

## Harald Kunstmann – Publications

### Peer reviewed publications

#### ISI-indexed

121. Mott, R., Wolf, A., Kehl, M., Kunstmann, H., Warscher, M., Grünewald, T. (2019) Avalanches and micrometeorology driving mass and energy balance of the lowest perennial ice field of the Alps: a case study, *The Cryosphere*, 13, 1247-1265, <https://doi.org/10.5194/tc-13-1247-2019>
120. Maity, R., Suman, M., Laux, P., Kunstmann, H. (2019) Bias correction of zero-inflated RCM precipitation fields: A copula-based scheme for both mean and extreme conditions, *Journal of Hydrometeorology*, April 2019, pages 595-611, doi: 10.1175/JHM-D-18-0126.1
119. Chwala, C. and Kunstmann, H. (2019) Commercial microwave link networks for rainfall observation: Assessment of the current status and future challenges, *Wiley Interdisciplinary Reviews: Water*, Volume 6, Issue 2, doi: <https://doi.org/10.1002/wat2.1337>
118. Soltani, M., Laux, P., Mauder, M., Kunstmann, H. (2019) Inverse distributed modelling of streamflow and turbulent fluxes: A sensitivity and uncertainty analysis coupled with automatic optimization, *Journal of Hydrology*, Volume 571, pages 856-872, doi: <https://doi.org/10.1016/j.jhydrol.2019.02.033>
117. Laux, P., Kerandi, N., Kunstmann, H. (2019) Physics Parameterization Selection in RCM and ESM Simulations Revisited: New Supporting Approach Based on Empirical Copulas, *Atmosphere*, 10 (3), 150, doi: 10.3390/atmos10030150
116. Rummeler, T., Arnault, J., Gochis, D., Kunstmann, H. (2018) Role of Lateral Terrestrial Water Flow on the Regional Water Cycle in a Complex Terrain Region: Investigation with a Fully Coupled Model System, *Journal of Geophysical Research: Atmospheres*, doi: 10.1029/2018JD029004
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113. Blifernicht, J., Waongo, M., Salack, S., Seidel, J., Laux, P., Kunstmann, H. (2018), Quality and Value of Seasonal Precipitation Forecasts issued by the West African Regional Climate Outlook Forum, *Journal of Applied Meteorology and Climatology*, doi: 10.1175/JAMC-D-18-0066.1
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105. Dang, T., Pedroso, R., Laux, P., [Kunstmann, H.](#) (2018), Development of an integrated hydrological-irrigation optimization modeling system for a typical rice irrigation scheme in Central Vietnam, *Agricultural Water Management*, Volume: 208, Pages: 193-293, doi: 10.1016/j.agwat.2018.05.018
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103. Wagner, A., Heinzeller, D., Wagner, S., Rummler, T., [Kunstmann, H.](#) (2018), Explicit convection and scale-aware cumulus parameterizations: High-resolution simulations over areas of different topography in Germany, *Monthly Weather Review*, doi: 10.1175/MWR-D-17-0238.1
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100. Kerandi, N., Arnault, J., Laux, P., Wagner, S., Kitheka, J., [Kunstmann, H.](#) (2017), Joint atmospheric-terrestrial water balances for East Africa: a WRF-Hydro case study for the upper Tana River basin, *Theoretical and Applied Climatology*, Volume: 131, Issue: 3, Pages: 1337-1355, doi: 10.1007/s00704-017-2050-8
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