

# CV Helmut Haberl

(April 2018)

## Academic qualifications

- Habilitation in Human Ecology, University of Vienna, 2001
- Doctorate in Ecology, University of Vienna, 1995
- Master in Biology and Mathematics, University of Vienna, 1991

## Professional history

- Associate professor, BOKU, since 2018
- Associate professor, Alpen-Adria University Klagenfurt / Wien / Graz, 2001-2018
- University assistant, Alpen-Adria University Klagenfurt / Wien / Graz, 1994-2001
- Researcher and lecturer, Interuniversity Institute of Interdisciplinary Research and Continuing Education (IFF), 1991-1994
- Researcher, Austrian Institute of Applied Ecology (Ökologie-Institut), 1989-2001

## Positions

- Director, Institute of Social Ecology, 2012-2017
- Deputy director, Institute of Social Ecology, 1995-2009
- Leader research group “Energy and Environment”, Ökologie-Institut, 1992-1997

## Grant

- ERC-Advanced Grant project “Understanding the Role of Material Stock Patterns for the Transformation to a Sustainable Society”, since 2018

## Research stay

- Member of the Integrative Research Institute “Transformations in Human-Environment Systems” (IRI THESyS), Humboldt-Universität zu Berlin, 3/2014-6/2014

## Contributions to assessment reports

- The World in 2050 (TWI2050), IIASA, ongoing
- Report “Energiesysteme der Zukunft” (Leopoldina, Acatech), ongoing
- Coordinating lead author for a chapter of the Austrian Assessment Report 2014 of the Austrian Panel on Climate Change, 2011-2014
- Lead author for chapter 11 “Agriculture and Other Land Use”, IPCC 5<sup>th</sup> Assessment Report, Working group III, 2011-2014
- Lead author for two chapters of the Global Energy Assessment (IIASA), 2009-2012

## Positions of trust (selected)

- Editor-in-chief, section “Social Ecology and Sustainability”, *Sustainability*, since 2014
- Senior handling editor of *Regional Environmental Change*, since 2014
- Editorial board member in numerous journals, including *Ecological Economics*, *Land Use Policy*, and the *Anthropocene Review*
- Chair of the Austrian Panel on Climate Change, since 2016
- Member of the Scientific Commission „Environment“, German Academy Leopoldina, since 2016
- Member of the editorial board, Springer book series “Human-Environment Interactions”

- Member of the Scientific Steering Committee of the Global Land Project, 2005-2011
- Member of the Scientific Committee of the European Environment Agency, 2004-2011

**Reviewer** (selected, total >65 journals)

- American Sociological Review
- Environmental Research Letters
- Environmental Science and Technology
- Frontiers in Ecology and Environment
- Global Change Biology
- Global Environmental Change
- Nature
- Nature Climate Change
- Nature Communications
- PLoS One
- PNAS
- Progress in Energy and Combustion Science
- Science

**Publications** (selected, more information: Researcher-ID, ORCID & google scholar)

*Books*

- Haberl, H., M. Fischer-Kowalski, F. Krausmann, V. Winiwarter (eds.), 2016. *Social Ecology, Society-Nature Relations Across Time and Space*. Springer, Cham.
- Niewöhner, J., A. Bruns, P. Hostert, T. Krüger, J.Ø. Nielsen, H. Haberl, C. Lauk, J. Lutz, D. Müller (eds.), 2016. *Land-Use Competition. Ecological, Economic and Social Perspectives*. Springer, Cham.
- Singh, S.J., H. Haberl, M. Chertow, M. Mirtl, M. Schmid (eds.), 2013. *Long-Term Socio-Ecological Research. Studies in Society-Nature Interactions Across Spatial and Temporal Scales*. Springer, Dordrecht.
- Fischer-Kowalski, M., H. Haberl (eds.), 2007. *Socioecological Transitions and Global Change. Trajectories of Social Metabolism and Land Use*. Edward Elgar, Cheltenham, UK.

*Special Issues*

- Erb, K.-H., H. Haberl, F. Krausmann (guest eds.), 2009. Analyzing the global human appropriation of net primary production – processes, trajectories, implications. Special section *Ecological Economics* **69**, 250-334.
- Newig, J., H. Haberl, C. Pahl-Wostl, D. Rothman (guest eds.), 2008. Formalised and Non-Formalised Methods in Resource Management, Knowledge and Learning in Participatory Processes. Special issue *Systemic Practice and Action Research* **21**, 381-515.
- Haberl, H., M. Wackernagel, T. Wrabka (guest eds.), 2004. Land Use and Sustainability Indicators. Special issue *Land Use Policy* **21**, 193-320.
- Haberl, H., S. Batterbury, E. Moran (guest eds.), 2001. Using and Shaping the Land: A long-term perspective. Special Issue *Land Use Policy* **18**, 1-91.

*Journals*

- Erb, K.-H., T. Kastner, C. Plutzer, A.L.S. Bais, N. Carvalhais, T. Fetzel, S. Gingrich, H. Haberl, C. Lauk, M. Niedertscheider, J. Pongratz, M. Thurner, S. Luysaert, 2018.

- Unexpectedly large impact of forest management and grazing on global vegetation biomass. *Nature* **553**, 73-76
- d'Amour, C.B., F. Reitsma, G. Baiocchi, S. Barthel, B. Güneralp, K.-H. Erb, H. Haberl, F. Creutzig, K.C. Seto, 2017. Future urban land expansion and implications for global croplands. *PNAS*, **114**, 8939–8944
- Creutzig, F., B. Fernandez, H. Haberl, R. Khosla, Y. Mulugetta, K.C. Seto, 2016. Beyond Technology: Demand-Side Solutions to Climate Change Mitigation. *Annual Review of Environment and Resources* **41**, 173–198
- Erb, K.-H., T. Fetzl, C. Plutzer, T. Kastner, C. Lauk, A. Mayer, M. Niedertscheider, C. Körner, H. Haberl, 2016. Biomass turnover time in terrestrial ecosystems halved by land use. *Nature Geoscience* **9**, 674–678
- Erb, K.-H., C. Lauk, T. Kastner, A. Mayer, M.C. Theurl, H. Haberl, 2016. Exploring the biophysical option space for feeding the world without deforestation. *Nature Communications* **7**, 11382
- Haberl, H., K.-H. Erb, F. Krausmann, 2014. Human Appropriation of Net Primary Production: Patterns, Trends, and Planetary Boundaries. *Annual Review of Environment and Resources* **39**, 363–391
- Ripple, W.J., P. Smith, H. Haberl, S.A. Montzka, C. MacAlpine, D.H. Boucher, 2014. Ruminants, climate change, and climate policy. *Nature Climate Change* **4**, 2-5
- Erb, K.-H., T. Kastner, S. Luysaert, R.A. Houghton, T. Kuemmerle, P. Olofsson, H. Haberl, 2013. Bias in the attribution of forest carbon sinks. *Nature Climate Change* **3**, 854-856
- Krausmann, F., K.-H. Erb, S. Gingrich, H. Haberl, A. Bondeau, V. Gaube, C. Lauk, C. Plutzer, T.D. Searchinger, 2013. Global human appropriation of net primary production doubled in the 20th century. *PNAS* **110**, 10324–10329
- Dullinger, S., F. Essl, W. Rabitsch, K.-H. Erb, S. Gingrich, H. Haberl, K. Hülber, V. Jarosik, F. Krausmann, I. Kühn, P. Pysek, P.E. Hulme, 2013. Europe's other debt crisis caused by long legacy of future extinction risk of European taxa. *PNAS* **110**, 7342-7347
- Haberl, H., K.-H. Erb, F. Krausmann, V. Gaube, A. Bondeau, C. Plutzer, S. Gingrich, W. Lucht, M. Fischer-Kowalski, 2007. Quantifying and mapping the human appropriation of net primary production in earth's terrestrial ecosystems. *PNAS* **104**, 12942-12947
- Haberl, H., F. Krausmann, K.-H. Erb, N.B. Schulz, S. Rojstaczer, S.M. Sterling, N. Moore 2002. Human Appropriation of Net Primary Production. *Science*, **296**, 1968-1969