

## Appendix IV

### Publications relevant to IIASA-Brazil collaborations (2008-2017)

The publication list contains only publications authored by IIASA-affiliated researchers and:

1. About the USA, or
2. the IIASA author is a national of the USA, or
3. the IIASA author has collaborated with a researcher based at an institute in the USA.

#### 2017

1. Abbas D, Di Fulvio F, & Spinelli R (2017). European and United States Perspectives on Forest Operations in Environmentally Sensitive Areas. *Scandinavian Journal of Forest Research*: 1-27. DOI:10.1080/02827581.2017.1338355. (In Press)
2. Alexander P, Prestele R, Verburg PH, et al. (2017) Assessing uncertainties in land cover projections. *Global Change Biology* 23(2):767-781 DOI:10.1111/gcb.13447
3. Anenberg SC, Miller J, Minjares R, et al. (2017) Impacts and mitigation of excess diesel-related NO x emissions in 11 major vehicle markets. *Nature* 545(7655):467-471 DOI:10.1038/nature22086
4. Arpino B, Bordone V, & Scherbov S (2017). Smoking, Education and the Ability to Predict Own Survival Probabilities: An Observational Study on US Data. IIASA Working Paper. IIASA, Laxenburg, Austria: WP-17-012
5. Bauer N, Calvin K, Emmerling J, Fricko O, Fujimori S, Hilaire J, Eom J, Krey V, et al. (2017). Shared Socio-Economic Pathways of the Energy Sector – Quantifying the Narratives. *Global Environmental Change* 42: 316-330. DOI:10.1016/j.gloenvcha.2016.07.006.
6. Bednarik P, Dieckmann U, Linnerooth-Bayer J, Magnuszewski P, Sigmund K, & Thompson M (2017). Behavioral experiments reveal how risk perception and worldviews impact common-good governance. In: IIASA Institutional Evaluation 2017, 27 February-1 March 2017, IIASA, Laxenburg, Austria.
7. Bhanja SN, Mukherjee A, Rodell M, et al. (2017) Groundwater rejuvenation in parts of India influenced by water-policy change implementation. *Scientific Reports* 7(1) DOI:10.1038/s41598-017-07058-2
8. Bogmans CWJ, Dijkema GPJ, van Vliet MTH (2017) Adaptation of thermal power plants: The (ir)relevance of climate (change) information. *Energy Economics* 62:1-18 DOI:10.1016/j.eneco.2016.11.012

9. Boulay AM, Bare J, Benini L, et al. (2017) The WULCA consensus characterization model for water scarcity footprints: assessing impacts of water consumption based on available water remaining (AWARE). *International Journal of Life Cycle Assessment*:1-11 DOI:10.1007/s11367-017-1333-8
10. Cameron C, Pachauri S, Rao N, McCollum D, Rogelj J, & Riahi K (2017). Synergies and Trade-offs between Climate Mitigation and Universal Access to Clean Cooking Goals. In: IIASA Institutional Evaluation 2017, 27 February-1 March 2017, IIASA, Laxenburg, Austria.
11. Campana PE, Leduc S, Kim M, et al. (2017) Suitable and optimal locations for implementing photovoltaic water pumping systems for grassland irrigation in China. *Applied Energy* 185:1879-1889 DOI:10.1016/j.apenergy.2016.01.004
12. Carlson KM, Gerber JS, Mueller ND, et al. (2017) Greenhouse gas emissions intensity of global croplands. *Nature Climate Change* 7(1):63-68 DOI:10.1038/nclimate3158
13. Chandler M, See L, Copas K, Bonde AMZ, López BC, Danielsen F, Legind JK, Masinde S, et al. (2017). Contribution of citizen science towards international biodiversity monitoring. *Biological Conservation* 213 (B): 280-294. DOI:10.1016/j.biocon.2016.09.004.
14. Collins A, Tatano H, James W, et al. (2017) The 3rd Global Summit of Research Institutes for Disaster Risk Reduction: Expanding the Platform for Bridging Science and Policy Making. *International Journal of Disaster Risk Science* 8(2):224-230 DOI:10.1007/s13753-017-0123-z
15. Collins MG (2017). International Organizations and Biodiversity. In: Reference Module in Life Sciences, 2017. Elsevier. ISBN 978-0-12-809633-8 DOI:10.1016/B978-0-12-809633-8.02331-1.
16. Crespo Cuaresma J, Danylo O, Fritz S, McCallum I, Obersteiner M, See L, & Walsh B (2017). Economic Development and Forest Cover: Evidence from Satellite Data. *Scientific Reports* 7: art.no.40678. DOI:10.1038/srep40678.
17. Dalin C, Wada Y, Kastner T, Puma MJ (2017) Groundwater depletion embedded in international food trade. *Nature* 543(7647):700-704 DOI:10.1038/nature21403
18. Dobrotkova Z, Dorner D, Daly D, Gielen D, Saygin D, Winkler S, Neil S, Riahi K, et al. (2017). Future Prospects. In: *Global Tracking Framework 2017: Progress Towards Sustainable Energy*. pp. 93-102 Washington DC: World Bank. ISBN 978-1-4648-1084-8 DOI:10.1596/978-1-4648-1084-8.
19. Dos Santos S, Adams EA, Neville G, et al. (2017) Urban growth and water access in sub-Saharan Africa: Progress, challenges, and emerging research directions. *Science of the Total Environment* 607-608:497-508 DOI:10.1016/j.scitotenv.2017.06.157

20. Edelenbosch O, McCollum D, van Vuuren DP, Bertram C, Carrara S, Daly H, Fujimori S, Kitous A, et al. (2017). Decomposing passenger transport futures: Comparing results of global integrated assessment models. *Transportation Research Part D: Transport and Environment* 55: 281-293. DOI:10.1016/j.trd.2016.07.003.
21. Edelenbosch O, van Vuuren DP, Bertram C, Carrara S, Emmerling J, Daly H, Kitous A, McCollum D, et al. (2017). Transport fuel demand responses to fuel price and income projections: Comparison of integrated assessment models. *Transportation Research Part D: Transport and Environment* 55: 310-321. DOI:10.1016/j.trd.2017.03.005.
22. Eikeset AM, Dunlop ES, Heino M, Storvik G, Stenseth NC, Dieckmann U (2017) Ecology and evolution both matter for explaining stock dynamics. *Proceedings of the National Academy of Sciences of the United States of America* 114(22):E4322-E4323 DOI:10.1073/pnas.1703865114
23. Engström RE, Howells M, Destouni G, Bhatt V, Bazilian M, Rogner HH (2017) Connecting the resource nexus to basic urban service provision – with a focus on water-energy interactions in New York City. *Sustainable Cities and Society* 31:83-94 DOI:10.1016/j.scs.2017.02.007
24. Erb KH, Luysaert S, Meyfroidt P, et al. (2017) Land management: data availability and process understanding for global change studies. *Global Change Biology* 23(2):512-533 DOI:10.1111/gcb.13443
25. Fan D, Ding Q, Tian Z, Sun L, Fischer G (2017) A cross-scale model coupling approach to simulate the risk-reduction effect of natural adaptation on soybean production under climate change. *Human and Ecological Risk Assessment* 23(3):426-440 DOI:10.1080/10807039.2016.1221308
26. Fath BD (2017). Systems ecology, energy networks, and a path to sustainability. *International Journal of Design & Nature and Ecodynamics* 12 (1): 1-15. DOI:10.2495/DNE-V12-N1-1-15.
27. Felfelani F, Wada Y, Longuevergne L, Pokhrel YN (2017) Natural and human-induced terrestrial water storage change: A global analysis using hydrological models and GRACE. *Journal of Hydrology* 553:105-118 DOI:10.1016/j.jhydrol.2017.07.048
28. Fetzel T, Havlik P, Herrero M, et al. (2017) Quantification of uncertainties in global grazing systems assessment. *Global Biogeochemical Cycles* 31(7):1089-1102 DOI:10.1002/2016GB005601
29. Franklin O, Cambui CA, Gruffman L, Palmroth S, Oren R, Näsholm T (2017) The carbon bonus of organic nitrogen enhances nitrogen use efficiency of plants. *Plant Cell and Environment* 40(1):25-35 DOI:10.1111/pce.12772

30. Fricko O, Havlik P, Rogelj J, Klimont Z, Gusti M, Johnson N, Kolp P, Strubegger M, et al. (2017). The marker quantification of the Shared Socioeconomic Pathway 2: A middle-of-the-road scenario for the 21st century. *Global Environmental Change* 42: 251-267. DOI:10.1016/j.gloenvcha.2016.06.004.
31. Frieler K, Schauburger B, Arneth A, et al. (2017) Understanding the weather signal in national crop-yield variability. *Earth's Future* 5(6):605-616  
DOI:10.1002/2016EF000525
32. Fritz S, See L, Perger C, McCallum I, Schill C, Schepaschenko D, Duerauer M, Karner M, et al. (2017). A global dataset of crowdsourced land cover and land use reference data. *Scientific Data* 4: p. 170075. DOI:10.1038/sdata.2017.75.
33. Gambhir A, Drouet L, McCollum D, Napp T, Bernie D, Hawkes A, Fricko O, Havlik P, et al. (2017). Assessing the Feasibility of Global Long-Term Mitigation Scenarios. *Energies* 10 (1): e89. DOI:10.3390/en10010089.
34. Gasser T, Peters GP, Fuglestvedt JS, Collins WJ, Shindell DT, Ciais P (2017) Accounting for the climate&ndash;carbon feedback in emission metric. *Earth System Dynamics* 8(2):235-253 DOI:10.5194/esd-8-235-2017
35. Gerssen-Gondelach SJ, Lauwerijssen RBG, Havlik P, Herrero M, Valin H, Faaij APC, & Wicke B (2017). Intensification pathways for beef and dairy cattle production systems: Impacts on GHG emissions, land occupation and land use change. *Agriculture, Ecosystems & Environment* 240: 135-147.  
DOI:10.1016/j.agee.2017.02.012.
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40. Hattermann FF, Krysanova V, Gosling SN, et al. (2017) Cross-scale intercomparison of climate change impacts simulated by regional and global hydrological models in eleven large river basins. *Climatic Change* 141(3):561-576 DOI:10.1007/s10584-016-1829-4
41. He X, Wada Y, Wanders N, Sheffield J (2017) Intensification of hydrological drought in California by human water management. *Geophysical Research Letters* 44(4):1777-1785 DOI:10.1002/2016GL071665
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43. Herrero M, Thornton PK, Power B, Bogard JR, Remans R, Fritz S, Gerber JS, Nelson G, et al. (2017). Farming and the geography of nutrient production for human use: a transdisciplinary analysis. *The Lancet Planetary Health* 1 (1): e33-e42. DOI:10.1016/S2542-5196(17)30007-4.
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46. International Council for Science (2017). A Guide to SDG Interactions: from Science to Implementation. International Council for Science, Paris. DOI:10.24948/2017.01
47. Jasechko S, Perrone D, Befus KM, et al. (2017) Global aquifers dominated by fossil groundwaters but wells vulnerable to modern contamination. *Nature Geoscience* 10(6):425-429 DOI:10.1038/ngeo2943
48. Johnson N, Strubegger M, McPherson M, Parkinson S, Krey V, & Sullivan P (2017). A reduced-form approach for representing the impacts of wind and solar PV deployment on the structure and operation of the electricity system. *Energy Economics* 64: 651-554. DOI:10.1016/j.eneco.2016.07.010.
49. Kanter DR, Wentz JA, Galloway JN, Moomaw WR, & Winiwarter W (2017). Managing a forgotten greenhouse gas under existing U.S. law: An interdisciplinary analysis. *Environmental Science & Policy* 67: 44-51. DOI:10.1016/j.envsci.2016.11.003.
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51. Kautzky-Willer A, Thurner S, Klimek P (2017) Use of statins offsets insulin-related cancer risk. *Journal of Internal Medicine* 281(2):206-216 DOI:10.1111/joim.12567
52. KC S, Kiesewetter G, Pachauri S, Rao N, & Valin H (2017). SCHEMA, a crosscutting project: Accounting for Socioeconomic Heterogeneity in IIASA Models. In: IIASA Institutional Evaluation 2017, 27 February-1 March 2017, IIASA, Laxenburg, Austria.
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56. Klimont Z, Kupiainen K, Heyes C, Purohit P, Cofala J, Rafaj P, Borken-Kleefeld J, & Schöpp W (2017). Global anthropogenic emissions of particulate matter including black carbon. *Atmospheric Chemistry and Physics* 17 (14): 8681-8723. DOI:10.5194/acp-17-8681-2017.
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58. Komendantova N, Irshaid J, Marashdeh L, Al-Salaymeh A, Ekenberg L, & Linnerooth-Bayer J (2017). Country Fact Sheet, Jordan: Energy and Development at a glance 2017.
59. Kreibich H, Krueger T, Van Loon A, et al. (2017) Scientific debate of Panta Rhei research—how to advance our knowledge of changes in hydrology and society? *Hydrological Sciences Journal* 62(3):331-333 DOI:10.1080/02626667.2016.1209929
60. Lansing JS, Thurner S, Chung NN, et al. (2017) Adaptive self-organization of Bali's ancient rice terraces. *Proceedings of the National Academy of Sciences of the United States of America* 114(25):6504-6509 DOI:10.1073/pnas.1605369114
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66. Linnerooth-Bayer J (2017). Risk and Resilience (RISK). In: IIASA Institutional Evaluation 2017, 27 February-1 March 2017, IIASA, Laxenburg, Austria.
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78. McCollum D, Gomez Echeverri L, Busch S, Pachauri S, Parkinson S, Rogelj J, Krey V, Riahi K, et al. (2017). Connecting the Sustainable Development Goals by their energy inter-linkages. IASA Working Paper. IASA, Laxenburg, Austria: WP-17-006
79. McCollum D, Wilson C, Pettifor H, Ramea K, Krey V, Riahi K, Bertram C, Lin Z, et al. (2017). Improving the behavioral realism of global integrated assessment models: An application to consumers' vehicle choices. *Transportation Research Part D: Transport and Environment* 55: 322-342. DOI:10.1016/j.trd.2016.04.003.
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