

## PERSONAL INFORMATION

### CURRICULUM VITAE

David Vačkář

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#### Research interests

Ecosystem services: assessment, mapping, modelling, valuation  
Social-ecological systems, vulnerability, integrated assessments  
Global environmental change, climate change adaptation, anthropogenic transformation of ecosystems  
Ecological footprint analysis, Human appropriation of net primary production  
Sustainability indicators, international environmental governance

#### WORK EXPERIENCE

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December 2010 - ongoing

**Scientist, Head of the Department of Human Dimensions of Global Change**  
Global Change Research Centre, Academy of Sciences of the Czech Republic,  
Belidla 986/4a, 603 00 Brno, Czech Republic  
<http://www.czechglobe.cz>

Scientific research focused particularly on ecosystem services, integrated assessments, vulnerability of social-ecological systems, climate change adaptation, and international environmental governance; management of the Department of Human Dimensions of Global Change

[Science and research – sustainability studies, global environmental change](#)

January 2006 - ongoing

**Lecturer and researcher**

Charles University, Environment Centre,  
José Martího 407/2, 162 00 Praha 6, Czech Republic  
<http://www.czp.cuni.cz/>

Lecturing (subjects: Ecosystem Services, Methods for Global Change Studies, Quantitative Methods of the Environmental Analysis and Phenomena, Crisis as an Opportunity), supervision of bachelor, master and doctoral students  
Research in the areas of land and ecosystem accounting, ecological footprint, human appropriation of net primary production, sustainability indicators

[University – sustainability studies, environmental sustainability](#)

July 2001 – December 2005

**Project Manager**

The Nature Conservation Agency of the Czech Republic,  
Kaplanova 1931/1, 148 00 Praha 11 – Chodov, Czech Republic  
<http://www.ochranaprirody.cz/>

International cooperation (Convention on Biological Diversity, European Environment Agency, IUCN), secretary of the Czech National Committee for IUCN, Czech delegate at the Conference of Parties CBD, working and expert groups

Coordination of projects (Monitoring of species and natural habitats of EU importance, biodiversity and ecosystem indicators and assessment)

Government

## EDUCATION AND TRAINING

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September 2002 – September 2010 **PhD in Environmental Studies/Applied and Landscape Ecology**

Charles University in Prague, Faculty of Science (Prague, Czech Republic)

- Human appropriation of Net Primary Production, Biodiversity, GIS spatial analysis

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September 1996 – June 2001 **Mgr. (equivalent to MSc)**

Charles University in Prague, Faculty of Science, Institute for Environmental studies (Prague, Czech Republic)

- Nature conservation, international environmental governance, biodiversity analysis

## ADDITIONAL INFORMATION

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**Teaching** MO550P116 Ecosystem Services (Charles University, Faculty of Science, Institute for Environmental Studies)  
Methods for Global Change Studies (Faculty of Humanities, Charles University, 2011 - 2014)  
Quantitative Methods of the Environmental Analysis and Phenomena (with PaedDr. Tomáš Hák, Ph.D., et al, Faculty of Humanities, Charles University)  
Crisis as an Opportunity (multicourse contribution on Environmental dimension – Global ecosystem services and biodiversity, Faculty of Humanities, Charles University)

## Selected Publications

- Vačkář, D.**, Orlitová, E., 2011. Human appropriation of aboveground photosynthetic production in the Czech Republic. *Regional Environmental Change* 11(3): 519-529, ISSN: 1436-3798, doi: 10.1007/s10113-010-0167-8.
- Vačkář, D.**, ten Brink, B., Loh, J., Baillie J.E.M., Reyers, B., 2012. Review of multispecies indices for monitoring human impacts on biodiversity. *Ecological Indicators* 17: 58-67, ISSN 1470-160X, doi:10.1016/j.ecolind.2011.04.024.
- Vačkář, D.**, 2012. Ecological Footprint, environmental performance and biodiversity: a cross-national comparison. *Ecological Indicators* 16: 40-46, ISSN 1470-160X, doi:10.1016/j.ecolind.2011.08.008.
- Vačkář, D.**, Chobot, K., Orlitová, E., 2012. Spatial relationship between human population density, land use intensity and biodiversity in the Czech Republic. *Landscape Ecology* 27: 1279-1290, doi: 10.1007/s10980-012-9779-3, ISSN: 0921-2973.
- Lorencová, E., Frélichová, J., Nelson, E., **Vačkář, D.**, 2013. Past and future impacts of land use and climate change on agricultural ecosystem services in the Czech Republic. *Land Use Policy* 33: 183-194, ISSN: 0264-8377, doi: 10.1016/j.landusepol.2012.12.012.
- Frélichová, J., **Vačkář, D.**, Pártl, A., Loučková, B., Harmáčková, Z. V., Lorencová, E., 2014. Integrated Assessment of Ecosystem Services in the Czech Republic. *Ecosystem Services* 8: 110-117.
- Harmáčková, Z.V., **Vačkář, D.**, 2015. Modelling regulating ecosystem services trade-offs across landscape scenarios in Třeboňsko Wetlands Biosphere Reserve, Czech Republic. *Ecological Modelling* 295: 207-215.
- Vačkář, D.**, Harmáčková, Z.V., Kaňková, H., Stupková, K. 2016. Human transformation of ecosystems: Comparing protected and unprotected areas with natural baselines. *Ecological Indicators* 66: 321-328.
- Vačkář, D.**, Báldi, A. 2016. Ecosystem management in transition in Central and Eastern Europe: the need for a vision. *Ecosystem Health and Sustainability*, DOI: 10.1002/ehs2.1231
- Medková, H., **Vačkář, D.**, Weinzettel, J. 2017. Appropriation of potential net primary production by cropland in terrestrial ecoregions. *Journal of Cleaner Production*, in press.
- Vačkář, D.** (Editor), et al, 2005. *Ukazatele změn biodiverzity* (Indicators of biodiversity change). Academia, Praha, 300 pp.
- Vačkář, D.**, Janouš, D. (Eds.) 2016. *Global Change & Ecosystems: Climate change adaptation pathways from molecules to society*. Global Change Research Institute CAS, Brno, 160 pp. ISBN: 978-80-87902-17-2.
- Hájek, M., Hák, T., Janoušková, S., Kovanda, J., Kožoušková, E., Vacková, L., **Vačkář, D.**, Veselá, M., Weizettel, J., 2014. *Green Growth in the Czech Republic: Selected Indicators 2013*. Czech Statistical Office, Prague, 2014, 68 pp .
- UNEP-WCMC, 2011. *Developing ecosystem service indicators: experiences and lessons learned from sub-global assessments and other initiatives* (CBD Technical Series. 58., 2011), contributing author.
- Tallis, H., Lubchenko, J., and 238 co-signatories (2015) *Working together: A call for inclusive conservation*. Comment in Nature 515, 27-28.

**Selected Projects  
(Principal Investigator  
and Co-ordinator)**

**UrbanAdapt EHP-CZ02-OV-1-036-2015** Development of urban adaptation strategies using ecosystem-based approaches to adaptation (2015-2016, EEA grant Iceland, Liechtenstein and Norway)

**ESMERALDA** (Enhancing ecoSystem sERvices mApping for poLicy and Decision mAking) (Horizon 2020 – the Framework Programme for Research and Innovation 2014-2020)

**BASE** - Bottom-up Climate Adaptation Strategies towards a Sustainable Europe (FP7, ENV.2012.6.1-3 Strategies, costs and impacts of adaptation to climate change)

**VG20122015091** - Integrated assessment of global change impacts on environmental security of the Czech Republic (2012-2015, Ministry of the Interior/Security Research)

**TD010066** - Integrated Assessment of Ecosystem Services in the Czech Republic (2012-2013, Technology Agency of the Czech Republic/OMEGA)

**TD020064** Analysing the Services of Urban Ecosystems and their Impact on Resident Well-being in the Czech Republic (2014-2015, Technology Agency of the Czech Republic/OMEGA)

**TD010026** - Developing long-term socio-ecological monitoring in the Czech Republic (2012-2013, Technology Agency of the Czech Republic/OMEGA)

**2B06183** URSUS: Socio-economic Metabolism of Urban Systems and its Impact on Ecosystems (Ministry of Education, Youth and Sports, Programme 2B - Healthy life of high quality, 2006-2011)

**QH92295** AgroEcount: The development of indicators for integrated economic and environmental accounting in agriculture (Ministry of Agriculture, 2009-2011)

**Memberships  
and international  
activities**

Ecosystem Services Partnership - ESP (member of the Steering Committee)

IUCN Commission on Ecosystem Management, member since 2006

National Accounts Committee, Global Footprint Network

Review Editor IPBES Deliverable 3c) Policy support tools and methodologies for scenario analysis and modelling of biodiversity and ecosystem services

Forum of Experts on Advancing SEEA Experimental Ecosystem Accounting, UN SD New York

United Nations Development Programme, Poverty-Environment Initiative, development of SEEA-EEA in Kyrgyz Republic (2015-2016),

Institute on Sustainability Studies, University of Iceland, Reykjavík (research visit, August 2015)