

CCII Published Papers

- Ausseil, A.G., Bodmin, K., Daigneault, A., Teixeira, E., Keller, L., Kirschbaum, M., Timar, L., Dunningham, A., Stephens, S., Cameron, M.P., Blackett, P., Harmsworth, G., Frame, B., Reisinger, A., Tait, A., and Rutledge, D. (2016). Climate change impacts and implications: an integrated assessment in a lowland environment of New Zealand. In *Proceedings of the 8th International Congress on Environmental Modelling and Software*, Toulouse, 10-14 July.
- Bostock, H.C., Tracey, D.M., Currie, K.I., Dunbar, G.B., Handler, M.R., Mikaloff Fletcher, S.E., Smith, A.M. and Williams, M.J.M. (2015). The carbonate mineralogy and distribution of habitat-forming deep-sea corals in the southwest pacific region. *Deep Sea Research Part I: Oceanographic Research Papers*, 100, 88 - 104. doi:10.1016/j.dsr.2015.02.008.
- Cradock-Henry N. (2016) New Zealand kiwifruit growers' vulnerability to climate change and other stressors. *Regional Environmental Change*. <http://doi.org/10.1007/s10113-016-1000-9>.
- Hoffmann H, Zhao G, Asseng S, Bindi M, Biernath C, Constantin J, Coucheney E, Dechow R, Doro L, Eckersten H, Gaiser T, Grosz B, Heinlein F, Kassie BT, Kersebaum K-C, Klein C, Kuhnert M, Lewan E, Moriondo M, Nendel C, Priesack E, Raynal H, Roggero PP, Rötter RP, Siebert S, Specka X, Tao F, Teixeira E, Trombi G, Wallach D, Weihermüller L, Yeluripati J, Ewert F (2016). Impact of Spatial Soil and Climate Input Data Aggregation on Regional Yield Simulations. *PLoS ONE* 11(4): e0151782.
- Hoffmann H, Zhao G, van Bussel LGJ, Enders A, Specka X, Sosa C, Yeluripati J, Tao F, Constantin J, Raynal H, Teixeira E, Grosz B, Doro L, Zhao Z, Wang E, Nendel C, Kersebaum KC, Haas E, Kiese R, Klatt S, Eckersten H, Vanuytrecht E, Kuhnert M, Lewan E, Rötter R, Roggero PP, Wallach D, Cammarano D, Asseng S, Krauss G, Siebert S, Gaiser T, Ewert F (2015). Variability of effects of spatial climate data aggregation on regional yield simulation by crop models. *Climate Research* 65: 53-69.
- Lovelock, C.E., Cahoon, D.R., Friess, D.A., Guntenspergen, G.R., Krauss, K.W., Reef, R., Rogers, K., Saunders, M.L., Sidik, F., Swales, A., Saintilan, N., Thuyen Le X., Triet, T. (2015) The vulnerability of Indo-Pacific mangrove forests to sea-level rise. *Nature Research Letter* doi:10.1038/nature15538.
- Pinkerton, M.H. (accepted). Impacts of Climate Change on New Zealand fisheries and aquaculture. Chapter 22. In: *The Impacts of Climate Change on Fisheries and Aquaculture*. B.F. Phillips; M. Pérez-Ramírez (Eds.) Wiley/Blackwell.
- Pritchard. M., Swales. A., Green. M. (2015). Influence of buoyancy- and wind-coupling on sediment dispersal and deposition in the Firth of Thames, New Zealand. *Proceedings for Australasian Coasts & Ports Conference*, 15 - 18 September 2015, Auckland, New Zealand.
- Swales A., Bentley S.J., and Lovelock, C.E. (2015). Mangrove-forest evolution in a sediment-rich estuarine system: Opportunists or agents of geomorphic change? *Earth Surface Processes and Landforms* (Biogeomorphology Special Issue) (in press).
- Teixeira EI, Brown HE, Sharp J, Meenken ED, Ewert F (2015). Evaluating methods to simulate crop rotations for climate impact assessments – A case study on the Canterbury plains of New Zealand. *Environmental Modelling & Software* 72: 304-313.

Teixeira EI, Zhao G, Ruiter J, Brown H, Ausseil AG, Meenken E, Ewert F (2016). The interactions between genotype, management and environment in regional crop modelling. *European Journal of Agronomy*, in press.

Zhao G, Hoffmann H, van Bussel LGJ, Enders A, Specka X, Sosa C, Yeluripati J, Tao F, Constantin J, Raynal H, Teixeira E, Grosz B, Doro L, Zhao Z, Nendel C, Kiese R, Eckersten H, Haas E, Vanuytrecht E, Wang E, Kuhnert M, Trombi G, Moriondo M, Bindi M, Lewan E, Bach M, Kersebaum KC, Rötter R, Roggero PP, Wallach D, Cammarano D, Asseng S, Krauss G, Siebert S, Gaiser T, Ewert F (2015). Effect of weather data aggregation on regional crop simulation for different crops, production conditions, and response variables. *Climate Research* 65: 141-157.

Zhao G, Hoffmann H, Yeluripati J, Xenia S, Nendel C, Coucheney E, Kuhnert M, Tao F, Constantin J, Raynal H, Teixeira E, Grosz B, Doro L, Kiese R, Eckersten H, Haas E, Cammarano D, Kassie B, Moriondo M, Trombi G, Bindi M, Biernath C, Heinlein F, Klein C, Priesack E, Lewan E, Kersebaum K-C, Rötter R, Roggero PP, Wallach D, Asseng S, Siebert S, Gaiser T, Ewert F (2016). Evaluating the precision of eight spatial sampling schemes in estimating regional means of simulated yield for two crops. *Environmental Modelling & Software* 80: 100-112.

[CCII Papers \(Submitted or In Preparation \[as at August 2016\]\)](#)

Alimi, O., Cameron, M.P., Mare, D., and Poot, J. (in review). The gravity model of migration: the successful comeback of an ageing superstar in regional science, *Journal of Regional Research*.

Anderson, B., Mackintosh, A., Oerlemans, J., Mullan, B., Zammit, C. and Sood, A. (in prep). Response of lake-calving glaciers to warming, Southern Alps, New Zealand.

Barron, M., Byrom, A., Pech, R., Tait, A., Elliott, G. and Christie, J. (in prep). Impacts of climate change on the management of irruptive rodent populations.

Cameron, M.P. and Poot, J. (in prep). A note on the estimation and interpretation of coefficients in panel gravity models of internal migration.

Cameron, M.P. (in prep). Climate effects on subnational population migration: Evidence from New Zealand.

Caruso, B, Newton S., King, R. and Zammit, C. (submitted). Modelling climate change impacts on hydropower lake inflows and braided rivers in a mountain basin. Submitted to *Hydrological Sciences Journal*.

Caruso, B, Newton S., King, R. and Zammit, C. (submitted). Simulation of climate change effects on hydropower operations in mountain headwater lakes in New Zealand. Submitted to *River Research and Application*.

Kremser, S; Bodeker, G.E.; Lewis, B; Lewis, J; Sood, A; Zeiher, N (in prep). Changes in extreme climate events over New Zealand through the 21st century. To be submitted to *Weather and Climate*.

Kremser, S; Bodeker, G.E.; Lewis, B; Lewis, J; Sood, A (in prep). Anthropogenic contribution to occurrence of high-temperature extremes in New Zealand. To be submitted to *Weather and Climate*.

- Law CS, Rickard G, Mikaloff – Fletcher S, Pinkerton MH. (in prep). Projections of climate change for New Zealand's Exclusive Economic Zone. To be submitted to *New Zealand Journal of Marine & Freshwater Science*.
- Lewis, J., Bodeker, G.E., Sood, A., Kremser, S. (in prep). A method to encapsulate model structural uncertainty in ensemble projections of future climate. To be submitted to *Geoscientific Model Development*.
- Pinkerton MH, Nodder S, Leduc D, Macdonald H, Rickard G. (in prep). Benthic-pelagic coupling from sinking detritus in the New Zealand ocean: present day patterns and future predictions. To be submitted to *Ecological Modelling*.
- Rickard, G.J., Behrens, E. and Chiswell, S.M. (submitted). CMIP5 Earth System Models with Biogeochemistry: An Assessment for the New Zealand Exclusive Economic Zone. *Journal of Geophysical Research - Oceans*.
- Rickard, G. and Behrens, E. (submitted). CMIP5 Earth System Models with Biogeochemistry: An Assessment for the Ross Sea Sector of the Southern Ocean. Submitted to *Antarctic Science*.
- Sood, A. (under review). Improved bias corrected and downscaled regional climate model data for climate impact studies: Validation and assessment for New Zealand.
- Tait, A., Paul, V., Sood, A. and Mowat, A. (in prep). Potential impact of climate change on Hayward kiwifruit viability.
- Timar, L. and Kerr, S. (in prep). Integrated climate-yield-land-use-economic (land value) impact assessments for lowland and upland case studies and national scale.