

List of Scientific Publications

Peer-reviewed Journals

Soltani, M., Laux, P., Mauder, M., Kunstmann, H. (2018) Spatiotemporal variability and empirical Copula-based dependence structure of modeled and observed coupled water and energy fluxes, *Hydrology Research*, doi: 10.2166/nh.2018.163.

Faya, B. et al. (2018) Impacts of 1.5 versus 2.0°C on cereal yields in the West African Sudan Savanna, *Environmental Research Letters* 13(3):034014.

Phan-Van, T., Nguyen-Xuan, T., Van Nguyen, H., Laux, P., Pham-Thanh, H., Ngo-Duc, T. (2018) Evaluation of the NCEP Climate Forecast System and Its Downscaling for Seasonal Rainfall Prediction over Vietnam, *Weather and Forecasting* 33(3).

Dang, Q.T., Pedroso, R., Laux, P., Kunstmann, H. (2018) Development of an integrated Hydrologic-Agronomic-Economic modeling system for a typical rice irrigation scheme in Central Vietnam, *Agricultural Water Management*, (accepted).

Soltani, M., Mauder, M., Laux, P., Kunstmann, H. (2017) Turbulent flux variability and energy balance closure in the TERENO prealpine observatory: A hydrometeorological data analysis, *Theoretical and Applied Climatology*, doi: 10.1007/s00704-017-2235-1.

Dang, Q.T., Laux, P., Kunstmann, H. (2017) Future high and low flow estimations for Central Vietnam: A hydrometeorological modeling chain approach, *Hydrological Sciences Journal*, doi: 10.1080/02626667.2017.1353696.

Kumar, N., Tischbein, B., Kusche, J., Laux, P., Beg, M., Bogardi, J. (2017) Impact of Climate Change on Water Resources of a Monsoon-dominated Catchment in Chhattisgarh, India, *Journal of Hydrology: Regional Studies*, 13(C):189–207.

Laux, P., Nguyen, P., Cullmann, J., Kunstmann, H. (2016) How many RCM ensemble members provide confidence in the impact of land-use land cover change?, *International Journal of Climatology*, doi:10.1002/joc.4836 (open online).

Kerandi, N. M., Laux, P., Arnault, J., Kunstmann, H. (2016) Performance of the WRF model to simulate the seasonal and interannual variability of hydrometeorological variables in East Africa: A case study for the Tana River basin in Kenya, *Theoretical and Applied Climatology*, doi:10.1007/s00704-016-1890-y (open online).

Soltani, M., Laux, P., et al. (2015) Assessment of climate variations in temperature and precipitation extreme events over Iran, *Theoretical and Applied Climatology*, ISSN: 0177-798X (Print) 1434-4483 (Online first).

Siegmund, J., Bliedernicht, J., Laux, P., Kunstmann, H. (2015) Towards a Seasonal Precipitation Prediction System for West Africa: Performance of CFSv2 and High Resolution Dynamical Downscaling, *Journal of Geophysical Research - Atmospheres*, Volume 120, Issue 15(16), 7316–7339.

Waongo, M., Laux, P., Kunstmann, H. (2015): Adaptation to climate change: the impacts of optimized planting dates on attainable maize yields under rainfed conditions in Burkina Faso. *Agricultural and Forest Meteorology* 205, 23–39.

Mao, G., Vogl, S., Laux, P., Wagner, S., and Kunstmann, H. (2015) Stochastic bias correction of dynamically downscaled precipitation fields for Germany through copula-based integration of gridded observation data, *Hydrology and Earth System Sciences* 19(4), 1787–1806.

Van, T. P., Nguyen, H. V., Tuan, L. T., Quang, T. N., Ngo-Duc, T. Laux, T., and Xuan, T. N. (2014) Seasonal Prediction of Surface Air Temperature across Vietnam Using the

Regional Climate Model Version 4.2 (RegCM4.2), *Advances in Meteorology*, Volume 2014, Article ID 245104, 13 pages.

Waongo, M., Laux, P., Challinor, A.J., Traoré, S.B., Kunstmann, H. (2013) Optimize crop planting date in West Africa: a crop model and fuzzy rule based approach for agricultural decision support, *Journal of Applied Meteorology and Climatology*, 53, 598–613, doi: <http://dx.doi.org/10.1175/JAMC-D-13-0116.1>.

Souvignet, M., Laux, P., Thinh, D.Q., Thuc, T., Cullmann, J., Nauditt, A., Flügel, W.A., Kunstmann, H., Ribbe, L., Freer, J. (2013) Recent climatic trends and linkages to discharge in Central Vietnam, *Hydrological Processes*. doi: 10.1002/hyp.9693.

Sanchez-Lorenzo, A., Laux, P., Hendricks-Franssen, H.-J., Calbó, J.; Vogl, S., Georgoulas, A.K., Quaas, J. (2012) Assessing large-scale weekly cycles in meteorological variables: a review. *Atmospheric Chemistry and Physics*, 12, 5755–5771. doi: 10.5194/acp-12-5755-2012.

Lutz, K., Jacobeit, J., Philipp, A., Seubert, S., Kunstmann, H., Laux, P. (2012) Comparison and evaluation of statistical downscaling techniques for station-based precipitation in the Middle East. *International Journal of Climatology*, 32 (2012), 1579–1595. doi:10.1002/joc.2381.

Vogl, S., Laux, P., Qiu, W., Ganquan M., and Kunstmann, H. (2011) Copula-based assimilation of radar and gauge information to derive bias corrected precipitation fields, *Hydrol. Earth Syst. Sci.*, 16, 2311–2328, 2012. www.hydrol-earth-syst-sci.net/16/2311/2012/, doi:10.5194/hess-16-2311-2012.

Laux, P., Vogl, S., Qiu, W., Knoche, H. R., and Kunstmann, H. (2011) Copula-based statistical refinement of precipitation in RCM simulations over complex terrain, *Hydrol. Earth Syst. Sci.*, 15, 2401–2419, 2011. www.hydrol-earth-syst-sci.net/15/2401/2011/, doi:10.5194/hess-15-2401-2011.

Laux, P., Jäckel, G., Munang, R.-T., Kunstmann, H. (2010) Impact of climate change on agricultural productivity under rainfed conditions in Cameroon - A method to improve attainable crop yields by planting date adaptations, *Agricultural and Forest Meteorology* 150, 1258–1271, doi:10.1016/j.agrformet.2010.05.008.

Laux, P., Wagner, S., Wagner, A., Bárdossy, A., Jacobeit, J., Kunstmann, H. (2009) Modelling Daily Precipitation Features in the Volta Basin of West Africa, *International Journal of Climatology*, 29(7): 937–954, doi:10.1002/joc.1852.

Laux, P., Kunstmann, H. (2008) Detection of regional weekly weather cycles across Europe, *Environmental Research Letters* (3), doi:10.1088/1748-9326/3/4/044005.

Laux, P., Kunstmann, H., Bárdossy, A. (2008) Predicting the Regional Onset of the Rainy Season in West Africa, *International Journal of Climatology*, 20(3), 329–342, doi:10.1002/joc.1542.

Neumann, R., Jung, G., Laux, P., Kunstmann, H. (2007) Climate trends of temperature, precipitation and river discharge in the Volta Basin of West Africa, *International Journal of River Basin Management*; 5(1): 17–30.

Books, Book Chapters, and Conference Proceedings

Laux, P., Fink, M., Waongo, M., Pedroso, R., Salvini, G., Tran, D. H., Dang, T., Cullmann, J., Flügel, W.-A., Kunstmann, H. (2017) Hydrological and agricultural impacts of climate change in the Vu Gia-Thu Bon river basin in Central Vietnam, In: Nauditt,

A. & Ribbe, Lars (eds.), *Water Resources Development and Management* series, Springer Singapore, pp. 123–142.

Laux, P., Nguyen, N.B.P., Cullmann, J., Kunstmann, H., (2017) Impacts of land-use/land-cover change and climate change on the regional climate in Central Vietnam, In: Nauditt, A. & Ribbe, Lars (eds.), *Water Resources Development and Management* series, Springer Singapore, pp. 143–151.

Fink, M., Fischer, C., Laux, P., Tünschel, H., Meinhardt, M. (2017) Distributed Assessment of Sediment Dynamics in Central Vietnam. In: Nauditt A., Ribbe L. (eds.), *Water Resources Development and Management* series, Springer Singapore, pp. 189–200.

Nguyen, P. N. B., Laux, P., Cullmann, J., Kunstmann, H. (2016) Do We Have to Update the Land-Use/Land-Cover Data in RCM Simulations? A Case Study for the Vu Gia-Thu Bon River Basin of Central Vietnam. High Performance Computing in Science and Engineering ' 15, Conference Proceedings, Wolfgang E. Nagel, Dietmar B. Kröner, Michael M. Resch (Eds.), Springer, pp 623–635.

Fink, M., Fischer, C., Führer, N., Firoz, , A.M.B., Viet, T.Q., Laux, P., and Flügel, W.-A. (2014) Distributed Hydrological Modeling of a Monsoon Dominated River System in Central Vietnam, Proceedings of the 20th International Congress on Modelling and Simulation, Adelaide, Australia, 1–6 December 2013.

Laux, P., Thuc, T., Kunstmann, H. (2013) High Resolution Climate Change Information for the Lower Mekong River Basin of Southeast Asia. High Performance Computing in Science and Engineering ' 13, Conference Proceedings, Wolfgang E. Nagel, Dietmar B. Kröner, Michael M. Resch (Eds.), Springer, pp 543–551.

Laux, P., Phan, V.T., Lorenz, Ch., Thuc, T., Ribbe, L., Kunstmann, H. (2012) Setting up Regional Climate Simulations for Southeast Asia. High Performance Computing in Science and Engineering ' 12, Conference Proceedings, Wolfgang E. Nagel, Dietmar B. Kröner, Michael M. Resch (Eds.), Springer, pp 391–406.

Sanchez-Lorenzo, A., Laux, P., Hendricks-Franssen, H.J., Georgoulas, A.K., Calbó, J., Vogl, S., Quaas, J. (2012) Weekly Cycles in Meteorological Variables Over Large-Scales: Fact or Myth? Helmis, C.G. et. al. (eds.): *Advances in Meteorology, Climatology and Atmospheric Physics*, Springer-Verlag, Berlin Heidelberg, 2013, 1211–1218, doi:10.1007/978-3-642-29172-2, ISBN 978-3-642-29171-5.

Laux, P., Jäckel, G., Tingem, M., Kunstmann, H. (2009) Onset of the rainy season and crop yield in Sub Saharan Africa - Tools and perspectives for Cameroon. Thoms, M. et al. (eds): *Ecohydrology of Surface and Groundwater Dependent Systems: Concepts, Methods and Recent Developments*, Hyderabad, India, September 6-12, 2009. IAHS Publication 328, 191–201.

Laux, P., Kunstmann, H., Lutz, K., Jacobeit, J., Beck, C., Philipp, A., Bárdossy, A. (2008) Comparison of different objective atmospheric circulation pattern analyses in the Jordan region. IAHS Publication, Hyderabad, India, September 6-12.

Laux, P., Heckl, A., Jacobeit, J., Bárdossy, A., Kunstmann, H. (2008) Linking droughty and wet weather in the Jordan region with atmospheric circulation patterns; Rodríguez, J.S. et al. (eds): 'Cambio Climático Regional y Sus Impactos' VI Congreso Internacional de la Asociación Española de Climatología; Tarragona, Spain, October 8-11, 2008. Publicaciones de la Asociación Española de Climatología (AEC), Serie A, No. 6, 2008, pp 375–386. ISBN 978-84-612-6051-5.

van de Giesen, N., Andah, W., Andreini, M., Barry, B., Jung, G., Kunstmann, H., Laube, W., Laux, P., Liebe, J. (2008) Adapting to Climate Change in West Africa. Ex-

poZaragoza2008, Semana temática: Cambio Climático y Fenómenos Extremos (Climate Change and Water Extremes), Zaragoza, Spain, July 21 to 23, 2008.

Laux, P., Kunstmann, H., Lutz, K., Jacobeit, J., Beck, C., Philipp, A., Bárdossy, A. (2008) Comparison of different objective atmospheric circulation pattern analyses in the Jordan region. HydroPredict 2008, International Interdisciplinary Conference on Predictions for Hydrology, Ecology and Water Resources Management, Prague, Czech Republic, September 15-18, 2008. IAHS-Publication (CD-ROM).

Laux, P., Kunstmann, H., Bárdossy A. (2007) Linking the West African monsoon's onset with atmospheric circulation patterns. Boegh, E. (ed.): Quantification and Reduction of Predictive Uncertainty for Sustainable Water Resources Management; Proceedings International Symposium during IUGG2007, 24th General Assembly of the International Union of Geodesy and Geophysics, Perugia, Italy, July 2-13, 2007. IAHS Publication 313, 40–50.

Non-peer-reviewed Publications

Laux, P. (2009) Statistical modeling of precipitation for agricultural planning in West Africa, Mitteilungen/Institut für Wasserbau, Universität Stuttgart, Heft 179, 198 pages, ISSN 0343-1150.

Laux, P., Kunstmann, H. (2008) Predicting the Onset of the Rainy Season in the Volta basin. Gustard, A. (ed.) In: Glowa: Globaler Wandel des Wasserkreislaufs, IHP/HWRP-Berichte, Heft 7, 52–53, ISSN 1614-1180.

Laux, P. (2003) Quantifizierung chemischer Parameter anhand von Sedimentreflexions -spektren des Olewiger Baches (Region Trier) - Methodenvergleich PLS-Regression (PLSR) vs. Künstliche Neuronale Netze (ANN). Diploma thesis, 144 pages, ISBN-10:383247904X.

Oral Presentations

Kunstmann, H., Warscher, M., Laux, P., Wagner, S., Lotz, A. (2018) Very High Resolution Regional Climate Simulations for Germany and the Alpine Space: Optimized Model Setup, Performance in High Mountain Areas and Expected Future Climate, EGU 2018, April 8-13, Vienna, Austria.

Laux, P. (2018) Overview of IMK-IFU's Research Activities in Africa, German-Ethiopian SDG Graduate School *Climate Change Effects on Food Security* (CLIFOOD), Block Seminar 3: Climate and Modeling, University of Hohenheim, March 22-28, 2018 (**invited**). Bliefernicht, J., Waongo, M., Annor, T., Laux, P., Lorenz, M., Salack, S., Kunstmann, H. (2017) A precipitation database of station-based daily and monthly measurements for West Africa: Overview, quality control and harmonization, EGU 2017, April 23th to April 28th April, Vienna, Austria.

Laux, P., Nguyen, N.B.P., Cullmann, J., Kunstmann, H. (2016) Separation of land-use change induced signals from noise by means of evaluating perturbed RCM ensembles: Assessing the potential impacts of urbanization and deforestation in Central Vietnam, EGU 2016, April 18th to April 22th May, Vienna, Austria.

Laux, P., Dang, T., Kunstmann, H. (2016) Expected climate change impacts on extreme flows in Vietnam: The limits of bias correction techniques, PICO presentation at EGU 2016, April 18th to April 22th May, Vienna, Austria.

Bliefernicht, J., Siegmund, J., Seidel, J., Arnold, H., Waongo, M., Laux, P., Kunstmann, H. (2016) Forecasting droughts in West Africa: Operational practice and refined seasonal precipitation forecasts, EGU 2016, April 18th to April 22th May, Vienna, Austria.

Laux, P. et al.: Summary of Activities Climate Cluster (2015), LUCCi Workshop, March 23, TamKy, Vietnam.

Laux, P.: BMBF-LUCCi climate simulations and potential applications for agriculture, Workshop on *Disaster Risk Management on the river basin scale and drought impacts on irrigation management*, held at Vietnam Academy for Water Resources (VAWR), April 30, 2014, Hanoi, Vietnam (**invited**).

Laux, P., Dang, T.: LUCCi Climate Cluster Progress, LUCCi stakeholder conference from March, 24th to 27th, 2014, TamKy and DaNang, Vietnam.

Laux, P.: LUCCi Climate Data: Availability, Reliability, Usage. LUCCi stakeholder conference, 24th to 27th March 2014, TamKy and DaNang, Vietnam.

Bliefernicht, J., Laux, P., Waongo, M., Annor, T., and Kunstmann, H.: Performance analysis of spatial interpolation techniques for daily precipitation amount and further precipitation indices for a data sparse region, EGU, 28th April to May 2nd, 2014, Vienna, Austria.

Laux, P.: High-resolution climate information for Southeast Asia for climate impact modelers. Mekong Environmental Symposium 2013, Ho Chi Minh City, Vietnam, March 05–07, 2013.

Laux, P.: Short introduction to WP1: Climate variability and seasonal prediction in East Africa. 2nd RICE-EA Workshop at KIT, IMK-IFU, Garmisch-Partenkirchen, June 13–15, 2012.

Bliefernicht, J., Kunstmann, H., Laux, P., Waongo, M., Bleher, B.E.: Seasonal climate and regional weather forecasts within the West African Science Service Centre on Climate Change and Adapted Land Use. PRESAO-15, Regional Climate Outlook Forum, Ouagadougou, Burkina Faso, May 24–25, 2012.

Sanchez-Lorenzo, A., Laux, P., Hendricks-Franssen, H.J., Georgoulas, A.K., Calbó, J., Vogl, S., Quaas, J.: Weekly cycles in meteorological variables over large scales: fact or myth? 11th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2012), Athens, Greece, May 29–June 1, 2012.

Vogl, S., Laux, P., Qiu, W., Mao, G., Kunstmann, H.: Copula-based assimilation of radar and gauge information to derive bias corrected precipitation fields. European Geosciences Union General Assembly 2012, Vienna, Austria, April 22–27, 2012.

Laux, P.: Regional Climate and Hydrology Research at KIT/IMK-IFU. Seminar presentation, Meteorological Department, Vietnam National University, Hanoi, Vietnam, March 14, 2012 (**invited**).

Laux, P., Kunstmann, H., Jäckel, G., Munang, T.R.: Linking seasonal and long-term climate information to agricultural productivity – A case study for Central Africa. RICE-EA Workshop 'Food Security in East Africa: Steering Rice Production towards Climate Resilience', Nairobi, Kenya, April 17–19, 2012.

Waongo, M., Laux, P., Kunstmann, H.: Calibration and application of a spatially distributed process-based crop model: A case study for maize cropping in Burkina Faso. PICREVAT Workshop 'Predictability of climatic information to reduce the vulnerability of Tropical Agriculture', Embu, Kenya, February 20–22, 2012.

Laux, P., Cullmann, J., Thinh, D., Souvignet, M.: Activities and first results of WP3

- (Climate Research). LUCCi Stakeholder Workshop, Tam Ky, Vietnam, March 5–8, 2012.
- Laux, P.: State-of-the-art in climate modelling and CC impact analysis in EA. RICE-EA Workshop 'Food Security in East Africa: Steering Rice Production towards Climate Resilience', Nairobi, Kenya, April 17–19, 2012.
- Laux, P., Waongo, M., Kunstmann, H., Jäckel, G., Munang, T.R. A new method to improve attainable crop yield by planting date adaptations - A case study for Cameroon. PICREVAT Workshop 'Predictability of climatic information to reduce the vulnerability of Tropical Agriculture', Embu, Kenya, February 20–22, 2012.
- Vogl, S., Laux, P., Kunstmann, H.: Local Refinement and Bias Correction of Regional Climate Simulations through Copulas. Geographical Colloquium at University Augsburg (Department Physical Geography), Augsburg, Germany, May 9, 2011.
- Bliefernicht, J., Bárdossy, A.; Kunstmann, H.; Laux, P.: Robust identification of rare atmospheric states for statistical downscaling of hydro-meteorological extremes. Geophysical Research Abstracts, 13 (2011), EGU2011-10820. European Geosciences Union General Assembly (EGU 2011), Vienna, Austria, April 3–8, 2011.
- Vogl, S., Laux, P., Kunstmann, H.: Local Refinement and Bias Correction of Regional Climate Simulations through Copulas. Workshop - Klimaforschung des Bayerischen Staatsministeriums für Umwelt und Gesundheit, Munich, Germany, January 26, 2011.
- Vogl, S., Laux, P., Kunstmann, H.: Bias Correction of Regional Climate Simulations. 2nd workshop on uncertainties and bias correction, Hamburg, Germany, August 31, 2011.
- Laux, P.: Climate downscaling and modeling for the region of Central Vietnam. LUCCi-Stakeholder Workshop, Hanoi, Vietnam, October, 25–30, 2010 (**invited**).
- Laux, P.: Climate change impacts: challenges and opportunities for a German-Nigerian collaboration and it's regional agricultural and hydrological impacts for West Africa: Challenges and opportunities German-Nigerian collaboration. Lagos State Maiden Summit on Climate Change, Reclaiming the Environment: Challenges and Consequences of Climate Change, Lagos, Nigeria, March 23–27, 2009 (**invited**).
- Kunstmann, H., Jung, G., Laux, P., Wagner, S., Knoche, R., Marx, A., Bárdossy, A., Paeth, H., Fink, A., Christoph, M., Born, K., Krüger, A., Diederich, M., Brücher, T., Heuer, K.O., Piecha, K., Ermert, V., Knippertz, P., Schulz, O., Speth, P., Kerschgens, M., Simmer, C.: Climate Variability and Change in Sub-Saharan and Northwestern Africa. Global Change and Water Resources in West Africa - The German-African GLOWA Projects, International Conference, Ouagadougou, Burkina Faso, August 25–28, 2008.
- Laux, P., Kunstmann, H., Bárdossy, A.: Predicting the Regional Onset of the Rainy Season (ORS) in the Volta Basin. Global Change and Water Resources in West Africa. The German-African GLOWA Projects, International Conference, Ouagadougou, Burkina Faso, August 25–28, 2008. (**invited**)
- Kunstmann, H., Wagner, S., Jung, G., Laux, P., Clottey, H.: A new hydrometeorological decision support system for sustainable water management in the Volta basin. GLOWA-Volta Incentive Workshop, Accra, Ghana, September 25, 2006.
- Kunstmann, H., Wagner, S., Jung, G., Laux, P., Clottey, H.: Integration of atmospheric sciences and hydrology for the development of decision support systems in sustainable water management. European Geosciences Union General Assembly 2006, Vienna, Austria, April 2–7, 2006.
- Laux, P., Kunstmann, H.; Bárdossy, A.: Analysis of the monsoon onset in the Volta basin of West Africa. EGU General Assembly 2006, Vienna, Austria, March 3–7, 2006.

Poster Presentations

Laux, P., Lorenz, Ch., Portele, T., Samaniego, L., Shrestha, P., Thober, S., Bürger, G., Bronstert, G., Bliefernicht, J., Kunstmann, H., Martins, E. (2018) Performance of global seasonal precipitation forecasts across semi-arid regions, EGU 2018, April 8-13, Vienna, Austria.

Dieng, D., Laux, P., Heinzeller, D., Smiatek, G., Bliefernicht, J., Sarr, A., Gaye, A.T., Kunstmann, H. (2018) Assessment of meteorological droughts across West Africa using two different regional climate models, EGU 2018, April 8-13, Vienna, Austria.

Hald, C., Mauder, M., Laux, P., Zeeman, M., Kunstmann, H. (2018) WRF-LES simulations of real episodes in complex terrain and comparison with height-resolving ground-based remote sensing data, EGU 2018, April 8-13, Vienna, Austria.

Laux, P. (2018) Ensemble subsetting for dynamical downscaling of global seasonal climate predictions: Evaluation for selected semi-arid regions, Using ECMWF's Forecasts (UEF2018), June 5th to 8th, Reading, UK.

Soltani, M., Kunstmann, H., Laux, P., and Mauder, M. (2017) Joint modeling and behavior of the water- and energy fluxes between the atmosphere and the land surface in the TERENO pre-alpine region, EGU 2017, April 23th to April 28th April, Vienna, Austria.

Hald, C., Mauder, M., Laux, P., Kunstmann, H. (2017) High-resolution WRF-LES simulations for real episodes: A case study for prealpine terrain, EGU 2017, April 23th to April 28th April, Vienna, Austria.

Warscher, M., Wagner, S., Laux, P., Smiatek, G., Kunstmann, H. (2017) High-resolution dynamical downscaling of reanalysis data and coupling to a distributed hydrological model in high alpine terrain – a case study in the Berchtesgaden Alps, EGU 2017, April 23th to April 28th April, Vienna, Austria.

Lorenz, M., Bliefernicht, J., Laux, P., Kunstmann, H. (2017) Bias correction of daily precipitation projected by the CORDEX-Africa ensemble for a sparsely gauged region in West Africa with regionalized distribution parameters, EGU 2017, April 23th to April 28th April, Vienna, Austria.

Kerandi, N., Arnault, J., Laux, P., Wagner, S., Kithaka, J., Kunstmann, H. (2017) Joint atmospheric-terrestrial water balances for East Africa: A WRF-Hydro case study for the upper Tana River basin, EGU 2017, April 23th to April 28th April, Vienna, Austria.

Bliefernicht, J., Seidel, J., Salack, S., Waongo, M., Laux, P., Kunstmann, H. (2017) The quality and value of seasonal precipitation forecasts for an early warning of large-scale droughts and floods in West Africa, EGU 2017, April 23th to April 28th April, Vienna, Austria.

Dieng, D., Smiatek, G., Bliefernicht, J., Laux, P., Heinzeller, D., Kunstmann, H., Sarr, A., Gaye, A.T. (2017) Evaluation of high-resolution climate simulations for West Africa using COSMO-CLM, EGU 2017, April 23th to April 28th April, Vienna, Austria.

Kerandi, N., Laux, P., Arnault, J., Kunstmann, H. (2016) Investigating the terrestrial-atmospheric water balance for the Tana River basin, East Africa, EGU 2016, April 18th to April 22th May, Vienna, Austria.

Soltani, M., Mauder, M., Laux, P., Kunstmann, H. (2016) Observational analysis of the atmosphere–land surface interactions over the TERENO pre-alpine region, EGU 2016, April 18th to April 22th May, Vienna, Austria.

Nguyen, P. N. B., H. Laux, P., Cullmann, J., Kunstmann, H. (2016) Biogeophysical im-

pacts of land surface on regional climate in Central Vietnam, HLRS–Workshop 2016, October 13–14, Stuttgart, Germany.

Montzka, C., Lorenz, Ch., Jagdhuber, T., Laux, P., Hajnse, I., Kunstmann, H., Entekhabi, D., Vereecken, H. (2015) Investigating Baseline, Alternative and Copula-based Algorithm for combining Airborne Active and Passive Microwave Observations in the SMAP Context, AGU 2015, San Francisco, USA, December, 14–18, 2015.

Dang, T., Laux, P., Kunstmann, H., Pedroso, R. (2015) P4: Coupled hydrological - economic modeling for optimal agricultural cultivation in the VuGia-ThuBon river basin, Central Vietnam, LUCCi Workshop, March 23, TamKy, Vietnam.

Laux, P., Waongo, M., Pedroso, R., Kunstmann, H. (2015) P3: Analyzing the impacts of climate change on attainable groundnut yields under rainfed conditions in Central Vietnam, LUCCi Workshop, March 23, TamKy, Vietnam.

Nguyen, P., Cullmann, J., Kunstmann, H., Laux, P., Dang, T., Schultz, M., Avitabile, V., Ribbe, L. (2015) P2: The impacts of land use land cover change on climate in the Vu Gia – Thu Bon river basin in Central Vietnam, LUCCi Workshop, March 23, TamKy, Vietnam.

Laux, P., Nguyen, P., Dang, T., Cullmann, J., Phan, V.T., Tran, T., Kunstmann, H. (2015) P1: High-resolution climate modeling for Central Vietnam: Recommendations for impact modelers and information for stakeholders, LUCCi Workshop, March 23, TamKy, Vietnam.

Laux, P., Kunstmann, H., Cullmann, J., Tran, T., Nguyen, P., Dang, T., Pedroso, R., Ribbe, L. (2015) Methods and Activities of the Climate Cluster: An Overview, LUCCi Workshop, March 23, TamKy, Vietnam.

Bliefernicht, J., Laux, P., Waongo, M., Kunstmann, H. (2015) Seasonal precipitation forecasts for selected regions in West Africa using circulation type classifications in combination with further statistical approaches – Conceptual framework and first results, EGU 2015, Vienna, Austria.

Waongo, M., Laux, P., Kunstmann, H. (2014) Crop planting date optimization: An approach for climate change adaptation in West Africa, EGU 2014, April 28th to May 2nd May, Vienna, Austria. Winner *Outstanding Student Poster (OSP) Awards 2014*.

Mao, G., Vogl, S., Laux, P., Wagner, S., Kunstmann, H. (2014) Local refinement of RCM simulations based on the theory of Copulas: An application to bias correct WRF precipitation for Germany, EGU 2014, April 28th to May 2nd May, Vienna, Austria.

Mao, G., Vogl, S., Laux, P., Wagner, S., Kunstmann, H. (2014) Copula-based Bias Correction of RCM Derived Precipitation Assimilating REGNIE Data, 11th International Precipitation Conference, June 30th July 3rd, 2013, Ede-Wageningen, The Netherlands.

Laux, P., Nguyen, P., Dang, T., Cullmann, J., Phan, V.T., Tran, T., Nauditt, A., Ribbe, L., Zander, F., Flügel, W. (2014) High-resolution Climate Information for the Vu Gia-Thu Bon River Basin (1961-2050) for Climate Impact Modelers, LUCCi stakeholder conference, 24th to 27th March 2014, TamKy and DaNang, Vietnam.

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