

## Appendix IV

### Publications relevant to China-IIASA collaborations (2010-2017)

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

1. About China, or
2. the IIASA author is a Chinese national, or
3. the IIASA author has collaborated with a researcher based at a Chinese institute

#### 2017

1. Amann M, Purohit P, Bhanarkar AD, Bertok I, Borken-Kleefeld J, Cofala J, Heyes C, Kiesewetter G, et al. (2017). Managing future air quality in megacities: A case study for Delhi. *Atmospheric Environment*: 1-28. DOI:10.1016/j.atmosenv.2017.04.041. (In Press)
2. Campana PE, Leduc S, Kim M, Olsson A, Zhang J, Liu J, Kraxner F, McCallum I, et al. (2017). Suitable and optimal locations for implementing photovoltaic water pumping systems for grassland irrigation in China. *Applied Energy* 185 (Part 2): 1879-1889. DOI:10.1016/j.apenergy.2016.01.004.
3. Dalin C, Wada Y, Kastner T, & Puma MJ (2017). Groundwater depletion embedded in international food trade. *Nature* 543: 700-704. DOI:10.1038/nature21403. (In Press)
4. Ermoliev Y, Ermolieva T, Havlik P, Mosnier A, Leclere D, Fritz S, Obersteiner M, Kyrzyuk S, et al. (2017). Robust downscaling approaches to disaggregation of data and projections under uncertainties: Case of land use and land use change systems. *Cybernetics and Systems analysis* 53 (1): 31-41.
5. Ermolieva T, Ermoliev Y, Havlik P, Mosnier A, Leclere D, Fritz S, Valin H, Obersteiner M, et al. (2017). Dynamic Merge of the Global and Local Models for Sustainable Land Use Planning with Regard for Global Projections from GLOBIOM and Local Technical–Economic Feasibility and Resource Constraints. *Cybernetics and Systems Analysis* 53 (2):176-185. DOI:10.1007/s10559-017-9917-7.
6. 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.

7. Fang J, Liu W, Yang S, Brown S, Nicholls RJ, Hinkel J, Shi X, & Shi P (2017). Spatial-temporal changes of coastal and marine disasters risks and impacts in Mainland China. *Ocean & Coastal Management* 139: 125-140. DOI:10.1016/j.ocecoaman.2017.02.003.
8. Frank S, Havlik P, Soussana J-P, Levesque A, Valin H, Wollenberg E, Kleinwechter U, Fricko O, et al. (2017). Reducing greenhouse gas emissions in agriculture without compromising food security? *Geophysical Research Abstracts* 19:15384.
9. Haak DM, Fath B, Forbes VE, Martin DR, & Pope KL (2017). Coupling ecological and social network models to assess “transmission” and “contagion” of an aquatic invasive species. *Journal of Environmental Management* 190 (1): 243-251. DOI:10.1016/j.jenvman.2016.12.012.
10. 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.
11. Hoesly RM, Smith SJ, Feng L, Klimont Z, Janssens-Maenhout G, Pitkanen Tyler, Seibert JJ, Vu L, et al. (2017). Historical (1750 - 2014) anthropogenic emissions of reactive gases and aerosols from the Community Emission Data System (CEDS). *Geoscientific Model Development Discussions*: 1-41. DOI:10.5194/gmd-2017-43. (In Press)
12. Keil L, Folberth C, Jedelhauser M, & Binder CR (2017). Time-Continuous Phosphorus Flows in the Indian Agri-Food Sector: Long-Term Drivers and Management Options. *Journal of Industrial Ecology* DOI:10.1111/jiec.12560. (In Press)
13. Kieseewetter G, Purohit P, Schöpp W, Liu J, Amann M, & Bhanarkar A (2017). Source attribution and mitigation strategies for air pollution in Delhi. *Geophysical Research Abstracts* 19: p. 16796.
14. Kim M, Lee W-K, Choi G-M, Song C, Lim C-H, Moon J, Piao D, Kraxner F, et al. (2017). Modeling stand-level mortality based on maximum stem number and seasonal temperature. *Forest Ecology and Management* 386: 37-50. DOI:10.1016/j.foreco.2016.12.001.
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17. Magnuszewski P, Mochizuki J, Keating A, French A, Liu W, Mechler R, & Linnerooth-Bayer J (2017). Smart gaming for informing policy. In: IIASA Institutional Evaluation 2017, 27 February-1 March 2017, IIASA, Laxenburg, Austria.

18. Muttarak R (2017). Potential Implications of China's 'One Belt, One Road' Strategies on Chinese International Migration. Vienna Institute of Demography, Austrian Academy of Sciences VID Working Paper 5/2017
19. Nabernegg S, Bednar-Friedl B, Wagner F, Schinko T, Cofala J, & Clement YM (2017). The Deployment of Low Carbon Technologies in Energy Intensive Industries: A Macroeconomic Analysis for Europe, China and India. *Energies* 10 (3): p. 360. DOI:10.3390/en10030360.
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25. Satoh Y, Kahil T, Byers E, Burek P, Fischer G, Tramberend S, Greve P, Flörke M, et al. (2017). Multi-model and multi-scenario assessments of Asian water futures: the Water Futures and Solutions (WFaS) initiative. *Earth's Future* DOI:10.1002/2016EF000503. (In Press)
26. Tian Z, Niu Y, Fan D, Sun L, Fischer G, Zhong H, Deng J, & Tubiello FN (2017). Maintaining rice production while mitigating methane and nitrous oxide emissions from paddy fields in China: Evaluating tradeoffs by using coupled agricultural systems models. *Agricultural Systems* DOI:10.1016/j.agsy.2017.04.006. (In Press)
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28. Wang C, Bi J, & Fath B (2017). Effects of abiotic factors on ecosystem health of Taihu Lake, China based on eco-exergy theory. *Scientific Reports* 7: p. 42872. DOI:10.1038/srep42872.

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46. Komendantova N (2016). Impacts of Geophysical Hazards on Critical Infrastructure: Case Study Of Electricity Transmission Networks. *Geoinformatics Research Papers* 4 (BS4002) DOI:10.2205/2016BS01Sochi.
47. Kraxner F, Aoki K, Kindermann G, Leduc S, Albrecht F, Liu J, & Yamagata Y (2016). Bioenergy and the city - What can urban forests contribute? *Applied Energy* 165: 990-1003. DOI:10.1016/j.apenergy.2015.12.121.
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55. Liu W (2016). Resilience of electricity networks to natural disasters. In: *Protecting Electricity Networks from Natural Hazards*. Ed. Komendantova, N., pp. 71-75 Vienna, Austria: OSCE.
56. Liu W, McCallum I, See L, Dugar S, & Laso-Bayas JC (2016). Digital technologies in support of flood resilience: A case study for Nepal. In: *European Geosciences Union (EGU) General Assembly 2016, 17–22 April 2016, Vienna, Austria*.
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