



## **Literature for MESB01, Earth Systems Science applies from autumn semester 2015**

Literature established by The Board of the Lund University Centre for  
Sustainability Studies on 2015-08-28 to apply from 2015-08-28

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See appendix.

## **MESB01 Biogeovetenskap**

### *MESB01 Earth Systems Science*

Literaturlista fastställd av LUCSUS styrelse den 2015-08-28

#### **Books**

Burch, Sarah, and Harris, S. 2014. *Understanding Climate Change: Science, Policy, and Practice*. Toronto: University of Toronto Press.

Graff, G. and Birkenstein, C. (2010). *They Say/I Say: The moves that matter in academic writing*. London: W.W. Norton & Company.

Karban, R., & Huntzinger, M. (2006). *How to do Ecology: A concise handbook*. Princeton, NJ, USA: Princeton University Press.

#### **Reports**

Ajero, May Antoniette, Dolores Armenteras, Jane Barr, Ricardo Barra, Ivar Baste, James Dobrowolski, Nicolai Dronin, Amir El-Sammak, Tom P. Evans, C. Max Finlayson, Erica Brown Gaddis, Keisha Garcia, Nesreen Ghaddar, Paul Roger Glennie, Yi Huang, Carol A. Hunsberger, Maria Ivanova, Jill Jäger, Peter N. King, Johan C.I. Kuylenstierna, Bernice Lee, Marc A. Levy, Lailai Li, Clever Mafuta, Ruben Mnatsakanian, Jennifer Clare Mohamed-Katerere, Alexandra C. Morel, Begum Ozkaynak, Neeyati Patel, Renat Perelet, Laszlo Pinter, Pierre Portas, Walter Rast, Asha Singh, Detlef P. van Vuuren, Roy Victor Watkinson, & Joanna Noelia Kamiche Zegarra. (2012). *Global Environmental Outlook 5: Environment for the Future We Want* (pp. 486): United Nations Environment Program (UNEP). The full report can be downloaded from:

[http://www.unep.org/geo/pdfs/geo5/GEO5\\_report\\_full\\_en.pdf](http://www.unep.org/geo/pdfs/geo5/GEO5_report_full_en.pdf)

IPCC, 2013: Summary for Policymakers. In: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

IPCC, 2014: Summary for policymakers. In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Field, C.B., V.R. Barros, D.J. Dokken, K.J. Mach, M.D. Mastrandrea, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1-32. Available from: [http://ipcc-wg2.gov/AR5/images/uploads/WG2AR5\\_SPM\\_FINAL.pdf](http://ipcc-wg2.gov/AR5/images/uploads/WG2AR5_SPM_FINAL.pdf)

IPCC, 2014: Summary for Policymakers, In: *Climate Change 2014, Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report*

of the Intergovernmental Panel on Climate Change [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J.C. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Available from: [http://report.mitigation2014.org/spm/ipcc\\_wg3\\_ar5\\_summary-for-policy-makers\\_approved.pdf](http://report.mitigation2014.org/spm/ipcc_wg3_ar5_summary-for-policy-makers_approved.pdf)

### **Required Articles**

Cassidy, E. S., West, P. C., Gerber, J. S., & Foley, J. A. (2013). Redefining agricultural yields: from tonnes to people nourished per hectare. *Environmental Research Letters*, 8(3), 034015. <http://iopscience.iop.org/1748-9326/8/3/034015>

Cordell, D., Drangert, J.-O., White, S. (2009) The story of phosphorus: Global food security and food for thought. *Global Environmental Change* 19, 292-305.

DeFries, Ruth, Gregory P. Asner, & Jonathan Foley. (2006). A glimpse out the window: Landscapes, livelihoods, and the environment. *Environment*, 48(1), 22-36

Gleick, Peter H. (2003). Global freshwater resources: soft-path solutions for the 21st century. *Science*, 302(5650), 1524-1528. doi: 10.1126/science.1089967

Hoegh-Guldberg, O., P. J. Mumby, A. J. Hooten, R. S. Steneck, P. Greenfield, E. Gomez, C. D. Harvell, P. F. Sale, A. J. Edwards, K. Caldeira, N. Knowlton, C. M. Eakin, R. Iglesias-Prieto, N. Muthiga, R. H. Bradbury, A. Dubi, & M. E. Hatziolos. (2007). Coral reefs under rapid climate change and ocean acidification. *Science*, 318(5857), 1737-1742. doi: 10.1126/science.1152509

Lenzen, M., D. Moran, K. Kanemoto, B. Foran, L. Lobefaro, and A. Geschke. 2012. International trade drives biodiversity threats in developing nations. *Nature* 486:109-112. <http://www.ncbi.nlm.nih.gov/pubmed/22678290>

Will Steffen, Katherine Richardson, Johan Rockström, Sarah E. Cornell, Ingo Fetzer, Elena M. Bennett, Reinette Biggs, Stephen R. Carpenter, Wim de Vries, Cynthia A. de Wit, Carl Folke, Dieter Gerten, Jens Heinke, Georgina M. Mace, Linn M. Persson, Veerabhadran Ramanathan, Belinda Reyers, and Sverker Sörlin. Planetary boundaries: Guiding human development on a changing planet. *Science* 13 February 2015: 347 (6223), 1259855 Published online 15 January 2015 [DOI:10.1126/science.1259855]

Maj Rundlöf, Georg K. S. Andersson, Riccardo Bommarco, Ingemar Fries, Veronica Hederström, Lina Herbertsson, Ove Jonsson, Björn K. Klatt, Thorsten R. Pedersen, Johanna Yourstone & Henrik G. Smith. Seed coating with a neonicotinoid insecticide negatively affects wild bees. *Nature* 521, 77–80 (07 May 2015) doi:10.1038/nature14420