oxford University Press, Oxford, pp. 3-13.

Zimmerer, Karl and Kenneth Young 1998 Introduction: The Geographical Nature of Landscape Change. In *Nature's Geography: New Lessons for Conservation in Developing Countries*. Edited by K. Zimmerer and K. Young, University of Wisconsin Press, Madison, pp. 3-34.

Blumler, Mark A. 1998 Biogeography of Land-Use Impacts in the Near East. In *Nature's Geography: New Lessons for Conservation in Developing Countries*. Edited by K. Zimmerer and K. Young, University of Wisconsin Press, Madison, **pp. 220-223 only** [Clements, Succession Theory]

Balée, William and Clark Erickson 2006 Time, Complexity, and Historical Ecology. In *Time and Complexity in Historical Ecology: Studies from the Neotropics*. edited by William Balée and Clark Erickson, Columbia University Press, New York, **pp. 1-6** (skim 7-18).

OPTIONAL: (additional reading about the case study presented in class)

Politis, Gustavo 1996 Moving to Produce: Nukak Mobility and Settlement Patterns in Amazonia. *World Archaeology* 27(3): 492-511.

Politis, Gustavo 2001 Foragers of the Amazon: The Last Survivors or the First to Succeed?, In: *Unknown Amazon, Culture in Nature in Ancient Brazil*, C. McEwan, C. Barreto and E. Neves, eds. London: British Museum Press, pp. 26-49.

Balée, William 2007 The Research Program of Historical Ecology. *Annual Review of Anthropology* 35:75-98.

September 19: The Myth of the Pristine Landscape; Degradation vs. Enhancement of the Environment: How is it Measured? At what Scale? Against what benchmark? Disturbance, Change, and Biodiversity

Mann, Charles 2002 1491: Before it became the New World, the Western Hemisphere was vastly more populous and sophisticated than has been thought. *Atlantic Monthly* March, pp. 41-53.

Stahl, Peter W. 1996 Holocene Biodiversity: An Archaeological Perspective from the Americas. *Annual Review of Anthropology* 25:105-126.

Denevan, William M. 1992 The Pristine Myth: The landscape of the Americas in 1492. *Annals of the Association of American Geographers* 82:369-385.

September 24: Adaptation, Historical Ecology, and Forest History (Kevin Burke)

Readings to be announced

September 26: Topic to be announced

October 1: What Do Native People Think and Know about the Environment, What can we Learn?

TEXTBOOK:
Redman Chapter 2

Reichel-Dolmatoff, Gerardo 1976 Cosmology as Ecological Analysis: A View from the Rain Forest *Man* II:307-318

Posey, Darrell A. 1992 Interpreting and Applying the “Reality” of Indigenous Concepts: What is Necessary to Learn from Natives? In *Conservation of Neotropical Forests: Working from Traditional Resource Use*. Edited by Kent Redford and Christine Padoch, Columbia University Press, New York, pp. 20-34.

OPTIONAL:

Salmón, Enrique 2000 Kincentric Ecology: Indigenous Perceptions of the Human-Nature Relationship. *Ecological Applications* 10(5):1327-1332

Nadasdy, Paul 2005 Transcending the Debate over the Ecologically Noble Indian: Indigenous Peoples and Environmentalism. *Ethnohistory* 52(2):291-331. File is already on Blackboard as

“optional reading.” 2013: excellent article but long and dense; focus on some parts?

Ellen, Roy F. 1998 Indigenous Knowledge of the Rainforest: Perceptions, Extraction, and Conservation. In *Human Activities and the Tropical Rainforest: Past, Present and Possible Future*. Edited by Bernard K. Maloney, Kluwer Academic Publishers, the Netherlands, p. 87-99.

October 3: The Extinction of Pleistocene Big Game Animals of the Ice Age; The Impact of Humans on Pacific Islands.

TEXTBOOK:

Redman: Chapter 1 (Easter Island; **pages 7-8 only**); Chapter 4

Diamond, Jared 2005 Chapter 2: Twilight at Easter. In *Collapse: How Societies Choose to Fail or Succeed*. Viking, New York, pp. 79-119.

Hunt, Terry L. 2006 Rethinking the Fall of Easter Island. *American Scientist* 94:412-419.

Bahn, Paul 2011 Head to Head. *Nature* 476:150–151.

Stahl, Peter W. 1996 Holocene Biodiversity: An Archaeological Perspective from the Americas. *Annual Review of Anthropology* 25:105-126. [**pages 112-113 only**]

October 8: Cooking the Earth: Fire Histories and People

Pyne, Stephen J. 1998 Forged in Fire: History, Land, and Anthropogenic Fire. In *Advances in Historical Ecology*. Edited by William Balée, Columbia University Press, New York, pp. 62-103.

Ruddiman, William 2005 How did Humans first alter Global Climate? *Scientific American* March Issue, pp. 46-53.

October 10: Fall Break (no class)

October 15: The Myth of the Noble Savage: Native Americans and Conservation

Redford, Kent H. 1991 The Ecologically Noble Savage. *Cultural Survival Quarterly* 15(1):46-48.

Stearman, Allyn MacLean 2000 A Pound of Flesh: Social Change and Modernization as Factors in Hunting Sustainability among Neotropical Indigenous Societies. In *Hunting for Sustainability in Tropical Forests*. Edited by John Robinson and Elizabeth Bennett, Columbia University Press, New York, pp. 233-250.

October 17: The Impact of Indigenous Hunting

Alvard, Michael S. 1994 Conservation by Native Peoples: Prey Choice in a Depleted Habitat. *Human Nature* 5(2):127-154.

October 22: Indigenous Hunting as Sustainable Use

Nadasdy, Paul 2005 Transcending the Debate over the Ecologically Noble Indian: Indigenous Peoples and Environmentalism. *Ethnohistory* 52(2):291-331.

Shepard Jr., Glenn H., Taal Levi, Eduardo Goes Neves, Carlos A. Peres, and Douglas W. Yu 2013 Hunting in Ancient and Modern Amazonia: Rethinking Sustainability. *American Anthropologist* 114(4):652–667.

October 24: The Domestication of Plants and Animals

TEXTBOOK:
Redman: Chapter 5

Hastorf, Christine 1998 The Cultural Life of Early Domestic Plant Use. *Antiquity* 72:773-782.

Pollan, Michael 2001 I, Pollinator. *New York Times Magazine* (April 22, 2001), pp. 21-22.

Oliver, Jose 2008 The Archaeology of Agriculture in Ancient Amazonia. In *Handbook of South American Archaeology*. Edited by Helaine Silverman, and William Isbell, Springer, New York, pp. 185-216.

October 29: Topic to be Announced (Object Study)

October 31 Topic to be Announced (Object Study)

November 5: Native Agroforestry in the Tropics

Balée, William 1989 The Culture of Amazonian forests. In *Natural Resource Management by Indigenous and Folk Societies in Amazonia*. Edited by Darrell Posey and William Balée. *Advances in Economic Botany* 7. The New York Botanical Garden, New York, pp. 1-21.

Peters, Charles 2000 Precolumbian Silviculture and Indigenous Management of Neotropical Forests. In *Imperfect Balance: Landscape Transformations in the Precolumbian Americas*. Edited by David Lentz, Columbia University Press, New York, pp. 203-223.

OPTIONAL:

Carneiro, Robert L. 1988 Indians of the Amazon Forests. In *People of the Tropical Rain Forest*. Edited by Julie Sloan Denslow and Christine Padoch, University of California Press, Berkeley,

pp. 73-86.

November 7: Pre-Columbian Transformation of the Amazon.

Erickson, Clark L. 2008 Amazonia: The Historical Ecology of a Domesticated Landscape. In *Handbook of South American Archaeology*. Edited by Helaine Silverman and William Isbell, Springer, New York, pp. 157-184.

Denevan, William M. 2006 Pre-European Forest Cultivation in Amazonia. In *Time and Complexity in Historical Ecology: Studies in the Neotropical Lowlands*. Edited by William Balée and Clark Erickson, Columbia University Press, New York, pp. 153-163. [skim the sections about terra preta, black earth or ADE; a topic for a later lecture]

OPTIONAL:

Mann, Charles 2000 Earthmovers of the Amazon. *Science* 287(5454):786 - 789.

Erickson, Clark L. 2006 The Domesticated Landscapes of the Bolivian Amazon. In *Time and Complexity in Historical Ecology: Studies in the Neotropical Lowlands*. Edited by William Balée and Clark Erickson, Columbia University Press, New York, pp. 235-278.

Erickson, Clark 2000 An Artificial Landscape-Scale Fishery in the Bolivian Amazon. *Nature*. 408:190-193.

November 12: The Domestication of Landscapes: Amazonian Black Earths

Mann, Charles 2002 The Real Dirt on Rainforest Fertility. *Science* 297:920-923.

Heckenberger, Michael 2009 Lost Cities of the Amazon. *Scientific American* 301(4):64-71.

OPTIONAL:

Mann, Charles 2000 The Good Earth: Did People Improve the Amazon Basin? *Science* 287(5454):788.

Erickson, Clark 2003 Historical Ecology and Future Explorations. In *Amazonian Dark Earths: Origin, Properties, Management*. Edited by Johannes Lehmann, Dirse C. Kern, Bruno Glaser, and William I. Woods editors Kluwer, Dordrecht, pp. 455-500.

November 14: The Andes: A Built Environment; Applied Archaeology

Erickson, Clark L. 2003 Agricultural Landscapes as World Heritage: Raised Field Agriculture in Bolivia and Peru. In *Managing Change: Sustainable Approaches to the Conservation of the Built*

Environment. Edited by Jeanne-Marie Teutonico and Frank Matero, Getty Conservation Institute in collaboration with US/ICOMOS, Oxford University Press, Oxford, pp. 181-204.

OPTIONAL:

Erickson, Clark L. 2000 The Lake Titicaca Basin: A Pre-Columbian Built Landscape. In *Imperfect Balance: Landscape Transformations in the Precolumbian Americas*. Edited by David Lentz, Columbia University Press, New York, pp. 311-356.

November 19: The Signature of Settled Life and Farming on the Landscape

TEXTBOOK:

Redman: Chapter 5 (skim; you already read this for an earlier lecture/discussion) reread/skim pages 82-96 (Soils); page 101 (Erosion), pages 110-117;

Stocking, Michael 1996 Soil Erosion: Breaking New Ground. In *The Lie of the Land: Challenging Received Wisdom on the African Environment*, Edited by Melissa Leach and Robin Mearns, International African Institute, London, pp. 140-154.

Fairhead, James and Melissa Leach 1996 Thinking the Forest-Savanna Mosaic: Colonial Science and its Relics in West Africa. In *The Lie of the Land: Challenging Received Wisdom on the African Environment*. Edited by Melissa Leach and Robin Mearns, International African Institute, London, pp. 105-121

OPTIONAL:

Lansing, J. Stephen and James N. Kremer 1993 Emergent Properties of Balinese Water Temple Networks: Coadaptation on a Rugged Fitness Landscape. *American Anthropologist* 95(1):97-114.

November 21: Cities in the Tropical Forest: the Maya

Diamond, Jared 2008 The Maya Collapses. In *Reading Archaeology: An Introduction*. Edited by Robert J. Muckle, Broadview Press, pp. 347-361.

Sabloff, Jeremy 2008 Chapter 2: Lessons from the Past? In *Archaeology Matters: Action Archaeology in the Modern World*. Left Coast Press, Walnut Creek, pp. 33-45.

Harrison, Peter 2001 Maya Agriculture at Tikal. In *Maya: Divine Kings of the Rain Forest*. Edited by Nicolai Grube. Könemann, Cologne/Oxford, Pp. 218-231. (plus Marta Grube on Maize and Food, 4 pages).

OPTIONAL:

Scarborough, Vernon L. 2003 Chapter 8: Archaeological Case Studies—New World. In *The Flow of Power: Ancient Water Systems and Landscapes*. School of American Research Press, Santa Fe, pp. 107-125.

November 26: The Jungle as Pharmaceutical Cornucopia; Shamanism, Ethnobotany, Biosprospecting, Intellectual Property Rights.

Balick, Michael and Robert Mendelsohn 1992 Assessing the Economic Value of Traditional Medicines in the Tropical Rain Forests. *Conservation Biology* 6(1):128-130.

Balick, Michael, Rosita Arvigo, Leopoldo Romero 1994 The Development of an Ethnobotanical Forest in Belize: Its Role in the Preservation of Biological and Cultural Diversity. *Conservation Biology* 8(1): 316-317.

Greaves, Tom 1994 IPA: A Current Survey. In *Intellectual Property Rights for Indigenous Peoples, A Sourcebook*. Edited by Tom Greaves, Society for Applied Anthropology, Oklahoma, pp. 3-16.

Frazer, Jim 2004 Pharmaceutical El Dorado: Fact or Fancy? *South American Explorer* 75:16-22.

OPTIONAL:

King, S. R. 1994 Establishing Reciprocity: Biodiversity, Conservation, and New Models for Cooperation between Forest-Dwelling People and the Pharmaceutical Industry. In *Intellectual Property Rights for Indigenous Peoples, A Sourcebook*. Edited by Tom Greaves, Society for Applied Anthropology, Oklahoma, pp. 69-82.

November 28: Thanksgiving Break (no class)

December 3: Native Peoples and Green Politics: An Uneasy Alliance; Ecotourism, Cultural Tourism, National Parks, and Native Peoples.

Conklin, Beth A. and Laura Graham 1995 The Shifting Middle Ground: Amazonian Indians and Eco-Politics. *American Anthropologist* 97(4):695-710.

Schwartzman, Stephen, Adriana Moreira, and Daniel Nepstad 2000 Rethinking Tropical Forest Conservation: Perils in Parks. *Conservation Biology* 14(5): 1351-1357.

Redford, Kent H. and Steven Sanderson 2000 Extracting Humans from Nature. *Conservation Biology* 14(5):1362-1364.

Schwartzman, Stephen, Daniel Nepstad, and Adriana Moreira 2000 Arguing Tropical Forest

Conservation: People versus Parks. *Conservation Biology* 14(5): 1358-1361.

Coordinating Body of Indigenous Peoples Organizations 1990 We are Concerned. *Orion* (Summer) pp. 36-37.

OPTIONAL:

Clay, Jason 1992 Buying into the Forests: A New Program to Market Sustainably Collected Tropical Forest Products Protects Forests and Forest Residents. In *Conservation of Neotropical Forests: Working from Traditional Resource Use*. Edited by Kent Redford and Christine Padoch, Columbia University Press, New York, pp. 400-415.

Rubenstein, Steven 2004 Steps to a Political Ecology of Amazonia. *Tipiti* 2(2):131-176.

December 5: Cities in the Desert

Reading to be announced.

December 10: Nature Reserves With or Without Native People, The Role of Humans in Shaping the Past and the Future

Chapin, Mac 2004 A Challenge to Conservationists. *World Watch* November-December 2004 pp. 17-31.

World Watch 2005 From Readers (responses to “A Challenge to Conservationists” by Mac Chapin). *World Watch* January-February 2005 pp. 5-20.

Bailey, Robert C. 1996 Promoting Biodiversity and Empowering Local People in Central African Forests. In *Tropical Deforestation: The Human Dimension*. Edited by Leslie Sponsol, Thomas Headland, and Robert Bailey, Columbia University Press, New York, pp. 316-341. [skim]

Pimm, Stuart L. et al. 2001 Can We Defy Nature’s End? *Science* 293:2207-2208.

Hunter, Malcolm 1996 Benchmarks for Managing Ecosystems: Are Human Activities Natural? *Conservation Biology* 10(3):695-697.

Janzen, Daniel 1998 Gardenification of Wildland Nature and the Human Footprint. *Science* 279 (5355): 1312.