

## 2018 BECC Gothenburg

- Ambec, S., & Coria, J. (2018). Policy spillovers in the regulation of multiple pollutants. *Journal of Environmental Economics and Management*, *87*, 114-134.  
doi:<https://doi.org/10.1016/j.jeem.2017.05.011>
- Andersson-Sköld, Y., Klingberg, J., Gunnarsson, B., Cullinane, K., Gustafsson, I., Hedblom, M., . . . Thorsson, S. (2018). A framework for assessing urban greenery's effects and valuing its ecosystem services. *Journal of Environmental Management*, *205*, 274-285.  
doi:<https://doi.org/10.1016/j.jenvman.2017.09.071>
- Antonelli, A., Ariza, M., Albert, J., Andermann, T., Azevedo, J., Bacon, C., . . . Edwards, S. V. (2018). Conceptual and empirical advances in Neotropical biodiversity research. *PeerJ*, *6*, e5644.  
doi:10.7717/peerj.5644
- Antonelli, A., Kissling, W. D., Flantua, S. G. A., Bermúdez, M. A., Mulch, A., Muellner-Riehl, A. N., . . . Hoorn, C. (2018). Geological and climatic influences on mountain biodiversity. *Nature Geoscience*, *11*(10), 718-725. doi:10.1038/s41561-018-0236-z
- Antonelli, A., Zizka, A., Carvalho, F. A., Scharn, R., Bacon, C. D., Silvestro, D., & Condamine, F. L. (2018). Amazonia is the primary source of Neotropical biodiversity. *Proceedings of the National Academy of Sciences*, *115*(23), 6034-6039. doi:10.1073/pnas.1713819115
- Azorin-Molina, C., Guijarro, J. A., McVicar, T. R., Trewin, B. C., Frost, A. J., & Chen, D. (2018). An approach to homogenize daily peak wind gusts: An application to the Australian series. *Int J Climatol*, *0*(0). doi:doi:10.1002/joc.5949
- Azorin-Molina, C., Menendez, M., McVicar, T. R., Acevedo, A., Vicente-Serrano, S. M., Cuevas, E., . . . Chen, D. J. C. D. (2018). Wind speed variability over the Canary Islands, 1948–2014: focusing on trend differences at the land–ocean interface and below–above the trade-wind inversion layer. *Climate Dynamics*, *50*(11), 4061-4081. doi:10.1007/s00382-017-3861-0
- Azorin-Molina, C., Rehman, S., Guijarro, J. A., McVicar, T. R., Minola, L., Chen, D., & Vicente-Serrano, S. M. (2018). Recent trends in wind speed across Saudi Arabia, 1978–2013: a break in the stilling. *International Journal of Climatology*, *38*(S1), e966-e984. doi:doi:10.1002/joc.5423
- Babst, F., Bodesheim, P., Charney, N., Friend, A. D., Girardin, M. P., Klesse, S., . . . Evans, M. E. K. (2018). When tree rings go global: Challenges and opportunities for retro- and prospective insight. *Quaternary Science Reviews*, *197*, 1-20.  
doi:<https://doi.org/10.1016/j.quascirev.2018.07.009>
- Bacon, C. D., Velásquez-Puentes, F. J., Hinojosa, L. F., Schwartz, T., Oxelman, B., Pfeil, B., . . . Antonelli, A. (2018). Evolutionary persistence in *Gunnera* and the contribution of southern plant groups to the tropical Andes biodiversity hotspot. *PeerJ*, *6*, e4388.  
doi:10.7717/peerj.4388
- Bacon, C. D., Velásquez-Puentes, F. J., Hoorn, C., & Antonelli, A. (2018). Iriarteeae palms tracked the uplift of Andean Cordilleras. *Journal of Biogeography*, *45*(7), 1653-1663.  
doi:doi:10.1111/jbi.13350
- Baruah, G., Molau, U., Jägerbrand, A. K., & Alatalo, J. M. (2018). Impacts of seven years of experimental warming and nutrient addition on neighbourhood species interactions and community structure in two contrasting alpine plant communities. *Ecological Complexity*, *33*, 31-40. doi:<https://doi.org/10.1016/j.ecocom.2017.11.003>
- Beeck, M. O. d., Gielen, B., Merbold, L., Ayres, E., Serrano-Ortiz, P., Acosta, M., . . . Hörtnagl, L. (2018). Soil-meteorological measurements at ICOS monitoring stations in terrestrial ecosystems. *Int Agrophys*, *32*(4), 619-631. doi:<https://doi.org/10.1515/intag-2017-0041>
- Bennett, D. J., Hettling, H., Silvestro, D., Zizka, A., Bacon, C. D., Faurby, S., . . . Antonelli, A. (2018). phylotaR: An Automated Pipeline for Retrieving Orthologous DNA Sequences from GenBank in R. *Life (Basel)*, *8*(2), 20.
- Bibi, S., Wang, L., Li, X., Zhou, J., Chen, D., & Yao, T. (2018). Climatic and associated cryospheric, biospheric, and hydrological changes on the Tibetan Plateau: a review. *Int. J Climatol*, *38*(S1), e1-e17. doi:doi:10.1002/joc.5411

- Bjorkman, A. D., Myers-Smith, I. H., Elmendorf, S. C., Normand, S., R uger, N., Beck, P. S. A., . . . Weiher, E. (2018). Plant functional trait change across a warming tundra biome. *Nature*, 562(7725), 57-62. doi:10.1038/s41586-018-0563-7
- Bjorkman, A. D., Myers-Smith, I. H., Elmendorf, S. C., Normand, S., Thomas, H. J. D., Alatalo, J. M., . . . Zamin, T. (2018). Tundra Trait Team: A database of plant traits spanning the tundra biome. *Global Ecology and Biogeography*, 27(12), 1402-1411. doi:doi:10.1111/geb.12821
- Bonilla, J., Coria, J., Sterner, T. J. E., & Economics, R. (2018). Technical Synergies and Trade-Offs Between Abatement of Global and Local Air Pollution. *Environmental and Resource Economics*, 70(1), 191-221. doi:10.1007/s10640-017-0117-8
- Braun, J., Mooshammer, M., Wanek, W., Prommer, J., Walker, T. W. N., R utting, T., & Richter, A. (2018). Full 15N tracer accounting to revisit major assumptions of 15N isotope pool dilution approaches for gross nitrogen mineralization. *Soil Biology and Biochemistry*, 117, 16-26. doi:https://doi.org/10.1016/j.soilbio.2017.11.005
- B untgen, U., Wacker, L., Galv n, J. D., Arnold, S., Arseneault, D., Baillie, M., . . . Young, G. H. F. (2018). Tree rings reveal globally coherent signature of cosmogenic radiocarbon events in 774 and 993 CE. *Nature Communications*, 9(1), 3605. doi:10.1038/s41467-018-06036-0
- Campeau, A., Bishop, K., Nilsson, M. B., Klemedtsson, L., Laudon, H., Leith, F. I., . . . Wallin, M. B. (2018). Stable Carbon Isotopes Reveal Soil-Stream DIC Linkages in Contrasting Headwater Catchments. *Journal of Geophysical Research-Biogeosciences*, 123(1), 149-167. doi:doi:10.1002/2017JG004083
- Cano,  ., Bacon, C. D., Stauffer, F. W., Antonelli, A., Serrano-Serrano, M. L., & Perret, M. (2018). The roles of dispersal and mass extinction in shaping palm diversity across the Caribbean. *Journal of Biogeography*, 45(6), 1432-1443. doi:doi:10.1111/jbi.13225
- Chen, A., Chen, D., & Azorin-Molina, C. (2018). Assessing reliability of precipitation data over the Mekong River Basin: A comparison of ground-based, satellite, and reanalysis datasets. *Int J of Climatol*, 38(11), 4314-4334. doi:doi:10.1002/joc.5670
- Coria, J. (2018). Policy Monitor—The Economics of Toxic Substance Control and the REACH Directive. *Review of Environmental Economics and Policy*, 12(2), 342-358. doi:10.1093/reep/rey003 %J Review of Environmental Economics and Policy
- Coria, J., Jarait , J. J. E., & Economics, R. (2018). Transaction Costs of Upstream Versus Downstream Pricing of CO2Emissions. *Environmental and Resource Economics*, doi:10.1007/s10640-018-0235-y
- Dahl, M., Infantes, E., Clevesj , R., Linderholm, H. W., Bj rk, M., & Gullstr m, M. (2018). Increased current flow enhances the risk of organic carbon loss from *Zostera marina* sediments: Insights from a flume experiment. *Limnology and Oceanography*, 63(6), 2793-2805. doi:doi:10.1002/lno.11009
- Eggert, H., Kataria, M. & Lampi, E. (2018). Who Can Be Trusted to Manage the Fish? A Study Comparing Trust between Stakeholders, *Land Economics*, 94 (3), 354-367
- Eiserhardt, W. L., Antonelli, A., Bennett, D. J., Botigu , L. R., Burleigh, J. G., Dodsworth, S., . . . Baker, W. J. (2018). A roadmap for global synthesis of the plant tree of life. *American J of Botany*, 105(3), 614-622. doi:doi:10.1002/ajb2.1041
- Emberson, L. D., Pleijel, H., Ainsworth, E. A., van den Berg, M., Ren, W., Osborne, S., . . . Van Dingenen, R. (2018). Ozone effects on crops and consideration in crop models. *European Journal of Agronomy*, 100, 19-34. doi:https://doi.org/10.1016/j.eja.2018.06.002
- Fang, K., Chen, D., Guo, Z., Zhao, Y., Frank, D., He, M., . . . Neukom, R. J. C. D. (2018). An interdecadal climate dipole between Northeast Asia and Antarctica over the past five centuries. *Climate Dynamics*, doi:10.1007/s00382-018-4161-z
- Fang, K., Chen, D., Ilvonen, L., Frank, D., Pasanen, L., Holmstr m, L., . . . Sepp , H. (2018). Time-varying relationships among oceanic and atmospheric modes: A turning point at around 1940. *Quaternary International*, 487, 12-25. doi:https://doi.org/10.1016/j.quaint.2017.09.005

- Fang, K., Cook, E., Guo, Z., Chen, D., Ou, T., & Zhao, Y. (2018). Synchronous multi-decadal climate variability of the whole Pacific areas revealed in tree rings since 1567. *Environmental Research Letters*, *13*(2), 024016. doi:10.1088/1748-9326/aa9f74
- Fang, K., Guo, Z., Chen, D., Wang, L., Dong, Z., Zhou, F., . . . Cao, X. J. C. D. (2018). Interdecadal modulation of the Atlantic Multi-decadal Oscillation (AMO) on southwest China's temperature over the past 250 years. *Climate Dynamics*, doi:10.1007/s00382-018-4244-x
- Farahat, E., & Linderholm, H. W. J. E. J. o. F. R. (2018). Growth–climate relationship of European beech at its northern distribution limit. *European Journal of Forest Research*, *137*(5), 619-629. doi:10.1007/s10342-018-1129-9
- Faurby, S., & Antonelli, A. (2018). Evolutionary and ecological success is decoupled in mammals. *Journal of Biogeography*, *45*(10), 2227-2237. doi:doi:10.1111/jbi.13411
- Faurby, S., Davis, M., Pedersen, R. Ø., Schowanek, S. D., Antonelli, A., & Svenning, J.-C. (2018). PHYLACINE 1.2: The Phylogenetic Atlas of Mammal Macroecology. *Ecology*, *99*(11), 2626-2626. doi:doi:10.1002/ecy.2443
- Feng, Z., Büker, P., Pleijel, H., Emberson, L., Karlsson, P. E., & Uddling, J. (2018). A unifying explanation for variation in ozone sensitivity among woody plants. *Global Change Biology*, *24*(1), 78-84. doi:doi:10.1111/gcb.13824
- Feng, Z., Uddling, J., Tang, H., Zhu, J., & Kobayashi, K. (2018). Comparison of crop yield sensitivity to ozone between open-top chamber and free-air experiments. *Global Change Biology*, *24*(6), 2231-2238. doi:doi:10.1111/gcb.14077
- Ferreira, M., Fernandes, A. M., Aleixo, A., Antonelli, A., Olsson, U., Bates, J. M., . . . Ribas, C. C. (2018). Evidence for mtDNA capture in the jacamar *Galbula leucogastra*/chalcothorax species-complex and insights on the evolution of white-sand ecosystems in the Amazon basin. *Molecular Phylogenetics and Evolution*, *129*, 149-157. doi:https://doi.org/10.1016/j.ympev.2018.07.007
- Franz, D., Acosta, M., Altimir, N., Arriga, N., Arrouays, D., Aubinet, M., . . . Vesala, T. (2018). Towards long-term standardised carbon and greenhouse gas observations for monitoring Europe's terrestrial ecosystems: a review. *International Agrophysics*, *32*(4), 439. doi:https://doi.org/10.1515/intag-2017-0039
- Franz, M., Alonso, R., Arneth, A., Büker, P., Elvira, S., Gerosa, G., . . . Zaehle, S. (2018). Evaluation of simulated ozone effects in forest ecosystems against biomass damage estimates from fumigation experiments. *Biogeosciences*, *15*(22), 6941-6957. doi:10.5194/bg-15-6941-2018
- Fuentes, M., Salo, R., Björklund, J., Seftigen, K., Zhang, P., Gunnarson, B., . . . Linderholm, H. W. (2018). A 970-year-long summer temperature reconstruction from Rogen, west-central Sweden, based on blue intensity from tree rings. *The Holocene*, *28*(2), 254-266. doi:10.1177/0959683617721322
- Gao, Y., Xiao, L., Chen, D., Xu, J., & Zhang, H. (2018). Comparison between past and future extreme precipitations simulated by global and regional climate models over the Tibetan Plateau. *International J Climatology*, *38*(3), 1285-1297. doi:doi:10.1002/joc.5243
- Ge, Q., Chen, D., Luterbacher, J., Tokarska, K. B., & Hao, Z. (2018). Global and regional climate responses to national-committed emission reductions under the Paris agreement AU - Wang, Fang. *Geografiska Annaler: Series A, Physical Geography*, *100*(3), 240-253. doi:10.1080/04353676.2018.1488538
- Gebregziabher, Z., Beyene, A. D., Bluffstone, R., Martinsson, P., Mekonnen, A., & Toman, M. A. (2018). Fuel savings, cooking time and user satisfaction with improved biomass cookstoves: Evidence from controlled cooking tests in Ethiopia. *Resource and Energy Economics*, *52*, 173-185. doi:https://doi.org/10.1016/j.reseneeco.2018.01.006
- Guedes, T. B., Sawaya, R. J., Zizka, A., Laffan, S., Faurby, S., Pyron, R. A., . . . Antonelli, A. (2018). Patterns, biases and prospects in the distribution and diversity of Neotropical snakes. *Global Ecology and Biogeography*, *27*(1), 14-21. doi:doi:10.1111/geb.12679

- Gullström, M., Lyimo, L. D., Dahl, M., Samuelsson, G. S., Eggertsen, M., Anderberg, E., . . . Björk, M. J. E. (2018). Blue Carbon Storage in Tropical Seagrass Meadows Relates to Carbonate Stock Dynamics, Plant–Sediment Processes, and Landscape Context: Insights from the Western Indian Ocean. *Ecosystems*, *21*(3), 551-566. doi:10.1007/s10021-017-0170-8
- Guo, G., Fang, K., Li, J., Linderholm, H.W., Li, D., Zhou, F., Dong, Z., Li, Y. & Wang, L. (2018). Increasing intrinsic water-use efficiency over the past 160 years doesn't stimulate tree growth in southeastern China. *Climate Research*, *76* (2), 115-130
- Hagen, O., Andermann, T., Antonelli, A., Silvestro, D., & Quental, T. B. (2018). Estimating Age-Dependent Extinction: Contrasting Evidence from Fossils and Phylogenies. *Systematic Biology*, *67*(3), 458-474. doi:10.1093/sysbio/syx082
- Hansson, L. J., Ring, E., Franko, M. A., & Gärdenäs, A. I. (2018). Soil temperature and water content dynamics after disc trenching a sub-xeric Scots pine clearcut in central Sweden. *Geoderma*, *327*, 85-96. doi:https://doi.org/10.1016/j.geoderma.2018.04.023
- Harmens, H., Hayes, F., Mills, G., Sharps, K., Osborne, S., & Pleijel, H. (2018). Wheat yield responses to stomatal uptake of ozone: Peak vs rising background ozone conditions. *Atmospheric Environment*, *173*, 1-5. doi:https://doi.org/10.1016/j.atmosenv.2017.10.059
- He, H., Meyer, A., Jansson, P. E., Svensson, M., Rütting, T., & Klemedtsson, L. (2018). Simulating ectomycorrhiza in boreal forests: implementing ectomycorrhizal fungi model MYCOFON in CoupModel (v5). *Geosci. Model Dev.*, *11*(2), 725-751. doi:10.5194/gmd-11-725-2018
- Hu, Y., Ou, T., Huang, J., Gustavsson, T., & Bogren, J. (2018). Winter hoar frost conditions on Swedish roads in a warming climate. *International J Climatol*, *38*(12), 4345-4354. doi:doi:10.1002/joc.5672
- Hu, Z., Chen, X., Chen, D., Li, J., Wang, S., Zhou, Q., . . . Guo, M. (2018). "Dry gets drier, wet gets wetter": A case study over the arid regions of central Asia. *International J Climatol*, *0*(0). doi:doi:10.1002/joc.5863
- Hu, Z., Zhou, Q., Chen, X., Li, J., Li, Q., Chen, D., . . . Yin, G. (2018). Evaluation of three global gridded precipitation data sets in central Asia based on rain gauge observations. *International J Climatol*, *38*(9), 3475-3493. doi:doi:10.1002/joc.5510
- Jaramillo, F., Cory, N., Arheimer, B., Laudon, H., van der Velde, Y., Hasper, T. B., . . . Uddling, J. (2018). Dominant effect of increasing forest biomass on evapotranspiration: interpretations of movement in Budyko space. *Hydrol. Earth Syst. Sci.*, *22*(1), 567-580. doi:10.5194/hess-22-567-2018
- Jocher, G., Marshall, J., Nilsson, M. B., Linder, S., De Simon, G., Hörnlund, T., . . . Peichl, M. (2018). Impact of Canopy Decoupling and Subcanopy Advection on the Annual Carbon Balance of a Boreal Scots Pine Forest as Derived From Eddy Covariance. *JGR: Biogeosciences*, *123*(2), 303-325. doi:doi:10.1002/2017JG003988
- Kasimir, Å., He, H., Coria, J. & Nordén, A. (2018). Land use of drained peatlands: Greenhouse gas fluxes, plant production, and economics, *Global Change Biology*, *24* (8), 3302-3316
- Kaufman, D. S., & team, P. k. s.-i. e. (2018). Technical note: Open-paleo-data implementation pilot – the PAGES 2k special issue. *Clim. Past*, *14*(5), 593-600. doi:10.5194/cp-14-593-2018
- Koestel, J., Ring, E., & Gärdenäs, A. I. (2018). Impacts of off-road traffic on soil physical properties of forest clear-cuts: X-ray and laboratory analysis AU - Hansson, Linnea J. *Scandinavian Journal of Forest Research*, *33*(2), 166-177. doi:10.1080/02827581.2017.1339121
- Laine, M., Rütting, T., Alakukku, L., Palojärvi, A., & Strömmer, R. J. N. C. i. A. (2018). Process rates of nitrogen cycle in uppermost topsoil after harvesting in no-tilled and ploughed agricultural clay soil. *Nutrient Cycling in Agroecosystems*, *110*(1), 39-49. doi:10.1007/s10705-017-9825-2
- Lamba, S., Hall, M., Rantfors, M., Chaudhary, N., Linder, S., Way, D., . . . Wallin, G. (2018). Physiological acclimation dampens initial effects of elevated temperature and atmospheric CO<sub>2</sub> concentration in mature boreal Norway spruce. *Plant, Cell and Environment*, *41*(2), 300-313. doi:doi:10.1111/pce.13079

- Li, X., Wen, Z., Chen, D., & Chen, Z. (2018). Decadal Transition of the Leading Mode of Interannual Moisture Circulation over East Asia–Western North Pacific: Bonding to Different Evolution of ENSO. *Journal of Climate*, *32*(2), 289-308. doi:10.1175/jcli-d-18-0356.1
- Lim, H., Marshall, J., Ottosson Löfvenius, M., Tarvainen, L., Oren, R., Wallin, G., . . . Tor-ngern, P. (2018). Photosynthetic refixation varies along the stem and reduces CO<sub>2</sub> efflux in mature boreal *Pinus sylvestris* trees. *Tree Physiology*, *38*(4), 558-569. doi:10.1093/treephys/tpx130
- Lin, C., Chen, D., Yang, K., & Ou, T. J. C. D. (2018). Impact of model resolution on simulating the water vapor transport through the central Himalayas: implication for models' wet bias over the Tibetan Plateau. *Climate Dynamics*, *51*(9), 3195-3207. doi:10.1007/s00382-018-4074-x
- Linderholm, H. W., Nicolle, M., Francus, P., Gajewski, K., Helama, S., Korhola, A., . . . Välranta, M. (2018). Arctic hydroclimate variability during the last 2000 years: current understanding and research challenges. *Clim. Past*, *14*(4), 473-514. doi:10.5194/cp-14-473-2018
- Liu, F., Xing, C., Sun, L., Wang, B., Chen, D., & Liu, J. (2018). How Do Tropical, Northern Hemispheric, and Southern Hemispheric Volcanic Eruptions Affect ENSO Under Different Initial Ocean Conditions? *Geophysical Research Letters*, *45*(23), 13,041-013,049. doi:doi:10.1029/2018GL080315
- Liu, W., Lim, W. H., Sun, F., Mitchell, D., Wang, H., Chen, D., . . . Fischer, E. (2018). Global Freshwater Availability Below Normal Conditions and Population Impact Under 1.5 and 2 °C Stabilization Scenarios. *Geophysical Research Letters*, *45*(18), 9803-9813. doi:doi:10.1029/2018GL078789
- Melo, W. A., Freitas, C. G., Bacon, C. D., & Collevatti, R. G. (2018). The road to evolutionary success: insights from the demographic history of an Amazonian palm. *Heredity*, *121*(2), 183-195. doi:10.1038/s41437-018-0074-1
- Metcalfe, D. B., Hermans, T. D. G., Ahlstrand, J., Becker, M., Berggren, M., Björk, R. G., . . . Abdi, A. M. (2018). Patchy field sampling biases understanding of climate change impacts across the Arctic. *Nature Ecology & Evolution*, *2*(9), 1443-1448. doi:10.1038/s41559-018-0612-5
- Mills, G., Pleijel, H., Malley, C. S., Sinha, B., Cooper, O. R., Schultz, M. G., . . . Xu, X. (2018). Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation. *Elem Sci Anth*, *6*(1), 47. DOI: <http://doi.org/10.1525/elementa.302>
- Mills, G., Sharps, K., Simpson, D., Pleijel, H., Broberg, M., Uddling, J., . . . Van Dingenen, R. (2018). Ozone pollution will compromise efforts to increase global wheat production. *Global Change Biology*, *24*(8), 3560-3574. doi:doi:10.1111/gcb.14157
- Mills, G., Sharps, K., Simpson, D., Pleijel, H., Frei, M., Burkey, K., . . . Agrawal, M. (2018). Closing the global ozone yield gap: Quantification and cobenefits for multistress tolerance. *Global Change Biology*, *24*(10), 4869-4893. doi:doi:10.1111/gcb.14381
- Minaei, M., Ahmadian, S., & Chen, D. (2018). Impacts of changes in climate and land cover-land use on flood characteristics in Gorganrood Watershed (Northeastern Iran) during recent decades AU - Irannezhad, Masoud. *Geografiska Annaler: Series A, Physical Geography*, *100*(4), 340-350. doi:10.1080/04353676.2018.1515578
- Mujawamariya, M., Manishimwe, A., Ntirugulirwa, B., Zibera, E., Ganszky, D., Ntawuhiganayo Bahati, E., . . . Uddling, J. (2018). Climate Sensitivity of Tropical Trees Along an Elevation Gradient in Rwanda. *Forests*, *9*(10), 647.
- Nam, C. C., Park, D. S. R., Ho, C. H., & Chen, D. (2018). Dependency of tropical cyclone risk on track in South Korea. *Nat. Hazards Earth Syst. Sci.*, *18*(12), 3225-3234. doi:10.5194/nhess-18-3225-2018
- Nemitz, E., Mammarella, I., Ibrom, A., Aurela, M., Burba, G. G., Dengel, S., . . . Zahniser, M. (2018). Standardisation of eddy-covariance flux measurements of methane and nitrous oxide. *Int. Agrophys.*, *32*(4), 517. doi:https://doi.org/10.1515/intag-2017-0042

- Nicolle, M., Debret, M., Massei, N., Colin, C., deVernal, A., Divine, D., . . . Linderholm, H. W. (2018). Climate variability in the subarctic area for the last 2 millennia. *Clim. Past*, *14*(1), 101-116. doi:10.5194/cp-14-101-2018
- Ou, T., Hu, Y., Gustavsson, T., & Bogren, J. (2018). On the relationship between the risk of hoar frost on roads and a changing climate in Sweden. *Int. J. Climatol.*, *0*(0). doi:doi:10.1002/joc.5974
- Park, C.-E., Jeong, S.-J., Joshi, M., Osborn, T. J., Ho, C.-H., Piao, S., . . . Feng, S. (2018). Keeping global warming within 1.5 °C constrains emergence of aridification. *Nature Climate Change*, *8*(1), 70-74. doi:10.1038/s41558-017-0034-4
- Pavelka, M., Acosta, M., Kiese, R., Altimir, N., Brümmer, C., Crill, P., . . . Kutsch, W. (2018). Standardisation of chamber technique for CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> fluxes measurements from terrestrial ecosystems. *International Agrophysics*, *32*(4), 569. doi:https://doi.org/10.1515/intag-2017-0045
- Persson, M., Lindberg, E., & Reese, H. (2018). Tree Species Classification with Multi-Temporal Sentinel-2 Data. *Remote Sens.*, *10*(11), 1794.
- Pleijel, H., Broberg, M. C., Uddling, J., & Mills, G. (2018). Current surface ozone concentrations significantly decrease wheat growth, yield and quality. *Science of The Total Environment*, *613-614*, 687-692. doi:https://doi.org/10.1016/j.scitotenv.2017.09.111
- Putz, M., Schleusner, P., Rütting, T., & Hallin, S. (2018). Relative abundance of denitrifying and DNRA bacteria and their activity determine nitrogen retention or loss in agricultural soil. *Soil Biology and Biochemistry*, *123*, 97-104. doi:https://doi.org/10.1016/j.soilbio.2018.05.006
- Pärn, J., Verhoeven, J. T. A., Butterbach-Bahl, K., Dise, N. B., Ullah, S., Aasa, A., . . . Mander, Ü. (2018). Nitrogen-rich organic soils under warm well-drained conditions are global nitrous oxide emission hotspots. *Nature Communications*, *9*(1), 1135. doi:10.1038/s41467-018-03540-1
- Qi, W., Liu, J., & Chen, D. (2018). Evaluations and Improvements of GLDAS2.0 and GLDAS2.1 Forcing Data's Applicability for Basin Scale Hydrological Simulations in the Tibetan Plateau. *JGR Atmospheres*, *123*(23), 13,128-113,148. doi:doi:10.1029/2018JD029116
- Ritenberga, O., Sofiev, M., Siljamo, P., Saarto, A., Dahl, A., Ekeboom, A., . . . Ramfjord, H. (2018). A statistical model for predicting the inter-annual variability of birch pollen abundance in Northern and North-Eastern Europe. *Science of The Total Environment*, *615*, 228-239. doi:https://doi.org/10.1016/j.scitotenv.2017.09.061
- Ritter, C. D., Zizka, A., Barnes, C., Nilsson, R. H., Roger, F., & Antonelli, A. (2018). Locality or habitat? Exploring predictors of biodiversity in Amazonia. *Ecography*, *41*, 1-13. doi:doi:10.1111/ecog.03833
- Ritter, C. D., Zizka, A., Roger, F., Tuomisto, H., Barnes, C., Nilsson, R. H., & Antonelli, A. (2018). High-throughput metabarcoding reveals the effect of physicochemical soil properties on soil and litter biodiversity and community turnover across Amazonia. *PeerJ*, *6*, e5661. doi:10.7717/peerj.5661
- Rütting, T., Aronsson, H. & Delin, S. (2018). Efficient use of nitrogen in agriculture. *Nutr Cycl Agroecosyst*, *110*: 1. https://doi.org/10.1007/s10705-017-9900-8
- Sand, E., Konarska, J., Howe, A. W., Andersson-Sköld, Y., Moldan, F., Pleijel, H., & Uddling, J. J. U. E. (2018). Effects of ground surface permeability on the growth of urban linden trees. *Urban Ecosystems*, *21*(4), 691-696. doi:10.1007/s11252-018-0750-1
- Sander, N. L., Pérez-Zavala, F., Da Silva, C. J., Arruda, J. C., Pulido, M. T., Barelli, M. A. A., . . . Cibrián-Jaramillo, A. (2018). Rivers shape population genetic structure in *Mauritia flexuosa* (Arecaceae). *8*(13), 6589-6598. doi:doi:10.1002/ece3.4142
- Schleusner, P., Lammirato, C., Tierling, J., Lebender, U., & Rütting, T. (2018). Primed N<sub>2</sub>O emission from native soil nitrogen: A 15N-tracing laboratory experiment. *Ecology and Evolution*, *181*(4), 621-627. doi:doi:10.1002/jpln.201700312
- Seim, A., Schultz, J. A., Beck, C., Bräuning, A., Krusic, P. J., Leland, C., . . . Linderholm, H. W. (2018). Evaluation of Tree Growth Relevant Atmospheric Circulation Patterns for Geopotential

- Height Field Reconstructions for Asia. *Journal of Climate*, 31(11), 4391-4401.  
doi:10.1175/JCLI-D-17-0164.1
- Shi, F., Wu, X., Li, X., Chen, D., Liu, H., Liu, S., . . . Huang, Y. (2018). Weakening Relationship Between Vegetation Growth Over the Tibetan Plateau and Large-Scale Climate Variability. *JGR Biogeosciences*, 123(4), 1247-1259. doi:doi:10.1002/2017JG004134
- Silva, G. A. R., Antonelli, A., Lendel, A., Moraes, E. d. M., & Manfrin, M. H. (2018). The impact of early Quaternary climate change on the diversification and population dynamics of a South American cactus species. *Journal of Biogeography*, 45(1), 76-88. doi:doi:10.1111/jbi.13107
- Slunge, D., & Boman, A. (2018). Learning to live with ticks? The role of exposure and risk perceptions in protective behaviour against tick-borne diseases. *PLOS ONE*, 13(6), e0198286. doi:10.1371/journal.pone.0198286
- Su, C., Song, S., Lu, Y., Liu, S., Giesy, J. P., Chen, D., . . . Yvette, B. (2018). Potential effects of changes in climate and emissions on distribution and fate of perfluorooctane sulfonate in the Bohai Rim, China. *Science of The Total Environment*, 613-614, 352-360. doi:https://doi.org/10.1016/j.scitotenv.2017.09.021
- Sun, W., Liu, J., Wang, B., Chen, D., Liu, F., Wang, Z., . . . Chen, M. J. C. D. (2018). A “La Niña-like” state occurring in the second year after large tropical volcanic eruptions during the past 1500 years. *Climate Dynamics*, 1-15, doi:10.1007/s00382-018-4163-x
- Tarvainen, L., Lutz, M., Rantfors, M., Näsholm, T., & Wallin, G. (2018). Temperature responses of photosynthetic capacity parameters were not affected by foliar nitrogen content in mature *Pinus sylvestris*. *Physiologia Plantarum*, 162(3), 370-378. doi:doi:10.1111/ppl.12605
- Thomas, H. J. D., Myers-Smith, I. H., Bjorkman, A. D., Elmendorf, S. C., Blok, D., Cornelissen, J. H. C., . . . van Bodegom, P. M. (2018). Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. *Global Ecol Biogeogr.*, 0(0), 1-18. doi:doi:10.1111/geb.12783
- Uddling, J., Broberg, M. C., Feng, Z., & Pleijel, H. (2018). Crop quality under rising atmospheric CO<sub>2</sub>. *Current Opinion in Plant Biology*, 45, 262-267. doi:https://doi.org/10.1016/j.pbi.2018.06.001
- van der Plas, F., Ratcliffe, S., Ruiz-Benito, P., Scherer-Lorenzen, M., Verheyen, K., Wirth, C., . . . Allan, E. (2018). Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. *Ecology Letters*, 21(1), 31-42. doi:doi:10.1111/ele.12868
- van Gestel, N., Shi, Z., van Groenigen, K. J., Osenberg, C. W., Andresen, L. C., Dukes, J. S., . . . Hungate, B. A. (2018). Predicting soil carbon loss with warming. *Nature*, 554, E4. doi:10.1038/nature25745
- Vieider, F. M., Beyene, A., Bluffstone, R., Dissanayake, S., Gebreegziabher, Z., Martinsson, P., & Mekonnen, A. (2018). Measuring Risk Preferences in Rural Ethiopia. *Economic Development and Cultural Change*, 66(3), 417-446.
- Villalobos, L., Coria, J. & Nordén, A. (2018). Has Forest Certification Reduced Forest Degradation in Sweden? *Land Economics*, 94 (2), 220-238.
- Vowles, T., & Björk, R. G. (2018). Implications of evergreen shrub expansion in the Arctic. *Journal of Ecology*, 0(0), 1-6. doi:doi:10.1111/1365-2745.13081
- Vowles, T., Lindwall, F., Ekblad, A., Bahram, M., Furneaux, B. R., Ryberg, M., & Björk, R. G. (2018). Complex effects of mammalian grazing on extramatrical mycelial biomass in the Scandes forest-tundra ecotone. *Ecology and Evolution*, 8(2), 1019-1030. doi:doi:10.1002/ece3.3657
- Wang, L., Fang, K., Chen, D., Dong, Z., Zhou, F., Li, Y., . . . Yu, M. (2018). Intensified variability of the El Niño–Southern Oscillation enhances its modulations on tree growths in southeastern China over the past 218 years. *Int J of Climatol.*, 38(14), 5293-5304. doi:doi:10.1002/joc.5730
- Wang, R., Shi, Y., Su, C., Yuan, J., Johnson, A. C., Jenkins, A., . . . Ellison, A. M. (2018). Interaction between pollution and climate change augments ecological risk to a coastal ecosystem AU - Lu, Yonglong. *Ecosystem Health and Sustainability*, 4(7), 161-168. doi:10.1080/20964129.2018.1500428

- Wang, Y., Wang, L., Li, X., & Chen, D. (2018). Temporal and spatial changes in estimated near-surface air temperature lapse rates on Tibetan Plateau. *Int J of Climatol.*, 38(7), 2907-2921. doi:doi:10.1002/joc.5471
- Widengård, M., Nightingale, A., Roberntz, P., Edman, T. & Carlsson, A. (2018). - Seeing Like a Standard: EU, sustainable biofuels, and land use change in Africa. *ACME: An International Journal for Critical Geographies*, 17 (1), 49-87.
- Wu, X., Guo, W., Liu, H., Li, X., Peng, C., Allen, C. D., . . . Chen, D. (2018). Exposures to temperature beyond threshold disproportionately reduce vegetation growth in the northern hemisphere. *National Science Review*, nwy158. doi:10.1093/nsr/nwy158
- Yang, J., Ji, Z., Chen, D., Kang, S., Fu, C., Duan, K., & Shen, M. J. A. i. A. S. (2018). Improved Land Use and Leaf Area Index Enhances WRF-3DVAR Satellite Radiance Assimilation: A Case Study Focusing on Rainfall Simulation in the Shule River Basin during July 2013. *Advances in Atmospheric Sciences*, 35(6), 628-644. doi:10.1007/s00376-017-7120-4
- Yang, J., Kang, S., Ji, Z., & Chen, D. (2018). Modeling the Origin of Anthropogenic Black Carbon and Its Climatic Effect Over the Tibetan Plateau and Surrounding Regions. *JGR Atmospheres*, 123(2), 671-692. doi:doi:10.1002/2017JD027282
- Yao, T., Xue, Y., Chen, D., Chen, F., Thompson, L., Cui, P., . . . Li, Q. (2018). Recent Third Pole's rapid warming accompanies cryospheric melt and water cycle intensification and interactions between monsoon and environment: multi-disciplinary approach with observation, modeling and analysis. *Bull. Amer. Meteor. Soc.*, 0(0),. doi:10.1175/bams-d-17-0057.1
- Zhang, P., Gunnarson, B. E., Fuentes, M., Stridbeck, P., & Linderholm, H. W. (2018). Are standing dead trees (snags) suitable as climate proxies? A case study from the central Scandinavian Mountains AU - Farahat, Emad. *Scandinavian Journal of Forest Research*, 33(2), 114-124. doi:10.1080/02827581.2017.1341547
- Zhang, P., Jeong, J.-H., Linderholm, H. W., Jeong, J.-Y., Salo, R., Kim, B.-M., & Kim, M.-S. J. A.-P. J. o. A. S. (2018). The Potential of Using Tree-Ring Data from Jeju Island to Reconstruct Climate in Subtropical Korea and the Western North Pacific. *Asia-Pacific Journal of Atmospheric Sciences*, 1-9. doi:10.1007/s13143-018-0089-9
- Zhang, X., Chen, D., & Yao, T. (2018). Evaluation of circulation-type classifications with respect to temperature and precipitation variations in the central and eastern Tibetan Plateau. *Int. J. Climatol.*, 38(13), 4938-4949. doi:doi:10.1002/joc.5708
- Zhang, X., Wang, L., & Chen, D. (2018). How does temporal trend of reference evapotranspiration over the Tibetan Plateau change with elevation? *Int. J. Climatol.* 0(0). doi:doi:10.1002/joc.5951
- Zizka, A., Steege, H. t., Pessoa, M. d. C. R., & Antonelli, A. (2018). Finding needles in the haystack: where to look for rare species in the American tropics. *Ecography*, 41(2), 321-330. doi:doi:10.1111/ecog.02192

### **Peer-reviewed conference papers**

- Ewald, J., Sterner, T., Giraudet, L-G., Hennlock, M., Mata, É., Nadaud, F. & Broin, E.Ó. (2018). An ex post evaluation of energy-efficiency policies across the European Union. *World Congress of Environmental and Resource Economists*.
- Ewald, J., Sterner, T., Giraudet, L-G., Hennlock, M., Mata, É., Nadaud, F. & Broin, E.Ó. (2018). An ex post evaluation of EU Energy Performance of Buildings Directive. *37th International Energy Workshop*.
- Konarska, J., Rantfors, M., Tapper, N. & Uddling, J. (2018). Tree Health, Growth and Cooling Effects at Contrasting Urban Sites in Gothenburg, Sweden. *10th International Conference on Urban Climate/14th Symposium on the Urban Environment, New York, US, August 2018*.



### **Other scientific publications (books, theses etc)**

- Antonelli, A. & Perrigo, A.L. (2018). The pitfalls of taking science to the public. *Science*, 359, 283.
- Antonelli, A. & Perrigo, A.L. (2018). The science and ethics of extinction. *Nature Ecology & Evolution* 2, 581.
- Björnsne, A-K. (2018). *The Nitrogen Cycle in Soil – Climate Impact and Methodological Challenges in Natural Ecosystems*. Doctoral thesis, University of Gothenburg, Gothenburg, Sweden.
- Cohen, J., Zhang, X., Francis, J., Jung, T., Kwok, R., Overland, J., Taylor, P.C., Lee, S., Laliberte, F., Feldstein, S., Maslowski, W., Henderson, G., Stroeve, J., Coumou, D., Handorf, D., Semmler, T., Ballinger, T. Hell, M., Kretschmer, K., Vavrus, S., Wang, M., Wang, S., Wu, Y., Vihma, T., Bhatt, U., Ionita, M., Kwok, R., Linderholm, H.W., Rigor, I., Routson, C., Singh, D., Wendisch, M., Smith, D., Screen, J., Yoon, J-H., Peings, Y., Chen, H. & Blackport, R. (2018). *Arctic change and possible influence on mid-latitude climate and weather - a US CLIVAR white paper*. US CLIVAR Report 2018-1.
- Coria, J. (2018). Vad kostar det egentligen att rädda klimatet? *Svenska Dagbladet*.
- Coria, J., Hennlock, M. & Sterner, T. (2018). *Fiscal Federalism, Interjurisdictional Externalities and Overlapping Policies*. Working Papers in Economics – Report 742. Gothenburg: University of Gothenburg.
- Gebreegziabher, Z., Mekonnen, A., Ferede, T., Guta, F., Levin, J., Köhlin, G., Alemu, T. & Bohlin, L. (2018). The distributive effect and food security implications of biofuels investment in Ethiopia: A CGE analysis. In Spindell Berck, C., Berck, P., Di Falco, S. (Eds.). *Agricultural Adaptation to Climate Change in Africa: Food Security in a Changing Environment*, 252-282. Abingdon: Taylor and Francis.
- Hennlock, M., Löfgren, Å., Sterner, T. & Martinsson, P. (2018). *Emissions Trading Subject to Kantian Preferences*. Working Papers in Economics – Report 718. Gothenburg: University of Gothenburg.
- Karlsson, P.E., Karlsson Pihl, G. & Pleijel, H. (2018). *En förbättrad metodik för att beräkna ozonkänsliga perioder för växtligheten under året*. IVL Svenska Miljöinstitutet Report. Stockholm: IVL.
- Karlsson Pihl, G., Danielsson, H., Karlsson, P.E. & Pleijel, H. (2018). *Marknära ozon i bakgrundsmiljö i södra Sverige. Ozonmät nätet i södra Sverige*. IVL Svenska Miljöinstitutet Report, Stockholm: IVL.
- Mukanjari, S. & Sterner, T. (2018). *Do Markets Trump Politics? Evidence from Fossil Market Reactions to the Paris Agreement and the U.S. Election*. Working Papers in Economics – Report 728. Gothenburg: University of Gothenburg.
- Perrigo, A.L. (2018). The road less traveled. *Science*, 361, 102.
- Pleijel, H. (2018). Åkerfibbla och andra ogräs i en sydhalländsk kustbygd, *Svensk Botanisk Tidskrift*, 112, 176-185.
- Sterner, T. & Robinson, E. (2018). Selection and Design of Environmental Policy Instruments. In P Dasgupta, K Smith and S Pattanayak (eds.). *Handbook of Environmental Economics*, IV, 231-277. Amsterdam: Elsevier.

## 2017 BECC Gothenburg

- Alatalo, J. M., Jägerbrand, A. K., Chen, S., & Molau, U. (2017). Responses of lichen communities to 18 years of natural and experimental warming. *Annals of Botany*, *120*(1), 159-170. doi:10.1093/aob/mcx053 %J Annals of Botany
- Albert, J. S., & Antonelli, A. (2017). Society for the Study of Systematic Biology symposium: Frontiers in Parametric Biogeography. *Systematic Biology*, *66*(2), 125-127. doi:10.1093/sysbio/syx036 %J Systematic Biology
- Anchukaitis, K. J., Wilson, R., Briffa, K. R., Büntgen, U., Cook, E. R., D'Arrigo, R., . . . Zorita, E. (2017). Last millennium Northern Hemisphere summer temperatures from tree rings: Part II, spatially resolved reconstructions. *Quaternary Science Reviews*, *163*, 1-22. doi:<https://doi.org/10.1016/j.quascirev.2017.02.020>
- Antonelli, A. (2017). Biogeography: Drivers of bioregionalization. *Nature Ecology & Evolution*, *1*, 0114. doi:10.1038/s41559-017-0114
- Aronsson, T., & Johansson-Stenman, O. (2017). Genuine saving and positional externalities. *International Economic Review*, *58*(4), 1155-1190. doi:doi:10.1111/iere.12248
- Aurangojeb, M., Klemmedtsson, L., Rütting, T., He, H., Weslien, P., Banzhaf, S., & Kasimir, Å. (2017). Nitrous oxide emissions from Norway spruce forests on drained organic and mineral soil. *Canadian Journal of Forest Research*, *47*(11), 1482-1487. doi:10.1139/cjfr-2016-0541
- Bacon, C. D., Moraes R, M., Jaramillo, C., & Antonelli, A. (2017). Endemic palm species shed light on habitat shifts and the assembly of the Cerrado and Restinga floras. *Molecular Phylogenetics and Evolution*, *110*, 127-133. doi:<https://doi.org/10.1016/j.ympev.2017.03.013>
- Barbaro, E., Spolaor, A., Karroca, O., Park, K.-T., Martma, T., Isaksson, E., . . . Gambaro, A. (2017). Free amino acids in the Arctic snow and ice core samples: Potential markers for paleoclimatic studies. *Science of The Total Environment*, *607-608*, 454-462. doi:<https://doi.org/10.1016/j.scitotenv.2017.07.041>
- Baruah, G., Molau, U., Bai, Y., & Alatalo, J. M. (2017). Community and species-specific responses of plant traits to 23 years of experimental warming across subarctic tundra plant communities. *Scientific Reports*, *7*(1), 2571. doi:10.1038/s41598-017-02595-2
- Björklund, J., Seftigen, K., Schweingruber, F., Fonti, P., von Arx, G., Bryukhanova, M. V., . . . Frank, D. C. (2017). Cell size and wall dimensions drive distinct variability of earlywood and latewood density in Northern Hemisphere conifers. *New phytologist*, *216*(3), 728-740. doi:doi:10.1111/nph.14639
- Braun, S., Achermann, B., De Marco, A., Pleijel, H., Karlsson, P. E., Rihm, B., . . . Paoletti, E. (2017). Epidemiological analysis of ozone and nitrogen impacts on vegetation – Critical evaluation and recommendations. *Science of The Total Environment*, *603-604*, 785-792. doi:<https://doi.org/10.1016/j.scitotenv.2017.02.225>
- Broberg, M. C., Högy, P., & Pleijel, H. (2017). CO<sub>2</sub>-Induced Changes in Wheat Grain Composition: Meta-Analysis and Response Functions. *Agronomy*, *7*(2), 32.
- Broberg, M. C., Uddling, J., Mills, G., & Pleijel, H. (2017). Fertilizer efficiency in wheat is reduced by ozone pollution. *Science of The Total Environment*, *607-608*, 876-880. doi:<https://doi.org/10.1016/j.scitotenv.2017.07.069>
- Choma, M., Rappe-George, M. O., Bárta, J., Čapek, P., Kaštovská, E., Gärdenäs, A. I., & Šantrůčková, H. (2017). Recovery of the ectomycorrhizal community after termination of long-term nitrogen fertilisation of a boreal Norway spruce forest. *Fungal Ecology*, *29*, 116-122. doi:<https://doi.org/10.1016/j.funeco.2016.10.002>
- Condamine, F. L., Leslie, A. B., & Antonelli, A. (2017). Ancient islands acted as refugia and pumps for conifer diversity. *Cladistics*, *33*(1), 69-92. doi:doi:10.1111/cla.12155
- Consortium, P. A. k., Emile-Geay, J., McKay, N. P., Kaufman, D. S., von Gunten, L., Wang, J., . . . Zinke, J. (2017). A global multiproxy database for temperature reconstructions of the Common Era. *Scientific Data*, *4*, 170088. doi:10.1038/sdata.2017.88

- Consortium, P. H. k. (2017). Comparing proxy and model estimates of hydroclimate variability and change over the Common Era. *Clim. Past*, 13(12), 1851-1900. doi:10.5194/cp-13-1851-2017
- Coria, J., & Mohlin, K. (2017). On Refunding of Emission Taxes and Technology Diffusion. *Strategic Behavior and the Environment*, 6(3), 205-248. doi:10.1561/102.00000068
- Coria, J., & Zhang, X.-B. (2017). Optimal environmental road pricing and daily commuting patterns. *Transportation Research Part B: Methodological*, 105, 297-314. doi:<https://doi.org/10.1016/j.trb.2017.09.016>
- Crous, K. Y., af Ekenstam, A., Wallin, G., Uddling, J., & Atkin, O. K. (2017). Acclimation of light and dark respiration to experimental and seasonal warming are mediated by changes in leaf nitrogen in Eucalyptus globulus. *Tree Physiology*, 37(8), 1069-1083. doi:10.1093/treephys/tpx052 %J Tree Physiology
- Daebeler, A., Bodelier, P. L. E., Hefting, M. M., Rütting, T., Jia, Z., & Laanbroek, H. J. (2017). Soil warming and fertilization altered rates of nitrogen transformation processes and selected for adapted ammonia-oxidizing archaea in sub-arctic grassland soil. *Soil Biology and Biochemistry*, 107, 114-124. doi:<https://doi.org/10.1016/j.soilbio.2016.12.013>
- Fang, K., Guo, Z., Chen, D., Linderholm, H. W., Li, J., Zhou, F., . . . Li, Y. J. C. D. (2017). Drought variation of western Chinese Loess Plateau since 1568 and its linkages with droughts in western North America. *Climate Dynamics*, 49(11), 3839-3850. doi:10.1007/s00382-017-3545-9
- Fernández-Fernández, M., Rütting, T., & González-Prieto, S. (2017). Effects of a high-severity wildfire and post-fire straw mulching on gross nitrogen dynamics in Mediterranean shrubland soil. *Geoderma*, 305, 328-335. doi:<https://doi.org/10.1016/j.geoderma.2017.06.023>
- Galán, C., Ariatti, A., Bonini, M., Clot, B., Crouzy, B., Dahl, A., . . . Sofiev, M. J. A. (2017). Recommended terminology for aerobiological studies. *Aerobiologia*, 33(3), 293-295. doi:10.1007/s10453-017-9496-0
- Gao, Y. & Chen, D. (2017). Modeling of Regional Climate over the Tibetan Plateau. Oxford Research Encyclopedia of Climate Science.
- Gao, Y., Xiao, L., Chen, D., Chen, F., Xu, J., & Xu, Y. J. C. D. (2017). Quantification of the relative role of land-surface processes and large-scale forcing in dynamic downscaling over the Tibetan Plateau. *Climate Dynamics*, 48(5), 1705-1721. doi:10.1007/s00382-016-3168-6
- Gou, P., Ye, Q., Che, T., Feng, Q., Ding, B., Lin, C., & Zong, J. (2017). Lake ice phenology of Nam Co, Central Tibetan Plateau, China, derived from multiple MODIS data products. *Journal of Great Lakes Research*, 43(6), 989-998. doi:<https://doi.org/10.1016/j.jglr.2017.08.011>
- Grundström, M., Dahl, Å., Ou, T., Chen, D., & Pleijel, H. J. A. (2017). The relationship between birch pollen, air pollution and weather types and their effect on antihistamine purchase in two Swedish cities. *Aerobiologia*, 33(4), 457-471. doi:10.1007/s10453-017-9478-2
- Gärdenäs, A. I., Berglund, S. L., Bengtsson, S. B., & Rosén, K. (2017). The grain storage of wet-deposited caesium and strontium by spring wheat — A modelling study based on a field experiment. *Science of The Total Environment*, 574, 1313-1325. doi:<https://doi.org/10.1016/j.scitotenv.2016.08.036>
- Hasper, T. B., Dusenge, M. E., Breuer, F., Uwizeye, F. K., Wallin, G., & Uddling, J. J. O. (2017). Stomatal CO2 responsiveness and photosynthetic capacity of tropical woody species in relation to taxonomy and functional traits. *Oecologia*, 184(1), 43-57. doi:10.1007/s00442-017-3829-0
- Hassen, S., & Köhlin, G. (2017). Does purchase price matter for the waiting time to start using energy efficient technologies: Experimental evidence from rural Ethiopia? *Energy Economics*, 68, 133-140. doi:<https://doi.org/10.1016/j.eneco.2017.09.021>
- Holmstrup, M., Damgaard, C., Schmidt, I. K., Arndal, M. F., Beier, C., Mikkelsen, T. N., . . . Christensen, S. (2017). Long-term and realistic global change manipulations had low impact on diversity of soil biota in temperate heathland. *Scientific Reports*, 7, 41388. doi:10.1038/srep41388

- Howard, P. H., Sterner, T. J. E., & Economics, R. (2017). Few and Not So Far Between: A Meta-analysis of Climate Damage Estimates. *Environmental and Resource Economics*, 68(1), 197-225. doi:10.1007/s10640-017-0166-z
- Irannezhad, M., Chen, D., Kløve, B., & Moradkhani, H. (2017). Analysing the variability and trends of precipitation extremes in Finland and their connection to atmospheric circulation patterns. *Int. J. Climatol.*, 37(S1), 1053-1066. doi:doi:10.1002/joc.5059
- Irannezhad, M., Ronkanen, A.-K., Kiani, S., Chen, D., & Kløve, B. (2017). Long-term variability and trends in annual snowfall/total precipitation ratio in Finland and the role of atmospheric circulation patterns. *Cold Regions Science and Technology*, 143, 23-31. doi:https://doi.org/10.1016/j.coldregions.2017.08.008
- Jaramillo, C., Montes, C., Cardona, A., Silvestro, D., Antonelli, A., & Bacon, C. D. (2017). Comment (1) on "Formation of the Isthmus of Panama" by O'Dea et al. *Ecology*, 3(6), e1602321. doi:10.1126/sciadv.1602321 %J Science Advances
- Karlsson, P. E., Klingberg, J., Engardt, M., Andersson, C., Langner, J., Karlsson, G. P., & Pleijel, H. (2017). Past, present and future concentrations of ground-level ozone and potential impacts on ecosystems and human health in northern Europe. *Science of The Total Environment*, 576, 22-35. doi:https://doi.org/10.1016/j.scitotenv.2016.10.061
- Klingberg, J., Broberg, M., Strandberg, B., Thorsson, P., & Pleijel, H. (2017). Influence of urban vegetation on air pollution and noise exposure – A case study in Gothenburg, Sweden. *Science of The Total Environment*, 599-600, 1728-1739. doi:https://doi.org/10.1016/j.scitotenv.2017.05.051
- Klingberg, J., Konarska, J., Lindberg, F., Johansson, L., & Thorsson, S. (2017). Mapping leaf area of urban greenery using aerial LiDAR and ground-based measurements in Gothenburg, Sweden. *Urban Forestry & Urban Greening*, 26, 31-40. doi:https://doi.org/10.1016/j.ufug.2017.05.011
- Lehsten, V., Wiik, L., Hannukkala, A., Andreasson, E., Chen, D., Ou, T., . . . Grenville-Briggs, L. (2017). Earlier occurrence and increased explanatory power of climate for the first incidence of potato late blight caused by *Phytophthora infestans* in Fennoscandia. *PLOS ONE*, 12(5), e0177580. doi:10.1371/journal.pone.0177580
- Lehtonen, S., Silvestro, D., Karger, D. N., Scotese, C., Tuomisto, H., Kessler, M., . . . Antonelli, A. (2017). Environmentally driven extinction and opportunistic origination explain fern diversification patterns. *Scientific Reports*, 7(1), 4831. doi:10.1038/s41598-017-05263-7
- Li, D., Fang, K., Li, Y., Chen, D., Liu, X., Dong, Z., . . . Li, Y. (2017). Climate, intrinsic water-use efficiency and tree growth over the past 150 years in humid subtropical China. *PLOS ONE*, 12(2), e0172045. doi:10.1371/journal.pone.0172045
- Li, X., Wang, L., Guo, X., & Chen, D. (2017). Does summer precipitation trend over and around the Tibetan Plateau depend on elevation? *Int. J. Climatol.*, 37(S1), 1278-1284. doi:doi:10.1002/joc.4978
- Liu, J., Pan, T., Chen, D., Zhou, X., Yu, Q., Flerchinger, G. N., . . . Shen, Y. (2017). An Improved Ångström-Type Model for Estimating Solar Radiation over the Tibetan Plateau. *Energies*, 10(7), 892.
- Liu, Y., Cobb, K. M., Song, H., Li, Q., Li, C.-Y., Nakatsuka, T., . . . Linderholm, H. W. (2017). Recent enhancement of central Pacific El Niño variability relative to last eight centuries. *Nature Communications*, 8, 15386. doi:10.1038/ncomms15386
- Maldonado, C., Barnes, C. J., Cornett, C., Holmfred, E., Hansen, S. H., Persson, C., . . . Rønsted, N. (2017). Phylogeny Predicts the Quantity of Antimalarial Alkaloids within the Iconic Yellow Cinchona Bark (Rubiaceae: *Cinchona calisaya*). *Frontiers in Plant Science*, 8(391). doi:10.3389/fpls.2017.00391
- Meckling, J., Sterner, T., & Wagner, G. (2017). Policy sequencing toward decarbonization. *Nature Energy*, 2(12), 918-922. doi:10.1038/s41560-017-0025-8

- Natchimuthu, S., Sundgren, I., Gålfalk, M., Klemedtsson, L., & Bastviken, D. (2017). Spatiotemporal variability of lake pCO<sub>2</sub> and CO<sub>2</sub> fluxes in a hemiboreal catchment. *JGR Biogeosciences*, *122*(1), 30-49. doi:doi:10.1002/2016JG003449
- Natchimuthu, S., Wallin, M. B., Klemedtsson, L., & Bastviken, D. (2017). Spatio-temporal patterns of stream methane and carbon dioxide emissions in a hemiboreal catchment in Southwest Sweden. *Scientific Reports*, *7*, 39729. doi:10.1038/srep39729
- Nieto-Blázquez, M. E., Antonelli, A., & Roncal, J. (2017). Historical Biogeography of endemic seed plant genera in the Caribbean: Did GAARlandia play a role? *Ecology and Evolution*, *7*(23), 10158-10174. doi:doi:10.1002/ece3.3521
- Nordén, A., Coria, J., Jönsson, A. M., Lagergren, F., & Lehsten, V. (2017). Divergence in stakeholders' preferences: Evidence from a choice experiment on forest landscapes preferences in Sweden. *Ecological Economics*, *132*, 179-195. doi:<https://doi.org/10.1016/j.ecolecon.2016.09.032>
- Nyirambangutse, B., Zibera, E., Uwizeye, F. K., Nsabimana, D., Bizuru, E., Pleijel, H., . . . Wallin, G. (2017). Carbon stocks and dynamics at different successional stages in an Afrotropical forest. *Biogeosciences*, *14*(5), 1285-1303. doi:10.5194/bg-14-1285-2017
- Oxelman, B., Bacon, C. D., Vos, K., Nilsson, R. H., Scharn, R., Antonelli, A., . . . Töpel, M. (2017). Toward a Self-Updating Platform for Estimating Rates of Speciation and Migration, Ages, and Relationships of Taxa. *Systematic Biology*, *66*(2), 152-166. doi:10.1093/sysbio/syw066 %J Systematic Biology
- Pérez-Escobar, O. A., Chomicki, G., Condamine, F. L., Karremans, A. P., Bogarín, D., Matzke, N. J., . . . Antonelli, A. (2017). Recent origin and rapid speciation of Neotropical orchids in the world's richest plant biodiversity hotspot. *New Phytologist*, *215*(2), 891-905. doi:doi:10.1111/nph.14629
- Prevéy, J., Vellend, M., Rüger, N., Hollister, R. D., Bjorkman, A. D., Myers-Smith, I. H., . . . Rixen, C. (2017). Greater temperature sensitivity of plant phenology at colder sites: implications for convergence across northern latitudes. *Global Change Biology*, *23*(7), 2660-2671. doi:doi:10.1111/gcb.13619
- Rappe-George, M. O., Choma, M., Čapek, P., Börjesson, G., Kaštovská, E., Šantrůčková, H., & Gärdenäs, A. I. (2017). Indications that long-term nitrogen loading limits carbon resources for soil microbes. *Soil Biology and Biochemistry*, *115*, 310-321. doi:<https://doi.org/10.1016/j.soilbio.2017.07.015>
- Rappe George, M. O., Hansson, L. J., Ring, E., Jansson, P. E., & Gärdenäs, A. I. (2017). Nitrogen leaching following clear-cutting and soil scarification at a Scots pine site – A modelling study of a fertilization experiment. *Forest Ecology and Management*, *385*, 281-294. doi:<https://doi.org/10.1016/j.foreco.2016.11.006>
- Revesz, R., Greenstone, M., Hanemann, M., Livermore, M., Sterner, T., Grab, D., . . . Schwartz, J. (2017). Best cost estimate of greenhouse gases. *Science*, *357*(6352), 655-655.
- Revesz, R. L., Schwartz, J. A., Howard, P. H., Arrow, K., Livermore, M. A., Oppenheimer, M., & Sterner, T. (2017). Letter—The Social Cost of Carbon: A Global Imperative. *Review of Environmental Economics and Policy*, *11*(1), 172-173. doi:10.1093/reep/rew022 %J Review of Environmental Economics and Policy
- Ritter, C. D., McCrate, G., Nilsson, R. H., Fearnside, P. M., Palme, U., & Antonelli, A. (2017). Environmental impact assessment in Brazilian Amazonia: Challenges and prospects to assess biodiversity. *Biological Conservation*, *206*, 161-168. doi:<https://doi.org/10.1016/j.biocon.2016.12.031>
- Robalino, J., Pfaff, A., & Villalobos, L. (2017). Heterogeneous Local Spillovers from Protected Areas in Costa Rica. *JAERE*, *4*(3), 795-820. doi:10.1086/692089
- Rydval, M., Loader, N. J., Gunnarson, B. E., Druckenbrod, D. L., Linderholm, H. W., Moreton, S. G., . . . Wilson, R. J. C. D. (2017). Reconstructing 800 years of summer temperatures in Scotland from tree rings. *Climate Dynamics*, *49*(9), 2951-2974. doi:10.1007/s00382-016-3478-8

- Rütting, T. (2017). Nitrogen mineralization, not N<sub>2</sub> fixation, alleviates progressive nitrogen limitation – Comment on “Processes regulating progressive nitrogen limitation under elevated carbon dioxide: a meta-analysis” by Liang et al. (2016). *Biogeosciences*, 14(4), 751-754. doi:10.5194/bg-14-751-2017
- Seftigen, K., Goosse, H., Klein, F., & Chen, D. (2017). Hydroclimate variability in Scandinavia over the last millennium – insights from a climate model–proxy data comparison. *Clim. Past*, 13(12), 1831-1850. doi:10.5194/cp-13-1831-2017
- Seim, A., Schultz, J. A., Leland, C., Davi, N., Byambasuren, O., Liang, E., . . . Pederson, N. J. C. D. (2017). Synoptic-scale circulation patterns during summer derived from tree rings in mid-latitude Asia. *Climate Dynamics*, 49(5), 1917-1931. doi:10.1007/s00382-016-3426-7
- Shi, P., Bai, X., Kong, F., Fang, J., Gong, D., Zhou, T., . . . Chen, D. J. L. E. (2017). Urbanization and air quality as major drivers of altered spatiotemporal patterns of heavy rainfall in China. *landscape ecology*, 32(8), 1723-1738. doi:10.1007/s10980-017-0538-3
- Strömngren, M., Nohrstedt, H.-Ö., Johansson, M.-B., & Gärdenäs, A. I. (2017). Indications that site preparation increases forest ecosystem carbon stocks in the long term AU - Mjöfors, Kristina. *Scandinavian Journal of Forest Research*, 32(8), 717-725. doi:10.1080/02827581.2017.1293152
- Tang, W., Yang, K., Qin, J., Niu, X., Lin, C., & Jing, X. (2017). A revisit to decadal change of aerosol optical depth and its impact on global radiation over China. *Atmospheric Environment*, 150, 106-115. doi:<https://doi.org/10.1016/j.atmosenv.2016.11.043>
- Teklewold, H., Mekonnen, A., Kohlin, G., & Falco, S. D. (2017). Does adoption of multiple climate-smart practices improve farmers’ climate resilience? Empirical evidence from the Nile basin of Ethiopia. *Climate Change Economics*, 08(01), 1750001. doi:10.1142/s2010007817500014
- Vowles, T., Gunnarsson, B., Molau, U., Hickler, T., Klemetsson, L., & Björk, R. G. (2017). Expansion of deciduous tall shrubs but not evergreen dwarf shrubs inhibited by reindeer in Scandes mountain range. *Journal of Ecology*, 105(6), 1547-1561. doi:doi:10.1111/1365-2745.12753
- Vowles, T., Lovehø, C., Molau, U., & Björk, R. G. (2017). Contrasting impacts of reindeer grazing in two tundra grasslands. *Environmental Research Letters*, 12(3), 034018. doi:10.1088/1748-9326/aa62af
- Wang, L., Zhou, J., Qi, J., Sun, L., Yang, K., Tian, L., . . . Lu, H. (2017). Development of a land surface model with coupled snow and frozen soil physics. *Water Resources Research*, 53(6), 5085-5103. doi:doi:10.1002/2017WR020451
- Wang, Y., Yang, K., Pan, Z., Qin, J., Chen, D., Lin, C., . . . Wu, H. (2017). Evaluation of Precipitable Water Vapor from Four Satellite Products and Four Reanalysis Datasets against GPS Measurements on the Southern Tibetan Plateau. *Journal of Climate*, 30(15), 5699-5713. doi:10.1175/jcli-d-16-0630.1
- Wild, B., Alaei, S., Bengtson, P., Bodé, S., Boeckx, P., Schnecker, J., . . . Rütting, T. J. B. (2017). Short-term carbon input increases microbial nitrogen demand, but not microbial nitrogen mining, in a set of boreal forest soils. *Biogeochemistry*, 136(3), 261-278. doi:10.1007/s10533-017-0391-0
- Wilson, R., Wilson, D., Rydval, M., Crone, A., Büntgen, U., Clark, S., . . . Mills, C. (2017). Facilitating tree-ring dating of historic conifer timbers using Blue Intensity. *Journal of Archaeological Science*, 78, 99-111. doi:<https://doi.org/10.1016/j.jas.2016.11.011>
- Wu, J., Gao, X., Giorgi, F., & Chen, D. (2017). Changes of effective temperature and cold/hot days in late decades over China based on a high resolution gridded observation dataset. *Int. J. Climatol.*, 37(S1), 788-800. doi:doi:10.1002/joc.5038
- Xu, J., Gao, Y., Chen, D., Xiao, L., & Ou, T. (2017). Evaluation of global climate models for downscaling applications centred over the Tibetan Plateau. *Int. J. Climatol.*, 37(2), 657-671. doi:doi:10.1002/joc.4731
- Zhang, C., Tang, Q., & Chen, D. (2017). Recent Changes in the Moisture Source of Precipitation over the Tibetan Plateau. *Journal of Climate*, 30(5), 1807-1819. doi:10.1175/jcli-d-15-0842.1

- Zhang, C., Tang, Q., Chen, D., Li, L., Liu, X., & Cui, H. (2017). Tracing changes in atmospheric moisture supply to the drying Southwest China. *Atmos. Chem. Phys.*, 17(17), 10383-10393. doi:10.5194/acp-17-10383-2017
- Zhang, G., Yao, T., Piao, S., Bolch, T., Xie, H., Chen, D., . . . Zhang, H. (2017). Extensive and drastically different alpine lake changes on Asia's high plateaus during the past four decades. *Geophys. Res. Lett.*, 44(1), 252-260. doi:doi:10.1002/2016GL072033
- Zhang, P., Ionita, M., Lohmann, G., Chen, D., & Linderholm, H. W. J. C. D. (2017). Can tree-ring density data reflect summer temperature extremes and associated circulation patterns over Fennoscandia? , *Climate Dynamics*. 49(7), 2721-2736. doi:10.1007/s00382-016-3452-5

### **Peer-reviewed conference papers**

- Rütting, T., Figueiredo, V. & Prast, A.E. (2017). Geographical variation in gross nitrogen mineralization in Amazonian forest soils. *Biogeomon 2017. 9th International Symposium on Ecosystem Behavior August 20-24, 2017 Litomyšl Chateau, Czech Republic.*

### **Other scientific publications (books, theses etc)**

- Abraham, N., Bothe, O., Linderholm, H.W., Martrat, B., McGregor, H., Neukom, R., Phipps, S. St George, S. & von Gunten, L. (2017). The third phase of the PAGES 2k network. *Past Global Changes Magazine*, 25, 71-74.
- Antonelli, A. (2017). Sensual Women, Lush Wetlands and Cool Caimans, *ReVista – Harvard Review of Latin America*.
- Antonelli, A. and Källersjö, M. (2017). A new biodiversity centre in western Sweden. *Biodiverse*, 2: 8–11.
- Antonelli, A. & Perrigo, A.L. (2017, December). We must protect biodiversity. *Washington Post*.
- Galán, C., Dahl, Å., Frenguelli, G. & Gehrig, R. (2017). Airborne pollen In Europe. In: A.B. Singh (Ed.) *Allergy and Allergen Immunotherapy. New Mechanisms and Strategies*. 127-162. Oakville: Apple Academic Press.
- Karlsson, P.E., Sjöberg, K., Helbig, T., Pleijel, H. & Klingberg, J. (2017). Marknära ozon och partiklar, på landet och i stan. *Luft & Miljö*, Bromma, Naturvårdsverket, 29-33.
- Linderholm, H.W. & Folland, C.K. (2017). Summer North Atlantic Oscillation (SNAO) variability on decadal to palaeoclimate time scales. *CLIVAR Exchanges*, 72, 57-60.
- Karlsson Pihl, G., Danielsson, H., Karlsson, P.E. & Pleijel, H. (2017). *Ozonmät nätet i södra Sverige. Marknära ozon i bakgrundsmiljö i södra Sverige – med beaktande av variationen i landskapet*. IVL Svenska Miljöinstitutet Report. Stockholm: IVL.
- Pleijel, H. & Klingberg, J. (2017). Grönskande tätorter minskar barns exponering för luftföroreningar, *Luft & Miljö*, Bromma, Naturvårdsverket, 51-52.
- Rønsted, N., Antonelli, A., Maldonado, C. & Honoré Hansen, S. (2017). Jagten på Kinabarken til behandling av malaria. *Aktuel Naturvidenskab*, 32-36.
- Slunge, D. (2017). *Essays in Environmental Management and Economics: Public Health, Risk and Strategic Environmental Assessment*. Doctoral thesis, University of Gothenburg, Gothenburg, Sweden.
- Slunge, D., Drakenberg, o., Ekbo, A., Göthberg, M., Knaggård, Å. & Sahlin, U. (2017). *Stakeholder Interaction in Research Processes - A Guide for Researchers and Research Groups*. Göteborgs Miljövetenskapliga Centrum. Gothenburg: University of Gothenburg.
- Sterner, T. (2017). Impuestos medioambientales. *Integración & Comercio*, 42, 36-49.
- Villalobos-Fiatt, L. (2017). *Essays on forest conservation policies, weather and school attendance*. Doctoral thesis, University of Gothenburg, Gothenburg, Sweden.

## 2016 BECC Gothenburg

- Abbott, B. W., Jones, J. B., Schuur, E. A. G., Chapin Iii, F. S., Bowden, W. B., Bret-Harte, M. S., . . . Zimov, S. (2016). Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. *Environmental Research Letters*, *11*(3), 034014. doi:10.1088/1748-9326/11/3/034014
- Alatalo, J. M., Jägerbrand, A. K., & Molau, U. (2016). Impacts of different climate change regimes and extreme climatic events on an alpine meadow community. *Scientific Reports*, *6*, 21720. doi:10.1038/srep21720
- Alem, Y., Beyene, A. D., Köhlin, G., & Mekonnen, A. (2016). Modeling household cooking fuel choice: A panel multinomial logit approach. *Energy Economics*, *59*, 129-137. doi:https://doi.org/10.1016/j.eneco.2016.06.025
- Ali, A., Molau, U., Bai, Y., Jägerbrand, A. K., & Alatalo, J. M. (2016). Diversity-productivity dependent resistance of an alpine plant community to different climate change scenarios. *31*(6), 935-945. doi:doi:10.1007/s11284-016-1403-6
- Andresen, L. C., Björnsne, A. K., Bodé, S., Klemmedtsson, L., Boeckx, P., & Rütting, T. (2016). Simultaneous quantification of depolymerization and mineralization rates by a novel 15N tracing model. *SOIL*, *2*(3), 433-442. doi:10.5194/soil-2-433-2016
- Andresen, L. C., Müller, C., de Dato, G., Dukes, J. S., Emmett, B. A., Estiarte, M., . . . Bilton, M. C. (2016). Chapter Nine - Shifting Impacts of Climate Change: Long-Term Patterns of Plant Response to Elevated CO<sub>2</sub>, Drought, and Warming Across Ecosystems. In A. J. Dumbrell, R. L. Kordas, & G. Woodward (Eds.), *Advances in Ecological Research*, *55*, 437-473. Academic Press.
- Azorin-Molina, C., Guijarro, J.-A., McVicar, T. R., Vicente-Serrano, S. M., Chen, D., Jerez, S., & Espírito-Santo, F. (2016). Trends of daily peak wind gusts in Spain and Portugal, 1961–2014. *Journal of Geophysical Research-Atmospheres*, *121*(3), 1059-1078. doi:doi:10.1002/2015JD024485
- Bacon, C. D., Antonelli, A., Vallejo-Pareja, M. C., Molnar, P., Crawford, A. J., & Montes, C. (2016). Quaternary glaciation and the Great American Biotic Interchange. *Geology*, *44*(5), 375-378. doi:10.1130/G37624.1 %J Geology
- Bacon, C. D., Look, S. L., Gutiérrez-Pinto, N., Antonelli, A., Tan, H. T. W., Kumar, P. P., . . . Baker, W. J. (2016). Species limits, geographical distribution and genetic diversity in *Johannesteijsmannia* (Arecaceae). *Botanical Journal of the Linnean Society*, *182*(2), 318-347. doi:10.1111/boj.12470 %J Botanical Journal of the Linnean Society
- Baets, K. D., Antonelli, A., & Donoghue, P. C. J. (2016). Tectonic blocks and molecular clocks. *Philosophical Transactions of the Royal Society B-Biological Sciences*, *371*(1699), 20160098. doi:doi:10.1098/rstb.2016.0098
- Barnes, C. J., Maldonado, C., Frøslev, T. G., Antonelli, A., & Rønsted, N. (2016). Unexpectedly High Beta-Diversity of Root-Associated Fungal Communities in the Bolivian Andes. *7*(1377). doi:10.3389/fmicb.2016.01377
- Budiman, A., Greve, M. H., Grønlund, A., Kasimir, Å., Lehtonen, H., Petersen, S. O., . . . Wösten, H. (2016). GHG mitigation of agricultural peatlands requires coherent policies AU - Regina, Kristiina. *Climate Policy*, *16*(4), 522-541. doi:10.1080/14693062.2015.1022854
- Chen, D., & Kløve, B. (2016). The role of atmospheric circulation patterns in agroclimate variability in finland, 1961–2011 AU - Irannezhad, Masoud. *Geografiska Annaler: Series A, Physical Geography*, *98*(4), 287-301. doi:10.1111/geoa.12137
- Chen, D., Tian, Y., Yao, T., & Ou, T. (2016). Satellite measurements reveal strong anisotropy in spatial coherence of climate variations over the Tibet Plateau. *Scientific Reports*, *6*, 30304. doi:10.1038/srep30304
- Chen, F., Yuan, Y., Zhang, T., & Linderholm, H. W. J. N. H. (2016). Annual precipitation variation for the southern edge of the Gobi Desert (China) inferred from tree rings: linkages to climatic



- warming of twentieth century. *Natural Hazards*, 81(2), 939-955. doi:10.1007/s11069-015-2113-z
- De Kauwe, M. G., Lin, Y.-S., Wright, I. J., Medlyn, B. E., Crous, K. Y., Ellsworth, D. S., . . . Domingues, T. F. (2016). A test of the 'one-point method' for estimating maximum carboxylation capacity from field-measured, light-saturated photosynthesis. *New Phytologist*, 210(3), 1130-1144. doi:doi:10.1111/nph.13815
- Dufwenberg, M., Köhlin, G., Martinsson, P., & Medhin, H. (2016). Thanks but no thanks: A new policy to reduce land conflict. *Journal of Environmental Economics and Management*, 77, 31-50. doi:https://doi.org/10.1016/j.jeem.2015.12.005
- Edvardsson, J., Adolphi, F., Linderholm, H. W., Corona, C., Muscheler, R., & Stoffel, M. (2016). Periodicities in mid- to late-Holocene peatland hydrology identified from Swedish and Lithuanian tree-ring data. *Quaternary Science Reviews*, 137, 200-208. doi:https://doi.org/10.1016/j.quascirev.2016.02.020
- Fan, L., & Chen, D. (2016). Trends in extreme precipitation indices across China detected using quantile regression. *Atmospheric Science Letters*, 17(7), 400-406. doi:doi:10.1002/asl.671
- Farahat, E. A., Linderholm, H. W., & Lechowicz, M. J. J. E. J. o. F. R. (2016). Influence of dust deposition and climate on the radial growth of *Tsuga canadensis* near its northern range limit. *European Journal of Forest Research*, 135(1), 69-76. doi:10.1007/s10342-015-0917-8
- Feng, Z., Wang, L., Pleijel, H., Zhu, J., & Kobayashi, K. (2016). Differential effects of ozone on photosynthesis of winter wheat among cultivars depend on antioxidative enzymes rather than stomatal conductance. *Science of The Total Environment*, 572, 404-411. doi:https://doi.org/10.1016/j.scitotenv.2016.08.083
- Figueiredo, V., Enrich-Prast, A., & Rütting, T. (2016). Soil organic matter content controls gross nitrogen dynamics and N<sub>2</sub>O production in riparian and upland boreal soil. *European Journal of Soil Science*, 67(6), 782-791. doi:doi:10.1111/ejss.12384
- Gao, F., Li, P., Feng, Z., Calatayud, V., & Uddling, J. (2016). Differences in ozone sensitivity among woody species are related to leaf morphology and antioxidant levels. *Tree Physiology*, 36(9), 1105-1116. doi:10.1093/treephys/tpw042 %J Tree Physiology
- Hasper, T. B., Wallin, G., Lamba, S., Hall, M., Jaramillo, F., Laudon, H., . . . Uddling, J. (2016). Water use by Swedish boreal forests in a changing climate. *Functional Ecology*, 30(5), 690-699. doi:doi:10.1111/1365-2435.12546
- He, H., Jansson, P.-E., Svensson, M., Meyer, A., Klemetsson, L., & Kasimir, Å. (2016). Factors controlling Nitrous Oxide emission from a spruce forest ecosystem on drained organic soil, derived using the CoupModel. *Ecological Modelling*, 321, 46-63. doi:https://doi.org/10.1016/j.ecolmodel.2015.10.030
- He, H., Jansson, P. E., Svensson, M., Björklund, J., Tarvainen, L., Klemetsson, L., & Kasimir, Å. (2016). Forests on drained agricultural peatland are potentially large sources of greenhouse gases – insights from a full rotation period simulation. *Biogeosciences*, 13(8), 2305-2318. doi:10.5194/bg-13-2305-2016
- Holz, M., Aurangojeb, M., Kasimir, Å., Boeckx, P., Kuzyakov, Y., Klemetsson, L., & Rütting, T. J. E. (2016). Gross Nitrogen Dynamics in the Mycorrhizosphere of an Organic Forest Soil. *Ecosystems*, 19(2), 284-295. doi:10.1007/s10021-015-9931-4
- Ianniello, A., Spataro, F., Salvatori, R., Valt, M., Nardino, M., Björkman, M. P., . . . Montagnoli, M. J. R. L. (2016). Air-snow exchange of reactive nitrogen species at Ny-Ålesund, Svalbard (Arctic). *Rendiconti Lincei-Scienze Fisiche E Naturali*, 27(1), 33-45. doi:10.1007/s12210-016-0536-4
- Irannezhad, M., Marttila, H., Chen, D., & Kløve, B. (2016). Century-long variability and trends in daily precipitation characteristics at three Finnish stations. *Advances in Climate Change Research*, 7(1), 54-69. doi:https://doi.org/10.1016/j.accre.2016.04.004
- Jaime, M. M., Coria, J., & Liu, X. (2016). Interactions between CAP Agricultural and Agri-Environmental Subsidies and Their Effects on the Uptake of Organic Farming. *American*

- Journal of Agricultural Economics*, 98(4), 1114-1145. doi:10.1093/ajae/aaw015 %J American Journal of Agricultural Economics
- Jansen-Willems, A. B., Lanigan, G. J., Clough, T. J., Andresen, L. C., & Müller, C. (2016). Long-term elevation of temperature affects organic N turnover and associated N<sub>2</sub>O emissions in a permanent grassland soil. *SOIL*, 2(4), 601-614. doi:10.5194/soil-2-601-2016
- Konarska, J., Uddling, J., Holmer, B., Lutz, M., Lindberg, F., Pleijel, H., & Thorsson, S. J. I. J. o. B. (2016). Transpiration of urban trees and its cooling effect in a high latitude city. *International journal of biometeorology*, 60(1), 159-172. doi:10.1007/s00484-015-1014-x
- Koutsouris, A. J., Chen, D., & Lyon, S. W. (2016). Comparing global precipitation data sets in eastern Africa: a case study of Kilombero Valley, Tanzania. *International Journal of Climatology*, 36(4), 2000-2014. doi:doi:10.1002/joc.4476
- Lagomarsino, L. P., Condamine, F. L., Antonelli, A., Mulch, A., & Davis, C. C. (2016). The abiotic and biotic drivers of rapid diversification in Andean bellflowers (Campanulaceae). *New Phytologist*, 210(4), 1430-1442. doi:doi:10.1111/nph.13920
- Liu, W., Wang, L., Chen, D., Tu, K., Ruan, C., & Hu, Z. J. C. D. (2016). Large-scale circulation classification and its links to observed precipitation in the eastern and central Tibetan Plateau. *Climate Dynamics*, 46(11), 3481-3497. doi:10.1007/s00382-015-2782-z
- Lockhart, E., Wild, B., Richter, A., Simonin, K., & Merchant, A. (2016). Stress-induced changes in carbon allocation among metabolite pools influence isotope-based predictions of water use efficiency in *Phaseolus vulgaris* *J Functional Plant Biology*, 43(12), 1149-1158. doi:https://doi.org/10.1071/FP16022
- Mark, A. F., Molau, U., Whigham, P., Little, L., & Nielsen, J. (2016). Periglacial tarn on the Rock and Pillar Range crest, south-central South Island, New Zealand, and its surrounding snowbank community. *Austral ecology*, 41(3), 282-290. doi:doi:10.1111/aec.12310
- Mattsson, E., Ostwald, M., Wallin, G., & Nissanka, S. P. (2016). Heterogeneity and assessment uncertainties in forest characteristics and biomass carbon stocks: Important considerations for climate mitigation policies. *Land Use Policy*, 59, 84-94. doi:https://doi.org/10.1016/j.landusepol.2016.08.026
- Mekkerdchoo, O., Borompichaichartkul, C., Perrigo, A., Srzednicki, G., Prakitchaiwattana, C., & Antonelli, A. (2016). Tracing the Evolution and Economic Potential of Konjac Glucomannan in *Amorphophallus* species ( Araceae ) using Molecular Phylogeny and RAPD Markers. *Phytotaxa*, 282(2), 26. doi:10.11646/phytotaxa.282.2.1
- Minola, L., Azorin-Molina, C., & Chen, D. (2016). Homogenization and Assessment of Observed Near-Surface Wind Speed Trends across Sweden, 1956–2013. *Journal of Climate*, 29(20), 7397-7415. doi:10.1175/jcli-d-15-0636.1
- Natchimuthu, S., Sundgren, I., Gålfalk, M., Klemetsson, L., Crill, P., Danielsson, Å., & Bastviken, D. (2016). Spatio-temporal variability of lake CH<sub>4</sub> fluxes and its influence on annual whole lake emission estimates. *Limnology and Oceanography*, 61(S1), S13-S26. doi:doi:10.1002/lno.10222
- Pettersson, J. B., Boman, J., Pathak, R. K., Hallquist, M., Thynell, M., Hallquist, Å. M., . . . Pleijel, H. (2016). Photochemical smog in China: scientific challenges and implications for air-quality policies. *National Science Review*, 3(4), 401-403. doi:10.1093/nsr/nww080 %J National Science Review
- Pleijel, H., Grundström, M., Karlsson, G. P., Karlsson, P. E., & Chen, D. (2016). A method to assess the inter-annual weather-dependent variability in air pollution concentration and deposition based on weather typing. *Atmospheric Environment*, 126, 200-210. doi:https://doi.org/10.1016/j.atmosenv.2015.11.053
- Podgrajsek, E., Sahlée, E., Bastviken, D., Natchimuthu, S., Kljun, N., Chmiel, H. E., . . . Rutgersson, A. (2016). Methane fluxes from a small boreal lake measured with the eddy covariance method. *Limnology and Oceanography*, 61(S1), S41-S50. doi:doi:10.1002/lno.10245

- Rayner, D., Achberger, C., & Chen, D. (2016). A multi-state weather generator for daily precipitation for the Torne River basin, northern Sweden/western Finland. *Advances in Climate Change Research*, 7(1), 70-81. doi:<https://doi.org/10.1016/j.accre.2016.06.006>
- Rosvall, M., Edler, D., Zizka, A., Guedes, T., & Antonelli, A. (2016). Infomap Bioregions: Interactive Mapping of Biogeographical Regions from Species Distributions. *Systematic Biology*, 66(2), 197-204. doi:10.1093/sysbio/syw087 %J Systematic Biology
- Seim, A., Omurova, G., Azisov, E., Musuraliev, K., Aliev, K., Tulyaganov, T., . . . Linderholm, H. W. (2016). Climate Change Increases Drought Stress of Juniper Trees in the Mountains of Central Asia. *PLOS ONE*, 11(4), e0153888. doi:10.1371/journal.pone.0153888
- Seim, A., Tulyaganov, T., Omurova, G., Nikolyai, L., Botman, E., & Linderholm, H. W. (2016). Dendroclimatological potential of three juniper species from the Turkestan range, northwestern Pamir-Alay Mountains, Uzbekistan. *Trees*, 30(3), 733-748. doi:10.1007/s00468-015-1316-y
- Shi, Y., Gao, X., Xu, Y., Giorgi, F., & Chen, D. (2016). Effects of climate change on heating and cooling degree days and potential energy demand in the household sector of China. *Climate Research*, 67(2), 135-149.
- Sichangi, A. W., Wang, L., Yang, K., Chen, D., Wang, Z., Li, X., . . . Kuria, D. (2016). Estimating continental river basin discharges using multiple remote sensing data sets. *Remote Sensing of Environment*, 179, 36-53. doi:<https://doi.org/10.1016/j.rse.2016.03.019>
- Silvestro, D., Zizka, A., Bacon, C. D., Cascales-Miñana, B., Salamin, N., & Antonelli, A. (2016). Fossil biogeography: a new model to infer dispersal, extinction and sampling from palaeontological data. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 371(1691), 20150225. doi:doi:10.1098/rstb.2015.0225
- Smith, M., Merchant, A., Simonin, K., Wild, B., & Richter, A. (2016). Carbon Isotope Composition of Carbohydrates and Polyols in Leaf and Phloem Sap of *Phaseolus vulgaris* L. Influences Predictions of Plant Water Use Efficiency. *Plant and Cell Physiology*, 57(8), 1756-1766. doi:10.1093/pcp/pcw099 %J Plant and Cell Physiology
- Spolaor, A., Barbaro, E., Christille, J. M., Kirchgeorg, T., Giardi, F., Cappelletti, D., . . . Barbante, C. (2016). Evolution of the Svalbard annual snow layer during the melting phase. *Rendiconti Lincei-Scienze Fisiche E Naturali*, 27(1), 147-154. doi:10.1007/s12210-015-0500-8
- Su, F., Zhang, L., Ou, T., Chen, D., Yao, T., Tong, K., & Qi, Y. (2016). Hydrological response to future climate changes for the major upstream river basins in the Tibetan Plateau. *Global and Planetary Change*, 136, 82-95. doi:<https://doi.org/10.1016/j.gloplacha.2015.10.012>
- Tarvainen, L., Lutz, M., Rantfors, M., Näsholm, T., & Wallin, G. (2016). Increased Needle Nitrogen Contents Did Not Improve Shoot Photosynthetic Performance of Mature Nitrogen-Poor Scots Pine Trees. *Frontiers in Plant Science*, 7(1051). doi:10.3389/fpls.2016.01051
- Töpel, M., Zizka, A., Silvestro, D., Scharn, R., Calió, M. F., & Antonelli, A. (2016). SpeciesGeoCoder: Fast Categorization of Species Occurrences for Analyses of Biodiversity, Biogeography, Ecology, and Evolution. *Systematic Biology*, 66(2), 145-151. doi:10.1093/sysbio/syw064 %J Systematic Biology
- Vowles, T., Molau, U., Lindstein, L., Molau, M., & Björk, R. G. (2016). The impact of shrub browsing by mountain hare and reindeer in subarctic Sweden AU. *Plant Ecology & Diversity*, 9(4), 421-428. doi:10.1080/17550874.2016.1264017
- Wang, L., Li, X., Chen, Y., Yang, K., Chen, D., Zhou, J., . . . Huang, J. (2016). Validation of the global land data assimilation system based on measurements of soil temperature profiles. *Agricultural and Forest Meteorology*, 218-219, 288-297. doi:<https://doi.org/10.1016/j.agrformet.2016.01.003>
- Wang, L., Sun, L., Shrestha, M., Li, X., Liu, W., Zhou, J., . . . Chen, D. (2016). Improving snow process modeling with satellite-based estimation of near-surface-air-temperature lapse rate. *Journal of Geophysical Research - Atmospheres*, 121(20), 12,005-012,030. doi:doi:10.1002/2016JD025506

- Wei, T., Dong, W., Moore, J., Yan, Q., Song, Y., Yang, Z., . . . Chen, D. (2016). Quantitative Estimation of the Climatic Effects of Carbon Transferred by International Trade. *Scientific Reports*, 6, 28046. doi:10.1038/srep28046
- Wild, B., Gentsch, N., Čapek, P., Diáková, K., Alves, R. J. E., Bárta, J., . . . Richter, A. (2016). Plant-derived compounds stimulate the decomposition of organic matter in arctic permafrost soils. *Scientific Reports*, 6, 25607. doi:10.1038/srep25607
- Wilson, R., Anchukaitis, K., Briffa, K. R., Büntgen, U., Cook, E., D'Arrigo, R., . . . Zorita, E. (2016). Last millennium northern hemisphere summer temperatures from tree rings: Part I: The long term context. *Quaternary Science Reviews*, 134, 1-18. doi:https://doi.org/10.1016/j.quascirev.2015.12.005
- Zhang, P., Linderholm, H. W., Gunnarson, B. E., Björklund, J., & Chen, D. (2016). 1200 years of warm-season temperature variability in central Scandinavia inferred from tree-ring density. *Clim. Past*, 12(6), 1297-1312. doi:10.5194/cp-12-1297-2016

### **Peer-reviewed conference papers**

- Fuentes, M., Linderholm, H.W., Seftigen, K., Björklund, J., Gunnarsson, B.E. & Aravena, J. (2016). A comparison between Tree-Ring Width and Blue Intensity high and low frequency signals from *Pinus sylvestris* L. from the Central and Northern Scandinavian Mountains. *TRACE - Tree Rings in Archaeology, Climatology and Ecology*, 14. *Scientific Technical Report 16/04*, GFZ German Research Centre for Geosciences, p. 38-43.
- He, H., Jansson, P-E., Hedenrud, A., Rychlik, S., Weslien, P., Klemedtsson, L. & Kasimir, Å. (2016). Nitrous oxide and nitrate losses – influencing factors in willow cropping investigated by modelling. *19th N workshop*, June 27-29, 2016, Skara, Sweden
- Marshall, J., Tarvainen, L. & Wallin, G. (2016). Radial diffusion, vertical transport, and refixation of labeled bicarbonate in scots pine stems. *AGU Fall meeting, 12-16 December 2016*, San Francisco, California, USA.
- Vowles, T. & Björk, R.G. (2016). Ecosystem responses to reindeer grazing along the Scandinavian mountain range. *Book of Abstracts, Grazing in a Changing Nordic Region*, 12-15 th of September, 2016, Reykjavík, Iceland.

### **Other scientific publications (books, theses etc)**

- Andresen, L. C., Müller, C., de Dato, G., Dukes, J. S., Emmett, B. A., Estiarte, M., . . . Bilton, M. C. (2016). Shifting Impacts of Climate Change: Long-Term Patterns of Plant Response to Elevated CO<sub>2</sub>, Drought, and Warming Across Ecosystems. In A. J. Dumbrell, R. L. Kordas, & G. Woodward (Eds.), *Advances in Ecological Research*, 55, 437-473. Academic Press.
- Antonelli, A. & Perrigo, A.L. (2016). Cities: Factor in their biological impact. *Nature*, 540, 39.
- Bengtsson, K., Brodén, L., Brogren, C., Cederlöf, K., Iverfeldt, Å., Lampa, H., Lautmann, E., Liljelund, L-E., Lundstedt, M., Narvinger, A., Nilsson, B.O., Nordlöf, G., Olofsson, M., Skoglund, J., Sterner, T., et al. (2016). Så kan Sverige bli ledande nation i resurseffektivitet. *Dagens Nyheter*.
- Bergström, T., Norberg, P. & Slunge, D. (2016). Dags att diskutera subventionerad TBE-vaccination. *Läkartidningen*. 113:D6R9.
- Coria, J. & Zhang, X-B. (2016). *Optimal Environmental Road Pricing and Integrated Daily Commuting Patterns*. Working Papers in Economics-Report 682. Gothenburg: University of Gothenburg.
- He, H. (2016). *Land use GHG emissions and mitigation options, simulated by CoupModel*. Doctoral thesis, University of Gothenburg, Gothenburg, Sweden.

- Karlsson Pihl, G., Danielsson, H., Karlsson, P.E. & Pleijel, H. (2016). *Ozonmättnätet i södra Sverige. Marknära ozon i bakgrundsmiljö i södra Sverige – med beaktande av variationen i landskapet*. IVL Svenska Miljöinstitutet Report. Stockholm: IVL.
- Narvinger, A., Stigson, B., Bengtsson, K., Brodén, L., Brogren, C., Cederlöf, K., Iverfeldt, Å., Lampa, H., Lautmann, E., Liljelund, L-E., Lundstadt, M., Nilsson, M.O., Nordlöf, G., Olofsson, M., Skoglund, J., Sterner, T. et al. (2016). *Resurseffektivitet - Policyutveckling mot 2025*. IVA-projektet Resurseffektiva affärsmodeller – stärkt konkurrenskraft-Report. Stockholm: Kungliga Ingenjörvetenskapsakademien (IVA).
- Neuhoff, K., Ismer, R., Acworth, W., Ancygier, A., Fischer, C., Haussner, M., Kangas, H-L., Kim, Y-G., Munnings, C., Owen, A., Pauliuk, S., Sartor, O., Sato, M., Stede, J., Sterner, T. et al. (2016). *Inclusion of Consumption of carbon intensive materials in emissions trading – An option for carbon pricing post-2020*. Climate Strategies Report. London: London School of Economics.
- Nordén, A., Coria, J. & Villalobos, L. (2016). *Evaluation of the Impact of Forest Certification on Environmental Outcomes in Sweden*. Working Papers in Economics-Report 657. Gothenburg: University of Gothenburg.
- Pleijel, H. & Persson, K. (2016). Hedblomster på Laholmsbuktens dyner – utveckling under två decennier. *Svensk Botanisk Tidskrift*, 110 (6), 340-347.
- Rockström, J., Sterner, T., Zetterberg, L. & Wråke, M. (2016). Skatten har trots allt fungerat bra. *Svenska Dagbladet*.
- Slunge, D., Sterner, T. & Backhaus, T. (2016). Farliga kemikalier måste fasas ut snabbare. *Svenska Dagbladet*.
- Sterner, T. (2016). We have the agreement – now we need a carbon tax. *Financial Times*.
- Sterner, T. & Coria, J. (2016). *The economics of environmental policy - Behavioral and political dimensions*. Cheltenham: Edward Elgar Publishing, Cheltenham.
- Sterner, T., Johansson-Stenman, O. & Coria, J. (2016). Att fimpa koldioxidskatten sänder ödesdiger signal. *Göteborgs-Posten*.