

Erscheinungsjahr 2019

Zeitschriften mit Impact Factor

Gulizia, C., **Langendijk, G.**, **Huang-Lachmann, J.-T.**, de Amorim Borges, P., Flach, R., Githaiga, C., Rahimi, M.: Towards a more integrated role for early career researchers in the IPCC process. In: *Climatic Change*, 159, 75-85 (2019) (DOI: 10.1007/s10584-019-02409-6)

Bisaro, A., de Bel, M., Hinkel, J., Kok, S., **Bouwer, L. M.**: Leveraging public adaptation finance through urban land reclamation: cases from Germany, the Netherlands and the Maldives. In: *Climatic Change*, 161, 671-689 (2019) (DOI: 10.1007/s10584-019-02604-5)

Kreibich, H., Blauhut, V., Aerts, J.C.J.H., **Bouwer, L.M.**, Van Lanen, H.A.J., Meija, A., Mens, M., Van Loon, A.F.: Approaches to analyse and model changes in impacts: reply to discussions of "How to improve attribution of changes in drought and flood impacts". In: *Hydrological Sciences Journal*, Vol. 65, Issue 3, 491-494 (2019) (DOI: 10.1080/02626667.2019.1701194)

Dahm, R.; Bhardwaj, A.; Sperna Weiland, F.; Corzo, G.; **Bouwer, L.M.**: A Temperature-Scaling Approach for Projecting Changes in Short Duration Rainfall Extremes from GCM Data. In: *Water* [Online Ressource], Vol. 11, Issue 2 (2019) (DOI: 10.3390/w11020313)

Xu, J., **Koldunov, N.V.**, **Remedio, A.R.C.**, Sein, D.V., **Rechid, D.**, Zhi, X., Jiang, X., Xu, M., Zhu, X., Fraedrich, K., **Jacob, D.**: Downstream effect of Hengduan Mountains on East China in the REMO regional climate model. In: *Theoretical and Applied Climatology*, Vol. 135, Issue 3-4, 641-658 (2019) (DOI: 10.1007/s00704-018-2721-0)

Cabos, W.; Sein, D.V.; Duran-Quesada, A.; Liguori, G.; **Koldunov, N.V.**; Martinez-Lopez, B.; Alvarez, F.; **Sieck, K.**; Limareva, N.; Pinto, J.G.: Dynamical Downscaling of historical climate over CORDEX Central America domain with a regionally coupled atmosphere-ocean model. In: *Climate Dynamics*, Vol. 7 – 8, Issue 1811, pp 4305-4328 (2019) (DOI:10.1007/s00382-018-4381-2)

Tamoffo, A.; Moufouma-Okia, W.; Dosio, A.; James, R.; Pokam, W.; Vondou, D.; Fotso-Nguemo, T.; Guenang, G.; Kamsu-Tamo, P.; Nikulin, G.; Longandjo, G.; Lennard, C.; Bell, J.; Takong, R.; **Haensler, A.**; Djiotang Tchotchou, L.; Nouayou, R.: Process-oriented assessment of RCA4 regional climate model projections over the Congo Basin under 1.5°C and 2°C global warming levels: influence of regional moisture fluxes. In: *Climate Dynamics*, Vol. 53, pp 1911-1935 (2019) (DOI: 10.1007/s00382-019-04751-y)

Tart, S., **Groth, M.**, **Seipold, P.**: Market demand for climate services: An assessment of users' needs. In: *Climate Services* (2019) (DOI: 10.1016/j.cliser.2019.100109)

Søgaard Jørgensen, P.; J Evoh, C.; Cavaleri Gerhardinger, L.; Hughes, A.; **Langendijk, G.**; Moersberger, H.; Pocklington, J.; Mukherjee, N.: Building urgent intergenerational bridges: assessing early career researcher integration in global sustainability initiatives. In: *Current Opinion in Environmental Sustainability*, Vol. 39, pp 153-159 (2019) (DOI: 10.1016/j.cosust.2019.10.001)

Langendijk, G.S., Rechid, D., Jacob, D.: Urban Areas and Urban–Rural Contrasts under Climate Change: What Does the EURO-CORDEX Ensemble Tell Us?—Investigating Near Surface Humidity in Berlin and Its Surroundings. In: *Atmosphere*, 10 (12), 730 (2019) (DOI: 10.3390/atmos10120730)

Ji, L.; Zhi, X.; **Zhu, S.**; Fraedrich, K.: Probabilistic Precipitation Forecasting over East Asia Using Bayesian Model Averaging. In: *Weather and forecasting*, Vol. 34, Issue 2, pp 377-392 (2019) (DOI:10.1175/WAF-D-18-0093.1)

Steppeler, J.; Li, J.; Fan, F.; Zhu, J.; Ullrich, P.: o3o3: A Variant of Spectral Elements with a Regular Collocation Grid. In: *Monthly Weather Review*, Vol. 147, Issue 6, pp 2067-2082 (2019) (DOI: 10.1175/MWR-D-18-0288.1)

Steppeler, J.; Li, J.; Fang, F.; Zhu, J.: Test of a cubic spline interface for physical processes with a 1-D third-order spectral element model. In: *Tellus A*, Vol. 71, Issue 1, (2019).(DOI: 10.1080/16000870.2019.1591846)

Tamoffo, A.; Vondou, D.; Pokam, W.; **Haensler, A.**; Yepdo, Z.; Fotso-Nguemo, T.; Djiotang Tchotchou, L.; Nouayou, R.: Daily characteristics of Central African rainfall in the REMO model. In: *Theoretical and Applied Climatology*, Vol. 137, pp 2351-2368 (2019) (DOI: 10.1007/s00704-018-2745-5)

Bessembinder, J.; Terrado, M.; Hewitt, C.; Garrett, N.; **Kotova, L.**; Buonocore, M.; Groenland, R.: Need for a common typology of climate services. In: *Climate Services*, Vol. 16 (2019) (DOI: 10.1016/j.cliser.2019.100135)

Remedio, A.; Teichmann, C.; Bunt Meyer, L.; Sieck, K.; Weber, T.; Rechid, D.; Hoffmann, P.; Nam, C.; Kotova, L.; Jacob, D.: Evaluation of New CORDEX Simulations Using an Updated Köppen–Trewartha Climate Classification. In: *Atmosphere*, Vol. 10, Issue 11 (2019) (DOI: 10.3390/atmos10110726)

Toivonen, E.; Hippi, M.; Korhonen, H.; Laaksonen, A.; Kangas, M.; **Pietikäinen, J.:** The road weather model RoadSurf (v6.60b) driven by the regional climate model HCLIM38: evaluation over Finland. In: *Geoscientific Model Development*, Vol. 12, Issue 8, pp 3481-3501 (2019) (DOI:10.5194/gmd-12-3481-2019)

Berg, P.; Christensen, O.; Klehmet, K.; Lenderink, G.; Olsson, J.; **Teichmann, C.**; Yang, W.: Summertime precipitation extremes in a EURO-CORDEX 0.11° ensemble at an hourly resolution. In: *Natural Hazards and Earth System Sciences*, Vol. 19, Issue 4, pp 957-971 (2019) (DOI: 10.5194/nhess-19-957-2019)

Smail, E.A.; DiGiacomo, P.M.; Seeyave, S.; Djavidnia, S.; **Celliers, L.**; Le Traon, P.-Y.; Gault, J.; Escobar-Briones, E.; Plag, H.-P.; Pequignet, C.; Bajona, L.; Zhang, L.; Pearlman, J.; Steven, A.; Hodge, J.; Racault, M.-F.; Storlazzi, C.; Skirving, W.; Hoeke, R.; Marra, J.; van Dongeren, A.; Muller-Karger, F.; Cripe, D.; Takaki, D.: An introduction to the ‘Oceans and Society: Blue Planet’ initiative. In: *Journal of Operational Oceanography*, Vol. 12, Issue 2, pp S1-S11 (2019) (DOI: 10.1080/1755876X.2019.1634959)

Hoegh-Guldberg, O.; **Jacob, D.**; Taylor, M.; **Guillén Bolaños, T.**; Bindi, M.; Brown, S.; Camilloni, I.; Diedhiou, A.; Djalante, R.; Ebi, K.; Engelbrecht, F.; Guiot, J.; Hijjoka, Y.; Mehrotra, S.; Hope, C.; Payne, A.; Pörtner, H.; Seneviratne, S.; Thomas, A.; Warren, R.; Zhou, G.: The human imperative of stabilizing global climate change at 1.5°C. In: *Science*, Vol. 365, Issue 6459, eaaw6974 (2019) (DOI: 10.1126/science.aaw6974)

Mackenzie, B.; **Celliers, L.**; de Freitas Assad, L.; J. Heymans, J.; Rome, N.; Thomas, J.; Anderson, C.; Behrens, J.; Calverley, M.; Desai, K.; Di Giacomo, P.; Djavidnia, S.; dos Santos, F.; Eparkhina, D.; Ferrari, J.; Hanly, C.; Houtman, B.; Jeans, G.; Landau, L.; Larkin, K.; Legler, D.; Le Traon, P.; Lindstrom, E.; Loosley, D.; Nolan, G.; Petihakis, G.; Pellegrini, J.; Roberts, Z.; Siddorn, J.; Smail, E.; Sousa-Pinto, I.; Terrill, E.: The Role of Stakeholders in Creating Societal Value From Coastal and Ocean Observations. In: *Frontiers in Marine Science*, Vol. 6, Issue 137 (2019) (DOI: 10.3389/fmars.2019.00137)

Langendijk, G.; **Rechid, D.**; **Jacob, D.**: Urban Areas and Urban–Rural Contrasts under Climate Change: What Does the EURO-CORDEX Ensemble Tell Us? – Investigating near Surface Humidity in Berlin and Its Surroundings. In: *Atmosphere* [Online Ressource], Vol. 10, Issue 12 (2019) (DOI: 10.3390/atmos10120730)

E Bashmachnikov, I.L.; **Kovalevsky, D.V.**: Exact Solutions and Stability Analysis of a Nonlinear Model of Open-Ocean Deep Convection that Allows Multiple Steady States. In: *Discontinuity, Nonlinearity, and Complexity*, Vol. 8, Issue 2, pp 169-186 (2019) (DOI: 10.5890/DNC.2019.06.005)

Otto, A.; Kellermann, P.; Thieken, A.H.; **Máñez Costa, M.**; **Carmona, M.**; Bubeck, P.: Risk reduction partnerships in railway transport infrastructure in an alpine environment. In: *International Journal of Disaster Risk Reduction*, Vol. 33, pp 385-397 (2019) (DOI: 10.1016/j.ijdr.2018.10.025)

Cremades, R.; Sommer, P.S.: Computing climate-smart urban land use with the Integrated Urban Complexity model (IUCm 1.0). In: *Geoscientific Model Development*, Vol. 12, Issue 1, pp 525-539 (2019) (DOI: 10.5194/gmd-12-525-2019)

Molinari, D.; de Bruijn, K.M.; Castillo-Rodriguez, J.T.; Aronica, G.T.; **Bouwer, L.M.**: Validation of flood risk models: Current practice and possible improvements. In: *International Journal of Disaster Risk Reduction*, Vol. 33, pp 441-448 (2019) (DOI: 10.1016/j.ijdr.2018.10.022)

Bechtel, B.; Alexander, P.J.; Beck, C.; Boehner, J.; Brousse, O.; Ching, J.; Dermuzere, M.; Fonte, C.; Gal, T.; Hidalgo, J.; **Hoffmann, P.**; Middel, A.; Mills, G.; Ren, C.; See, L.; Sismanidis, P.; Verdonck, M.-L.; Xu, G.; Xu, Y.: Generating WUDAPT Level 0 data – Current status of production and evaluation. In: *Urban Climate*, Vol. 27, pp 24-45 (2019) (DOI: 10.1016/j.uclim.2018.10.001)

Langendijk, G.S.; Aubry-Wake, C.; Osman, M.; Gulizia, C.; Attig-Bahar, F.; Behrens, E.; Bertoncini, A.; Hart, N.; Indasi, V.S.; Innocenti, S.; Linden, E.C.van der; Mamnun, N.; Rasouli, K.; Reed, K.A.; Ridder, N.; Rivera, J.; Ruscica, R.; Ukazu, B.U.; Walawender, J.P.; Walker, D.P.; Woodhams, B.J.; Yilmaz, Y.A.: Three Ways Forward to Improve Regional Information for

Extreme Events: An Early Career Perspective. In: *Frontiers in Environmental Science* [Online Ressource], Vol. 7, Issue 6, (2019) (DOI: 10.3389/fenvs.2019.00006)

Williams, D.S.; Máñez Costa, M.; Sutherland, C.; **Celliers, L.;** Scheffran, J.: Vulnerability of informal settlements in the context of rapid urbanization and climate change. In: *Environment and Urbanization*, Vol. 31, Issue 1, pp 157-176 (2019) (DOI: 10.1177/0956247818819694)

Kreibich, H.; Blauhut, V.; Aerts, J.C.J.H.; **Bouwer, L.M.;** Lanen, H.A.J.van; Mejia, A.; Mens, M.; Loon, A.F.van : How to improve attribution of changes in drought and flood impacts. In: *Hydrological Sciences Journal*, Vol. 64, Issue 1, pp 1-18 (2019) (DOI: 10.1080/02626667.2018.1558367)

Dahm, R.; Bhardwaj, A.; Sperna Weiland, F.; Corzo, G.; **Bouwer, L.M.:** A Temperature-Scaling Approach for Projecting Changes in Short Duration Rainfall Extremes from GCM Data. In: *Water* [Online Ressource], Vol. 11, Issue 2 (2019) (DOI: 10.3390/w11020313)

Di Virgilio, G.; Evans, J.P.; Di Luca, A.; Olsen, R.; Argueso, D.; Kala, J.; Andrys, J.; **Hoffmann, P.;** Katzfey, J.J.; Rockel, B.: Evaluating reanalysis-driven CORDEX regional climate models over Australia: model performance and errors. In: *Climate Dynamics*, Vol. 53, pp 2985-3005 (2019) (DOI: 10.1007/s00382-019-04672-w)

Buelow, K.; Huebener, H.; Keuler, K.; Menz, C.; **Pfeifer, S.;** Ramthun, H.; Spekat, A.; Steger, C.; **Teichmann, C.;** Warrach-Sagi, K.: User tailored results of a regional climate model ensemble to plan adaption to the changing climate in Germany. In: *Advances in Science and Research* [Online Ressource], Vol. 16pp 241-249 (2019) (DOI: 10.5194/asr-16-241-2019)

Scherer, D.; Antretter, F.; **Bender, S.;** **Cortekar, J.;** Emeis, S.; Fehrenbach, U.; Gross, G.; Halbig, G.; Hasse, J.; Maronga, B.; Raasch, S.; Scherber, K.: Urban Climate Under Change [UC]2 – A National Research Programme for Developing a Building-Resolving Atmospheric Model for Entire City Regions. In: *Meteorologische Zeitschrift*, Vol. 28, Issue 2, pp 95-104 (2019) (DOI: 10.1127/metz/2019/0913)

Pfeifer, S.; **Rechid, D.;** Reuter, M.; **Viktor, E.;** **Jacob, D.:** 1.5°, 2°, and 3° global warming: Visualizing European regions affected by multiple changes. In: *Regional Environmental Change*, Vol. 19, pp 1777-1786 (2019) (DOI: 10.1007/s10113-019-01496-6)

Hewitt, R.J.; Bradley, N.; Baggio Compagnucci, A.; Barlagne, C.; Ceglarz, A.; **Cremades, R.;** McKeen, M.; Otto, I.M.; Slee, B.: Social Innovation in Community Energy in Europe: A Review of the Evidence. In: *Frontiers in Energy Research* [Online Ressource], Vol.7, Issue 31 (2019) (DOI: 10.3389/fenrg.2019.00031)

Wagenaar, D.J.; Dahm, R.J.; Diermanse, F.L.M.; Dias, W.P.S.; Dissanayake, D.M.S.S.; Vajja, H.P.; Gehrels, J.C.; **Bouwer, L.M.:** Evaluating adaptation measures for reducing flood risk: A case study in the city of Colombo, Sri Lanka. In: *International Journal of Disaster Risk Reduction*, Vol. 37 (2019) (DOI: 10.1016/j.ijdr.2019.101162)

Cremades, R.; Mitter, H.; Tudose, N.C.; Sanchez-Plaza, A.; Graves, A.; Broekman, A.; Bender, S.; Giupponi, C.; Koundouri, P.; **Bahri, M.;** Cheval, S.; **Cortekar, J.;** Moreno, Y.; Melo, O.; Karner, K.; Ungurean, C.; Davidescu, S.O.; Kropf, B.; Brouwer, F.; Marin, M.: Ten principles to integrate the water-energy-land nexus with climate services for co-producing local and regional integrated assessments: In: Science of the Total Environment, Vol. 693 (2019) (DOI: 10.1016/j.scitotenv.2019.133662)

Jacob, D.; **Blome, T.;** **Guillen Bolanos, T.;** **Petersen, J.;** **Preuschmann, S.;** **Steuri, B.:** The report on 1.5°C global warming-relevant aspects for climate services. In: Climate Services, Vol. 15 (2019) (DOI: 10.1016/j.cliser.2019.100105)

Weitere Publikationen

Kotova, L.; **Jacob, D.;** Leissner, J.; Mathis, M.; Mikolajewicz, U.: Climate Information for the Preservation of Cultural Heritage: Needs and Challenges. In :Conference Proceedings, Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage, TMM-CH 2018, Communications in Computer and Information Science, pp 353-359 (2019) (DOI: 10.1007/978-3-030-12957-6_25)

Mechler, R., **Bouwer, L.M.,** Schinko, Th., Surminski, S., Linnerooth-Bayer, J. (Eds.): Loss and Damage from Climate Change : Concepts; Principles and Policy Options. (2019) (DOI: 10.1007/978-3-319-72026-5)

Jacob, D.; **Guillen Bolanos, T.;** **Petersen, J.;** **Preuschmann, S.;** **Steuri, B.;** **Viktor, E.:** Keiner kann mehr sagen, wir hätten von nichts gewusst - Ein Überblick zum Sonderbericht über 1,5 °C globale Erwärmung. In: Mitteilungen (Deutsche Meteorologische Gesellschaft), Issue 2, pp 10-13 (2019)

Guillen Bolanos, T.; **Máñez Costa, M.;** Nehren, U.: Development of a Prioritization Tool for Climate Change Adaptation Measures in the Forestry Sector—A Nicaraguan Case Study. In: Economic Tools and Methods for the Analysis of Global Change Impacts on Agriculture and Food Security, pp 165-177 (2019) (DOI: 10.1007/978-3-319-99462-8_10)

Krefis, A.; Fischereit, J.; **Hoffmann, P.;** Sorbe, C.; Pinnschmidt, H.; Augustin, M.; Augustin, J.: Prädiktoren der Inanspruchnahme von kardiovaskulären und respiratorischen Notfallaufnahmen – welchen Einfluss hat die Umwelt? In: Das Gesundheitswesen : Sozialmedizin, Gesundheits-System-Forschung, public health, öffentlicher Gesundheitsdienst, medizinischer Dienst, online (2019) (DOI: 10.1055/a-1005-7161)

Bender, S.: Einfluss der Erderwärmung auf die Trinkwasserversorgung in Südhessen. In: Inside out : das Hessenwassermagazin, Winter 2019/2020, pp 18-19 (2019)

Pihl, E., Martin, M.A., **Blome, T.,** Hebden, S., Jarzebski, M.P., Lambino, R.A., Köhler, C., Canadell, J.G., Ebi, K.L., Edenhofer, O., Gaffney, O., Rockström, J., Roy, J., Srivastava, L., Payne, D.R., Adler, C., Watts, S., Jacobsson, L., **Sonntag, S.:** 10 New Insights in Climate Science 2019, Future Earth & The Earth League

Groth, M.: Klimapolitik – Stand des Wissens, Zielverfehlungen und Handlungsnotwendigkeiten. In: Wirtschaftsdienst : Zeitschrift für Wirtschaftspolitik, Vol. 99, Issue 12, pp 819-842 (2019) (DOI: 10.1007/s10273-019-2537-2)