



Prof. Dr. Irene Ring  
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## **Socio-Economic Drivers**

**Block Seminar: 28 November – 1 December 2008,  
Bayreuth University, GEO Building**

1 SWS, 1 ECTS

### **Participants:**

This seminar is a required course for Global Change Ecology students as part of the A3 Module Phenomena and Actors in Global Change. Participation is restricted to GCE students only. Maximum number of participants: 25

### **Required course work:**

Each registered participant will write a seminar paper of about 10 pages on a selected topic, following the basic guidelines for authors of the journal Land Use Policy.

During the block seminar, each participant will give an oral presentation of 15 minutes on the seminar topic selected. We will discuss each topic and practice moderation skills of students.

### **Introduction to the course and assignment of topics:**

23 October 2008, 16.00 s.t. – 18.00, room: **S110 (AI)**



### **Deadline for registration to the course:**

27 October 2008

### **Deadline for submission of seminar papers:**

14 November 2008, 12.00 (noon)

### **Guest lecture:**

The course will be introduced by a guest lecture, given by Dr. Cornelia Ohl, Helmholtz Centre for Environmental Research – UFZ, Dept. of Economics on 28 November 2008, 12.30 – 14.00

### **Block seminar schedule:**

|                  |                   |
|------------------|-------------------|
| 28 November 2008 | 14.00 s.t – 20.00 |
| 29 November 2008 | 9.00 s.t. – 11.00 |
| 1 December 2008  | 8.00 s.t. – 13.00 |



## **Socio-Economic Drivers**

### **Seminar topics**

#### **I. Drivers of change: Basic concept and development**

1. The Driver-Pressure-State-Impact-Response-(DPSIR-)-Model
2. The DPSIR-Model: A critical discussion from a social sciences perspective
3. Institutions – the individual and the society: Basic concepts in the social sciences

#### **II. Discussing important socio-economic drivers**

4. Demographic development: Population growth
5. Demographic development: Urbanisation and mega-cities
6. Demographic development: Migration and environmental refugees
7. Demographic development: Shrinkage patterns
8. Social drivers of change: Life styles and consumption
9. Economic drivers: Technological change and innovations
10. Economic drivers: Energy regimes and consumption
11. Economic incentives as drivers of change
12. Globalisation as driver of change
13. Culture and ethics as drivers of change

#### **III. Impacts of environmental change**

14. Infrastructure development and the fragmentation of landscapes
15. Trade and invasive species
16. Energy and food prices as drivers for land-use change
17. Subsidies and the fisheries sector
18. Climate change as a driver to social destabilisation

#### **IV. Responses to environmental change**

19. Institutions: Conventions, norms, and legal regulations
20. Environmental policies

#### **V. Choose your own topic starting from Millennium Ecosystem Assessment 2005: Current State and Trends**

21. Socio-economic drivers and your selected ecosystem service(s) (Ch. 7-17)
22. Socio-economic drivers and your selected system(s) from which ecosystem services are derived (Ch. 18-27)



## Socio-Economic Drivers

### Introductory references:

- Baier, Hermann; Erdmann, Frithjof; Holz, Rainer; Waterstraat, Arno (Hrsg). 2006. Freiraum und Naturschutz. Die Wirkungen von Störungen und Zerschneidungen in der Landschaft. Springer-Verlag, Berlin, Heidelberg.
- Barbier, Edward B.; Burgess, Joanne C.; Folke, Carl. 1994. Paradise Lost? The Ecological Economics of Biodiversity. Earthscan Publications, London.
- Barbier, Edward; Rauscher, Michael. 1995. Policies to control tropical deforestation: trade intervention versus transfers. In: Perrings, Charles; Mäler, Karl-Göran; Folke, Carl; Holling, C. S.; Jansson, Bengt-Owe. (eds.). Biodiversity Loss. Cambridge: Cambridge University Press, p. 260-282.
- Bates D.C. 2002. Environmental Refugees? Classifying Human Migrations Caused by Environmental Change Population and Environment 23(5): 465-477.
- Birg, Herwig. 2001. Die demographische Zeitenwende: der Bevölkerungsrückgang in Deutschland und Europa. Beck, München.
- BMU (Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit). 2007. Nationale Strategie zur biologischen Vielfalt. Berlin.
- Bundeszentrale für politische Bildung bpb. 2007. Globalisierung. Zahlen und Fakten. 2. Aufl., Bonn. (CD und Broschüre für 4€ + Porto erhältlich, [www.bpb.de](http://www.bpb.de))
- Enquete-Kommission Globalisierung der Weltwirtschaft – Herausforderungen und Antworten. 2002. Schlussbericht. Bundestags-Drucksache 14/9200 v. 12.06.2002, Berlin.
- European Communities. 2007. 2006 Environment Policy Review. Communication from the Commission to the Council and the European Parliament. COM(2007)195, Brussels.
- Hansjürgens, Bernd; Heinrichs, Dirk. 200. Mega-Urbanisierung: Chancen und Risiken für Nachhaltige Entwicklung in Megastädten. In: Bundeszentrale für Politische Bildung. Online Dossier Megastädte, [http://www.bpb.de/themen/3WPGJL,0,0,Das\\_urbane\\_Millennium.html](http://www.bpb.de/themen/3WPGJL,0,0,Das_urbane_Millennium.html)
- Kaufmann, Franz-Xaver. 2005. Schrumpfende Gesellschaft : vom Bevölkerungsrückgang und seinen Folgen. Frankfurt a.M.: Suhrkamp.
- Klijn, Jan A. 2004. Driving forces behind landscape transformation in Europe, from a conceptual approach to policy options. In: R.H.G. Jongman (ed.): The new dimension of the European landscape, pp.201-218. (available online at: [http://library.wur.nl/frontis/landscape/14\\_klijn.pdf](http://library.wur.nl/frontis/landscape/14_klijn.pdf))
- Lange, Hellmuth. 2005. Lebensstile. Der sanfte Weg zu mehr Nachhaltigkeit? Artec-paper Nr. 122, Bremen. (available online at: <http://www.artec.uni-bremen.de>)
- Margolis, Michael; Shogren, Jason. 2004. How trade politics affect invasive species control. Discussion Paper 04-07, Resources for the Future, Washington D.C.
- McNeill, John R. 2001. An Environmental History of the Twentieth-Century World. W.W. Norton, New York
- McNeill, John R. 2005. Blue Planet. Schriftenreihe der Bundeszentrale für politische Bildung, Bd. 518, Bonn (= deutsche Übersetzung v. McNeill 2001, für 4 € + Porto erhältlich, [www.bpb.de](http://www.bpb.de))
- Millennium Ecosystem Assessment. 2005. Ecosystems and Human Well-Being: Current State and Trends. Island Press, Washington D.C.
- Myers, Norman. 1997. Environmental Refugees. Population and Environment 19(2): 167-182.
- Nuissl, Henning. 2004. Schrumpfung und Urban Sprawl: analytische und planerische Problemstellung. UFZ-Diskussionspapiere 3/04, Helmholtz-Zentrum für Umweltforschung – UFZ, Leipzig.
- Nunes, Paulo A.L.D.; van den Bergh, Jeroen C.J.M.; Nijkamp, Peter. 2003. The Ecological Economics of Biodiversity. Edward Elgar, Cheltenham.
- OECD. 1994. OECD core set of indicators for environmental performance reviews: a synthesis report. OECD Environmental Monographs No. 83. OECD, Paris.
- OECD. 2003. OECD Environmental indicators: Development, measurement and use. OECD, Paris.
- OECD. 2008. OECD Key environmental indicators. OECD, Paris.



- OECD. 2008. Environmental Outlook to 2030. OECD, Paris.
- Pascual, Unai; Perrings, Charles. 2007. Developing incentives and economic mechanisms for in situ biodiversity conservation in agricultural landscapes. *Agriculture, Ecosystems and Environment* 121: 256-268.
- Porter, Gareth. 2002. Fisheries and the Environment. Fisheries subsidies and overfishing: Toward a structured discussion. UNEP, ETB, Geneva.
- Reusswig, Fritz. 1994. Lebensstile und Ökologie. Die ökologischen Folgen der modernen Lebensweise. In: Christoph Görg (Hrsg.): *Gesellschaft im Übergang. Perspektiven kritischer Soziologie*. Wissenschaftliche Buchgesellschaft, Darmstadt: 218-238.
- Rink, Dieter. 2002. Lebensstile und Nachhaltigkeit. Konzepte, Befunde und Potenziale. Vs Verlag, Opladen.
- Seitz, Helmut; Hamm, I.; Werding, M. 2007. Demographic Change in Germany: The Economic and Fiscal Consequences. Springer-Verlag, Berlin.
- SRU (Sachverständigenrat für Umweltfragen). 1994. Umweltgutachten 1994. Für eine dauerhaft umweltgerechte Entwicklung. Auch Bundestagsdrucksache 12/6995, vom 8.3.1994, Wiesbaden.
- Sterner, Thomas. 2003. *Policy Instruments for Environmental and Natural Resource Management*. Resources for the Future, Washington, D.C.
- Sukhatme, Vasant; Abler, David. 1997. Economists and Food Price Policy Distortions: The Case of India. *Economic Development and Cultural Change* 46 (1): 79-96.
- Svarstad, Hannah, Petersen, Lars K.; Rothman, Dale; Siegel, Henk; Wätzold, Frank. 2008. Discursive biases of the environmental research framework DPSIR. *Land Use Policy* 25: 116-125.
- UNEP. 2004. Incorporating resource impact into fisheries subsidies disciplines: Issues and options. A Discussion Paper. UNEP/ETB/2004/10, Geneva.
- UNEP and WWF. 2007. Sustainability criteria for fisheries subsidies. Options for the WTO and beyond. Prepared by David K. Schorr and John F. Caddy. Geneva
- United Nations. 2001. Indicators of sustainable development: framework and methodologies. Background Paper No. 3, Commission on Sustainable Development, Division for Sustainable Development, Department of Economic and Social Affairs, New York.
- Vatn, Arild. 2005. Institutions and the Environment. Edward Elgar, Cheltenham.
- WBGU (Wissenschaftlicher Beirat der Bundesregierung Globale Umweltveränderungen) (Hrsg.). 2007. *Welt im Wandel – Sicherheitsrisiko Klimawandel*. Springer-Verlag, Berlin, Heidelberg.
- WBGU (German Advisory Council on Global Change) (Ed.). 2007. *World in Transition – Climate Change as a Security Risk*, Earthscan, London. (= translation of former reference)

### Further important online sources:

- Biodiversity Economics Library of IUCN: <http://www.biodiversityeconomics.org/library/index.html>
- Biodiversity Bibliography of Polasky et al.: <http://www.apec.umn.edu/faculty/spolasky/biobib.html>
- European Commission, DG Environment: [http://ec.europa.eu/environment/index\\_en.htm](http://ec.europa.eu/environment/index_en.htm)
- European Environmental Agency: <http://www.eea.europa.eu/>
- OECD: <http://www.oecd.org>
- SRU (Sachverständigenrat für Umweltfragen): <http://www.umweltrat.de/>
- UNEP, Economics and Trade Branch: <http://www.unep.ch/etb/index.php>
- WBGU (German Advisory Council on Global Change): <http://www.wbgu.de/>



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## **Important journals:**

Ambio  
Biological Conservation  
Conservation Biology  
Ecological Applications  
Ecological Economics  
Ecology and Society (online journal)  
Environment and Planning  
Environment and Urbanization  
Environmental and Resource Economics  
Environmental Conservation  
Environmental Policy and Governance  
(Formerly: European Environment)  
Environmental Politics  
GAIA

Global Environmental Change  
International Journal of Sustainable Development  
Journal of Environmental Economics and Management  
Land Use Policy  
Nature  
Natur und Landschaft  
Naturschutz und Landschaftsplanung  
Natur und Recht  
Science  
Zeitschrift für angewandte Umweltforschung  
Zeitschrift für Ökologie und Naturschutz  
Zeitschrift für Umweltpolitik und Umweltrecht