

## **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 and Cole 2002 are also available as eBooks at the W.E.B. DuBois Library; the others are available at the library 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. 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.

#### **Background**

As background for this course, useful references include the undergraduate textbook by Goodstein and the video series on The Political Economy of the Environment:

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

Political Economy of the Environment video series, University of Massachusetts Amherst & Econ 4: <http://econ4.org/uncategorized/political-economy-of-the-environment-new-video-series-from-econ4>.

## SCHEDULE

<u>Date</u>	<u>Topic</u>	<u>Reading list section</u>
September 6	Introduction	
September 13	Power and environmental protection	I(a)
September 20	Environmental justice & disaster vulnerability	I(b/c)
September 27	The environmental Kuznets curve	I(d)
October 4	Benefits and costs & Commensurability	II(a/b)
October 11	Property as social process: Theory	III(a)
October 18	(i) Property as social process: illustrations (ii) Free-market environmentalism	III(b) III(c)
October 25	(i) Common property (ii) Building natural assets	III(d) III(e)
November 1	Globalization: Markets & governance	IV(a/b)
November 8	(i) Precautionary principle (ii) Polluter pays principle	V(a) V(b)
November 15	(i) Certification (ii) Cultivated biodiversity	V(c) V(d)
November 29	(i) Resilience (ii) Economics of climate change	V(e) VI(a)
December 6	U.S. climate policy & Political economy of international climate accords	VI (b/c)

## I. DISTRIBUTION

### (a) Power and environmental protection

\* 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.

\* 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.

\* 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.

Boyce, James K. (2002) *The Political Economy of the Environment*. Cheltenham: Edward Elgar, chs. 1, 4, 6, 8.

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

Jorgenson, Andrew *et al.* (2017) 'Income Inequality and Carbon Emissions in the United States: A State-level Analysis, 1997–2012,' *Ecological Economics* 134: 40-48.

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

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

\* Boyce, James K. *et al.* (2016) 'Measuring Environmental Inequality,' *Ecological Economics* 124:114-123.

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

\* Mohai, Paul and Robin Saha (2015) 'Which came first, people or pollution? A review of theory and evidence from longitudinal environmental justice studies,' *Environmental Research Letters* 10(12).

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

Sun, Cong *et al.* (2017) 'Self-protection investment exacerbates air pollution exposure inequality in urban China,' *Ecological Economics* 131: 468-474.

Kelly-Reif, Kaitlin and Steve Wing (2016) 'Urban-rural exploitation: An underappreciated dimension of environmental injustice,' *Journal of Rural Studies* 47: 350-358.

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

Collins, Mary *et al.* (2016) 'Linking "Toxic Outliers" to Environmental Justice Communities,' *Environmental Research Letters* 11.

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.

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.

(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.

Pattison, Andrew *et al.* (2014) 'Ecological Modernization or Aristocratic Conservation? Exploring the Impact of Affluence on Carbon Emissions at the Local Level,' *Society and Natural Resources* 27: 850-866.

Kashwan, Prakash (2017) 'Inequality, democracy, and the environment: A cross-national analysis,' *Ecological Economics* 131: 159-171.

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.

Adler, Matthew D. and Eric A. Posner (2006) *New Foundations of Cost-Benefit Analysis*. Cambridge, MA: Harvard University Press, chs. 1-4.

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](http://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.

Adler, Matthew D. and Eric A. Posner (2006) *New Foundations of Cost-Benefit Analysis*. Cambridge, MA: Harvard University Press, ch. 6.

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

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]

Sternier, 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 SO<sub>2</sub> 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).

Verhoog, Suzanne (2016) 'The Global Land Rush Revisited - a brief analysis based on data from the Land Matrix in current dynamic and complex climate & land governance discourse,' University of Amsterdam, Working Paper, DOI: 10.13140/RG.2.1.3016.8568.

(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.

Ellickson, Robert C. (1989) 'The Case for Coase and Against "Coasianism",' *Yale Law Journal* 99: 610-630.

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.



Gray, Erin *et al.* (2015) 'The Economic Costs and Benefits of Securing Community Forest Tenure: Evidence from Brazil and Guatemala,' Washington, DC: World Resources Institute, Working Paper, November.

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.

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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).

Ishihara, Hiroe *et al.* (2017) 'Dancing With Storks: The Role of Power Relations in Payments for Ecosystem Services,' *Ecological Economics* 139: 45-54.

Chan, Kai M.A. *et al.* (2017) Payments for Ecosystem Services: Rife With Problems and Potential—For Transformation Towards Sustainability, *Ecological Economics* 140: 110-122.

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## IV. GLOBALIZATION

### (a) Markets

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

\* Zhang, Qiang *et al.* (2017) 'Transboundary health impacts of transported global air pollution and international trade,' *Nature* 543: 705-710.

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]

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.

\* Scoones, Ian (2016) 'The Politics of Sustainability and Development,' *Annual Review of Environment and Resources* 41: 293-319.

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.

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.

## 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.

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

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.

#### (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.

\* Meyer, Frederick and Gary Gereffi (2010) 'Regulation and Economic Globalization: Prospects and Limits of Private Governance,' *Business and Politics* 12(3).

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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.

Pallante, Giacomo *et al.* (2016) 'Assessing the potential for niche market development to contribute to farmers' livelihoods and agrobiodiversity conservation: Insights from the finger millet case study in Nepal,' *Ecological Economics* 130: 92-105.

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]

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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.

Brown, Katrina (2014) 'Global environmental change I: A social turn for resilience?' *Progress in Human Geography* 38: 107-117.

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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.

\* Nordhaus, William (2017) 'Revisiting the Social Cost of Carbon,' *Proceedings of the National Academy of Sciences*, February 14.

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

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Boyce, James K. (2017) 'Distributional Issues in Climate Policy: Air Quality Co-benefits and Carbon Rent,' Forthcoming in *Handbook on the Economics of Climate Change*, G. Chichilnisky and A. Rezai, eds.

(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.

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[http://www.climatechange.ca.gov/eaac/documents/eaac\\_reports/2010-03-22\\_EAAC\\_Allocation\\_Report\\_Final.pdf](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.

\* Baranzini, Andrea *et al.* (2017) 'Carbon Pricing in Climate Policy: Seven Reasons, Complementary Instruments, and Political Economy Considerations,' *WIREs Climate Change* 8:e462. doi: 10.1002/wcc.462.

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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.