

List of scientific papers (peer-reviewed) scrutinized during the preparation of the synthesis

Each article is assigned to at least one item in the three categories below. For some types of studies, e.g. reviews, observational or process studies, no item might be assigned in the third category, specifying the type of model applied.

Subject of study: Atmospheric composition (ATC) – Bioenergy (BIE) – Biogeochemical effects (BGC) – Biophysical effects (BPH) – Carbon cycle (CAC) – Climate change (CLC) – Climate projection (CPR) – Development (DEV) – Forrest management and cover (FMC) – Hydrology (HYD) – Land use and land cover (LUC) – Mitigation (MIT)

Type of study: Model study (MOD) – Observational study (OBS) – Process study (PRO) – Review (REV) – Scenarios (SCE) – Swedish context (SWE)

Type of model: Global climate model (GCL) – Global earth system model (GES) – Integrated assessment model (IAS) – Integrated global earth system model (IGE) – Integrated regional earth system (IRE) – Regional climate model (RCL) – Regional earth system model (RES) – Statistical model (STA) – Terrestrial ecosystem model (TES)

CAC / MOD / TES; Ahlström A, et al (2015) The dominant role of semi-arid ecosystems in the trend and variability of the land CO₂ sink. *Science* 348: 895-899. doi: 10.1126/science.aaa1668

CAC / MOD / TES; Ahlström A, Schurgers G, Smith B (2017) The large influence of climate model bias on terrestrial carbon cycle simulations. *Environ Res Lett* 12: 014004. doi: 10.1088/1748-9326/12/1/014004

CLC, LUC / MOD / IAS; Ahmed KZ, Wang G, You L, Yu M (2016) Potential impact of climate and socioeconomic changes on future agricultural land use in West Africa. *Earth Syst Dynam* 7: 151-165. doi: 10.5194/esd-7-151-2016

CLC, LUC / MOD / IRE; Ahmed KZ, Wang G, You L, Anyah R, Zhang C, Burnicki A (2017) Projecting regional climate and cropland changes using a linked biogeophysical-socioeconomic modeling framework: 2. Transient dynamics. *J Adv Model Earth Sy* 9: 377-388. doi: 10.1002/2016MS000721

LUC / MOD, SCE / IAS; Alexander P, et al (2017) Assessing uncertainties in land cover projections. *Glob Change Biol* 23: 767-781. doi: 10.1111/gcb.13447

CLC, LUC / MOD / IAS, TES; Alexander P, et al (2018) Adaptation of global land use and management intensity to changes in climate and atmospheric carbon dioxide. *Glob Change Biol* 24: 2791-2809. doi: 10.1111/gcb.14110

CPR, LUC / MOD / RES; Alexandru A, Sushama L (2016) Impact of land-use and land-cover changes on CRCM5 climate projections over North America for the twenty-first century. *Clim Dyn* 47: 1197-1209. doi: 10.1007/s00382-015-2896-3

BPH, FMC / OBS, PRO; Alkama R, Cescatti A (2016) Biophysical climate impacts of recent changes in global forest cover. *Science* 351: 600-604. doi: 10.1126/science.aac8083

CPR, LUC / MOD / RES; Alo CA, Wang G (2010) Role of dynamic vegetation in regional climate predictions over western Africa. *Clim Dyn* 35: 907-922. doi: 10.1007/s00382-010-0744-z

BPH, FMC, MIT / REV; Anderson RG, et al (2011) Biophysical considerations in forestry for climate protection. *Front Ecol Environ* 3: 174-182. doi: 10.1890/090179

- BGC, BPH, LUC, MIT / PRO**; Anderson-Teixeira KJ, Snyder PK, Twine TE, Cuadra SV, Costa MH, DeLucia EH (2012) Climate-regulation services of natural and agricultural ecoregions of the Americas. *Nat Clim Change* 2: 177-181. doi: 10.1038/NCLIMATE1346
- FMC, HYD / REV**; Andr ssian V (2004) Waters and forests: from historical controversy to scientific debate. *J Hydrol* 291: 1-27. doi: 10.1016/j.jhydrol.2003.12.015
- ATC / MOD / TES**; Arneth A, Miller PA, Scholze M, Hickler T, Schurgers G, Smith B, Prentice IC (2007) CO₂ inhibition of global terrestrial isoprene emissions: Potential implications for atmospheric chemistry. *Geophys Res Lett* 34: L18813. doi: 10.1029/2007GL030615
- ATC, LUC / REV**; Arneth A, Mercado L, Kattge J, Booth BBB (2012) Future challenges of representing land-processes in studies on land-atmosphere interactions. *Biogeosciences* 9: 3587-3599. doi: 10.5194/bg-9-3587-2012
- CAC, LUC / MOD / TES**; Arneth A, et al (2017) Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. *Nat Geosci* 10: 79-84. doi: 10.1038/NGEO2882
- CPR, FMC, MIT / MOD / GES**; Arora V, Montenegro A (2011) Small temperature benefits provided by realistic afforestation efforts. *Nat Geosci* 4: 514-518. doi: 10.1038/NGEO1118
- CAC / MOD / GES**; Arora V, et al (2013) Carbon-concentration and carbon-climate feedbacks in CMIP5 earth system models. *J Clim* 26: 5289-5314. doi: 10.1175/JCLI-D-12-00494.1
- LUC / MOD / GES**; Avila FB, Pitman AJ, Donat MG, Alexander LV, Abramowitz G (2012) Climate model simulated changes in temperature extremes due to land cover changes. *J Geophys Res* 117: D04108. doi: 10.1029/2011JD016382
- CAC, CLC, FMC / MOD / IAS**; Bala G, et al (2007) Combined climate and carbon-cycle effects of large-scale deforestation. *P Natl Acad Sci USA* 104: 6550-6555. doi: 10.1073/pnas.0608998104
- CAC, CLC, FMC / MOD / GES**; Bathiany S, Claussen M, Brovkin V, Raddatz T, Gayler V (2010) Combined biogeophysical and biogeochemical effects of large-scale forest cover changes in the MPI earth system model. *Biogeosciences* 7: 1383-1399. doi: 10.5194/bg-7-1383-2010
- DEV / MOD, SCE / IAS**; Bauer N, et al (2017) Shared Socio-Economic Pathways of the energy sector - Quantifying the narratives. *Glob Environ Change* 42: 316-330. doi: 10.1016/j.gloenvcha.2016.07.006
- CLC, FMC / MOD / RCL**; Belu i  D, Fuentes-Franco R, Strandberg G, Jukimenko A (2019) Afforestation reduces cyclone intensity and precipitation extremes over Europe. *Environ Res Lett* 14: 074009. doi: 10.1088/1748-9326/ab23b2
- DEV / MOD / RCL**; Belu i  D, et al (2020) HCLIM38: a flexible regional climate model applicable for different climate zones from coarse to convection-permitting scales. *Geosci Model Dev* 13: 1311-1333. doi: 10.5194/gmd-13-1311-2020
- LUC, MIT / REV**; Benton TG, Baily R, Froggatt A, King R, Lee B, Wellesley L (2018) Designing sustainable landuse in a 1.5  C world: the complexities of projecting multiple ecosystem services from land. *Curr Opin Env Sust* 31: 88-95. doi: 10.1016/j.cosust.2018.01.011
- BIE, LUC / REV**; Berndes G, Ahlgren S, B rjesson P, Cowie AL (2013) Bioenergy and land use change - state of the art. *WIREs Energy Environ* 2: 282-303. doi: 10.1002/wene.41
- CAC, FMC / PRO**; Betts RA (2000) Offset of the potential carbon sink from boreal forestation by decreases in surface albedo. *Nature* 408: 187-190.

- CLC, HYD / PRO**; Betts RA, et al (2007) Projected increase in continental runoff due to plant responses to increasing carbon dioxide. *Nature* 448: 1037-1041. doi: 10.1038/nature06045
- BGC, BPH, FMC / REV**; Bonan GB (2008) Forests and climate change: Forcings, feedbacks, and the climate benefits of forests. *Science* 320: 1444-1449. doi: 10.1126/science.1155121
- BGC, BPH, FMC / REV**; Bonan GB (2016) Forests, climate, and public policy: A 500-year interdisciplinary odyssey. *Annu Rev Ecol Evol Syst* 47: 97-121. doi: 10.1146/annurev-ecolsys-121415-032359
- DEV / MOD, REV / IGE**; Bonan GB, Doney SC (2018) Climate, ecosystems, and planetary futures: The challenge to predict life in Earth system models. *Science* 359: eaam8328. doi: 10.1126/science.aam8328
- DEV / MOD / IGE**; Bond-Lamberty, et al (2014) On linking an Earth system model to the equilibrium carbon representation of an economically optimizing land use model. *Geosci Model Dev* 7: 2545-2555. doi: 10.5194/gmd-7-2545-2014
- CAC, LUC / MOD / TES**; Bondeau A, et al (2007) Modelling the role of agriculture for the 20th century global terrestrial carbon balance. *Glob Change Biol* 13: 679-706. doi: 10.1111/j.1365-2486.2006.01305.x
- BIE, FMC / SWE**; Börjesson P, Hansson J, Berndes G (2017) The future demand for forest-based biomass for energy purposes in Sweden. *Forest Ecol Manag* 383: 17-26. doi: 10.1016/j.foreco.2016.09.018
- CPR, LUC / MOD / GES**; Boysen LR, et al (2014) Global and regional effects of land-use change on climate in 21st century simulations with interactive carbon cycle. *Earth Syst Dynam* 5: 309-319. doi: 10.5194/esd-5-309-2014
- BPH, LUC / OBS, PRO**; Bright RM, Davin E, O'Hollaran T, Pongratz J, Zhao K, Cescatti A (2017) Local temperature response to land cover and management change driven by non-radiative processes. *Nat Clim Change* 7: 296-302. doi: 10.1038/NCLIMATE3250
- CPR, LUC / MOD / GES**; Brovkin V, et al (2013) Effect of anthropogenic land-use and land-cover changes on climate and land carbon storage in CMIP5 projections for the twenty-first century. *J Clim* 26: 6859-6881. doi: 10.1175/JCLI-D-12-00623.1
- DEV / MOD, SCE / IAS**; Calvin K, et al (2017) The SSP4: A world of deepening inequality. *Glob Environ Change* 42: 284-296. doi: 10.1016/j.gloenvcha.2016.05.010
- DEV / MOD, REV / IGE**; Calvin K, Bond-Lamberty B (2018) Integrated human-earth system modeling - state of the science and future directions. *Environ Res Lett* 13: 063006. doi: 10.1088/1748-9326/aac642
- CAC, MIT / REV**; Canadell JG, Schulze ED (2014) Global potential of biospheric carbon management for climate mitigation. *Nat Commun* 5: 5282. doi: 10.1038/ncomms6282
- BIE, FMC / SWE**; Cintas O, Berndes G, Cowie AL, Engell G, Holmström H, Ågren GI (2016) The climate effect of increased forest bioenergy use in Sweden: evaluation at different spatial and temporal scales. *WIREs Energy Environ* 5: 351-369. doi: 10.1002/wene.178
- FMC, MIT / SCE, SWE**; Cintas O, et al (2017) The potential role of forest management in Swedish scenarios towards climate neutrality by mid century. *Forest Ecol Manage* 383: 73-84. doi: 10.1016/j.foreco.2016.07.015

- DEV / MOD / IGE**; Collins WD, et al (2015) The integrated Earth system model version 1: formulation and functionality. *Geosci Model Dev* 8: 2203-2219. doi: 10.5194/gmd-8-2203-2015
- DEV / MOD / GES**; Danabasoglu G, et al (2020) The Community Earth System Model version 2 (CESM2). *Geosci Model Dev* 12: e2019MS001916. doi: 10.1029/2019MS001916
- BIE, FMC / SWE**; De Jong J, Akselsson C, Egnell F, Löfgren S, Olsson B (2017a) Preface. *Forest Ecol Manag* 383: 1-2. doi: 10.1016/j.foreco.2016.11.017
- BIE, FMC / REV, SWE**; De Jong J, Akselsson C, Egnell F, Löfgren S, Olsson B (2017b) Realizing the energy potential of forest biomass in Sweden - How much is environmentally sustainable? *Forest Ecol Manag* 383: 3-16. doi: 10.1016/j.foreco.2016.06.028
- CLC, LUC / MOD / GCL**; De Noblet-Ducoudré N, et al (2012) Determining robust impacts of land-use-induced land cover changes on surface climate over North America and Eurasia: Results from the first set of LUCID experiments. *J Clim* 25: 3261-3281. doi: 10.1175/JCLI-D-11-00338.1
- BGC, BPH, LUC / MOD / GCL, TES**; Devaraju N, Bala G, Nemani R (2015) Modelling the influence of land-use changes on biophysical and biochemical interactions at regional and global scales. *Plant Cell Environ* 39: 1931-1946. doi: 10.1111/pce.12488
- FMC, HYD / REV**; Ellison D, et al (2017) Trees, forests and water: Cool insights for a hot world. *Glob Environ Change* 43: 51-61. doi: 10.1016/j.gloenvcha.2017.01.002
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- CLC, LUC / REV**; Erb K-H, et al (2017) Land management: data availability and process understanding for global change studies. *Glob Change Biol* 23: 512-533. doi: 10.1111/gcb.13443
- DEV / MOD, REV / GES**; Eyring V, Bony S, Meehl GA, Senior CA, Stevens B, Stouffer RJ, Taylor KE (2016) Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization. *Geosci Model Dev* 9: 1937-1958. doi: 10.5194/gmd-9-1937-2016
- DEV / MOD / TES**; Fisher R, et al (2010) Assessing uncertainties in a second-generation dynamic vegetation model caused by ecological scale. *New Phytol* 187: 666-681. doi: 10.1111/j.1469-8137.2010.03340.x
- DEV / MOD, REV / TES**; Fisher R, et al (2018) Vegetation demographics in Earth System Models: A review of progress and priorities. *Glob Change Biol* 24: 34-54. doi: 10.1111/gcb.13910
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- CLC, LUC / OBS, PRO**; Forzieri G, Alkama R, Mirelles DG, Cescatti A (2017) Satellites reveal contrasting responses of regional climate to the widespread greening of Earth. *Science* 356: 1180-1184. doi: 10.1126/science.aal1727
- DEV / MOD, SCE / IAS**; Fricko O, et al (2017) The marker quantification of the Shared Socioeconomic Pathway 2: A middle-of-the-road scenario for the 21st century. *Glob Environ Change* 42: 251-267. doi: 10.1016/j.gloenvcha.2016.05.004

- CAC, CLC / MOD / GES**; Friedlingstein P, et al (2006) Climate-carbon cycle feedback analysis: Results from the C⁴MIP model intercomparison. *J Clim* 19: 3337-3353
- CAC, CLC, CPR / MOD / GES**; Friedlingstein P, et al (2014) Uncertainties in CMIP5 climate projections due to carbon cycle feedbacks. *J Clim* 27: 511-526. doi: 10.1175/JCLI-D-12-00579.1
- DEV / MOD, SCE / IAS**; Fujimori S, et al (2017) SSP3: AIM implementation of Shared Socioeconomic Pathways. *Glob Environ Change* 42: 268-283. doi: 10.1016/j.gloenvcha.2016.05.009
- BPH, CPR, FMC / MOD / RCL**; Gao Y, Markkanen T, Backman L, Henttonen HM, Pietikäinen J-P, Mäkelä HM, Laaksonen A (2014) Biogeophysical impacts of peatland forestation on regional climate changes in Finland. *Biogeosciences* 11: 2751-2767. doi: 10.5194/bg-11-7251-2014
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- BPH, LUC / MOD / RES**; Garnaud C, Sushama L, Verseghy D (2015) Impact of interactive vegetation phenology on the Canadian RCM simulated climate over North America. *Clim Dyn* 120: 1471-1492. doi: 10.1007/s00382-014-2397-9
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- ATC, DEV / MOD / TES**; Guenther AB, Jiang X, Heald CL, Sakulyanontvittaya T, Duhl T, Emmons LK, Wang X (2012) The Model of Emissions of Gases and Aerosols from Nature version 2.1 (MEGAN2.1): an extended and updated framework for modeling biogenic emissions. *Geosci Model Dev* 5: 1471-1492. doi: 10.5194/gmd-5-1471-2012
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- FMC, MIT / SWE**; Gustavsson L, et al (2017) Climate change effects of forestry and substitution of carbon-intensive materials and fossil fuels. *Renew Sust Energy Rev* 67: 612-624. doi: 10.1016/j.rser.2016.09.056
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- DEV, LUC / MOD / STA**; Hurtt GC, et al (2006) The underpinnings of land-use history: three centuries of global gridded land-use transitions, wood-harvest activity, and resulting secondary lands. *Glob Change Biol* 12: 1208-1229. doi: 10.1111/j.1365-2486.2006.01150.x
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- ATC, DEV / MOD / RCL**; Ji Z, Wang G, Pal JS, Yu M (2016) Potential climate effect of mineral aerosols over West Africa. Part I: model validation and contemporary climate evaluation. *Clim Dyn* 46: 1223-1239. doi: 10.1007/s00382-015-2641-y
- CLC, FMC / MOD / TES**; Jönsson AM, Lagergren F, Smith B (2015) Forest management facing climate change - an ecosystem model analysis of adaptation strategies. *Mitig Adapt Strateg Glob Change* 20: 201-220. doi: 10.1007/s11027-013-9
- BGC, LUC / MOD / IAS**; Kasimir Å, He H, Coria J, Nordén A (2018) Land use of drained peatlands: Greenhouse gas fluxes, plant production, and economics. *Glob Change Biol* 24: 3302-3316. doi: 10.1111/gcb.13931
- CAC / REV**; Keenan TF, Williams CA (2018) The terrestrial carbon sink. *Annu Rev Environ Resour* 43: 219-243. doi: 10.1146/annurev-environ-102017-030204
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