

Economics 797EV: The Political Economy of the Environment

This course is a one-semester introduction to the political economy of the environment – the analysis of how scarce environmental and natural resources are allocated not only among competing ends, but also among competing individuals, groups, and classes. It is intended for graduate students with prior background in microeconomics and resource economics.

Books: The following books are available at Amherst Books (8 Main St, Amherst). Boyce 2013, Cole 2002, and Boyce, Narain & Stanton 2007 are also available as eBooks at the W.E.B. DuBois Library; the others are available there on print reserve:

Boyce, James K. (2013) *Economics, the Environment and Our Common Wealth*. Cheltenham: Edward Elgar.

Boyce, James K. (2002) *The Political Economy of the Environment*. Cheltenham: Edward Elgar.

Boyce, James K., Sunita Narain, and Elizabeth A. Stanton, eds. (2007) *Reclaiming Nature: Environmental Justice and Ecological Restoration*. London and Chicago: Anthem Press.

Boyce, James K. and Barry G. Shelley, eds. (2003) *Natural Assets: Democratizing Environmental Ownership*. Washington, D.C.: Island Press.

Cole, Daniel H. (2002) *Pollution & Property: Comparing Ownership Institutions for Environmental Protection*. Cambridge: Cambridge University Press.

Weston, Burns H. and David Bollier (2013) *Green Governance: Ecological Survival, Human Rights, and the Law of the Commons*. Cambridge: Cambridge University Press.

As background reading, the following undergraduate textbook is available at Amherst Books:

Goodstein, Eban (2014) *Economics and the Environment*. New York: John Wiley.

All other readings are on the course Moodle site.

Assignments and expectations will be discussed in class.

SCHEDULE

<u>Date</u>	<u>Topic</u>	<u>Reading list section</u>
September 9	Introduction	
September 16	Power and environmental protection	I(a)
September 23	Environmental justice & disaster vulnerability	I(b/c)
September 30	The environmental Kuznets curve	I(d)
October 7	Benefits and costs & Commensurability	II(a/b)
October 14	Property as social process: Theory	III(a)
October 21	Property as social process: illustrations & Free-market environmentalism	III(b/c)
October 28	Common property & Building natural assets	III(d/e)
November 2	Globalization: Markets & governance	IV(a/b)
November 11	Precautionary principle & Polluter pays principle	V(a/b)
November 25	Certification & Cultivated biodiversity	V(c/d)
December 2	Resilience & Economics of climate change	V(e) & VI(a)
December 9	U.S. climate policy & Political economy of international climate accords	VI (b/c)

I. DISTRIBUTION

(a) Power and environmental protection

* Boyce, James K. (2002) *The Political Economy of the Environment*. Cheltenham: Edward Elgar, chs. 4, 6, 8.

* Princen, Thomas (1997) 'The Shading and Distancing of Commerce: When Internalization Is Not Enough,' *Ecological Economics*, 20, 235-253. Reprinted in T. Princen *et al.*, eds., *Confronting Consumption*, Cambridge, MA: MIT Press, 2002, ch. 5.

Agarwal, Bina (2010) *Gender and Green Governance: The Political Economy of Women's Presence Within and Beyond Community Forestry*. New York: Oxford University Press, chs. 1, 2, 10, 11.

Baek, Jungho and Guankerwon Gweisah (2013) 'Does Income Inequality Harm the Environment? Empirical Evidence from the United States,' *Energy Policy* 62: 1434-7.

Boyce, James K. (2013) *Economics, the Environment and Our Common Wealth*. Cheltenham: Edward Elgar, Ch. 2.

Cushing, Lara *et al.* (2014) 'The Haves, the Nave-Nots, and the Health of Everyone: The Relationship Between Social Inequality and Environmental Quality,' *Annual Review of Public Health* 36: 193-209.

Holland, Tim G. *et al.* (2010) 'A Cross-National Analysis of How Economic Inequality Predicts Biodiversity Loss,' *Conservation Biology* 23(5): 1304-1313.

Kemp-Benedict, Eric (2013) 'Inequality and Trust: Testing a Mediating Relationship for Environmental Sustainability,' *Sustainability* 5(2): 779-788.

Pargal, Sheoli and Wheeler, David (1996) 'Informal Regulations in Developing Countries: Evidence from Indonesia,' *Journal of Political Economy*, 104(6), 1314-1327.

Ackerman, Frank and Elizabeth Stanton (2014) *Climate Change and Global Equity*. Anthem. Ch. 4.

United Nations Development Programme (2011) *Human Development Report 2011: Sustainability and Equity*. New York: Palgrave Macmillan, chs. 3 & 4.

(b) Environmental justice

* Pastor, Manuel (2003) 'Building Social Capital to Protect Natural Capital: The Quest for Environmental Justice,' in James K. Boyce and Barry G. Shelley, eds., *Natural Assets: Democratizing Environmental Ownership*. Washington, DC: Island Press, ch. 4.

* Boyce, James K. (2007) 'Inequality and Environmental Protection,' in Jean-Marie Baland, Pranab Bardhan, and Samuel Bowles, eds., *Inequality, Cooperation, and Environmental Sustainability*. Princeton: Princeton University Press, pp. 314-348.

Ash, Michael and T. Robert Fetter (2004) 'Who Lives on the Wrong Side of the Environmental Tracks?' *Social Science Quarterly* 85(2): 441-462.

Boyce, James K. (2013) *Economics, the Environment and Our Common Wealth*. Cheltenham: Edward Elgar, ch. 4.

Mohai, Paul (2008) 'Equity and the Environmental Justice Debate,' in Robert C. Wilkinson and William R. Freudenberg, eds., *Equity and the Environment*, Research in Social Problems and Public Policy, Vol. 15. Amsterdam: Elsevier, pp. 21-50.

Zwickl, Klara *et al.* (2014) 'Regional Variation in Environmental Quality: Industrial Air Toxics Exposure in U.S. Cities,' *Ecological Economics* 107: 494-509.

(c) Disaster vulnerability

* Wisner, Ben, Piers Blaikie, Terry Cannon and Ian Davis (2004) *At Risk: Natural Hazards, People's Vulnerability and Disasters*. 2nd edn. London and New York: Routledge, chs. 1-2.

* Boyce, James K. (2002) *The Political Economy of the Environment*. Cheltenham: Edward Elgar, ch. 2.

Adaman, Fikret (2012) 'Power Inequalities in Explaining the Link between Natural Hazards and Unnatural Disasters,' *Development and Change* 43(1): 395-407.

Aldrich, D.P. (2011) 'Between Market and State: Directions in Social Science Research on Disasters,' *Perspective on Politics* 9(1): 61-68.

Boyce, James K. (2013) *Economics, the Environment and Our Common Wealth*. Cheltenham: Edward Elgar, ch. 3.

Kahn, Matthew (2005) 'The Death Toll from Natural Disasters: The Role of Income, Geography and Institutions,' *Review of Economics and Statistics* 87(2): 271-284.

United Nations and World Bank (2010) *Natural Hazards, Unnatural Disasters: The Economics of Prevention*. Washington, DC: World Bank. Overview + ch. 4.

(d) The 'environmental Kuznets curve'

* Grossman, Gene M. and Krueger, Alan B. (1995) 'Economic Growth and the Environment,' *Quarterly Journal of Economics* 110(2): 353-377.

* Boyce, James K. (2002) *The Political Economy of the Environment*. Cheltenham: Edward Elgar, ch. 5.

Clement, Matthieu and Andre Meunie (2010) 'Is Inequality Harmful for the Environment? An Empirical Analysis Applied to Developing and Transition Countries,' *Review of Social Economy* 63(4): 413-445.

Levinson, Arik (2014) 'A Direct Estimate of the Technique Effect: Changes in the Pollution Intensity of U.S. Manufacturing, 1990-2008,' *National Bureau of Economic Research Working Paper* 20399, August.

Rodrigo, Pablo *et al.* (2015) 'Transition Dynamics in Context: Key Factors and Alternative Paths in the Sustainable Development of Nations,' *Journal of Cleaner Production* 94: 221-234.

Stern, D. (2004) 'The Rise and Fall of the Environmental Kuznets Curve,' *World Development* 32(8): 1419-1439.

II. VALUATION

(a) Benefits and costs

* Sen, Amartya (2000) 'The Discipline of Cost-Benefit Analysis,' *Journal of Legal Studies* 29: 931-952.

* Sen, Amartya (2004) 'Why We Should Preserve the Spotted Owl,' *London Review of Books*, 5 February.

Freeman, A. Myrick, III (2003) *The Measurement of Environmental and Resource Values: Theory and Methods*. Washington, DC: Resources for the Future, chs. 1-3.

Revesz, Richard and Michael Livermore (2008) *Retaking Rationality: How Cost-Benefit Analysis Can Better Protect the Environment and Our Health*. New York: Oxford University Press, part I, pp. 9-51.

Sussman, Fran *et al.* (2014) 'Challenges in Applying the Paradigm of Welfare Economics to Climate Change,' *Journal of Benefit Cost Analysis* 5(3): 347-376.

Wang, Jiang-Jiang *et al.* (2009) 'Review on Multi-Criteria Decision Analysis Aid in Sustainable Energy Decision-Making,' *Renewable and Sustainable Energy Reviews* 13: 2263-2278.

(b) Commensurability

* Heinzerling, Lisa and Ackerman, Frank (2002) *Pricing the Priceless: Cost-Benefit*

Analysis of Environmental Protection. Washington: Georgetown Environmental Law and Policy Institute. Available online at ase.tufts.edu/qdae/publications/c-b%20pamphlet%20final.pdf

* Dorman, Peter (1996) *Markets and Mortality: Economics, dangerous work, and the value of human life*. Cambridge: Cambridge University Press, ch. 3.

Costanza, Robert *et al.* (2014) 'Changes in the Global Value of Ecosystem Services,' *Global Environmental Change* 26: 152-158.

Sagoff, Mark (1988) *The Economy of the Earth: Philosophy, Law, and the Environment*. Cambridge: Cambridge University Press, chs. 1-4.

Martin, Adrian *et al.* (2013) 'Environmental Justice and Biodiversity Conservation,' *Geographical Journal* 179(2): 122-131.

Clowney, Stephen (2006) 'Environmental Ethics and Cost-Benefit Analysis,' *Fordham Environmental Law Review* 18: 105-150.

Khaw, M.W. *et al.* (2015) 'The Measurement of Subjective Value and Its Relation to Contingent Valuation and Environmental Public Goods,' *PLoS ONE* 10(7): e0132842. doi:10.1371/journal.pone.0132842.

III. PROPERTY

(a) Property as social process: theory

* Cole, Daniel H. (2002) *Pollution & Property: Comparing Ownership Institutions for Environmental Protection*, Cambridge, Cambridge University Press, chs. 1-4. [Available as an eBook through the UMass library]

Sterner, Thomas (2003) *Policy Instruments for Environmental and Natural Resource Management*. Washington: Resources for the Future, chs. 5 & 10.

Bromley, Daniel (1991) *Environment and Economy: Property Rights and Public Policy*. Cambridge, MA: Blackwell, chs. 1-3.

(b) Property as social process: illustrations

* Friedman, Gerald (2003) 'A Question of Degree: The Sanctity of Property in American Economic History,' in James K. Boyce and Barry G. Shelley, eds., *Natural Assets: Democratizing Environmental Ownership*. Washington, DC: Island Press, ch. 2.

* Raymond, Leigh (2003) *Private Rights in Public Resources: Equity and Property Allocation in Market-Based Environmental Policy*. Washington, DC: Resources for the Future, chs. 1-3.

Chan G., Stavins R., Stowe R. and Sweeney R. (2012) “The SO₂ allowance-trading system and the clean air act amendments of 1990: Reflections on 20 years of policy innovation,” *National Tax Journal* 65(2): 419-452.

Freyfogle, Eric T. (2002) ‘Community and Market in American Property Law,’ in John F. Richards, ed., *Land, Property, and the Environment*. Oakland: Institute for Contemporary Studies, ch. 13.

Suykens, Bert (2015) 'The Land that Disappeared: Forceful Occupation, Disputes and the Negotiation of Landlord Power in a Bangladeshi *Bastee*,' *Development & Change* 46(3): 486-507.

Dasgupta, Rana (2014) *Capital: A Portrait of Twenty-first Century Delhi*. New York: Penguin Press, ch. 15 (pp. 344-374).

(c) Free-market environmentalism

* Coase, Ronald (1960) ‘The Problem of Social Cost,’ *Journal of Law and Economics* 3(1): 1-44.

* Cole, Daniel H. (2002) *Pollution & Property: Comparing Ownership Institutions for Environmental Protection*, Cambridge, Cambridge University Press, ch. 5. [Available as an eBook through the UMass library]

DeAlessi, Louis (1998) ‘Private Property Rights as the Basis for Free Market Environmentalism,’ in Peter Hill and Roger Meinert, *Who Owns the Environment?* Lanham, MD: Rowman & Littlefield, ch. 1.

Hahnel, Robin and Kristen Sheeran (2009) 'Misinterpreting the Coase Theorem,' *Journal of Economic Issues* 43(1): 215-237.

Starrett, David A. (2003) ‘Property Rights, Public Goods and the Environment,’ in Karl-Goran Maler and Jeffrey Vincent, eds., *Handbook of Environmental Economics*, Volume 1. Amsterdam: Elsevier, ch. 3.

(d) Common property

* Cole, Daniel H. (2002) *Pollution & Property: Comparing Ownership Institutions for Environmental Protection*, Cambridge, Cambridge University Press, chs. 6-9. [Available as an eBook through the UMass library]

* Weston, Burns H. and David Bollier (2013) *Green Governance: Ecological Survival, Human Rights, and the Law of the Commons*. Cambridge: Cambridge University Press, chs. 1, 5-7.

Agarwal, Bina (2007) 'Gender Inequality, Cooperation, and Environmental Sustainability,' in Jean-Marie Baland, Pranab Bardhan, and Samuel Bowles, eds., *Inequality, Cooperation, and Environmental Sustainability*. Princeton: Princeton University Press, pp. 274-313.

Andersson, K. and A. Agrawal (2011) 'Inequalities, Institutions, and Forest Commons,' *Global Environmental Change* 21(3): 866-875.

Ostrom, Elinor (1990) *Governing the Commons: The Evolution of Institutions for Collective Action*. Cambridge: Cambridge University Press, ch. 1.

Bowles, Samuel and Herb Gintis (2002) 'Social Capital and Community Governance,' *Economic Journal* 112: F419-F436.

Chander, Anupam and Madhavi Sunder (2004) 'The Romance of the Public Domain,' *California Law Review* 92: 1331-1373.

Sugden, Fraser and Samantha Punch (2014) 'Capitalist Expansion and the Decline of Common Property Ecosystems in China, Vietnam and India,' *Development and Change* 45(4): 656-684.

(e) Building natural assets

* Boyce, James K. (2003) 'From Natural Resources to Natural Assets,' in James K. Boyce and Barry G. Shelley, eds., *Natural Assets: Democratizing Environmental Ownership*. Washington, DC: Island Press, ch. 1.

Kurien, John (2007) 'The Blessing of the Commons: Small-Scale Fisheries, Community Property Rights, and Coastal Natural Assets,' in James K. Boyce, Sunita Narain, and Elizabeth A. Stanton, eds., *Reclaiming Nature: Environmental Justice and Ecological Restoration*. London and Chicago: Anthem Press, ch. 1.

Ferguson, James (2015) *Give a Man a Fish: Reflections on the New Politics of Distribution*. Durham, NC: Duke University Press, chs. 1 & 6.

Barbier, Edward (2009) 'Ecosystems as Natural Assets,' *Foundations and Trends in Microeconomics* 4(8).

Milder, J.C., S.J. Scherr and C. Bracer (2010) 'Trends and Future Potential of Payment for Ecosystem Services to Alleviate Rural Poverty in Developing Countries,' *Ecology & Society* 18(2).

Rosa, Herman *et al.* (2007) 'Payments for Environmental Services and Rural Communities: Lessons from the Americas,' in James K. Boyce, Sunita Narain, and Elizabeth A. Stanton, eds., *Reclaiming Nature: Environmental Justice and Ecological Restoration*. London and Chicago: Anthem Press, ch. 9.

World Resources Institute (2005) *The Wealth of the Poor: Managing Ecosystems to Fight Poverty*. Washington, DC: WRI, ch. 5, pp. 113-151. Available at http://pdf.wri.org/wrr05_full_hires.pdf.

IV. GLOBALIZATION

(a) Markets

* Boyce, James K. (2013) *Economics, the Environment and Our Common Wealth*. Cheltenham: Edward Elgar, Ch. 9.

Boyce, James K. (2002) *The Political Economy of the Environment*. Cheltenham: Edward Elgar, ch. 7.

Gallagher, Kevin P. (2004) *Free Trade and the Environment: Mexico, NAFTA, and Beyond*. Stanford: Stanford University Press, chs. 1-3. [Available as an eBook through the UMass library]

Gardner, Benjamin (2012) 'Tourism and the Politics of the Global Land Grab in Tanzania: Markets, appropriation and recognition,' *Journal of Peasant Studies* 39(2): 377-402.

Hecht, Susanna (2010) 'The New Rurality: Globalization, peasants and the paradoxes of landscapes,' *Land Use Policy* 27: 161-169.

Zarsky, Lyuba (2003) 'Stuck In the Mud? Nation-States, Globalization and the Environment,' "Stuck in the Mud? Nation-States, Globalisation and the Environment," in K. Gallagher and J. Werksman eds., *International Trade and Sustainable Development*, London: Earthscan Press.

(b) Governance

* Pattberg, Philipp and Oscar Widerberg (2015) 'Theorising Global Environmental Governance: Key Findings and Future Questions,' *Millennium* 434(2): 684-705.

Mol, Arthur P.J. (2001) *Globalization and Environmental Reform: The Ecological Modernization of the Global Economy*. Cambridge, MA: MIT Press, ch. 3.

Gale, Fred (2014) 'Four Models of Interest Mediation in Global Environmental Governance,' *Global Policy* 5(1): 10-21.

Martinez-Torres, Maria Elena and Peter M. Rossett (2010) 'La Via Campesina: The birth and evolution of a transnational social movement,' *Journal of Peasant Studies* 37(1): 149-175.

Fairhead, James (2001) 'International Dimensions of Conflict over Natural and Environmental Resources,' Michael Watts and Nancy Peluso, eds., *Violent Environments*, Ithaca: Cornell University Press, ch. 9.

Neumann, Roderick P. (2001) 'Disciplining Peasants in Tanzania: From State Violence to Self-Surveillance in Wildlife Conservation,' Michael Watts and Nancy Peluso, eds., *Violent Environments*, Ithaca: Cornell University Press, ch. 13.

V. POLICY: SELECTED ISSUES

(a) The precautionary principle

* Kysar, Douglas A. (2010) *Regulating from Nowhere: Environmental Law and the Search for Objectivity*. New Haven: Yale University Press, introduction & ch. 2.

* Sunstein, Cass R. (2003) 'Beyond the Precautionary Principle,' *University of Pennsylvania Law Review* 151: 1003-1058.

* Dorman, Peter (2005) 'Evolving Knowledge and the Precautionary Principle,' *Ecological Economics*, 53: 169-176.

Carothers, Leslie (2014) 'Upholding EPA Regulation of Greenhouse Gases: The Precautionary Principle Redux,' *Ecology Law Quarterly* 41: 683-749.

Driesen, David M. (2013) 'Cost-Benefit Analysis and the Precautionary Principle: Can They be Reconciled?' *Michigan State Law Review* 771-826.

Lofstedt, Ragnar (2014) 'The Precautionary Principle in the EU: Why a Formal Review is Long Overdue,' *Risk Management* 16(3): 137-163.

Tickner, Joel A. (1999) 'A Map Toward Precautionary Decision Making,' in Carolyn Raffensperger and Joel A. Tickner, eds., *Protecting Public Health & the Environment: Implementing the Precautionary Principle*. Washington, DC: Island Press, ch. 9. [Available as an eBook through the UMass library]

(b) The polluter pays principle

* Nash, Jonathan R. (2000) 'Too Much Market? Conflict between Tradable Pollution Allowances and the "Polluter Pays" Principle,' *Harvard Environmental Law Review* 24: 465-535.

* OECD Joint Working Party on Trade and Environment (2002) 'The Polluter-Pays Principle as It Relates to International Trade,' Paris: OECD Environment Directorate and Trade Directorate, December.

Butt, Daniel (2013) 'The Polluter Pays? Backward-Looking Principles of Intergenerational Justice and the Environment,' in Jean-Christophe Merle, ed., *Spheres of Global Justice: Volume 2, Fair Distribution – Global Economic, Social and Intergenerational Justice*. New York: Springer, ch. 61.

Mauerhofer, Volker *et al.* (2013) 'From Polluter Pays to Provider Gets: Distribution of Rights and Costs under Payments for Ecosystem Services,' *Ecology & Society* 18(4).

Stavins, Robert N. (2003) 'Experience with Market-Based Environmental Policy Instruments,' in Karl-Goran Maler and Jeffrey Vincent, eds., *Handbook of Environmental Economics*, Volume 1. Amsterdam: Elsevier, ch. 9.

Zhu, Ling and Yachao Zhao (2015) 'Polluter-pays Principle: Policy Implementation,' *Environmental Policy and Law* 45(1): 34-39.

(c) Certification

* Conroy, Michael (2007) 'Certification Systems as Tools for Natural Asset Building,' in James K. Boyce, Sunita Narain, and Elizabeth A. Stanton, eds., *Reclaiming Nature: Environmental Justice and Ecological Restoration*. London and Chicago: Anthem Press, ch. 10.

Blackmore, Emma and James Keeley (2012) *Pro-Poor Certification: Assessing the benefits of sustainability certification for small-scale farmers in Asia*. London: International Institute for Environment and Development.

Cerutti, Paulo O. *et al.* (2011) 'Legal vs. Certified Timber: Preliminary impacts of forest certification in Cameroon,' *Forestry Policy and Economics* 13: 184-190.

Earley, Jane and Laura K. Anderson (2003) 'Developing-Country Access to Developed-Country Markets Under Selected Ecolabelling Programmes,' Paris: OECD Environment Directorate/Trade Directorate, 24 December.

Meidinger, Errol E. (2001) 'Environmental Certification Programs and U.S. Environmental Law: Closer Than You May Think,' *Environmental Law Reporter*, 31, 10162-10179.

Schulze, Mark, James Grogan and Edson Vidal (2011) 'Forest Certification in Amazonia: Standards Matter,' *Oryx* 42(2): 229-239.

Sneyd, Adam (2014) 'When Governance Gets Going: Certifying "Better Cotton" and "Better Sugarcane,"' *Development & Change* 45(2): 231-256.

(d) Cultivated biodiversity

* Boyce, James K. (2013) *Economics, the Environment and Our Common Wealth*. Cheltenham: Edward Elgar, Ch. 8.

Arslan, A. and J.E. Taylor (2009) 'Farmers' Subjective Valuation of Subsistence Crops: The case of traditional maize in Mexico,' *American Journal of Agricultural Economics* 91: 956-972.

Brush, Stephen B. (2004) *Farmers' Bounty: Locating Crop Diversity in the Contemporary World*. New Haven, CT: Yale University Press, chs. 3, 10, 11. [Available as an EBook through the UMass library]

Sunderland, T.C.H. (2011) 'Food Security: Why is Biodiversity Important?' *International Forestry Review* 13(3): 265-274.

Xepapadeas, Anastasios *et al.* (2014) 'Valuing Insurance Services emerging from a Gene Bank: The Case of the Greek Gene Bank,' *Ecological Economics* 97: 140-149.

(e) Resilience

* Folke, Carl (2006) 'Resilience: The Emergence of a Perspective for Social-Ecological Systems Analyses,' *Global Environmental Change* 16: 253-267.

Fekete, Alexander *et al.* (2014) 'Benefits and Challenges of Resilience and Vulnerability for Disaster Risk Management,' *International Journal of Disaster Risk Science* 5: 3-20.

Lovins, Amory B. and L. Hunter Lovins (1982) *Brittle Power: Energy Strategy for National Security*, Andover, MA: Brick House Publishing, chs. 3, 13. Available at: http://www.rmi.org/rmi/Library%2FS82-03_BrittlePowerEnergyStrategy.

Martin, Ron and Peter Sunley (2015) 'On the Notion of Regional Economic Resilience: Conceptualization and Explanation,' *Journal of Economic Geography* 15: 1-42.

VI. GLOBAL CLIMATE CHANGE(a) Economics of climate change

* Ackerman, Frank and Elizabeth Stanton (2014) *Climate Change and Global Equity*. Anthem. Chs 1, 8 & 11.

De Canio, Stephen (2003) *Economic Models of Climate Change: A Critique*. New York: Palgrave Macmillan, chs. 1, 5, 6.

Stern Review: The Economics of Climate Change (2007) 'Executive Summary.'

Available online at:

<http://siteresources.worldbank.org/INTINDONESIA/Resources/226271-1170911056314/3428109-1174614780539/SternReviewEng.pdf>.

(b) U.S. climate policy

* Boyce, James K. (2013) *Economics, the Environment and Our Common Wealth*. Cheltenham: Edward Elgar, chs 6 & 7.

Boyce, James K. and Manuel Pastor (2013) 'Clearing the Air: Incorporating Air Quality and Environmental Justice into Climate Policy,' *Climatic Change*, 102(4): 801-814.

Burtraw, Dallas and Samantha Sekar (2014) 'Two World Views on Carbon Revenues,' *Journal of Environmental Studies and Sciences* 4(1): 110-120.

Goulder, Lawrence H., Marc Hafstead and Michael Dworsky (2009) 'Impacts of Alternative Emissions Allowance Allocation Methods under a Federal Cap-and-Trade Program,' NBER Working Paper No. 15293, August 2009.

Available online at: http://www.nber.org/papers/w15293.pdf?new_window=1.

Economic and Allocation Advisory Committee (2010) *Allocating Emissions Allowances Under a California Cap-and-Trade Program: Recommendations to the California Air Resources Board and California EPA*. Available online at

http://www.climatechange.ca.gov/eaac/documents/eaac_reports/2010-03-22_EAAC_Allocation_Report_Final.pdf.

(c) Political economy of international climate accords

* Baer, Paul *et al.* (2008) 'Greenhouse Development Rights: Towards an equitable framework for global climate policy,' *Cambridge Review of International Affairs* 21(4): 649-669.

Aldy, Joseph and Robert Stavins (2012) 'The Problems and Promise of Pricing Carbon: Theory and Experience,' *Journal of Environment and Development* 21(2): 152-180.

Fairhead, James, Melissa Leach and Ian Scoones (2012) 'Green Grabbing: A New Appropriation of Nature?' *Journal of Peasant Studies* 39(2): 237-261.

Narain, Sunita and Matthew Riddle (2007) 'Greenhouse Justice: An Entitlement Framework for Managing the Global Atmospheric Commons,' in James K. Boyce, Sunita Narain, and Elizabeth A. Stanton, eds., *Reclaiming Nature: Environmental Justice and Ecological Restoration*. London and Chicago: Anthem Press, ch. 16.

Nordhaus, William (2015) 'Climate Clubs: Overcoming Free-riding in International Climate Policy,' *American Economic Review* 105(4): 1339-1370.

Peters, G.P. *et al.* (2011) 'Growth in Emissions Transfers via International Trade from 1990 to 2008,' *Proceedings of the National Academy of Sciences*, 25 April.

Verhoeven, Harry (2014) 'Gardens of Eden or Hearts of Darkness? The Genealogy of Discourses on Environmental Insecurity and Climate Wars in Africa,' *Geopolitics* 19: 784-805.