

## P R Hobson - Selected publications

### Most recent 2016 – 2017

Blumroder, J., Hoffmann, M., Winter, S., Kruger, J.-A., Grabener, U.F., Hobson, P.R. & Ibisch, P.L. (2017) Ecosystem-based assessment of sustainability standards and their effectiveness. **WWF, Germany**. ISBN 978-3-946211-09-9

Hobson, P.R., Ibisch, P.L. & Parmee, R. (2016) A small plot study of Chalara infestation in a recently established natural stand of ash, UK. *International Journal of Arboriculture*

IBISCH, P.L., M.T. HOFFMANN, S. KREFT, G. PE'ER, V. KATI, L. BIBER-FREUDENBERGER, D.A. DELLASALA, M.M. VALE, P.R. HOBSON & N. SELVA (2016): A global map of roadless areas and their conservation status. *Science* 354(6318): 1423-1427 (+ 65 pp. Supplementary Materials; [www.sciencemag.org/content/354/6318/1423/suppl/DC1](http://www.sciencemag.org/content/354/6318/1423/suppl/DC1)) (DOI: 10.1126/science.aaf7166).

IBISCH, P.L. & P.R. HOBSON (eds.) (2016): MARISCO. Manejo Adaptativo de RISco e vulnerabilidade em sítios de CONservação. Guia para a conservação da biodiversidade baseada em ecossistemas com uma abordagem de adaptação e resistência ao risco. Centre for Ecnics and Ecosystem Management, Eberswalde (ISBN ISBN 978-3-00-049606-6).

SCHICK, A., P.R. HOBSON & P.L. IBISCH (2017) Conservation and sustainable development in a VUCA world: the need for a systemic, risk-robust and ecosystem-based approach. *Ecosystem Health and Sustainability*

Tânia Salvaterra<sup>a</sup>, Karin Allenbach<sup>b</sup>, Peter Hobson<sup>c</sup>, Pierre Ibisch<sup>d</sup>, Horst Korn<sup>e</sup>, Jaroslav Mysiak<sup>f</sup>, Fabrice Renaud<sup>g</sup>, Mário Pulquério<sup>a</sup> (2016) *Exploring the potential of ecosystem based approaches –Ecosystem based Adaptation and Ecosystem based Disaster Risk Reduction*. Policy Brief, **PLACARD**

### 2013 – 2015 publications

FREUDENBERGER, L., P. R., HOBSON, M., SCHLUCK, S., KREFT, K., VOHLAND, H., SOMMER, S., REICHLER, C., NOWICKI, W., BARTHLOTT AND P. L. IBISCH (2013): Nature conservation: priority-setting needs a global change. *Biodiversity and Conservation* 22: 1255-1281 (doi 10.1007/s10531-012-0428-6).

FREUDENBERGER, L., P.R., HOBSON, S., RUPIC, G., PE'ER, M., SCHLUCK, J. SAUERMAN, S. KREFT, N., SELVA AND P.L. IBISCH (2013): Spatial Road Disturbance Index (SPROADI) for conservation planning: a novel landscape index, demonstrated for the State of Brandenburg, Germany. *Landscape Ecology* 28: 1353-1369 (doi:10.1007/s10980-013-9887-8).

Hobson, P.R., Ibisch, P.L. & Norris, C. (2014) Identifying potential tipping points in forest ecosystems using vegetation function traits and microclimatic indicators. In *Sustaining Forests, Sustaining People: The Role of Research*, (EDITORS: JOHN A. PARROTTA, CYNTHIA F. MOSER, AMY J. SCHERZER, NANCY E. KOERTH and DARYL R. LEDERLE), *The International Forestry Review, Vol 16 (5), XXIV IUFRO World Congress* (print) ISSN 1465-5498

HOBSON, P.R. & P.L. IBISCH (2013): "Forest ecotics:" mimicking processes and patterns in old growth forest to promote sustainable forestry under global change. In: Ministry for Ecology and Natural Resources of Ukraine & Carpathian Biosphere Reserve (eds.) 2013. Primeval and ancient beech forests of Europe: problems of protection and sustainable use. *Proceedings of the International Conference, Rakhiv, September 16-22, 2013*. 66-76

IBISCH, P.L., P.R. HOBSON, A. KRAUSE, A. WÜNSCH, R. KRYKBAEVA, A. GABDULLINA, T. YASHINA & T. SCHAAF (2015): *Great Altay Transboundary Biosphere Reserve. Development of a Management Plan of the Great Altay Transboundary Biosphere Reserve, Republic of Kazakhstan and Russian Federation*. Centre for Ecotics and Ecosystem Management, Eberswalde (ISBN 978-3-9817639-1-1).

IBISCH, P.L. & P.R. HOBSON (eds.) (2015): *MARISCO. Adaptive Management of vulnerability and RISK at COnservation sites. Lessons from case studies applying the MARISCO approach*. Centre for Ecotics and Ecosystem Management, Eberswalde (ISBN 978-3-9817639-0-4).

***Included (co-)authored chapters:***

HOBSON, P.R. & P.L. IBISCH: Student-sector MARISCO workshop for Suffolk Coast and heaths project landscape, United Kingdom. 93-98.

IBISCH, P.L. & P.R. HOBSON: Introduction. 6-9.

REICHLER, S., P.R. HOBSON & P.L. IBISCH: Case studies in Costa Rica: Cahuita and Manuel Antonio National Parks, where the oceans meet the forest. 59-72.

STRIXNER, L., J. Geyer, L. Schmidt, P.R. Hobson & P.L. Ibisch: Ukraine: Carpathian Biosphere Reserve. 10- 18.

STRIXNER, L., P.R. HOBSON & P.L. IBISCH: MARISCO at a lakescape: student course on Lake Shkoder, Albania. 99-104.

IBISCH, P.L. & P.R. HOBSON (eds.) (2014): *The MARISCO method: Adaptive Management of vulnerability and RISK at COnservation sites. A guidebook for risk-robust, adaptive, and ecosystem-based conservation of biodiversity*. Centre for Ecotics and Ecosystem Management, Eberswalde (ISBN 978-3-00-043244-6). 195 pp.

***Included (co-)authored chapters:***

IBISCH, P.L. & P.R. HOBSON: Introduction and general guide. 1-32, 36-43.

IBISCH, P.L., P.R. HOBSON & L. GEIGER: Adaptive risk management. 33-36.

IBISCH, P.L. & P.R. HOBSON: Technical guide: How do you want to work with MARISCO? How do you want to use the manual? - What is a MARISCO exercise and what are its typical components? - How to get started: the information and materials required. **44-51.**

IBISCH, P.L., D. ASCHENBRENNER & P.R. HOBSON: Technical guide: Applying MARISCO. 53-56, 64-169.

IBISCH, P.L. & P.R. HOBSON: Ecosystem Diagnostics Analysis. 56-64.

IBISCH, P.L., L. GEIGER, D. ASCHENBRENNER & P.R. HOBSON: Implementation and (non)knowledge management. 170-177.

IBISCH, P.L. & P.R. HOBSON (eds.) (2014): *MARISCO: Manejo Adaptativo de Riesgo y vulnerabilidad en Sitios de COnservación. Guía para la conservación de la biodiversidad basada en ecosistemas mediante un enfoque de adaptación y resistencia frente al riesgo*. Centre for Ecotics and Ecosystem Management, Eberswalde, 195 pp. (ISBN 978-3-00-045232-1).

Packham, J., Hobson, P. and Norris, C (2013) Common beech *Fagus sylvatica* L; survival and longevity in changing times. *Arboricultural Journal* 2013; **35**: 64

Pe'er, G., Dicks, L.V., Visconti, P., Arlettaz, R., Báldi, A., Benton, T.G., Collins, S., Dieterich, M., Gregory, R.D., Hartig, F., Henle, K., **Hobson**, P.R., Kleijn, D., Neumann, R.K., Robijns, T., Schmidt, J., Schwartz, A., Sutherland, W.J., Turbe, A., Wulf, F. and Scott, A.V. (2014) EU agricultural reform fails on biodiversity: Member States must take extra steps to protect farmed ecosystems. *Science* 344: 1090-1092

## 2010 – 2012 publications

FREUDENBERGER L., P.R. HOBSON, M. SCHLUCK & P.L. IBISCH (2012): A global map of the functionality of terrestrial ecosystems. *Journal of Ecological Complexity* 12: 13-22 (online first, 2012, doi:10.1016/j.ecocom.2012.08.002).

HOBSON, P.R. & P.L. IBISCH: Learning from nature for sustainability: an econical approach to (non-) knowledge management. 223-251. In IBISCH, P.L., L. GEIGER & F. CYBULLA (eds.) (2012): Global change management: knowledge gaps, blindspots and unknowables. Nomos, Sinzheim. (ISBN: 978-3-8329-6714-7)

Hobson, P.R., Mickleburgh, P. and Ibisch, P (2010) Proxy indicators of thermodynamic efficiency and ecosystem resilience to environmental change in contrasting old growth and managed forests. The International Forestry Review: Forests for the Future: Sustaining Society and the Environment. XXIII IUFRO World Congress, ISSN 1465 5489

IBISCH, P.L. & P.R. HOBSON: *Blindspots and sustainability under global change: non-knowledge illiteracy as a key challenge to a knowledge society*. 15-54. In **IBISCH, P.L., L. GEIGER & F. CYBULLA (eds.) (2012)**: Global change management: knowledge gaps, blindspots and unknowables. Nomos, Sinzheim. (ISBN: 978-3-8329-6714-7)

IBISCH, P.L., P.R. HOBSON & S. KREFT: *The European nature conservation network Natura 2000 in meeting uncertain challenges of climate change: Applying principles of complex systems and ecosystem theory*. 131-152. In **IBISCH, P.L., L. GEIGER & F. CYBULLA (eds.) (2012)**: Global change management: knowledge gaps, blindspots and unknowables. Nomos, Sinzheim. (ISBN: 978-3-8329-6714-7)

IBISCH, P.L., P. HOBSON, & A. VEGA: Mutual mainstreaming of biodiversity conservation and human development: towards a more radical Ecosystem Approach. 15-34. Technical Series No. 54. Secretariat of the Convention on Biological Diversity, Montreal, 224 pp. (ISBN 92-9225-279-8) (online <http://www.cbd.int/doc/publications/cbd-ts-54-en.pdf> ).

### **Included (co-)authored chapters:**

FREUDENBERGER L., M. SCHLUCK, P. HOBSON, H. SOMMER, W. CRAMER, W. BARTHLOTT, P. IBISCH: *A view on global patterns and interlinkages of biodiversity and human development*. 37-56, 197-215. Technical Series No. 54. Secretariat of the Convention on Biological Diversity, Montreal, 224 pp. (ISBN 92-9225-279-8) (online <http://www.cbd.int/doc/publications/cbd-ts-54-en.pdf> ).

HOBSON, P. & P.L. IBISCH: *An alternative conceptual framework for sustainability: systemics and thermodynamics*. 126-147. Technical Series No. 54. Secretariat of the Convention on Biological Diversity, Montreal, 224 pp. (ISBN 92-9225-279-8) (online <http://www.cbd.int/doc/publications/cbd-ts-54-en.pdf> ).

HOBSON, P. & P.L. IBISCH: Strategic sustainable development: a synthesis towards thermodynamically efficient systems and post-normal complex system management. 183-195. Technical Series No. 54. Secretariat of the Convention on Biological Diversity, Montreal, 224 pp. (ISBN 92-9225-279-8) (online <http://www.cbd.int/doc/publications/cbd-ts-54-en.pdf> ).

IBISCH, P.L., P. HOBSON, M. SCHLUCK, T. HERRMANN & A. VEGA: *Interdependence of biodiversity and development under global change: an introduction*. 9-14. Technical Series No. 54. Secretariat of the Convention on Biological Diversity, Montreal, 224 pp. (ISBN 92-9225-279-8) (online <http://www.cbd.int/doc/publications/cbd-ts-54-en.pdf> ).

IBISCH, P.L. & P. HOBSON: *The integrated anthroposystem: globalizing human evolution and development within the global ecosystem*. 148-182. Technical Series No. 54. Secretariat of the Convention on Biological Diversity, Montreal, 224 pp. (ISBN 92-9225-279-8) (online <http://www.cbd.int/doc/publications/cbd-ts-54-en.pdf> ).

KREFT, S., D. ASCHENBRENNER, C. NOWICKI, S. REICHEL, L. STRIXNER, P. HOBSON & P.L. IBISCH (2014): Navigating in a sea of risks: MARISCO, a conservation planning method used in risk-robust and ecosystem-based adaptation strategies. In: Korn, H., J. Stadler, A. Bonn, K. Bockmühl & N. Macgregor: Proceedings of the European conference "Climate Change and Nature Conservation in Europe - an ecological, policy and economic perspective". Bundesamt für Naturschutz, Bonn: 133-135 (Bfn-Skripten 367.) 133-135

NORRIS, C., P. IBISCH & P. HOBSON 2011. Searching for empirical evidence of forest resilience – developing indicators of the thermodynamic efficiency of ecosystems. In: Hans D. Knapp & Andreas Fichtner (eds.): Beech forests. *Joint natural heritage of Europe. BfN-Skripten 297. Federal Agency for Nature Conservation, Germany, Bonn* (ISBN 978-389624-032-3). 77-85.

NORRIS, C., HOBSON, P. & IBISCH, P.L. (2011): Microclimate and vegetation function as indicators of forest thermodynamic efficiency. *Journal of Applied Ecology* 49: 562–570 (doi: 10.1111/j.1365-2664.2011.02084.x).

NORRIS, C., P.R. HOBSON, P.L. IBISCH, J. FINCH (2011): Microclimate and vegetation function as indicators of landscape thermodynamic efficiency. Morecroft, M.D., Duffield, S.J., Margerison, C. & Wayman, E. (eds.): *Adapting Conservation to a Changing Climate. Natural England Commissioned Reports, Number 081. Natural England Commissioned Report NECR081*. 28-30.

NORRIS, C., IBISCH, P. L., HOBSON, P. (2011): Beech forests of the British Isles – a brief outline of their distribution, vegetation, ecology and conservation status / Searching for empirical evidence of forest resilience –developing indicators of the thermodynamic efficiency of ecosystems. In: Knapp, H. D., Fichtner, A. (eds.): *Beech Forests – Joint Natural Heritage of Europe, BfN-Skripten 297*, 73-85.