

ClimMani publications

Publications derived as part of the ClimMani COST action work

Terrer, C.; Vicca, S.; Hungate, B.A.; Phillips, R.P. and Prentice, I.C.. (2016) Mycorrhizal association as a primary control of the CO₂ fertilization effect. *Science* 353, 72-74. <http://science.sciencemag.org/content/353/6294/72>

Estiarte, M.; Vicca, S.; Penuelas, J.; Bahn, M.; Beier, C.; Emmett, B.A.; Fay, P.A.; Hanson, P.J.; Hasibeder, R.; Kigel, J.; Kroel-Dulay, G.; Larsen, K.S.; Lellei-Kovacs, E.; Limousin, J.M.; Ogaya, R.; Ourcival, J.M.; Reinsch, S.; Sala, O.E.; Kappel-Schmidt, I.; Sternberg, M.; Tielborger, K.; Tietema, A. and Janssens, I.A. (2016) Few multiyear precipitation-reduction experiments find a shift in the productivity-precipitation relationship. *Global Change Biology*, 22, 2570-2581. <http://onlinelibrary.wiley.com/doi/10.1111/gcb.13269/full>

De Boeck, H.; Vicca, S.; Roy, J.; Nijs, I.; Milcu, A.; Kreyling, J.; Jentsch, A.; Chabbi, A.; Campioli, M.; Beierkuhnlein, C. and Beier, C. (2014) *Global Change Experiments: Challenges and opportunities*, *Bioscience* 65, 922-931. <https://academic.oup.com/bioscience/article/65/9/922/237525/Global-Change-Experiments-Challenges-and>

Poeplau, T.; Kätterer, N. I. W.; Leblans and Sigurdsson, B.D. (2016) Sensitivity of soil carbon fractions and their specific stabilisation mechanisms to extreme soil warming in a subarctic grassland –*Global Change Biology* (23), 1316–1327. DOI: 10.1111/gcb.13491

N. I. W. Leblans, B. D. Sigurdsson, P. Roefs, R. Thuys, B. Magnússon, and I. A. Janssens (2014) Effects of seabird nitrogen input on biomass and carbon accumulation after 50 years of primary succession on a young volcanic island, Surtsey –*Biogeosciences*, 11,. doi:10.5194/bg-11-6237-2014.

Krassimira Ilieva-Makulec, Brynhildur Bjarnadottir and Bjarni D. Sigurdsson (2015) Soil nematode communities on Surtsey, 50 years after the formation of the volcanic island. *Icelandic Agricultural Sciences* 28, 43-58, DOI: 10.16886/IAS.2015.05.

Hiltbrunner, E.; Aerts R.; Bühlmann T.; Huss-Danell K.; Myrold D.D.; Reed S.C.; Sigurdsson B.D.; Körner C. (2015) Ecological consequences of the expansion of N₂-fixing plants in cold biomes. *Oecologia*, 176, 11-24. DOI: 10.1007/s00442-014-2991-x

Stefansdottir, G., Aradottir, A. L., and Sigurdsson, B. D.: (2014) Accumulation of nitrogen and organic matter during primary succession of *Leymus arenarius* dunes on the volcanic island Surtsey, Iceland, *Biogeosciences*, 11, 5763-5771. doi:10.5194/bg-11-5763-2014

Markus Didion, Anna Repo, Jari Liski, Martin Forsius, Michael Bierbaumer and Ika Djukic (2016) Towards Harmonizing Leaf Litter Decomposition Studies Using Standard Tea Bags—A Field Study and Model Application.. *Forests* 7, 167. DOI: 10.3390/f7080167

L.C. Andresen, C. Müller, G. de Dato, J.S. Dukes, B.A. Emmett, M. Estiarte, A. Jentsch, G. Kröel-Dulay, A. Lüscher, S. Niu, J. Peñuelas, P.B. Reich, S. Reinsch, R. Ogaya, I.K. Schmidt, M.K. Schneider, M. Sternberg, A. Tietema, K. Zhu, M.C. Bilton (2016) Shifting impacts of Climate Change: Long-term patterns of plant response to elevated CO₂, drought, and warming across ecosystems. In: Alex J. Dumbrell, Rebecca L. Kordas and Guy Woodward, Editor(s), *Advances in Ecological Research*, Academic Press, 2016, Volume 55, Pages 437-473. ISSN 0065-2504, ISBN 9780081009352, <http://doi.org/10.1016/bs.aecr.2016.07.001>. (<http://www.sciencedirect.com/science/article/pii/S0065250416300149>)

A K. Knapp; M. L. Avolio; C. Beier; C. J. W. Carroll; S. L. Collins; J. S. Dukes; L. H. Fraser; R. J. Griffin-Nolan; D. L. Hoover; A. Jentsch; M. E. Loi; R.P. Phillips; A. K. Post; O. E. Sala; I. J. Slette; L. Yahdjian and M.D. Smith. (2017) Pushing precipitation to the extremes in distributed experiments: recommendations for simulating wet and dry years. *Global Change Biology*, 23, 1774-1782. doi: 10.1111/gcb.13504

Maljanen, M., H. Yli-Mojjala, C. Biasi, N.I.W. Leblans, H.J. De Boeck, B. Bjarnadóttir and B.D. Sigurdsson 2017. The emissions of N₂O and CH₄ from natural soil temperature gradients in a volcanic area in southwest Iceland. *Soil Biology and Biochemistry*, 109:70-80. <http://doi.org/10.1016/j.soilbio.2017.01.021>

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