

SYLLABUS

- TITLE:** **ANTH 415 Ecological Anthropology**
(Theory) 3 credits
- TIME:** 10:30-11:45 a.m., Tuesdays and Thursdays
Fall Semester 2008
- PLACE:** Saunders Hall 345, University of Hawai`i @ Manoa
- INSTRUCTOR:** Dr. Les Sponsel, Professor
Director, Ecological Anthropology Program
- Office: Saunders Hall 317
Office hours: 12:00-3:00 p.m., Thursdays
Office phone: 956-8506
- Email: sponsel@hawaii.edu
Homepage: <http://www.soc.hawaii.edu/Sponsel>

ORIENTATION

“True security rests on a supportive and sustainable ecological base, on spiritual as well as material well-being, on trust and reliance in one’s neighbors, and on justice and understanding in a disarmed world” (Frank Barnaby, ed., 1988, *The Gaia Peace Atlas*, New York, NY: Doubleday, p. 212).

"A thing is right when it tends to preserve the integrity, stability, and beauty of the biotic community. It is wrong when it tends otherwise" (Aldo Leopold, 1949, "The Land Ethic" *A Sand County Almanac*, New York: Oxford University Press, p. 262).

Ecological anthropology is a mature topical specialization that crosscuts the five subfields of anthropology and has its own separate unit within the American Anthropological Association (Anthropology and Environment Section); three journals (*Human Ecology*, *Journal of Ecological Anthropology*, *Ecological and Environmental Anthropology*); six publisher's series; several dozen textbooks; website (<http://www.eanth.org>); listserv (EANTH-L@LISTSERV.UGA.EDU); and so on. The listserv membership consists of over 1,100 individuals. UH undergraduate and graduate students may specialize in this subject through the optional *Ecological Anthropology Program* in which 415 is the required core course (www.soc.hawaii.edu/Sponsel).

Ecological anthropology explores *how culture influences the dynamic interactions between human populations and the ecosystems in their habitat through time*. This semester the course successively surveys the following five primary approaches: primate ecology, cultural ecology, historical ecology, political ecology, and spiritual ecology. The secondary approaches of paleoecology, ethnoecology, behavioral ecology, postmodern ecology, and environmental anthropology will be subsumed under the primary ones and only briefly considered because of time constraints. Each of the five primary approaches will be critically analyzed through two overview PowerPoint lecture drawing on the manuscript of a textbook the instructor is writing and also through one or more particular case studies including some from the instructor's fieldwork in the Venezuelan Amazon and Thailand. Videos and student discussions will also illustrate each of these approaches. Secondary themes are Hawai'i, global warming and environmental change, and the relationships between biological and cultural diversity.

For more background see the instructor's homepage.

Anth 152 or 200, a basic course in biology or ecology, or consent of the instructor are prerequisites for this course.

FORMAT

A diversity of venues will be used to survey ecological anthropology including lectures, videos, and class discussions. Assigned readings will be discussed in small groups each led by a graduate student facilitator followed by discussion with the class as a whole coordinated by the instructor. Some discussions may be held online instead of in a class meeting, especially during November when classes are sacrificed by two holidays (November 4, 11) and the instructor's trip to the annual convention of the American Anthropological Association (November 20). Segments from the CNN documentary "Planet in Peril" will be shown throughout the semester when especially relevant to the topic under consideration.

This course is designated as Writing Intensive. Thus, the instructor will comment on the style as well as contents of written exercises. Grammatical and spelling errors will also be noted if serious or repetitive, although students should regularly use the grammar and spelling checks on their word processor for essays. There will be four essay quizzes and a final examination, the latter composed of two essays, and all of these exercises are take-home to save precious class

time and relieve stress of an artificial examination situation in class.

OBJECTIVES

This course aims to help students explore and become familiar with these six topics in particular:

1. five primary approaches in current *ecological anthropology* and the key concepts and principles of each in historical perspective;
2. practical environmental *problems and issues* as well as environmental discourses viewed from the perspective of these approaches;
3. the pivotal role of *culture* in human ecology, adaptations, maladaptations, environmental change, and environmental concerns;
4. how people *culturally* conceptualize, manipulate, transform, and humanize their natural environments over time;
5. ecological and anthropological *thinking* about the above and the larger context of the development of ecology and environmentalism; and
6. key *resource materials* such as books, encyclopedias, periodicals, bibliographies, videos, and web sites as revealed in this syllabus and in lectures and assigned readings.

Accordingly, the learning outcomes of this course are for every student to demonstrate some familiarity with each of the above six topics through the four quizzes, the final examination, and class discussions.

GRADE

The final course grade will be based on the following:

1. one take-home *quiz* (one page only, typed single-spaced) on each of the second through fifth approaches covering the corresponding lectures, discussions, videos, assigned readings, and other course materials each due as indicated in the Schedule (40%);
2. two essays (2-3 pages each, typed single-spaced) for a *final* take-home examination reflecting on the course as a whole and drawing on the quiz essays due December 16 by noon (40%); and
3. regular, active, and meaningful *participation* in class discussion, especially for the scheduled required reading assignments (20%). *Students who are not inclined to actively participate in class discussions should drop the course.*

Note that the questions and instructions for both the quizzes and the final examination are included in this syllabus so that self-disciplined students may work on it throughout the entire semester. Students should take advantage of this opportunity, rather than procrastinate until each quiz is due or until the semester nears an end for the final examination. Furthermore, the essays comprising the four quizzes should provide a foundation for gradually drafting the final examination *throughout* the semester. These are all take-home exercises and thus open book which should relieve some anxiety and pressure. Moreover, it is more realistic than memorizing for surprise questions to be answered within a restricted time in class.

Student work will be evaluated on the basis of these four criteria:

1. *general knowledge* of all required reading assignments and of all material presented and discussed in class:
2. clear, concise, logical, analytical, and critical *thinking*;
3. achieving the six *objectives* of the course: and
4. regular, active, and meaningful *participation* in class discussion.

Undergraduate and graduate students will be graded separately, and a higher quality and quantity of work is expected for the latter. Graduate students are also expected to undertake extra readings of their choice in pursuing their own special topical and regional interests. In addition, graduate students will each lead subgroups of the class in discussions of the assigned readings.

Class **attendance** will be taken regularly. Students are expected to attend every single class meeting throughout the entire semester, unless a convincing written excuse is provided such as from a medical doctor. Every three unapproved absences will result in the lowering of the final course grade by one letter grade. Students are expected to arrive at class on time and to remain attentive throughout the entire period (that is, no sleeping, regular conversation, video games, emailing, reading newspapers, and the like). *Any students who wish to sleep or to carry on private conversations should do so outside of the classroom to avoid distracting other students and the instructor.* In short, like the instructor, students are expected to take this class seriously. Anyone who does not is wasting the time of other students and the instructor; thus, they should drop the course immediately instead of waiting for a poor or failing grade at the end of the semester.

Students are required to be open minded as well as courteous and professional in class. *Anyone can say anything as long as it is relevant, concise, and polite.* Being concise is important because the time in class is very limited and everyone who wishes should have an opportunity to contribute to the discussion, rather than one or a few persons dominating the class for an entire semester. The ideals of freedom and democracy apply in this class, even if they are restricted elsewhere. Ideally the university is a place to open minds, rather than to close them.

Extra credit may be earned by writing a one-page reaction (not summary) to a video, journal article, book chapter, lecture, or website from any of the material covered in the syllabus or class. Five high-quality extra credit papers can make the difference for a borderline course grade, while ten such papers can elevate the grade to the next level. Other alternatives for more extra credit include writing either a review of an extra book or a research report, but in any case the specifics have to be approved by the instructor in advance. Thus, in principle, with enough high quality work any student can earn an A in this course.

TEXTBOOKS AND OTHER READINGS

Every student is required to thoroughly read and critically discuss in class each of these three **textbooks**.

Marten, Gerald G., 2003, *Human Ecology: Basic Concepts for Sustainable Development*, London, UK: Earthscan Publications Ltd. (New \$25.40 and used \$11.29 at Amazon.com).

Merchant, Carolyn, 2005, *Radical Ecology: The Search for a Sustainable World* (Second Edition), New York, NY: Routledge. (New \$24.95 and used \$15.85. [Be sure to use the Second Edition which is substantially different from the first one].

Townsend, Patricia K., 2009, *Environmental Anthropology: From Pigs to Policies*, Prospect Heights, IL: Waveland Press, Inc. (Second Edition) (New \$13.95). [Be sure to use the Second Edition which is substantially different from the first one].

Note that the prices quoted above are from Amazon.com. Outside online orders will add shipping and handling charges, but used copies may still be cheaper.

The regular three textbooks should be available in the UH Bookstore for anyone who may wish to purchase one or more of them. Furthermore, the UH Bookstore now makes available purchases online: www.bookstore.hawaii.edu.

These textbooks may also be available through local bookstores (e.g., Borders, Barnes and Noble) or an internet bookseller. Some internet booksellers are:

<http://www.amazon.com>

<http://www.alibris.com>

<http://www.abebooks.com>.

<http://www.bestbookbuys.com>

<http://www.booksamillion.com>

Students may reduce the cost of texts by purchasing used copies, reselling them at the end of the semester to the bookstore, and/or sharing them.

In addition, some book chapters and journal articles will be assigned. Numerous other resources are recommended in the full Schedule of this syllabus. Students are encouraged to occasionally read journal articles or book chapters, view extra videos, and explore web sites recommended in the syllabus and during classes. The bibliography in Part II of this syllabus was assembled mainly from the *Anthropology Index Online* and *Abstracts in Anthropology* through the *Hawai'i Voyager* at Hamilton Library, the *AnthroSource* of the American Anthropological Association, and the instructor's files. Only a few citations were selected from the following three periodicals, and interested students should explore their online indexes where they can also find some of the articles free:

Ecological and Environmental Anthropology (2005-)

<http://www.uga.edu/eea>

Human Ecology: An Interdisciplinary Journal (1972-)

<http://www.springerlink.com/content/101592>

Journal of Ecological Anthropology (1997-)

<http://shell.cas.usf.edu/~jea/>.

Also extremely useful is the *Annual Review of Anthropology* (see Hamilton Library Hawai'i Voyager catalog for print and online versions).

Please alert the instructor if there any problems with any of the web sites listed in this syllabus.

Note that this syllabus and related materials are available on the instructor's homepage under Courses in the file 415: <http://www.soc.hawaii.edu/Sponsel>.

Note on the Schedule that the list of required readings is concentrated on certain dates when the entire class period will be devoted to their discussion rather than spread out evenly throughout the semester. *Accordingly, students should plan and read ahead to cover the material gradually in a manageable way instead of waiting until the last moment to try to read everything in preparation for class discussion on the specified day.*

Students who take advantage of as many of the resources provided in this course as feasible will obtain a systematic and thorough overview of the subject; those who do not are short-changing their own education and future. Students who are not prepared to make a substantial investment of time and effort in this course should drop it immediately, rather than wait until the end of the semester to receive a poor grade or even fail.

If any student feels the need for reasonable accommodations because of the impact of a

disability, then they should contact the KOKUA Program in QLCSS 013 (phones 956-7511 or 956-7612), or speak to the instructor in private to discuss specific needs. The instructor is quite willing to collaborate with any student and KOKUA about access needs related to a documented disability.

Students can avoid getting lost among the trees in the forest of the schedule, readings, and other course materials by keeping in focus the *specific pivotal question and primary issue identified under each of the five approaches*. Before presenting the full Schedule, here is a brief summary of the syllabus so far, this followed by a brief schedule of topics and a list of reading assignments.

SUMMARY

This course surveys five primary approaches in ecological anthropology to studying how culture influences the interaction between humans and nature: primate, cultural, historical, political, and spiritual ecology.

Most approaches will be covered through a combination of a background video, an overview lecture with PowerPoint for two periods, case study from the instructor's research in the Amazon or Thailand presented as an illustrated lecture, and class discussion of assigned readings.

Three textbooks and a few additional selected articles and book chapters are required as reading. See Reference Works and Publisher's Series on pp. 127-130 and 130.

The final grade for the course will be based on class attendance and participation as well as on four quizzes and a final examination composed of two essays, all of them take-home, and the questions are already identified in the syllabus.

Detailed guidelines for quizzes and the final examination are provided at the end of the syllabus (see pp. 125-126 and 126-127).

BRIEF SCHEDULE

I. INTRODUCTON AND BACKGROUND

AUGUST

26 T Lecture: Ecocide or Ecosanity?, Video: *Yepi* (11 min.) [syllabus page 9]

28 Th continued GM1, PTI, CM I, 1-2 [11]

SEPTMEBER

2 T Video: *Population* (DVD 3002, 7.5 min.), Discussion, GM 4-8, PT 10 [20]

II. PRIMATE ECOLOGY

4 Th Lecture: **Why aren't humans chimpanzees?** [28]

9 T Case: Coconut Picking Monkeys in Southern Thailand (video segment) [31]

III. CULTURAL ECOLOGY

11 Th Video: *Ecology of Mind* (VHS 6355, Part 4, 60 min.) [33]

16 T Lecture: **How can humans be both a part of and apart from nature?** [33]

18 Th continued [38]

23 T Video: *Amazon: Land of the Flooded Forest* (VHS 8765, 50 min.) PT 5 [38]

25 Th Case: Indigenous Adaptations to Poor Ecosystem in Amazon [39]

30 T Case: Wildlife Use by Buddhists and Muslims in Thailand [41]

OCTOBER

2 Th Discussion, PT 2-3, 11 [42]

IV. HISTORICAL ECOLOGY

7 T Ahuapua`a Fishponds and Lo`i (Hawai`i) (VHS 7194, 90 min.), **Quiz 1** [52]

9 Th Lecture: **Is human nature anti-nature?** [58]

14 T continued [66]

16 Th Case: Thailand [66]

21 T Case: Estonia, Discussion [68]

V. POLITICAL ECOLOGY

23 Th Video: *Mini-Dragons: Thailand* (VHS 10571, 60 min.) [69]

28 T Lecture: **Could genuine justice restore ecosanity?** [69]

30 Th continued [90]

NOVEMBER

4 T Election Day [90]

6 Th Case: Gold Mining and Yanomami in Amazon, Video: *Contact: Yanomami Indians of Brazil* (VHS 4962, 40 min.), **Quiz 2** [90]

11T Veteran's Day [95]

13 Th Discussion, PT 6-8,12, CM3, 6-8 [95]

VI. SPIRITUAL ECOLOGY

18 T Lecture: **Is religion the ultimate answer to the ecocrisis?** PT 9 [95]

20 Th Video: *Mauna Kea: Temple Under Siege* (Hawai'i, VHS 21514, 69 min.) [100]
 25 T Lecture continued [103]
 27 Th Thanksgiving Holiday [108]

DECEMBER

2 T Case: Illuminating Darkness: The Monk-Cave-Bat-Ecosystem Complex in Thailand,
Quiz 3 [109]
 4 Th Discussion, GM 9, PT 4, 13, CM 4-5 [115]

VII. CONCLUSION

9 T Video: *Radically Simple* (DVD 5963, 35 min.), Discussion, GM 10-12, CM 9,
 Conclusion [116]
 11 Th continued [124]

16 T **Quiz 4** and **final examination** (two essays) due by noon in the instructor's mailbox in the Department of Anthropology office in Saunders Hall 346. [124]

FULL SCHEDULE

I. INTRODUCTON AND BACKGROUND

August 26 T Lecture: **Ecocide or Ecosanity?**
 Issues: **Why ecological anthropology? Why diversity?**

Video segment: *Planet in Peril: Ch. 1 Introduction*
 Video: *Yepi* (11 min.)

Recommended websites: <http://www.cnn.com/SPECIALS/2008/planet.in.peril>

<http://www.soc.hawaii.edu/Sponsel>

Required reading:

Syllabus (pages 1-8)

“Ecological Anthropology,” Leslie E. Sponsel, 2007, *Encyclopedia of Earth*
http://www.eoearth.org/article/Ecological_anthropology

Recommended web sites on training in ecological and environmental anthropology:

Anthropological Center for Training and Research on Global Environmental Change, Indiana University

<http://www.indiana.edu/~act/http://www.indiana.edu/~act/>

Anthropology and Environment Section, American Anthropological Association

<http://www.eanth.org>

<http://www.aaanet.org> (see A&E under units and interest groups)

Ecological Anthropology Program, University of Florida

<http://www.anthro.ufl.edu>

Ecological Anthropology Program, University of Hawai`i

<http://www.anthropology.hawaii.edu>

Ecological and Environmental Anthropology, University of Georgia

<http://www.anthro.dac.uga.edu>

Ecological and Environmental Graduate Concentration, University of Arizona

<http://www.arizona.edu/anthro/>

Environmental Anthropology, Portland State University

<http://www.anthropology.pdx.edu/environmental.html>

Environmental Anthropology, Conservation Biology, and Ethnobotany, University of Kent, Canterbury, England

<http://www.ukc.ac.uk/anthropology>

<http://www.eci.ox.ac.uk/humanecology.html>

Environmental Anthropology Program, Rutgers University

<http://anthro.rutgers.edu>

Environmental Anthropology, University of Washington, Seattle

<http://www.anthro.washington.edu/>

Environmental Change Institute, Oxford University
<http://www.eci.ox.ac.uk/humanecology.html>

Ethnobiology Society of the University of Hawai`i
<http://www.botany.hawaii.edu/ethnobia/>

Human Evolutionary Ecology Program, University of New Mexico
<http://www.unm.edu/~anthro>

University of North Texas Applied Anthropology MA Online
<http://www.unt.edu/pais/grad/gapan.htm>

August 28 Th Continued

M1, PT I, CM I, 1-2

Recommended videos:

An Inconvenient Truth [Al Gore on global warming] (DVD 4726, 96 min.)

The Ecological Footprint: Accounting for a Small Planet (30 min.)

The Future of Life (V1144, 47 min.)

Listen to the Forest [Hawai`i] (9093, 55 min.)

Lord of the Ants [E.O. Wilson, NOVA] (55 min.)

Maoli No: Truly Native (Hawaii) (DVD 2834, 80 min.)

May Earth Live: A Journey Through The Hawaiian Forest (VHS 19381, 57 min.)

Web of Life (VHS 12109, 58 min.)

Recommended reading:

William M. Adams, et al., 2004, "Biodiversity Conservation and the Eradication of Poverty,"

Science 306:1146-1149.

Paul L. Angermeier, 2000, "The Natural Imperative for Biological Conservation," *Conservation Biology* 14(2):373-381.

Robert Barbault, 2001, "Loss of Biodiversity, Overview," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 3:761-775.

Fikret Berkes, 2001, "Religious Traditions and Biodiversity," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 5:109-120.

S. Brechin, et al., 2002, "Beyond the Square Wheel: Toward a More Comprehensive Understanding of Biodiversity Conservation as Social and Political Process," *Society and Natural Resources* 15(1):41-64.

Harold Brookfield and Christine Padoch, 1994, "Appreciating Agrodiversity: A Look at the Dynamism and Diversity of Indigenous Farming Practices," *Environment* 36:6-11, 37-45.

Donald A. Brown, 2001 (Fall), "The Ethical Dimensions of Global Environmental Issues," *Daedalus: Journal of the American Academy of Arts and Sciences* 130(4):59-76.

Stephen B. Brush, 1999, "Bioprospecting the Public Domain," *Cultural Anthropology* 14(4):535-555.

David G. Casagrande, 2004, "Conceptions of Primary Forest in a Tzeltal Maya Community: Implications for Conservation," *Human Organization* 63(2):189-202.

Elizabeth Cashdan, 2001, "Ethnic Diversity and Its Environmental Determinants: Effects of Climate, Pathogens, and Habitat Diversity," *American Anthropologist* 103(4):968-991.

R. Cline-Cole, 1996, "African and Africanist Biodiversity Research in a Neo-liberal Context," *Africa* 66(1):145-159.

P. Cox, 2000, "Will Tribal Knowledge Survive the Millennium?," *Science* 287:44-45.

Alfredo D. Cuarón, et al., 2000, "Habitat Disturbance and Tropical Rainforest Mammals," *Conservation Biology* 14(6):1574-170.

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

Paul Ehrlich, and Claire Kremen, 2001, "Human Effects on Ecosystems," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 3:383-393.

Arturo Escobar, 1998, "Whose Knowledge, Whose Nature? Biodiversity, Conservation, and the Political Ecology of Social Movements," *Journal of Political Ecology* 5:53-82.

James A. K. Gaston and A. Balmford, 2001, "Can We Afford to Conserve Biodiversity?," *BioScience* 51(1):43-52.

H. Geist, and E. Lambin, 2002, "Proximate Causes and Underlying Driving Forces of Tropical Deforestation," *BioScience* 52:143-150.

Jaboury Ghazoul and Julian Evans, 2001, "Deforestation and Land Clearing," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 2:23-36.

Jenn Goodman, 2006 (Summer), "Indigenous Voices Largely Unheard at U.N. Biodiversity Conference," *Cultural Survival Quarterly* 30(2):5.

Andrew S. Goudie, 2002, "Biomes," *Encyclopedia of Global Change*, Andrew S. Goudie, Editor-in-Chief, New York, NY: Oxford University Press 1:112-116.

A.K. Gupta, 2000, "Shifting Cultivation and Conservation of Biological Diversity in Tripura, Northeast India," *Human Ecology* 28(4):605-629.

A.K. Gupta, and R. Sinha, 2001, "Environmental Conservation: Ethical Concerns," *International Encyclopedia of the Social and Behavioral Sciences*, Neil J. Smelser and Paul B. Baltes, Editors-in-Chief, New York, NY: Elsevier pp. 4602-4607.

J. Guyer, and Paul Richards, 1996, "The Invention of Biodiversity: Social Perspectives on the Management of Biological Diversity in Africa," *Africa* 66(1):1-13.

Susan S. Hanna, 2001, "Property Rights and Biodiversity," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 4:891-899.

Stefan Hauser, and Lindsey Norgrove, 2001, "Effects of Slash-and-Burn Agriculture," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 5:269-284.

David Havlick, 2006, "Reconsidering Wilderness: Prospective Ethics for Nature, Technology, and Society," *Ethics, Place and Environment: A Journal of Philosophy and Geography* 9(1):47-62.

Frances M. Hayashida, 2005, "Archaeology, Ecology, History and Conservation," *Annual Review of Anthropology* 34:43-65.

Cori Hayden, 2003, "From Market to Market: Bioprospecting's Idioms of Inclusion," *American Ethnologist* 30(3):359-371.

Will Hurd, 2006 (Summer), "Rangers by Birth," *Cultural Survival Quarterly* 30(2):33-35 [biodiversity and conservation refugees in Ethiopia].

Eric F. Lambin, Helmut J. Geist, and Erika Lepers, 2003, "Dynamics of Land-Use and Land-Cover Change in Tropical Regions," *Annual Review of Environment and Resources* 28:205-241.

A. Fiona Mackenzie, 2003, "Land Tenure and Biodiversity: An Exploration in the Political Ecology of Murang's District, Kenya," *Human Organization* 62(3):255-266.

Sango Mahanty, and Dianne Russell, 2002, "High Stakes: Lessons from Stakeholder Groups in the Biodiversity Conservation Network," *Society and Natural Resources* 15:179-188.

Mke Mascia, et al., 2003, "Conservation and the Social Sciences," *Conservation Biology* 17(3):649-650.

Ian S. McIntosh, et al., 2004 (Spring), "Indigenous Lands or National Parks?," *Cultural Survival Quarterly* 28(1):5-71.

Jeffrey A. McNeely, 2001, "Social and Cultural Factors," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 5:285-294.

A.G. Mertig, and R.E. Dunlap, 2001, "Environmentalism: Preservation and Conservation," *International Encyclopedia of the Social and Behavioral Sciences*, Neil J. Smelser and Paul B. Baltes, Editors-in-Chief, New York, NY: Elsevier pp. 4687-4693.

M. Monasterio, 1994, "Traditional Prehistoric Ecotechnologies for the Management of Biodiversity in Latin America," *Biology International* 32:12-22.

Katy Moran, Steven R. King, and Thomas J. Carlson, 2001, "Biodiversity Prospecting: Lessons and Prospects," *Annual Review of Anthropology* 30:505-526.

Mohan Munasinghe, 2008, "Climate Change," *Earth Portal* Topic of the Week Environmental Focus: http://www.earthportal.org/?page_id=70

J. D. Nations, 2001, "Biosphere Reserves," *International Encyclopedia of the Social and Behavioral Sciences*, Neil J. Smelser and Paul B. Baltes, Editors-in-Chief, New York, NY: Elsevier pp. 1231-1235.

Lisa Naughton-Treves, Margaret Buck Holland, and Katrina Brandon, 2005, "The Role of Protected Areas in Conserving Biodiversity and Sustaining Local Livelihoods," *Annual Review of Environment and Resources* 30:219-252.

D.M. Olson, D.M., et al., 2001, "Terrestrial Ecoregions of the World: A New Map of Life on Earth," *BioScience* 51(11):933-938.

Benjamin S. Orlove and Stephen Brush, 1996, "Anthropology and the Conservation of Biodiversity," *Annual Review of Anthropology* 25:329-352.

Kristin Peterson, 2001, "Benefit Sharing for All?: Bioprospecting NGOs, Intellectual Property Rights, New Governmentalities," *POLAR: Political and Legal Anthropology Review* 24(1):78-

91.

Robert Poirier, and David Ostergren, 2002, "Evicting People from Nature: Indigenous Land Rights and National Parks in Australia, Russia, and the United States," *Natural Resources Journal* 42:331-352.

J.D. Proctor, 2001, "Concepts of Nature: Environmental and Ecological," *International Encyclopedia of the Social and Behavioral Sciences*, Neil J. Smelser and Paul B. Baltes, Editors-in-Chief, New York, NY: Elsevier pp. 10398-10404.

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

Kent Redford and Allyn Stearman, 1993, "Forest-Dwelling Native Amazonians and the Conservation of Biodiversity: Interests in Common or in Collision?," *Conservation Biology* 7(2):248-255.

C. Rosenzweig, 2001, "Climate Impacts," *International Encyclopedia of the Social and Behavioral Sciences*, Neil J. Smelser and Paul B. Baltes, Editors-in-Chief, New York, NY: Elsevier pp. 2003-2010.

Jose Sarukhan and Rodolfo Dirzo, 2001, "Biodiversity-Rich Countries," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 1:419-436.

R. Serafin, 2001, "Gaia," *International Encyclopedia of the Social and Behavioral Sciences*, Neil J. Smelser and Paul B. Baltes, Editors-in-Chief, New York, NY: Elsevier 5859-5860.

K.D. Singh, 2001, "Rainforest Loss and Change," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 5:25-32.

Eric Alden Smith, and Mark Wishnie, 2000, "Conservation and Subsistence in Small-Scale Societies," *Annual Review of Anthropology* 29:493-524.

Leslie E. Sponsel, 2001, "Human Impact on Biodiversity, Overview," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 3:395-409.

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

Michael K. Steinberg, 2001, "Valuing Diversity: The Role of 'Seed Savers' in In situ Crop Plant Conservation," *Culture and Agriculture* 23(3):41-45.

Ian R. Swingland, 2001, "Definition of Biodiversity," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 1:377-391.

David Takacs, 2001, "Historical Awareness of Biodiversity," *Encyclopedia of Biodiversity*,

Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 3:363-369.

Neetika Talwar and Jatinder Kishtwaria, 2005, "Preservation of Biodiversity: Efforts at Household Level," *Journal of Human Ecology* 17(2):149-151.

Victor M. Toledo, 2001, "Biodiversity and Indigenous Peoples," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 3:451-463.

Pris Weeks, and Shalina Mehta, 2004, "Managing People and Landscapes: ICUN's Protected Areas Categories," *Journal of Human Ecology* 15(1):1-3.

D. Western, 2000 (Spring), "Conservation in a Human-Dominated World," *Issues in Science and Technology*
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Recommended web sites:

An Inconvenient Truth [Al Gore on global warming]
<http://www.climatecrisis.net>

Biodiversity Support Program
<http://www.bsponline.org/>

Center for Biological Diversity
<http://www.biologicaldiversity.org>

Center for International Earth Science Information Network
<http://www.ciesin.org>

Climate Crisis Coalition
<http://www.climatecrisiscoalition.org>

Columbia Earthscape: An Online Resource on the Global Environment
<http://www.earthscape.org>

Earth System Science Partnership
<http://www.essp.org>

Ecological Footprint
<http://lead.org/leadnet/footprint/info.htm>

Ecology and Society (formerly *Conservation Ecology*)
<http://www.ecologyandsociety.org>

Forest Communities

<http://www.forestsandcommunities.org>

Indigenous Environmental Network/North American Indigenous Peoples Biodiversity Project

<http://www.alphacdc.com/ien>

Intergovernmental Panel on Climate Change (UNEP)

<http://www.ipcc.ch>

International Human Dimensions Programme on Global Environmental Change (IHDP)

<http://www.ihdp.uni-bonn.de>

International Indigenous Forum on Biodiversity

<http://www.iifb.net>

Kyoto Protocol

<http://unfccc.int/>

Millennium Ecosystem Assessment

<http://www.maweb.org/en/index.aspx>

Native Solutions to Conservation Refugees

<http://www.conservationrefugees.org>

Oil Change

<http://priceofoil.org>

Orion Nature Quarterly

<http://www.oriononline.org>

Pew Center on Global Climate Change

<http://www.pewclimate.org>

Real Climate: Climate Science from Climate Scientists

<http://www.realclimate.org>

Stop Global Warming

<http://www.StopGlobalWarming.org>

Terra Lingua

<http://www.terralingua.org>

E.The Environmental Magazine

<http://www.emagazine.com>

The Earth Times

<http://www.earthtimes.org>

World Climate Research Programme

<http://www.wmo.ch/web/wcrp/wcrp-home.html>

World Resources Institute

<http://www.wri.org>

World Watch Institute

<http://www.worldwatch.org>

September 2 T Issue: **What is nature?**

Video: *Population* (DVD 3002, 7.5 min.)

Video segment: *Planet in Peril: Ch. 6 Lessons of the Grey Wolf*

Discussion, GM 4-8, PT 10

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Annual Review of Ecology and Systematics QH540 .A53

Annual Review of Environment and Resources TJ 163.2 .A55

Culture, Place, and Nature: Studies in Anthropology and Environment/University of Washington Press

www.washington.edu/uwpress/

Ecological and Environmental Anthropology

<http://www.uga.edu/eea/>

Human Ecology: An Interdisciplinary Journal GF 1 .H84

<http://maxweber.hunter.cuny.edu/anthro/ecology.html>

Human Ecology Review

<http://www.societyforhumanecology.org>

Journal of Ecological Anthropology

<http://www.fiu.edu/~jea/statement.html>

Journal of Ethnobiology GN 476.7 .J68

<http://ethnobiology.org/journal>

Studies in Environmental Anthropology, Gordon and Breach Publishers

<http://www.gbhap.com>

Recommended videos:

An Inconvenient Truth [Al Gore documentary on global warming]

Human Tide (VHS 13561 60 min.)

Paul Ehrlich and the Population Bomb (VHS 14697, 60 min.)

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Ecological Society of America

<http://www.esa.org>

Environmental Advocacy and Organizing Program, Antioch University

<http://www.antiochne.edu/es/eao>

International Society for Ecology and Culture
<http://www.isec.org.uk>

La Suerte and Ometepe Biological Field Stations
<http://www.lasuerte.org>

School for Field Studies
<http://www.fieldstudies.org>

Society for Human Ecology
<http://www.societyforhumanecology.org>

T. Malthus' Home Page
<http://www.faculty.rsu.edu/~felwell/Theorists/Malthus/Index.htm>

II. PRIMATE ECOLOGY

September 4 Th Lecture: **Why aren't humans chimpanzees?**

Issue: **Do ethics and morality have any place in scientific primatology?**

Video segment: *Planet in Peril: Ch. 4. Searching for the Black Sifika*

Recommended video: *Search for the Great Apes* (VHS 2785, 60 min.)

Recommended reading:

Agustin Fuentes, 2006, "The Humanity of Animals and the Animality of Humans: A View from Biological Anthropology," *American Anthropologist* 108(1):124-132.

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Roberta Guimaraes De Souza, 2007, "The origin of hunter-gatherers' foods," *Journal of Human Ecology* 21(2):87-93.

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September 9 T Ethnoprimateology

Case: Coconut Picking Monkeys in Southern Thailand (and video)

segment)

Required reading:

Select one article on ethnoprimateology from the journal
Ecological and Environmental Anthropology 2(2)
<http://www.uga.edu/eea/>

Recommended video:

“Ethnoprimateology of *Macaca tonkeana* in Lore Lindu National Park” by Erin Riley in
Ecological and Environmental Anthropology 2006, 2(1):36 at
<http://eea.anthro.uga.edu/index.php/eea/issue/view/2>

Recommended reading:

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<http://www.indiana.edu/~primate/primates.html>

The Dian Fossey Gorilla Fund International

<http://www.gorillafund.org>

The Gorilla Foundation

<http://www.koko.org>

The Jane Goodall Institute

<http://www.janegoodall.org>

Primate Information Center, University of Wisconsin

<http://pin.primate.wisc.edu>

III. CULTURAL ECOLOGY

September 11 Th Video: *Ecology of Mind*

September 16 T Lecture: **How can humans be both a part of and apart from nature?**

Issue: **Is a materialist approach more valid and useful than a mentalist one to understand human ecology?**

Required reading:

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Recommended videos:

Baka (African Pygmies) (VHS 3354, 50 min.)
Fredrik Barth: From Fieldwork to Theory (56 min., check at Sinclair AV)
To Find the Baruya Story (Maurice Godelier fieldwork in PNG)(VHS 1677, 59 min.)
The Nuer (Sudan pastoralists)(VHS 7624, 90 min.)
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Shadows in the Forest (Efe in central African forest)(VHS 18392, 60 min.)

Recommended reading:

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September 18 Th continued

Video segment: *Planet in Peril: Ch. 2. Preparing for the Raid, Ch. 3 Raiding JJ Market*

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PT 5

September 25 Th Case: The Acid Test: Curripaco Subsistence Adaptations to an Oligotrophic Ecosystem in the Upper Rio Negro, Amazonas, Venezuela

Recommended reading:

Kaj Arhem, 1996, "The Cosmic Food Web: Human-Nature Relatedness in the Northwest Amazon," in *Nature and Society: Anthropological Perspectives*, Philippe Descola and Gisli Palsson, eds., pp. 185-204.

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David G. McGrath, 1993, "Fisheries and the Evolution of Resource Management on the Lower Amazon Floodplain," *Human Ecology* 21(2):167-195.

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Katherine Milton, 1984, "Protein and Carbohydrate Resources of the Maku Indians of the Northwestern Amazon," *American Anthropologist* 86(1):7-27.

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October 2 Th **ETHNOECOLOGY**

Issues: Mentalist versus materialist and emic versus etic approaches to human ecology.

Discussion

PT 2-3, 11

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- Michael S. Alvard, 2000, "The Potential for Sustainable Harvests by Traditional Wana Hunters in Morowali Nature Research, Central Sulawesi, Indonesia," *Human Organization* 59(4):428-440.
- Ray Barnhardt and Angayuqaq Oscar Kawagley, 2005, "Indigenous Knowledge Systems and Alaskan Native Ways of Knowing," *Anthropology and Education Quarterly* 36(1):8-23.
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http://www.routledgeanthropology.com/books/series/Studies_in_Environmental_Anthropology

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IV. HISTORICAL ECOLOGY

October 7 T Ahuapua`a Fishponds and Lo`i (Hawai`i) (VHS 7194, 90 min.), **Quiz 1**

Recommended videos:

Red Turtle Rising (VHS 18617, 52 min.)
Shark Callers of Kontu (VHS 4411, 54 min.)
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<http://www.anth.ucsb.edu>

Center for Marine Conservation
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Maritime Anthropology GN 386 .M38

October 9 Th Lecture: **Is human nature anti-nature?**
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October 14 T continued

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October 16 Th Case: **The Ecological Transition in Thailand**

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Association for Environmental Archaeology
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Environment history bibliography, Duke University
<http://www.lib.duke.edu/forest/ehback.html>

European Society for Environmental History
<http://www.eseh.org>

Recommended journals:

Forest and Conservation History (1990-1995) SD 140 .F6

Environmental History (1996-) GE 1 .E585

Environmental Review (1976-1989) HM 206 .E58

Environmental History Review (1990-1995) HM 206 .E58

Forest History (1959-1974) SD 140 .F6

Journal of Forest History (1975-1989) SD 140 .F6

October 21 T Case Study: **Wooded Meadows in Estonia**

Discussion PT 5

V. POLITICAL ECOLOGY

October 23 Th Video: *Mini-Dragons: Thailand* (VHS 10571, 60 min.)

October 28 T Lecture: **Could genuine justice restore ecosanity?**

Issue: **Is research in political ecology itself political?**

Video segment: *Planet in Peril: Ch. 7 Global Warming – Crisis or Hype?, Ch. 11 Environmental Racism*

Required reading (select one):

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<http://www.apolloalliance.org>

Conservation International

<http://www.conservation.org>

Defenders of Wildlife

<http://www.defenders.org>

Earth First!

<http://www.earthfirst.org>

Earth Island Institute

<http://www.earthisland.org>

Earth Justice

<http://www.earthjustice.org>

Earth Liberation Front

<http://www.earthliberationfront.com>

Environmental Action

<http://www.environmental-action.org>

Environmental Defense Fund

<http://www.environmentaldefensefund.org>

Forest Ethics

<http://www.forestethics.org>

Friends of the Earth

<http://www.foe.org>

Global Exchange

<http://www.globalexchange.org>

Green Belt Movement (Wangari Maathai in Kenya)

<http://www.greenbeltmovement.org>

Green Earth Foundation

<http://www.rmetzner-greenearth.org>

Green Group

<http://www.green-group.com>

Green Party

<http://www.greens.org>

Greenpeace

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Izaak Walton League

<http://www.iwla.org>

League of Conservation Voters

<http://www.lcv.org>

Mountain Institute

<http://www.mountain.org>

National Audubon Society

<http://www.audubon.org>

National Wildlife Federation

<http://www.nwf.org>

Natural Resources Defense Council

<http://www.nrdc.org>

Rainforest Action Network

<http://www.ran.org>

Rainforest Alliance

<http://www.rainforest-alliance.org>

River Keeper

<http://www.riverkeeper.org>

Rocky Mountain Institute

<http://www.rmi.org>

Ruckus Society

<http://www.ruckus.org>

Sierra Club

<http://www.sierraclub.org>

The Nature Conservancy

<http://www.nature.org>

Water Keeper

<http://www.waterkeeper.org>

World Conservation Union (IUCN)

<http://www.iucn.org>

World Rainforest Movement

<http://www.wrm.org>

World Resources Institute

<http://www.wri.org>

World Watch Institute

<http://www.worldwatch.org>

World Wildlife Fund (WWF)

<http://www.worldwildlife.org>

<http://www.panda.org>

Recommended journals:

Antipode: A Radical Journal of Geography G1 .A68

Capitalism, Nature, Socialism: A Journal of Socialist Ecology, and The Center for Political Ecology

<http://members.cruzio.com/~cns/>

Environmental Politics

Global Environmental Politics (available online)

Political Anthropology 1975-76 JA 26 .P63, 1983-89 GN 492 .P65

Political and Legal Anthropology 1991- GN 492 .P65

Political Geography JC 319 .P62

October 30 Th continued

November 4 T Election Day (no class)

November 6 Th Case: **Gold Mining and Yanomami in Amazon,**

Quiz 2

Video: *Contact: Yanomami Indians of Brazil* (VHS 4962, 40 min.)

Required reading:

Leslie E. Sponsel, 2006, "Yanomamo," *Encyclopedia of Anthropology*, H. James Birx, ed., Thousand Oaks, CA: Sage Publications 5:2347-2351. <http://www.sagepub.com>(click on Anthropology, then on *Encyclopedia of Anthropology*) [handout]

Leslie E. Sponsel, 1997, "The Master Thief: Gold Mining and Mercury Contamination in the Amazon," *Life and Death Matters: Human Rights and the Environment at the End of the Millennium*, Barbara Rose Johnston, ed., Thousand Oaks, CA: Altamira Press, pp. 99-127. [appendix update 2008 – see handout]

Recommended videos:

Amazon Journal (VHS 15243, min.)

First Contact (Australian miners in Papua New Guinea) (VHS 4397, min).

Recommended reading:

Bruce Albert, and Francois-Michel Le Tourneau, 2007, "Ethnography and Resource Use among the Yanomami," *Current Anthropology* 48(4):584-592.

Chris Ballard, and Glenn Banks, 2003, "Resource Wars: The Anthropology of Mining," *Annual Review of Anthropology* 32:287-313.

Gavin Bridge, 2004, "Contested Terrain: Mining and the Environment," *Annual Review of Environment and Resources* 29:205-259.

David G. Casagrande, 2006, "Venezuela," *Encyclopedia of Anthropology*, H. James Birx, ed., Thousand Oaks, CA: Sage Publications 5:2267-2271.

Robert K. Hitchcock, 1994, "International Human Rights, the Environment and Indigenous People," *Colorado Journal of International Environmental Law* 5(1):1-22.

Heidi Holland, and Robert J. Gregory, 2003, "Greed for Gold: The Challenge for Human Ecologists," *Journal of Human Ecology* 14(5):313-322.

A. Magdalena Hurtado, et al., 2005, "Human Rights, Biomedical Science, and Infectious Diseases among South American Indigenous Groups," *Annual Review of Anthropology* 34:639-665.

Jean E. Jackson, and Kay B. Warren, 2005, "Indigenous Movements in Latin America, 1992-2004: Controversies, Issues, and New Directions," *Annual Review of Anthropology* 34:549-573.

Barbara Rose Johnston, 1995, "Human Rights and the Environment," *Human Ecology* 23:111-123.

Susan Kirwan, 2006, "Brazil," *Encyclopedia of Anthropology*, H. James Birx, ed., Thousand Oaks, CA: Sage Publications 1:411-415.

Jacques Lizot, 1993, "Yanomami Natural Resource Use: An Inclusive Cultural Strategy," *Tropical Forests, People and Food: Biocultural Interactions and Applications to Development*, C.M. Hladik, et al., eds., London, UK: Parthenon Publishing Group, pp. 479-486.

D. Nepstad, et al., 2002, "Frontier Governance in Amazonia," *Science* 295:629-631.

Dara O'Rourke, and Sarah Connolly, 2003, "Just Oil? The Distribution of Environmental and Social Impacts on Oil Production and Consumption," *Annual Review of Environment and Resources* 28:587-617.

Richard Pace, 2004, "Failed Guardianship or ailed Metaphors in the Brazilian Amazon? Problems with 'Imagined Ecocommunities' and other Metaphors and Models for the Amazon Peasantries," *Journal of Anthropological Research* 60(2):231-260.

Leslie E. Sponsel, 1994, "The Yanomamo Holocaust Continues," *Who Pays the Price? Examining the Sociocultural Context of Environmental Crisis*, Barbara Rose Johnston, ed., Washington, D.C.: Island Press, pp. 37-46.

Leslie E. Sponsel, 1995, "Relationship Among the World System, Indigenous Peoples, and Ecological Anthropology," *Indigenous Peoples and the Future of Amazonia: An Ecological Anthropology of an Endangered World*, Leslie E. Sponsel, ed., Tucson, AZ: University of Arizona Press, pp. 263-293.

Leslie E. Sponsel, 1996, "Human Rights and Advocacy Anthropology," *The Encyclopedia of Cultural Anthropology*, David Levinson and Melvin Ember, eds., New York, NY: Henry Holt and Co., 2:602-607.

Leslie E. Sponsel, 1997, "Human Rights," *The Dictionary of Anthropology*, Thomas Barfield, ed., Oxford, UK: Blackwell Publishers, pp. 248-250.

Leslie E. Sponsel, 1997, "The Master Thief: Gold Mining and Mercury Contamination in the Amazon," *Life and Death Matters: Human Rights and the Environment at the End of the Millennium*, Barbara Rose Johnston, ed., Thousand Oaks, CA: Altamira Press, pp. 99-127.

Leslie E. Sponsel, 2001, "Advocacy in Anthropology," *International Encyclopedia of the Social and Behavioral Sciences*, N.J. Smelser and Paul B. Baltes, eds., Oxford, UK: Pergamon Press, pp. 204-206.

Sponsel, Leslie E., 2008, "Environment and Nature in the Amazon," *Encyclopedia of the History of Science, Technology, and Medicine in Non-Western Cultures*, Helaine Selin, ed., The Netherlands: Springer (Second Edition online and in print) 1:757-762.

Yumiko Uryu, et al., 2001, "Mercury Contamination of Fish and Its Implications for Other Wildlife of the Tapajos Basin, Brazilian Amazon," *Conservation Biology* 15(2):438-446.

Michael J. Watts, 2005, "Righteous Oil? Human Rights, The Oil Companies, and Corporate Social Responsibility," *Annual Review of Environment and Resources* 30:373-407.

Saleem H. Ali, 2003, *Mining, the Environment, and Indigenous Development Conflicts*, Tucson, AZ: University of Arizona Press.

Dennison Berwick, 1992, *Savages: The Life and Killing of the Yanomami*, London, UK: Hutchinson.

John H. Bodley, 1999, *Victims of Progress*, Mountain View, CA: Mayfield.

David Cleary, 1991, *Anatomy of the Amazon Gold Rush*, Iowa City, IO: University of Iowa Press.

Shelton H. Davis, and Robert O. Matthews, 1976, *The Geological Imperative: Anthropology and Development in the Amazon Basin of South America*, Cambridge, MA: Anthropology Resource Center.

Andrew Gray, 1986, *After the Gold Rush? Human Rights and Self-development of the Amarakaeri of Southeastern Peru*, Copenhagen, Denmark: International Work Group for Indigenous Affairs.

Donald A. Grinde, and Bruce E. Johansen, 1995, *Ecocide of Native America: Environmental Destruction of Indian Lands and Peoples*, Santa Fe, NM: Clear Light Publishers.

Barbara Rose Johnston, ed., 1994, *Who Pays the Price? Examining the Sociocultural Context of Environmental Crisis*, Washington, D.C.: Island Press.

Barbara Rose Johnston, ed., *Life and Death Matters: Human Rights and the Environment at the End of the Millennium*, Walnut Creek, CA: AltaMira Press.

Gordon Macmillan, 1994, *At the End of the Rainbow? Gold, Land and People in the Brazilian Amazon*, New York, NY: Columbia University.

Roger Moody, 2007, *Rocks and Hard Places: The Globalization of Mining*, New York, NY: Zed Books.

Carole Nagengast and Carlos G. Velez-Ibanez, eds., 2004, *Human Rights: The Scholar Activist*, Norman, OK: Society for Applied Anthropology.

Geoffrey O'Connor, 1997, *Amazon Journal: Dispatches from a Vanishing Frontier*, New York, NY: E.P. Dutton.

Nancy Peluso and Michael Watts, eds., 2001, *Violent Environments*, Ithaca, NY: Cornell University Press.

Debra Picchi, 2006, *The Bakairi Indians of Brazil: Politics, Ecology and Change*, Prospect Heights, IL: Waveland Press (Second Edition).

Alcida Rita Ramos, 1995, *Sanuma Memories: Dispatches from a Vanishing Frontier*, Madison, WI: University of Wisconsin Press.

Leslie E. Sponsel, ed., 1995, *Indigenous Peoples and the Future of the Amazon: An Ecological Anthropology of an Endangered World*, Tucson, AZ: University of Arizona Press.

Recommended web sites:

Cultural Survival (Cambridge, MA)
<http://cs.org>

Human Rights Tools
<http://www.humanrightstools.org>

Institute for Social Ecology
<http://www.social-ecology.org>

International Work Group for Indigenous Affairs (IWGIA)
<http://www.iwgia.org>

Project Underground
<http://www.moles.org>

Pro-Yanomami Commission
<http://www.proyanomami.org.br>

Rainforest Action Network
<http://www.ran.org>

Survival International (London, UK)
<http://www.survival-international.org>

November 11 T Veteran's Day (no class meeting)

November 13 Th Discussion, PT 6-8, 12, CM3, 6-8

VI. SPIRITUAL ECOLOGY

(Note: Also, see syllabus for 444 Spiritual Ecology on instructor's homepage).

November 18 T Lecture: **Is religion the ultimate answer to the ecocrisis?**

PT 9

Video segment: *Planet in Peril: Ch. 9 Killing Sister Dorothy Stang*,

Required reading:

Leslie E. Sponsel, 2007, "Religion, Nature and Environmentalism," *Encyclopedia of Earth* http://www.eoearth.org/article/Religion,_nature_and_environmentalism

_____, 2007, "Sacred Places and Biodiversity Conservation," *Encyclopedia of Earth*, http://www.eoearth.org/article/sacred_places_and_biodiversity_conservation

Recommended periodicals and web sites:

American Academy of Religion - Religion and Ecology Group
<http://www.religionandnature.com/aar/>

Canadian Forum on Religion and Ecology
<http://rel.queenssu.ca/cfore>

Earth Ethics
<http://www.crle.org>

EarthLight: Magazine of Spiritual Ecology NA Hamilton Library
<http://www.earthlight.org>

Ecotheology (1996-2006)
<http://www.equinoxpub.com/journals/main.asp?jref=6>
<http://www.religionandnature.com>

Environmental Ethics GF 80 .E59

Ethics, Place and Environment: A Journal of Philosophy and Geography
<http://www.tandf.co.uk/journals/titles/1366-879X.asp>

European Forum for the Study of Religion and Environment
<http://hf.ntnu.no/reInateur>

Forum on Religion and Ecology
<http://environment.harvard.edu/religion>

Journal for the Study of Religion, Nature and Culture
 (2007-)[successor to *Ecotheology*]
<http://www.religionandnature.com>

Resurgence Magazine
<http://resurgence.gn.apc.org>

ReVision: A Journal of Knowledge and Consciousness BD 161 .R48

The Trumpeter: Journal of Ecosophy QH 540.5 .T8
<http://trumpeter.athabascau.ca>

Worldviews: Environment, Culture, Religion BL 65 .N35 W675
<http://www.brill.nl/> (Click on journals > Social Sciences > Worldviews)

Recommended reading:

Jennifer Crites, 2007 (September), "Spiritual Ecology," *Malamalama* 32(3):9-11
<http://www.hawaii.edu/malamalama/2007/09/index.html>

Gary Gardner, December 2002, "Invoking the Spirit: Religion and Spirituality in the Quest for a Sustainable World," *Worldwatch Paper* #164 at: <http://www.worldwatch.org/pubs/paper/164/>

Bron Taylor, 2005, "Introduction and Reader's Guide," *The Encyclopedia of Religion and Nature*, B. Taylor, Editor-in-Chief, New York: Continuum Press (and link in essay to "Religious Studies and Environmental Concern.") at:
<http://www.religionandnature.com> (Click on "Introduction and Reader's Guide").

Kelly D. Alley, 2002, *On the Banks of the Ganga: When Wastewater Meets a Sacred River*, Ann Arbor, MI: University of Michigan Press.

E.N. Anderson, 1996, *Ecologies of the Heart: Emotion, Belief, and the Environment*, New York, NY: Oxford University Press.

Frederique Apffel-Marglin, 1999, *The Spirit of Regeneration: Andean Culture Confronting Western Notions of Development*, Atlantic Highlands, NJ: Zed Books.

David Landis Barnhill, and Roger S. Gottlieb, eds., 2001, *Deep Ecology and World Religions: New Essays on Sacred Ground*, Albany, NY: State University of New York Press.

Frederic L. Bender, 2003, *The Culture of Extinction: Toward a Philosophy of Deep Ecology*, New York, NY: Humanity Books.

Robert Brightman, 1993, *Grateful Prey: Rock Cree Human-Animals Relationships*, Berkeley, CA: University of California Press.

Joseph Epes Brown, 1992, *Animals of the Soul: Sacred Animals of the Oglala Sioux*, Rockport, MA: Element.

_____, and Roger T. Ames, eds., 1989, *Nature in Asian Traditions of Thought: Essays in Environmental Philosophy*, Albany, NY: State University of New York Press.

J. Baird Callicott, and Michael P. Nelson, 2003, *American Indian Environmental Ethics: An Ojibwa Case Study*, Upper Saddle River, NJ: Prentice-Hall.

Scott Cunningham, 1995, *Hawaiian Religion and Magic*, St. Paul, MN: Llewellyn Publishers.

De Quincey, Christian, 2002, *Radical Nature: Rediscovering the Soul*, Mountpleier, VT: Invisible Cities Press.

Philippe Descola, 1993, *The Spears of Twilight: Life and Death in the Amazon Jungle*, New York, NY: The New Press.

Joseph R. Des Jardins, 2006, *Environmental Ethics: An Introduction to Environmental Philosophy*, Belmont, CA: Thomson Higher Education.

Nigel Dudley, Liza Higgins-Zogib, and Stephanie Mansourian, 2005 (December), *Beyond Belief: Linking Faiths and Protected Areas to Support Biodiversity Conservation*, London, UK: World Wide Fund for Nature (WWF), Equilibrium, and the Alliance of Religions and Conservation (ARC)
<http://www.panda.org>

Thomas R. Dunlap, 2004, *Faith in Nature: Environmentalism as Religious Quest*, Seattle, WA: University of Washington Press.

John Einarsen, ed., 1995, *The Sacred Mountains of Asia*, Boston, MA: Shambhala.

Gottlieb, Roger S., ed., 2006, *The Oxford Handbook of Religion and Ecology*, New York, NY: Oxford University Press.

John A. Grim, ed., 2001, *Indigenous Traditions and Ecology: The Interbeing of Cosmology and Community*, Cambridge, MA: Harvard University Press.

Gyallay-Pap, Peter, and Ruth Bottomley, eds., 1998, *Towards an Environmental Ethic in Southeast Asia*, Phnom Penh, Cambodia: Buddhist Institute.

Lawrence S. Hamilton, ed., 1993, *Ethics, Religion and Biodiversity: Relations Between Conservation and Cultural Values*, Cambridge, UK: The White Horse Press.

Howard L. Harrod, 2000, *The Animals Came Dancing: Native American Sacred Ecology and Animal Kinship*, Tucson, AZ: University of Arizona Press.

Donald J. Hughes, 1983, *American Indian Ecology*, El Paso, TX: Texas Western Press.

Eric Katz, Andrew Light, and David Rothenberg, eds., 2000, *Beneath the Surface: Critical Essays in the Philosophy of Deep Ecology*, Cambridge, MA: MIT Press.

Willett Kempton, James S. Boster, and Jennifer A. Hartley, 1996, *Environmental Values in American Culture*, Cambridge, MA: MIT Press.

David Kinsley, 1995, *Ecological Spirituality in Cross-Cultural Perspective*, Englewood Cliffs, NJ: Prentice-Hall.

J. Stephen Lansing, 1991, *Priests and Programmers: Technologies of Power in the Engineered Landscape of Bali*, Princeton, NJ: Princeton University Press.

J. Stephen Lansing, 2006, *Perfect Order: Recognizing Complexity in Bali*, Tucson, AZ: University of Arizona Press.

M. Lewis, 1991, *Wagering the Land: Ritual, Capital and Environmental Degradation in the Cordillera of Luzon*, Los Angeles, CA: University of California Press.

Barbara G. Myerhoff, 1974, *Peyote Hunt: The Sacred Journey of the Huichol Indians*, Ithaca, NY: Cornell University Press.

Kay Milton, 2002, *Loving Nature: Towards an Ecology of Emotion*, New York, NY: Routledge.
Brian Morris, 2000, *Animals and Ancestors: An Ethnography*, New York, NY: Berg.

Arne Naess, 1989, *Ecology, Community and Lifestyle*, New York, NY: Cambridge University Press.

Arne Naess, 2002, *Life's Philosophy: Reason and Feeling in a Deeper World*, Athens, GA: University of Georgia Press.

Richard Nelson, 1983, *Make Prayer to the Raven: A Koyukon View of the Northern Forest*, Chicago, IL: University of Chicago Press.

Helena Norberg-Hodge, 1991, *Ancient Futures: Learning from Ladakh*, San Francisco, CA: Sierra Club Books.

Martin Palmer, 1996, *Travels Through Sacred China*, San Francisco, CA: Thorsons.

Darrell A. Posey, et al., eds., 1999, *Cultural and Spiritual Values of Biodiversity*, London, UK: Intermediate Technology Publications/UNEP.
<http://www.unep.org/Biodiversity/>

Gordon Prain, Sam Fujisaka, and Michael D. Warren, eds., 1999, *Biological and Cultural Diversity: The Role of Indigenous Agricultural Experimentation in Development*, London, UK: Intermediate Technology.

Roy A. Rappaport, 1968/1984, *Pigs for the Ancestors: Ritual in the Ecology of a New Guinea People*, New Haven, CT: Yale University Press.

Gerardo Reichel-Dolmatoff, 1971, *Amazonian Cosmos: The Sexual and Religious Symbolism of the Tukano Indians*, Chicago, IL: University of Chicago Press.

Gerardo Reichel-Dolmatoff, 1996, *Forest Within: The World View of the Tukano Amazonian Indians*, Totnes, Devon, UK: Themis.

Deborah B. Rose, 1992, *Dingo Makes Us Human: Lie and Land in an Australian Aboriginal Culture*, New York, NY: Cambridge University Press.

Loyal D. Rue, 2005, *Religion Is Not About God: How Spiritual Traditions Nurture Our Biological Nature*, New Brunswick, NJ: Rutgers University Press.

James A. Swan, 1990, *Sacred Places: How the Living Earth Seeks Our Friendship*, Santa Fe, NM: Bear & Company Publishing.

Nigel J.H. Smith, 1996, *The Enchanted Amazon Rainforest: Stories from a Vanishing World*, Gainesville, FL: University of Florida Press.

Adrian Tanner, 1979, *Bringing Home the Animals: Religious Ideology and Mode of Production of Mistassini Cree Hunters*, St. John's, New Foundland: Memorial University Institute of Social and Economic Research Study No. 23.

Valerio Valeri, 2000, *The Forest of Taboos: Morality, Hunting, and Identity among the Huaulu of the Moluccas*, Madison, WI: University of Wisconsin Press.

Piers Vitebsky, 2005, *The Reindeer People: Living With Animals and Spirits in Siberia*, Boston, MA: Houghton Mifflin.

November 20 Th Video: *Mauna Kea: Temple Under Siege* (Hawai`i, VHS 21514, 69 min.)

Recommended videos:

Ho`oku`ikahi: To Unify as One (VHS 15693, 47 minutes)

Kaho`olawe Aloha `Aina (DVD 3185, 57 min.)

Malama Halawa: The Caretaking of a Valley (O`ahu and H3 Highway)(VHS 17411, 35 minutes)

Special assignment: post a comment about the video on the course website discussion board <http://www.myuhportal.hawaii.edu>

Recommended readings:

Bacchilega, Cristina, 2001, "Hawai`i's Storied Places: Anne Kapulani Landgraf's Re-Vision of Landscape and Illustration," *History of Photography* 25(3):240-252.

Edwin Bernbaum, 2005, "Sacred Mountains," *Encyclopedia of Religion and Nature*, Bron R. Taylor, New York, NY: Thoemmes Continuum 2:1456-1460.

Edelstein, Michael R., 1995, "Cultural Relativity of Impact Assessment: Native Hawaiian Opposition to Geothermal Energy Development," *Society and Natural Resources* 8:19-31.

Kirch, Patrick V., 2003, "Temple Sites in Kahikinui, Maui, Hawaiian Islands: Their Orientation Decoded," *Antiquity* 78(299):102-114.

Kolb, Michael J., 1991, "Who Owns the Past? A Case Study on Excavating Sacred Sites on the Island of Maui, Hawai`i," *Anthropology UCLA* 18:83-99.

Lee, Georgia, 1995, "Wahi Pana o Hawai`i Nei: Sacred Sites in Hawai`i," *Rapa Nui Journal* 9(2):47-54.

Lee, Georgia, 2002, "Wahi Pana: Legendary Places on Hawai`i Island," *Inscribed Landscapes: Marking and Making Place*, Bruno David and Meredith Wilson, eds., Honolulu, HI: University of Hawai`i Press, pp. 79-92.

Davianna Pomaika`i McGregor, 2005, "Hawai`i," *Encyclopedia of Religion and Nature*, Bron R. Taylor, Editor-in-Chief, New York, NY: Thoemmes Continuum 1:748-750.

Patterson, John, 1998, "Respecting Nature: a Maori Perspective," *Worldviews: Environment, Culture, Religion* 2(1):69-78.

Ruggles, Clive, 1999, "Astronomy, Oral Literature, and Landscape in Ancient Hawai`i," *Archaeoastronomy* 14(2):33-86.

Schlehe, Judith, 1996, "Reinterpretations of Mystical Traditions: Explanations of a Volcanic Eruption in Java," *Anthropos* 91:391-409.

Judith Schlehe, and Urte Undine Fromming, 2005, "Volcanoes," *Encyclopedia of Religion and Nature*, Bron R. Taylor, ed., New York, NY: Thoemmes Continuum 2:1707-1709.

Leslie E. Sponsel, 2001, "Is Indigenous Spiritual Ecology a New Fad? Reflections from the Historical and Spiritual Ecology of Hawai`i," *Indigenous Traditions and Ecology: The Interbeing of Cosmology and Community*, John Grim, ed., Cambridge, MA: Harvard University Press, pp. 159-174.

Taylor, Paul W., 1995, "Myths, Legends and Volcanic Activity: An Example from Northern Tonga," *The Journal of the Polynesian Society* 104(3):323-346.

Becket, Jan, and Joseph Singer, 1999, *Pana O`ahu: Sacred Stones, Sacred Land*, Honolulu, HI: University of Hawai`i Press.

Crowe, Ellie, and William Crowe, 2001, *Exploring Lost Hawai`i: Places of Power, History, Mystery and Magic*, Aiea, HI: Island Heritage.

Cunningham, Scott, 1994, *Hawaiian Religion and Magic*, St. Paul, MN: Llewellyn Publications.

Klieger, P. Christiaan, 1998, *Moku`ula: Maui's Sacred Island*, Honolulu, HI: Bishop Museum.

Thompson, Vivian L., 1988, *Hawaiian Myths of Earth, Sea, and Sky*, Honolulu, HI: University of Hawaii Press.

Recommended web sites:

Hawai`i Environmental Education Association
<http://heea.edgateway.net>

Hawai`i Nature Center
<http://www.hawaiinaturecenter.org>

Kahea: The Hawaiian-Environmental Alliance
<http://www.kahea.org>

Mount Graham Coalition
<http://www.mountgraham.org>

Mauna Loa Observatory
<http://www.mlo.noaa.gov>

Na Maka o ka `Aina
<http://www.namaka.com>

UH Institute for Astronomy's Mauna Kea site
<http://www.ifa.hawaii.edu/mko>

Mauna Kea Webcams
<http://kiloaoloa.soest.hawaii.edu/current/cams/index.cgi>

November 25 T Lecture continued

Issue: Is studying religion and spirituality unscientific?

Required reading (select one of the following):

Sponsel, Leslie E., 2001, "Do Anthropologists Need Religion, and Vice Versa? Adventures and Dangers in Spiritual Ecology," in *Human Dimensions of Environmental Change: Anthropology Engages Issues*, Carole Crumley, ed., Walnut Creek, CA: AltaMira Press pp. 177-200.

_____, 2005, "Spiritual Ecology: Toward an Overview in Anthropology and Beyond," paper presented at the annual meetings of the American Anthropological Association, Washington, D.C., December 3. <http://www.soc.hawaii.edu/Sponsel>

_____, 2006, "Anthropological Contributions to Spiritual Ecology: A Retrospective and Prospective Analysis," paper presented at the inaugural conference of the International Society for the Study of Religion, Nature and Culture, University of Florida, Gainesville, FL, April 8, 2006. <http://www.soc.hawaii.edu/Sponsel>

_____, 2006, "Religion and Environment," *Encyclopedia of Anthropology*, H. James Birx, ed., Thousand Oaks, CA: Sage Publications 5:2006-2009.
<http://www.sagepub.com>

_____, 2007, "Spiritual Ecology: One Anthropologist's Reflections," *Journal of Religion, Nature and Culture* 1(3):340-350.
<http://www.soc.hawaii.edu/Sponsel>

Recommended reading:

William S. Abruzzi, 2000, "The Myth of Chief Seattle," *Human Ecology Review* 7(1):72-75.

Govindasamy Agoramoorthy, and Minna J. Hsu, 2007, "Ritual Releasing of Wild Animals Threatens Island Ecology," *Human Ecology* 35(2):251-254.

Richard A. Baer, et al., 2004, "From Delight to Wisdom: Thirty Years of Teaching Environmental Ethics at Cornell," *Worldviews: Environment, Culture, Religion* 8(2-3):298-322.

Jose Barreiro, 2007, "A call to consciousness on the fate of Mother Earth: global warming and climate change," *American Indian NMAI* 8(3):34-38, 40.

Per Binde, 2001, "Nature in Roman Catholic Tradition," *Anthropological Quarterly* 74(1):15-27.

Bruce A. Byers, Robert N. Cunliffe, and Andrew T. Hudak, 2001, "Linking the Conservation of Culture and Nature: A Case Study of Sacred Forests in Zimbabwe," *Human Ecology* 29(2):187-218.

Marcus Colchester, 1994, "Sustaining the Forests: The Community-based Approach in Southeast Asia," *Development and Change* 25(1):69-100.

Johan Colding and Carl Folke, 1997, "The Relations Among Threatened Species, Their Protection, and Taboos," *Conservation Ecology* [online journal] 1(1):article 6, pp. 1-13.
<http://www.ecologyandsociety.org/vol1/iss1/art6/>

Samuel R. Cook, 2001, "A vested interest: activist anthropology in the mountaintop removal debate," *Practicing Anthropology* 23(2):15-18.

Susan M. Darlington, 1998, "The Ordination of a Tree: The Buddhist Ecology Movement in Thailand," *Ethnology* 37(1):1-15.

Daniel J. Falvo, 2000, "On Modeling Balinese Water Temple Networks as Complex Adaptive Systems," *Human Ecology* 28(4):641-649.

Theodore C. Foin, and William G. Davis, 1984, "Ritual and Self-Regulation of the Tsembaga Maring Ecosystem in the New Guinea Highlands," *Human Ecology* 12(4):385-

Roger S. Gottlieb, 2004, "Earth 101," *Worldviews: Environment, Culture, Religion* 8(2-3):377-393.

Bernadette Hayes, and Manussos Marangudakis, 2001, "Religion and attitudes towards nature in Britain," *British Journal of Sociology* 52(1):139-155.

Brian A. Hoey, and Tom Fricke, 2007, "From sweet potatoes to God Almighty': Roy Rappaport on being a hedgehog," *American Ethnologist* 34(3):581-99.

Anne-Christine Hornborg, 2004, "Cosmology, Ethics and the 'Biocentric Indian'," *Acta Americana* 12(2):29-45.

Prabhakar Joshi, and Yogesh Shirvastava, 2000, "Drops of Nature Conservation - Sacred Groves," *Journal of Human Ecology* 11(5):327-330.

Eduardo Kohn, 2007, "How dogs dream: Amazonian natures and the politics of transspecies engagement," *American Ethnologist* 34(1):3-24.

- J. Stephen Lansing, and J.N. Kremer, 1993, "Emergent Properties of Balinese Water Temple Networks," *American Anthropologist* 95(1):97-114.
- J. Stephen Lansing, and John H. Miller, 2005, "Cooperation, Games, and Ecological Feedback: Some Insights from Bali," *Current Anthropology* 46(2):328-334.
- Aiah R. Lebbie and Raymond P. Gurries, 1995, "Ethnobotanical Value and Conservation of Sacred Groves of the Kpaa Mende in Sierra Leone," *Economic Botany* 49(3):297-308.
- Michael Lerner, 2000, "Ecological Sanity Requires Spiritual Transformation," *Spirit Matters*, Charlottesville, VA: Hampton Roads Publishing Company, Inc., pp. 138-164.
- Martin E. Marty, 2002, "Religion," *Encyclopedia of Global Change*, Andrew S. Goudie, Editor-in-Chief, New York, NY: Oxford University Press 2:311-313.
- Grant S. McCall, 2007, "Add shamans and stir? A critical review of the shamanism model of forage rock art production," *Journal of Anthropological Archaeology* 26(2):224-233.
- Katherine Milton, 1999 (November), "Nature Is Already Sacred," *Environmental Values* 8(4):437-449.
- Arne Naess, et al., 2006, *The Trumpeter: Journal of Ecosophy* 22(1) [special issues on Arne Naess and deep ecology]
<http://trumpeter.athabascau.ca>
- Rena K. Quinton, Michele Ciccazzo, 2007, "Influences on Eastern Orthodox Christian fasting beliefs and practices," *Ecology of Food and Nutrition* 46(5-6):469-491.
- Roy A. Rappaport, 1967, "Ritual Regulation of Environmental Relations among a New Guinea People," *Ethnology* 6:17-30.
- Gerardo Reichel-Dolmatoff, 1976, "Cosmology as Ecological Analysis: A View from the Rain Forest," *Man* 11:307-318.
- Deborah Rose, 2005, "An indigenous philosophical ecology: Situating the human" [in special issue 'Australian anthropologies of the environment'], *The Australian Journal of Anthropology* 16(3):294-305.
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Yi-Fu Tuan, 1968, "Discrepancies between Environmental Attitude and Behaviour: Examples from Europe and China," *The Canadian Geographer* 12(3):176-191.

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Recommended videos:

Baraka (LDVD 1930, 104 min., DVD 0814 104 min.)
The Goddess and the Computer (VHS 4047, 50 min.)
In the Light of Reverence (VHS 18873, 73 min.)
Keeping the Faith (VHS 13215, 40 min.)
Ladakh (VHS 11602, 86 min.)
Shark Callers of Kontu (VHS 4411, 54 min.)
Spirit and Nature (VHS 5326, 88 min.)
The Wilderness Idea (John Muir, Gifford Pinchot, and the First Great Battle for Wilderness)
 (VHS 17105, 58 min.)

Recommended web sites:

African Ritual and the Environment Conference

<http://www.ru.ac.za/anthro2003>

Alliance for Religion and Conservation

<http://www.arcworld.org>

California Institute of Integral Studies

<http://www.ciis.edu>

Cultural and Spiritual Values of Biodiversity

<http://www.unep.org/Biodiversity>

Earth Island Institute

<http://www.earthisland.org>

EarthLight: The Magazine of Spiritual Ecology

<http://www.earthlight.org>

Encyclopedia of Religion and Nature

<http://www.religionandnature.com>

University of Florida, Department of Religion, Fields of Study, Religion and Nature

<http://www.religion.ufl.edu>

Forum on Religion and Ecology at Yale University

<http://www.yale.edu/religionandecology>

Green Earth Foundation

<http://www.rmetzner-greeneearth.org>

Institute for Deep Ecology

<http://www.deep-ecology.org>

International Society for Environmental Ethics

<http://www.cep.unt.edu/ISEE.html>

Metanexus

<http://www.metanexus.net>

The Mountain Institute

<http://www.mountain.org>

National Religious Partnership for Environment

<http://www.nrpe.org>

Places of Peace and Power

<http://sacredsites.com>

Sacred Land Film Project

<http://www.sacredland.org>

Sacred Sites International

<http://www.sitesaver.org>

Schumacher College

<http://SchumacherCollege.gn.apc.org>

Spiritual Ecology Concentration, Ecological Anthropology Program, University of Hawai'i

<http://www.soc.hawaii.edu/Sponse1>

The Trumpeter: Journal of Ecosophy (recent issues on Arne Naess and deep ecology)

<http://trumpeter.athabascau.ca>

World Heritage Sites/UNESCO

<http://whc.unesco.org>

November 27 Th Thanksgiving Holiday (no class)

December 2 T Case: **Illuminating Darkness: The Monk-Cave-Bat-Ecosystem Complex in Thailand** Quiz 3

Video segment: *Bat Caves*

Recommended reading:

Alvin Y. So, and Yok-shiu F. Lee, 1999, "Environmental Movements in Thailand," *Asia's Environmental Movements: Comparative Perspectives*, Yok-shiu F. Lee and Alvin Y. So, eds., Armonk, NY: M.E. Sharpe, pp. 120-142.

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Elgene O. Box and Kazue Fujiwara, 2001, "Ecosystems of Asia," *Encyclopedia of Biodiversity*, Simon Asher Levin, Editor-in-Chief, San Diego, CA: Academic Press 1:261-291.

Caswell, James O., 2000, "Cave Temples and Monasteries in India and China," *Encyclopedia of Monasticism*, William M. Johnston, ed., Chicago, IL: Fitzroy Dearborn Publishers 1:255-263.

David C. Culver, et al., 2000, "Obligate Cave Fauna in the 48 Contiguous United States," *Conservation Biology* 14(2):386-401.

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Thomas H. Kunz, and Elizabeth D. Pierson, 1994, "Bats of the World: An Introduction," *Walker's Bats of the World*, Ronald M. Nowak, ed., Baltimore, MD: Johns Hopkins Press, pp. 1-46.

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Leslie E. Sponsel, 1998, "The Historical Ecology of Thailand: Increasing Thresholds of Human Environmental Impact from Prehistory to the Present," *Advances in Historical Ecology*, William Balee, ed., New York, NY: Columbia University Press, pp. 376-404.

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Sallie McFague, 2008, *A New Climate for Theology: God, the World, and Global Warming*, Minneapolis, MN: Fortress Press.

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Victor Turner, 1969, *The Ritual Process: Structure and Anti-structure*, Chicago, IL: Aldine.

Kenneth E. Wells, 1975, *Thai Buddhism: Its Rites and Activities*, Bangkok, Thailand: Suriyabun Publishers.

Recommended videos:

The Caves of Altamira [Spain] (VHS 8336, 26 min.)

Planet Earth (DVD 1066 Part II segment on caves)

The Tabon Caves [Philippines] (VHS 262, 25 min.)

Recommended web sites:

Bat Conservation International

<http://www.batcon.org>

Cave Biota

<http://www.cavebiota.com>

Center for Southeast Asian Studies - University of Hawai'i

<http://www.hawaii.edu/cseas>

Center for Southeast Asian Studies - University of Northern Illinois
<http://www.seasite.niu.edu>

Earth From Above: Aerial Portrait of Our Planet Towards a Sustainable Development (Yann Arthus-Bertrand)
<http://www.yannarthusbertrand.org>

Foundation for Ecological Recovery
<http://www.terraper.org>

Sustainable Development Foundation
<http://www.sdfthai.org>

Thai Buddhism
<http://www.ThaiBuddhism.net>

Thai Buddhist
<http://www.ThaiBuddhist.com>

Thai Development Research Institute
<http://www.info.tdri.or.th/>

Thai Worldview
<http://www.thaiworldview.com>

Theravada Buddhism
<http://www.accesstoinsight.org>

Sacred Sites in Thailand
<http://www.kirjon.com>

December 4 Th

Discussion, GM 9, PT 4, 13, CM 4-5

Video segment: *Planet in Peril: Ch. 12 Anderson's Reporter's Notebook*

VII. CONCLUSION

December 9 T **Under What Conditions Might a Sustainable, Green, Just, and Peaceful Society be Possible in the Future?**

Issue: Is the ecological future of humanity and the Earth a scientific, political, and/or religious matter?

Video: *Radically Simple* (DVD 5963, 35 min.)

Class discussion: GM 10-12, CM 9, Conclusion, PT 10-13

Recommended videos:

Affluenza

Can Man Survive? (VHS 4360, 28 min.)

The Environmental Revolution (VHS 18653, 50 min.)

From the Heart of the World: The Elder Brother's Warning (Kogi, Sierra Nevada, Colombia) (VHS #6070, 90 min.)

Yakoana: The Voice of Indigenous Peoples (Rio Conference) (VHS 16412, 60 min.)

<http://www.yakoana.com>

Recommended readings:

Philip Cafaro, 2001, "Thoreau, Leopold, and Carson: Toward an Environmental Virtue Ethics," *Environmental Ethics* 23(1):3-17.

K. Conca, et al., 2001, "Confronting Consumption," *Global Environmental Politics* 1(3):1-10.

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Carl Folke, Thomas Hahan, Per Olsson, and Jon Norberg, 2005, "Adaptive Governance of Social-Ecological Systems," *Annual Review of Environment and Resources* 30:441-473.

K.B. Ghimire, 1994, "Parks and People: Livelihood Issues in National Parks Management in Thailand and Madagascar," *Development and Change* 25:195-229.

H. Glasser, 2001, "Deep Ecology," *International Encyclopedia of the Social and Behavioral Sciences*, Neil J. Smelser and Paul B. Baltes, Editors-in-Chief, New York, NY: Elsevier pp. 4041-4045.

Peter H. Gleick, 2003, "Water Use," *Annual Review of Environment and Resources* 28:275-314.

Robert Goodland, 1995, "The Concept of Environmental Sustainability," *Annual Review of Ecology and Systematics* 26:1-24.

David McDermott Hughes, 2005, "Third nature: making space and time in the Great Limpopo conservation area," *Cultural anthropology* 20(2):157-84.

Robert Kaplan, 1994, "The Coming Anarchy," *Atlantic Monthly* 273(2):44-76.

Michael Klare, 2001, "The New Geography of Conflict," *Foreign Affairs* 72:22-49.

Jozef Keulartz, 2007, "Using metaphors in restoring nature," *Nature and culture* 2(1):27-48.

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C.A. Setchell, 1995, "The Growing Environmental Crisis in the World's Mega-Cities: The Case of Bangkok," *Third World Planning Review* 17:1-18.

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Amanda Stronza, 2001, "Anthropology of Tourism: Foraging New Ground for Ecotourism and Other Alternatives," *Annual Review of Anthropology* 30:261-283.

Chasca Twyman, 2000, "Participatory conservation? Community-based natural resource management in Botswana," *Geographical journal* 166(4):323-335.

Richard Wilk, 2002, "Consumption, Human Needs, and Global Environmental Change," *Global Environmental Change* 12(1):314-333.

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John H. Bodley, 2001, *Anthropology and Contemporary Human Problems*, Mountain View, CA: Mayfield Publishing Co.

Harold C. Brookfield, and Yvonne Byron, eds., 1993, *South-East Asia's Environmental Future: The Search for Sustainability*, New York, NY: Oxford University Press.

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Andrew Dobson, ed., 1991, *The Green Reader: Essays Toward a Sustainable Society*, London, UK: Deutsch.

Michael Dove, ed., 1988, *The Real and the Imagined Role of Culture in Development: Case Studies from Indonesia*, Honolulu, HI: University of Hawaii Press.

Gary Gardner, et al., 2003, *State of the World 2003: A Worldwatch Institute Report on Progress*

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Ramachandra Guha, 2000, *Environmentalism: A Global History*, Reading, MA: South End Press.

Thomas F. Homer-Dixon, 2001, *Environment, Scarcity, and Violence*, Princeton, NJ: Princeton University Press.

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Michael Klare, 2001, *Resource Wars: The New Landscape of Global Conflict*, New York, NY: Henry Holt and Co.

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Carl A. Maida, ed., 2007, *Sustainability and Communities of Place*, New York, NY: Berghahn Books.

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Christine Meyer and Faith Moosang, eds., 1992, *Living with the Land: Communities Restoring the Earth*, Philadelphia, PA: New Society Publishers.

Kay Milton, ed., 1993, *Environmentalism: The View from Anthropology*, New York, NY: Routledge.

Kay Milton, 1996, *Environmentalism and Cultural Theory: Exploring the Role of Anthropology in Environmental Discourse*, New York, NY: Routledge.

Norman Myers, 1996, *Ultimate Security: The Environmental Basis of Political Stability*, Washington, D.C.: Island Press.

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- David Pepper, 1996, *Modern Environmentalism: An Introduction*, New York, NY: Routledge.
- Andrea Pieroni, and Ina Vandebroek, eds., 2007, *Traveling Cultures and Plants: The Ethnobiology and Ethnopharmacology of Migrations*, New York, NY: Berghahn.
- Steven V. Price, 1996, *War and Tropical Forests: Conservation Areas of Armed Conflict*, London, UK: Haworth Press.
- M. Redclift, 1984, *Development and the Environmental Crisis: Red and Green Alternatives*, London, UK: Methuen.
- Kent H. Redford, and J.A. Mansour, eds., 1996, *Traditional Peoples and Biodiversity Conservation in Large Tropical Landscapes*, Arlington, VA: America Verde Publications.
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- Michael Renner, et al., 2003, *Vital Signs 2003: The Trends That Are Shaping Our Future*, New York, NY: W.W. Norton.
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S. Stevens, ed., 1997, *Conservation Through Cultural Survival: Indigenous Peoples and Protected Areas*, Washington, D.C.: Island Press.

Mathis Wackernagel, and William E. Rees, 1996, *Our Ecological Footprint: Reducing Human Impact on the Earth*, Gabriola Island, British Columbia: New Society Publishers.

David Wester, R. Wright, and S. Strum, eds., 1994, *Natural Connections: Perspectives in Community-Based Conservation*, Washington, D.C.: Island Press.

Recommended web sites:

Affluenza

<http://www.pbs.org/affluenza>

Anthropological Center for Training and Research on Global Environmental Change

<http://www.indiana.edu/~act/>

Asian Network for Sustainable Development

<http://www.garrisoninstitute.org>

<http://www.thecornerhouse.org/uk>

Biodiversity Support Program

<http://www.bsponline.org/>

Bioneers

<http://www.bioneers.org>

Biotown USA

<http://www.in.gov/biotownusa>

Center for International Forestry Research (CIFOR)

<http://www.cifor.cgiar.org/index.htm>

Earth Charter, United Nations

<http://www.earthcharter.org>

Earth From Above: An Aerial Portrait of Our Planet Towards a Sustainable Development (Yann Arthus-Bertrand)

<http://www.yannarthusbertrand.org>

Earthscan

<http://www.earthscan.co.uk>

East-West Center

<http://www.eastwestcenter.org>

Biodiversity Support Program

<http://www.bsponline.org/>

Ecological Footprint

<http://lead.org/leadnet/footprint/info.htm>

Forest Conservation Links

<http://forests.org>

Foundation for Global Community

<http://www.globalcommunity.org>

Global Forest Watch

<http://www.globalforestwatch.org>

Institute for Ecology and Action Anthropology

<http://www.infoe.de/home.html>

International Development and Environment Jobs

<http://www.devnetjobs.org/>

International Human Dimensions Programme on Global Environmental Change

http://www.uni_bonn.de/ihdp/index.html

International Society for Ecology and Culture

<http://www.isec.org.uk>

Kitchen Gardens International

<http://www.EatTheView.org>

MekongInfo

<http://www.MekongInfo.org>

Mother Earth

<http://www.motherearth.org>

One World Net

<http://www.oneworld.net/>

Peak Oil

<http://www.PeakOil.com>

Society for Applied Anthropology

<http://www.sfaa.net/>

The Orion Society - *Orion Nature Quarterly*

<http://www.OrionOnline.org>

United Nations Educational, Scientific, and Cultural Organization (UNESCO)

<http://www.unesco.org>

UNESCO - Man and the Biosphere (MAB)

<http://www.unesco.org/mab>

UN Environmental Program

<http://www.unep.ch>

UN Food and Agricultural Organization

<http://www.fao.org>

UN International Panel on Climate Change

<http://www.ipcc.ch>

World Bank

<http://www.worldbank.org>

World Conservation Monitoring Center

<http://www.unep-wcmc.org>

World Conservation Union

<http://www.iucn.org>

World Resources Institute

<http://www.wri.org>

World Summit on Sustainable Development 2002 (Rio + 10)

<http://www.johannesburgsummit.org>

World Watch Institute

<http://www.worldwatch.org>

Recommended journals:

Ambio QH 540 .A53

Applied Anthropologist

Biological Conservation S 900 .B5

BioScience QH 301 .B57

Conservation Biology QH 75 .A1 C665

Ecology and Society (formerly *Conservation Ecology*)

<http://www.ecologyandsociety.org>

Development and Change HB 82 .D387

Environment TD 180 .E53

Environmental Conservation SD 172 .E54

Human Organization GN 1 .H88

Journal of Developing Areas HC 59 .A1 J68

Journal of Developing Societies DS 1 .J693

Journal of Development Studies HC 10 .J58

Practicing Anthropology

Wildlife Conservation QL 1 .N5

World Development HC 59.7 .W67

December 11 Th continued

December 16 T **Quiz 4** and **FINAL EXAMINATION** (two essays) due by noon in the instructor's mailbox in the Department of Anthropology

office in Saunders Hall 346. (Emails and faxes will not be accepted).

APPENDIX 1 - QUIZZES

1. CULTURAL ECOLOGY How can humans be both a part of nature and apart from nature? (Due October 7 Tuesday).

2. HISTORICAL ECOLOGY Is human nature anti-nature? (Due November 6 Thursday).

3. POLITICAL ECOLOGY Could genuine justice restore ecosanity? (Due December 2 Tuesday).

4. SPIRITUAL ECOLOGY Is religion the ultimate answer to the ecocrisis? (Due December 16 Tuesday)

Each quiz comprises 10% of your total course grade.

GUIDELINES

One or more letter grades will be subtracted from the quiz for failure to follow the following guidelines.

Each quiz answer should be a clear and concise but penetrating essay. Limit your answer to one page typed single-spaced. (The instructor will not read more).

Include introductory and concluding paragraphs.

Identify by number 3-5 main points from the class coverage of the particular approach in question. Also comment on the main issue identified in the syllabus for that approach.

Instead of quotes use paraphrasing, don't waste space.

Cite several readings from the course textbooks and other sources including lecture, video, case studies, web sites, class discussion, and handouts. In each reading citation include the author, year, and page (for example, Townsend 2009:30-31). Other sources can be documented as follows: (lecture Oct. 9), (discussion Oct. 13), (video title), or (personal communication with Charles Robert Darwin). It is not necessary to append a bibliography with

the full citation of sources if they are already in the syllabus.

The purpose of the quiz is to (1) convincingly demonstrate your familiarity with the course material, (2) present a critical analysis of it, and (3) discuss your own reactions to it. Your grade will be based on this purpose plus the grading criteria and course objectives listed earlier in the syllabus. In grading the instructor will emphasize content and style, but also make corrections for any serious and repetitive grammatical and spelling errors. However, you should routinely perform a grammar and spelling check with your own computer.

Quizzes will *not* be accepted by email or fax, they must be handed to the instructor at the end of the class period in which they are due. One letter grade will be subtracted for each class period that a quiz is late.

APPENDIX 2 - FINAL EXAMINATION

Your answers for the final examination are due by noon on December 16th, Tuesday, in the instructor's mailbox in the Department of Anthropology office in Saunders Hall 346. *Late papers cannot be accepted.* Also papers cannot be accepted by email or fax.

One or more letter grades will be subtracted from the final examination score for failure to follow the following guidelines.

Please answer both of these TWO questions:

1. Write a critical book review on one of the three course textbooks: Marten, Merchant, or Townsend. (Be sure to check an issue of a journal like *Human Ecology* to see examples of book reviews, but avoid reading any published review on the book in question until after you have read the book and drafted your own review). However, as an example of a book review, see a essay in the *Journal of Political Ecology* (1999, v. 6) by Edward Liebow on the first edition of Townsend's text at the following web site:
http://jpe.library.arizona.edu/volume_6/liebowvol6.htm.

2. Write an essay focused on substantial conclusions that you have drawn from your own critical analysis of three among the primary approaches to ecological anthropology covered in the class during this semester. Your essays in answer to the quizzes should provide a foundation for gradually drafting this essay throughout the semester.

Each of these questions comprises 20% of your total course grade.

Around 2-3 pages (typed single-spaced) should be sufficient for each essay, although some students may need or prefer a little more space.

Be sure to start each essay with an introduction and end each with a conclusion. Include subheadings in the text of the essay. Cite sources in the text of your essay (e.g., Merchant pp. 25-26) and include full citations in the bibliography. (See the Townsend textbook for a standard format for citations).

Ultimately your final answers must be the product of your own individual scholarship and creativity. Any plagiarism will be rewarded with an automatic F for the final course grade and reported to the office of the Dean. However, you are welcome to consult with any individual as well as any print and internet resources, although covering the *required readings for the course is by far the most important.* Just be careful to properly acknowledge the source for very specific information, ideas, and the like, including personal communications (e.g., Charles Robert Darwin, personal communication). Be sure to include your own insights, comments, reactions, and criticisms.

The instructor is willing to comment on an outline, draft, or other initiative in developing your answers to these two essay questions. You can contact the instructor during his office hours (1:00-4:00 p.m. Thursdays, Saunders 317), by email (sponsel@hawaii.edu), or phone (956-8507).

APPENDIX 3 - SELECTED REFERENCE BOOKS

Allen, Craig W., and Robert McClenaghan, eds., 2000, *Encyclopedia of Environmental Issues*, Hackensack, NJ: Salem Press, Inc. Ref GE 10 .E52 2000.

Amit, Vered, ed., 2004, *Biographical Dictionary of Social and Cultural Anthropology*, New York, NY: Routledge. Ref GN20 .B56 2004

Ashworth, William, 1991, *Encyclopedia of Environmental Studies*, New York, NY: Facts on File. QH540.4 .A84 1991

Barfield, Thomas, ed., 1997, *The Dictionary of Anthropology*, Malden, MA: Blackwell Publishers. Ref GN 307 .E525 1996

John Barry, and E. Gene Frankland, 2002, *International Encyclopedia of Environmental Politics*, New York, NY: Routledge. Ref GE 170 .I55 2002.

Beacham, Walter, ed., 1993, *Beacham's Guide to Environmental Issues and Sources*,

Washington, D.C.: Beacham Publishing, Inc. Ref GE 115 .B43 1993

Beckel, Lothar, ed., 1998, *The Atlas of Global Change*, New York, NY: Macmillan Library. Ref GE149 G4813 1998

Beecher, Anne, 1998, *Biodiversity: A Reference Handbook*. Santa Barbara, CA: ABC-CLIO. Ref QH 541.15 .B435 1998

Beecher, Anne, 2000, *American Environmental Leaders: From Colonial Times to the Present*, Santa Barbara, CA: ABC-CLIO. Ref GE 55 .B43 2000

Birx, H. James, ed., 2006, *Encyclopedia of Anthropology*, Thousand Oaks, CA: Sage Publications. Ref GN11 .E63 2006
<http://www.sagepub.com> (Click on Anthropology and then on *Encyclopedia of Anthropology*)

Bortman, Marcl, et al., eds., 2003, *Environmental Encyclopedia*, New York, NY: Thomson Gale, Volumes I-II. Ref GE10 E58 2003

Collett, Jonathan, and Stephen Karakashian, eds., 1996, *Greening the College Curriculum: A Guide to Environmental Teaching in the Liberal Arts*, Washington, D.C.: Island Press. Ref LC 1023 .G74 1996

Cunningham, William P., et al., 1994, *Environmental Encyclopedia*, Washington, D.C.: Gale Research, Inc. Ref GE10 .E58 1994

Doyle, Kevin, et al., eds., 1999, *The Complete Guide to Environmental Careers in the 21st Century*, Washington, D.C.: Island Press. Ref GE 60 .D69 1999

Eblen, Ruth A., and William R. Eblen, eds., 1994, *The Encyclopedia of the Environment*, Boston, MA: Houghton Mifflin Co. Ref GE 10 .E53 1994

Frank, Irene, and David Brownstone, 1992, *The Green Encyclopedia*, New York, NY: Macmillan. Ref GE 10 .F73 1992

Goudie, Andrew S., and David J. Cuff, eds., 2002, *Encyclopedia of Global Change: Environmental Change and Human Society*, New York, NY: Oxford University Press. Ref GE 149 .E47 2002

Groombridge, Brian, and Martin D. Jenkins, 2002, *World Atlas of Biodiversity: Earth's Living Resources in the 21st Century*, Berkeley, CA: University of California Press. Ref QH 77 .I5 .A85 1995

Heywood, V.H., Executive Editor, 1995, *Global Biodiversity Assessment*, Cambridge, UK: Cambridge University Press. Gov Doc UNEP G51/4

Johnson, N.C., et al., eds., 1999, *Ecological Stewardship: A Common Reference for*

- Environmental Management*, Oxford, UK: Elsevier Volumes I-III. Ref GE 300 E365 1999
- Jorgensen, S.E., et al., eds., 2008, *Encyclopedia of Ecology*, San Diego, CA: Elsevier Volumes I-V. (Not yet available at Hamilton Library).
- Levin, Simon Asher, 2001, *Encyclopedia of Biodiversity*, San Diego, CA: Academic Press. Ref QH 541.15 .B56 E53 2001
- Levinson, David, Editor-in-Chief, 1991-1996, *Encyclopedia of World Cultures*, Boston, MA: G.K. Hall, GN 307 .E53 1991.
- Levinson, David, and Melvin Ember, eds., 1996, *Encyclopedia of Cultural Anthropology*, New York, NY: Henry Holt and Co. Ref GN 307 .E52 1996
- Merideth, Robert, 1993, *The Environmentalist's Bookshelf: A Guide to the Best Books*, New York, NY: G.K. Hall & Co. GF 41 .M45 1993
- Miller, Joseph A., et al., 1993, *The Island Press Bibliography of Environmental Literature*, Washington, D.C.: Island Press. QH 541 .I85 1993
- Mongillo, John, and Bibi Booth, eds., 2001, *Environmental Activists*, Westport, CT: Greenwood. Ref GE55 .E57 2001
- Mongillo, John, and Linda Zierdt-Warshaw, eds., 2000, *Encyclopedia of Environmental Sciences*, Phoenix, AZ: Oryx Press. Ref GE10 .M66 2000
- Munn, Ted, Editor-in-Chief, 2002, *Encyclopedia of Global Environmental Change*, New York, NY: John Wiley and Sons. Ref GE149 .EA43 2002
- Nelissen, Nico, Jan van der Straaten, and Leon Klinkers, eds., 1997, *Classics in Environmental Studies*, Utrecht, The Netherlands: International Books. GF 8 .C52 N4 1997
- Paehlke, Robert, ed., 1995, *Conservation and Environmentalism: An Encyclopedia*, New York, NY: Garland Publishing Co. Ref GE 10 .C68 1995
- Papadakis, Elim, 1998, *Historical Dictionary of the Green Movement*, Landham, MD: Scarecrow Press, Inc. Ref GE 195 .P36 1998
- Palmer, Joy A., ed., 2001, *Fifty Key Thinkers on the Environment*, New York, NY: Routledge.
- Ritter, Don, 1992, *Ecolinking: Everyone's Guide to Online Environmental Information*, Berkeley, CA: Peachpit Press. TD 170.2 .R57 1992
- Robbins, Paul, 2007, *Encyclopedia of Environment and Society*, Thousand Oaks, CA: Sage Publications. Ref HM856 .E53 2007

Taylor, Bron R., Editor-in-Chief, 2005, *Encyclopedia of Religion and Nature*, New York, NY: Thoemmes Continuum. Ref BL 65 .N35 2005 <http://www.religionandnature.com>

The Student Conservation Association, 1997, *The Guide to Graduate Environmental Programs*, Washington, D.C.: Island Press. Ref GE 80 .G85 1997

Warren, Thomas Reid, 1995, *Encyclopedia of Bioethics*, New York, NY: Simon and Schuster, Macmillan. Ref QH 332 .E52 1995

Wells, Edward R., and Alan M. Schwartz, 1997, *Historical Dictionary of North American Environmentalism*, Landham, MD: The Scarecrow Press, Inc. Ref GE 10 .W45 1997

Young, Peter C., ed., 1993, *Concise Encyclopedia of Environmental Systems*, New York, NY: Pergamon. Ref GE10 C66 1993

APPENDIX 4 – PUBLISHER’S BOOK SERIES

AltaMira Press – “Environmental Anthropology” and “Globalization and the Environment”
<http://www.atlamirapress.com>

Berghahn Books – “Studies in Environmental Anthropology and Ethnobiology”
<http://www.berghahnbooks.com/cats/Berghahn-EnvAnth07.pdf>

Duke University Press – “New Ecologies for the Twenty-first Century”
<http://www.dukeupress.edu/>

Left Coast Press, Inc. – “New Frontiers in Historical Ecology”
<http://www.lcoastpress.com>

Routledge – “Studies in Environmental Anthropology”
http://www.routledgeanthropology.com/books/series/Studies_in_Environmental_Anthropology

Springer – “Studies in Human Ecology and Adaptation”
<http://www.springer.com/series/6877>

University of Arizona Press – “Studies in Human Ecology” and “Society, Environment, and Place” <http://www.uapress.arizona.edu>

University of Washington Press – “Culture, Pace and Nature: Studies in Anthropology and

Environment” <http://www.washington.edu/uwpress/>

Other publishers have titles relevant to ecological and environmental anthropology but not a series focused on the subject, such as Island Press: <http://www.islandpress.com>.