

## **Publications relevant to IIASA-Norway collaborations (2008-2015)**

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

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

### **2015**

1. Diaz Pauli, B., Wiech, M., Heino, M., Utne-Palm, A.C. Opposite selection on behavioural types by active and passive fishing gears in a simulated guppy *Poecilia reticulata* fishery (2015) *Journal of Fish Biology*, 86 (3), pp. 1030-1045.
2. Gaivoronski A, Ermoliev Y, Knopov P & Norkin V (2015). Mathematical modeling of distributed catastrophic and terrorist risk. *Cybernetics and Systems Analysis*, 51(1):85-95 (January 2015).
3. Gadhavi, H.S., Renuka, K., Ravi Kiran, V., Jayaraman, A., Stohl, A., Klimont, Z., Beig, G. Evaluation of black carbon emission inventories using a Lagrangian dispersion model - A case study over southern India (2015) *Atmospheric Chemistry and Physics*, 15 (3), pp. 1447-1461.
4. Hackett C, Stonawski M, Potancokova M, Grim BJ & Skirbekk V (2015). The future size of religiously affiliated and unaffiliated populations. *Demographic Research*, 32(1):829-842 (April 2015).
5. Haivoronsky, O.O., Ermoliev, Y.M., Knopov, P.S., Norkin, V.I. Mathematical Modeling of Distributed Catastrophic and Terrorist Risks1 (2015) *Cybernetics and Systems Analysis*, 11 p. Article in Press.
6. Husby TG, Mechler R & Jongman B (2015). What if Dutch investors started worrying about flood risk? Implications for disaster risk reduction. *Regional Environmental Change*, Article in press(Published online 3 March 2015).
7. Kieseewetter, G., Borken-Kleefeld, J., Schöpp, W., Heyes, C., Thunis, P., Bessagnet, B., Terrenoire, E., Fagerli, H., Nyiri, A., Amann, M. Modelling street level PM10 concentrations across Europe: Source apportionment and possible futures (2015) *Atmospheric Chemistry and Physics*, 15 (3), pp. 1539-1553.
8. Kraxner F, Schepaschenko D, Fuss S, Lunnan A, Kindermann G, Aoki K & Shvidenko A (2015). Forest management certification . application of a new tool for certification mapping to the boreal forest. Abstracts of the 17th IBFRA Conference, Towards a New Era of Forest Science in the Boreal Region, 24-29 May Rovaniemi, Finland (May 2015).
9. Pflug, G.C., Pichler, A. Dynamic generation of scenario trees (2015) *Computational Optimization and Applications*, 28 p. Article in Press.
10. Skilbrei OT, Heino M & Svasand T (2015). Using simulated escape events to assess the annual numbers and destinies of escaped farmed Atlantic salmon of different life stages from farm sites in Norway. *ICES journal of Marine Science*, 72(2):670-685 (Febraury 2015) (Published online 9 August 2014).

11. Skirbekk V, Stonawski M & Alfani G (2015). Consequences of a universal European demographic transition on regional and global population distributions. *Technological Forecasting and Social Change*, Article in press(Published online 21 May 2015).
12. Skirbekk V, Stonawski M, Fukuda S, Spoorenberg T, Hackett C & Muttarak R (2015). Is Buddhism the low fertility religion of Asia? *Demographic Research*, 32(1):1-28 (January 2015).
13. Stonawski M, Potancokova M & Skirbekk V (2015). Fertility patterns of native and migrant Muslims in Europe. *Population, Space and Place*, Article in press(Published online 1 June 2015).
14. Stonawski M, Skirbekk V, Kaufmann E & Goujon A (2015). The end of secularisation through demography? Projections of Spanish religiosity. *Journal of Contemporary Religion*, 30(1):1-21 (January 2015).
15. Van Oijen, M., Balkovi, J., Beer, C., Cameron, D.R., Ciais, P., Cramer, W., Kato, T., Kuhnert, M., Martin, R., Myneni, R., Rammig, A., Rolinski, S., Soussana, J.-F., Thonicke, K., Van Der Velde, M., Xu, L. Impact of droughts on the carbon cycle in European vegetation: A probabilistic risk analysis using six vegetation models (2014) *Biogeosciences*, 11 (22), pp. 6357-6375.
16. Yazdanpanah, M., Feyzabad, F.R., Forouzani, M., Mohammadzadeh, S., Burton, R.J.F. Predicting farmers' water conservation goals and behavior in Iran: A test of social cognitive theory
17. Yttri, K.E., Lund Myhre, C., Eckhardt, S., Fiebig, M., Dye, C., Hirdman, D., Ström, J., Klimont, Z., Stohl, A. Quantifying black carbon from biomass burning by means of levoglucosan - A one-year time series at the Arctic observatory Zeppelin (2014) *Atmospheric Chemistry and Physics*, 14 (12), pp. 6427-6442.

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18. Andersson, A.M., Elverhøi, M., Fleten, S.-E., Fuss, S., Szolgayová, J., Troland, O.C. Upgrading hydropower plants with storage: Timing and capacity choice (2014) *Energy Systems*, 5 (2), pp. 233-252.
19. Arpino B, Bordone V & Skirbekk V (2014). Does Grandparenting Influence Engagement in Social Activities? IIASA Interim Report IR-14-006.
20. Boukal, D.S., Dieckmann, U., Enberg, K., Heino, M., Jørgensen, C. Life-history implications of the allometric scaling of growth (2014) *Journal of Theoretical Biology*, 359, pp. 199-207.
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22. Diaz Pauli, B., Heino, M. What can selection experiments teach us about fisheries-induced evolution? (2014) *Biological Journal of the Linnean Society*, 111 (3), pp. 485-503.
23. Elliott, J., Deryng, D., Müller, C., Frieler, K., Konzmann, M., Gerten, D., Glotter, M., Flörke, M., Wada, Y., Best, N., Eisner, S., Fekete, B.M., Folberth, C., Foster, I., Gosling, S.N., Haddeland, I., Khabarov, N., Ludwig, F., Masaki, Y., Olin, S., Rosenzweig, C., Ruane, A.C., Satoh, Y., Schmid, E., Stacke, T., Tang, Q., Wisser, D. Constraints and potentials of future irrigation water availability on agricultural production under climate change (2014) *Proceedings of the National Academy of Sciences of the United States of America*, 111 (9), pp. 3239-3244.
24. Fischer, B., van Doorn, G.S., Dieckmann, U., Taborsky, B. The evolution of age-dependent plasticity (2014) *American Naturalist*, 183 (1), pp. 108-125.
25. Friedlingstein, P., Andrew, R.M., Rogelj, J., Peters, G.P., Canadell, J.G., Knutti, R., Luderer, G., Raupach, M.R., Schaeffer, M., Van Vuuren, D.P., Le Quéré, C. Persistent growth of CO<sub>2</sub> emissions and implications for reaching climate targets (2014) *Nature Geoscience*, 7 (10), pp. 709-715.
26. Huber, V., Schellnhuber, H.J., Arnell, N.W., Frieler, K., Friend, A.D., Gerten, D., Haddeland, I., Kabat, P., Lotze-Campen, H., Lucht, W., Parry, M., Piontek, F., Rosenzweig, C., Schewe, J., Warszawski, L. Climate impact research: Beyond patchwork (2014) *Earth System Dynamics*, 5 (2), pp. 399-408.
27. Juhola, S., Goodsite, M.E., Davis, M., Klein, R.J.T., Davíðsdóttir, B., Atlason, R., Landauer, M., Linnér, B.-O., Neset, T.-S., Glaas, E., Eskeland, G., Gammelgaard Ballantyne, A. Adaptation decision-making in the Nordic countries: assessing the potential for joint action (2014) *Environment Systems and Decisions*, 34 (4), pp. 600-611.
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29. Kendall, N.W., Dieckmann, U., Heino, M., Punt, A.E., Quinn, T.P. Evolution of age and length at maturation of Alaskan salmon under size-selective harvest (2014) *Evolutionary Applications*, 7 (2), pp. 313-322.
30. Kraxner F, Schepaschenko D, Fuss S, Lunnan A, Kindermann G, Aoki K & Shvidenko A (2014). Where is our certified forest? Application of a new tool for certification mapping to the boreal forest. In: *Proceedings, International Conference on "Forest Biogeocenoses of the Boreal Zone: Geography, Structure, Functions and Dynamics"*. 16-19 September 2014, Krasnoyarsk, Russia pp.689-694 (September 2014).
31. Kraxner F, Shchepashchenko D, Fuss S, Lunnan A, Aoki K & Shvidenko A (2014). Global forest management certification: future development potential. *International Forestry Review*, XXIV IUFRO World Congress, "Sustaining Forests, Sustaining People: The Role of Research, 5-11 October 2014, Salt lake City, USA, Vol. 16(5):280-282 (October 2014).
32. Laugen, A.T., Engelhard, G.H., Whitlock, R., Arlinghaus, R., Dankel, D.J., Dunlop, E.S., Eikeset, A.M., Enberg, K., Jørgensen, C., Matsumura, S., Nussli, S., Urbach, D., Baulier, L., Boukal, D.S., Ernande, B., Johnston, F.D., Mollet, F., Pardoe, H., Therkildsen, N.O., Uusi-Heikkilä, S., Vainikka, A., Heino, M., Rijnsdorp, A.D., Dieckmann, U. Evolutionary impact assessment: Accounting for evolutionary consequences of fishing in an ecosystem approach to fisheries management (2014) *Fish and Fisheries*, 15 (1), pp. 65-96.

33. Liu, X., Heino, M. Overlooked biological and economic implications of within-season fishery dynamics (2014) *Canadian Journal of Fisheries and Aquatic Sciences*, 71 (2), pp. 181-188.
34. Lund, M.T., Berntsen, T.K., Heyes, C., Klimont, Z., Samset, B.H. Global and regional climate impacts of black carbon and co-emitted species from the on-road diesel sector (2014) *Atmospheric Environment*, 98, pp. 50-58.
35. Lutz W & Skirbekk V (2014). How education drives demography and knowledge informs. In: Lutz W, Butz WP & KC S (eds), *World Population and Human Capital in the Twenty-first Century*. Oxford University Press, UK.
36. Marty L, Rochet M-J & Ernande B (2014). Temporal trends in age and size at maturation of four North Sea gadid species: Cod, haddock, whiting and Norway pout. *Marine Ecology Progress Series (MEPS)*, 497:179-197(5 February 2014).
37. Schewe, J., Heinke, J., Gerten, D., Haddeland, I., Arnell, N.W., Clark, D.B., Dankers, R., Eisner, S., Fekete, B.M., Colón-González, F.J., Gosling, S.N., Kim, H., Liu, X., Masaki, Y., Portmann, F.T., Satoh, Y., Stacke, T., Tang, Q., Wada, Y., Wisser, D., Albrecht, T., Frieler, K., Piontek, F., Warszawski, L., Kabat, P. Multimodel assessment of water scarcity under climate change (2014) *Proceedings of the National Academy of Sciences of the United States of America*, 111 (9), pp. 3245-3250.
38. Shen, G., Heino, M. An overview of marine fisheries management in China (2014) *Marine Policy*, 44, pp. 265-272.
39. Schneeweis N, Skirbekk V & Winter-Ebmer R (2014). Does education improve cognitive performance four decades after school completion? *Demography*, 51(2):619-643 (April 2014) (Published online 28 February 2014).
40. Skirbekk V & Blekesaune M (2014). Personality traits increasingly important for male fertility: Evidence from Norway. *European Journal of Personality*, 28(6):521-529 (November/December 2014) (Published online 5 August 2013).
41. Skirbekk V, Bordone V & Weber D (2014). A cross-country comparison of math achievement at teen age and cognitive performance 40 years later. *Demographic Research*, 31(4):105-118 (4 July 2014).
42. Skirbekk V & James KS (2014). Abuse against elderly in India - The role of education. *BMC Public Health*, 14:336(9 April 2014).
43. Skirbekk V, Stonawski M & Alfani G (2014). Global and Regional Population Growth if European Demographic Transition Patterns Had Been Universal. *IIASA Interim Report IR-14-014*.
44. Weber D & Skirbekk V (2014). The Educational Effect on Cognitive Functioning: National versus Individual Educational Attainment. *IIASA Interim Report IR-14-008*.
45. Weber D, Skirbekk V, Freund I & Herlitz A (2014). The changing face of cognitive gender differences in Europe. *PNAS*, 111(32):11673-11678 (12 August 2014) (Published online 28 July 2014).

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  49. Diaz Pauli, B., Heino, M. Ecological and evolutionary effects of harvesting: Lessons from the candy-fish experiment (2013) *ICES Journal of Marine Science*, 70 (7), pp. 1281-1286.
  50. Eikeset, A.M., Richter, A., Dunlop, E.S., Dieckmann, U., Stenseth, N.C. Economic repercussions of fisheries-induced evolution (2013) *Proceedings of the National Academy of Sciences of the United States of America*, 110 (30), pp. 12259-12264.
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