SaWaM Publications

Date: 01.07.2020

2020

Titel	Autoren	Typ
A semi-objective circulation pattern classification scheme for the semi-arid Northeast Brazil. *International Journal of Climatology,* 1 – 22, doi: 10.1002/joc.6608	P. Laux, B. Böker, E. S. Martins, F. C. V. Junior, V. Moron, T. Portele, C. Lorenz, A. Philipp, H. Kunstmann	Artikel
A seamless filter for daily to seasonal forecasts, with applications to Iran and Brazil, *Quarterly Journal of the Royal Meteorological Society*, **146**, 240 – 253, doi: 10.1002/qj.3670	G. Bürger	Artikel
Mesoscale Mapping of Sediment Source Hotspots for Dam Sediment Management in Data-Sparse Semi-Arid Catchments, *Water*, **12**, 396, doi: 10.3390/w12020396	A. Smetanová, A. Müller, M. Zargar, M. A. Suleiman, F. R. Gholami, M. Mousavi	Artikel
Towards improved disaster preparedness and climate proofing in semi-arid regions: development of an operational seasonal forecasting system, EGU 2020, 4. – 8.5.2020, Vienna, Austria, doi: 10.5194/egusphere-egu2020-20290	C. Lorenz, T. Portele, P. Laux, H. Kunstmann	Konferenzbeitrag
Proactive Drought and Extreme Event Preparedness: Seasonal Climate Forecasts offer Benefit for Decision Making in Water Management in Semi-arid Regions, EGU 2020, 4. – 8.5.2020, Vienna, Austria, doi: 10.5194/egusphere-egu2020-16179	T. Portele, C. Lorenz, B.Dibrani, P. Laux, J. Bliefernicht, H. Kunstmann	Konferenzbeitrag
Towards scale independent hydrological forecasting in regulated semi-arid regions. EGU 2020, 4. – 8.5.2020, Vienna, Austria, doi: https://presentations.copernicus.org/EGU2020/EGU2020-6047_presentation.pdf	P.K. Shrestha, C. Lorenz, H. Najafi, S. Thober, O. Rakovec, L. Samaniego	Konferenzbeitrag
Model chain for radar-based drought monitoring for Ecuador. Apr 2020 (on-going)	L.S. Quinônes, P.K. Shrestha, S. Thober, A. Koppa, L. Samaniego	Zusammenarbeit, Praxistransfer
Downscaling comparison for seasonal predictions	G. Bürger, C. Lorenz, T. Portele	Artikel (in preparation)
Satellite time series analysis of vegetation dynamics for water resources management in semi-arid regions, EGU 2020, doi: 10.5194/egusphere-egu2020-16520	R. Behling, S. Roessner, S. Foerster	Konferenzbeitrag
Evaluation of long-term and seasonal trends of modelled and monitored vegetation variables in two semi-arid catchments	C. Mihalyfi-Dean	Bachelorarbeit
Identification of droughts from monitored and modelled vegetation condition for improved water management in semi-arid areas, EGU 2020, https://doi.org/10.5194/egusphere-egu2020-18580	A. Bayer, C. Mihalyfi-Dean, R. Behling, C. Lorenz, S. Foerster, S. Roessner, A. Arneth	Konferenzbeitrag
Sensitivity analysis and case studies for hydrological modelling with WASA-SED in selected sub-basin areas of Karun-Dez catchment, Iran, Bachelorarbeit, Institut für Umweltwissenschaften und Geographie, Universität Potsdam	J. Diether	Bachelorarbeit
Statistische Analyse und Vergleich globaler und regionaler Niederschlagsdaten für die hydro-sedimentologische Modellierung des Dez- & Karun-Einzugsgebiets, Iran, Bachelorarbeit, Institut für Umweltwissenschaften und Geographie, Universität Potsdam	J. Geißler	Bachelorarbeit (in preparation)
Hydrological modelling of the Rio São Francisco catchment, Brazil, with WASA-SED, Masterarbeit, Institut für Umweltwissenschaften und Geographie, Universität Potsdam	P. Voit	Masterarbeit (in preparation)
The Significance of Reservoir Sedimentation for Water Security in Semi-arid Regions, *Water Security*	A. Müller, A. Bronstert, M.A. Suleiman	Artikel (in preparation)
Hydro-sedimentological modelling of the Karun and Dez catchment, Iran	A. Müller, A. Bronstert, T. Francke, J. Diether, M. Zargar, M. Mousavi	Artikel (in preparation)

2019

Titel	Autoren	Typ
Seasonal basin scale runoff forecast: Development of a Kalman filter based system within an operational online framework, Masterarbeit, IMK-IFU, Karlsruher Institut für Technologie	M. Borne	Masterarbeit
Climate-proofing for the hydropower sector: Opportunities and challenges using state-of-the-art seasonal predictions, 6th International Conference on Energy and Meteorology, Copenhagen, Denmark	C. Lorenz, T. Portele, P. Laux, M. Borne, L. Samaniego, P. K. Shrestha, T. Kukuk, Y. Shafaghi, H. Kunstmann	Konferenzbeitrag
Global information. For the regional water management: opportunities and challenges, International River Engineering Conference, Ahvaz, Iran	C. Lorenz, T. Portele	Konferenzbeitrag
Operational seasonal forecasting for improved disaster preparedness in semi-arid regions, Ahvaz, Iran	C. Lorenz, T. Portele	Konferenzbeitrag
Regionalized global and seasonal information for the transboundary water management: Examples from the Tekeze-Atbara and Blue Nile Basins, Tekeze-Atbara Conference on Water Related Studies, Khartoum, Sudan	C. Lorenz, T. Portele, P. K. Shrestha, M. A. Hassan, M. Osman, L. Samaniego, P. Laux, H. Kunstmann	Konferenzbeitrag
Using seasonal forecasts to support climate proofing and water management in semi-arid regions, GRoW Status Conference, Frankfurt, Germany	C. Lorenz, SaWaM-Team	Konferenzbeitrag
Estimating High Spatio-Temporal Resolution Rainfall from MSG1 and GPM IMERG Based on Machine Learning: Case Study of Iran, *Remote sensing*, **11**, 2307, doi: 10.3390/rs11192307	N. Turini, B. Thies, J. Bendix	Artikel
Seasonal Forecasts for Water Management in Semi-arid Regions: Evaluation of Performance Metrics, IUGG General Assembly 2019, Montréal, Canada	T. Portele, C. Lorenz, H. Kunstmann	Konferenzbeitrag
One-way Coupled Model Chain for Seasonal Predictions of Hydrometeorological Extreme Events: Concept and Focus on Meteorological Regionalization, EGU 2019, Vienna, Austria	T. Portele, C. Lorenz, P. Laux, H. Kunstmann	Konferenzbeitrag
Ensemble-basierte saisonale Vorhersagen für die Untersützung des Wassermanagements in semi-ariden Regionen – von globaler zu regionaler Information, DACH 2019, Garmisch-Partenkirchen, Germany	T. Portele, C. Lorenz, P. Laux, H. Kunstmann	Konferenzbeitrag
Comprehensible modeling of reservoir regulation effect on streamflow with a scalable lake-hydrology model. American Geophysical Union General Assembly (AGU) 2019. 9 - 13 Dec 2019, San Francisco. AGU abstract book - https://agu.confex.com/agu/fm19/meetingapp.cgi/Paper/534735	P.K. Shrestha, L. Samaniego, O. Rakovec, R. Kumar, F.V. Junior, E. Martins, S. Thober	Konferenzbeitrag
Towards Scale Independent Lake/Dam-hydrology Modelling in Seasonal Forecasting of Semi-arid Regions. International Union of Geodesy and Geophysics (IUGG) General Assembly. 8 – 18 Jul 2019, Montreal. IUGG abstract book - http://iugg2019montreal.com/assets/iugg2019-abstracts.zip	P.K. Shrestha, L. Samaniego, S. Thober, C. Lorenz, S. Behnia, T. Portele, P. Laux, R. Kumar, O. Rakovec	Konferenzbeitrag
Seasonal Water Resources Management in semi-arid Regions: Application-oriented Transfer of Regionalized Global Information, SaWaM Kickoff-Meeting, 12.05. – 20.05.2019, Loja, Ecuador	H. Kunstmann, SaWaM-Team	Konferenzbeitrag
Towards scale independent lake-hydrology modeling in semi-arid regions: mHM lake module (mLM). European2 Geosciences Union General Assembly (EGU) 2019. 7 - 12 Apr 2019, Vienna. https://meetingorganizer.copernicus.org/EGU2019/EGU2019-8054.pdf	P.K. Shrestha, L. Samaniego, S. Thober, R. Kumar, S. Behnia, F.V. Junior, E. Martins, O. Rakovec	Konferenzbeitrag
SaWaM Mid-Term Meeting, 10.12. – 11.12.2017, Garmisch-Partenkirchen, Germany	SaWaM-Team	Workshop
Large Area Precipitation and Vegetation Dynamics in the Republic of Sudan from Remotely Sensed Time Series, Masterarbeit, GFZ-Potsdam.	E. H. Amegashie	Masterarbeit
Satellite remote sensing for better understanding of Earth surface dynamics in relation to extreme hydro-meteorological events – Introduction, National Conference on 2019 Flood; Will it happen again?, Ahvaz, Iran.	S. Roessner, R. Behling, S. Foerster	Konferenzbeitrag
Optical Remote Sensing Analysis of Surface Cover Dynamics, National Conference on 2019 Flood; Will it happen again?, Ahvaz, Iran.	R. Behling, S. Roessner, S. Foerster	Konferenzbeitrag
Ground surface response to continuous compaction of aquifer system in Tehran, Iran: Results from a long-term multi-sensor InSAR analysis. - *Remote Sensing of Environment*, 221, 534-550. doi: 10.1016/j.rse.2018.11.003	M. Haghshenas Haghighi, M. Motagh	Artikel
Geoökologische Charakterisierung des Rio São Francisco Einzugsgebiets, Brasilien, inklusive aktueller Wasserbewirtschaftungsmaßnahmen,	J.K.P. Hurtig	Bachelorarbeit

Bachelorarbeit, Institut für Umweltwissenschaften und Geographie, Universität Potsdam		
WASA-SED Modell, Modellcodeerweiterung zur Einbeziehung von Stauseen in großskaligen Einzugsgebieten, Software-Publikation (Fortran-Code), Institut für Umweltwissenschaften und Geographie, Universität Potsdam. GitHub: https://github.com/TillF/WASA-SED	T. Francke, A. Müller	Software-Publikation

2018

Titel	Autoren	Typ
Seasonal predictions for the water management: from global data to regional decision support – First results for the Rio São Francisco basin from the SaWaM-project, 8th World Water Forum, Brasília, Brazil	C. Lorenz, SaWaM-Team	Konferenzbeitrag
Water management in semi-arid regions using seasonal predictions, 8th World Water Forum, Brasília, Brazil	C. Lorenz, SaWaM-Team	Konferenzbeitrag
Seasonal predictions for the water management: from global data to regional decision support, 8th World Water Forum, Brasília, Brazil	C. Lorenz, SaWaM-Team	Konferenzbeitrag
Climate Proofing: Seasonal Predictions and Options for Water Resources Management in semi-arid regions, COP24, 3. – 14.12.2018, Katowice, Poland	H. Kunstmann, C. Lorenz	Konferenzbeitrag
Seasonal Water Resources Management in semi-arid Regions: Application-oriented Transfer of Regionalized Global Information, SaWaM Kickoff-Meeting, 21. – 22.06.2018, Khartoum, Sudan	SaWaM-Team	Workshop
Seasonal Predictions for Water Management – From Global to Regional Information, EnviroInfo 2018, Garching, Germany, ISBN 978-3-8440-6138-3	T. Portele, P. Laux, C. Lorenz, H. Kunstmann	Konferenzbeitrag
Augmenting mesoscale hydrological model (mHM) for seasonal forecasting of lake-hydrology systems. European Geosciences Union General Assembly (EGU) 2018. 8 - 13 Apr 2018, Vienna. https://meetingorganizer.copernicus.org/EGU2018/EGU2018-12940-1.pdf	P.K. Shrestha, L. Samaniego, O. Rakovec, S. Thober, R. Kumar	Konferenzbeitrag
Kartierung von Studiengebieten für Sedimentmanagement in großen datenarmen Einzugsgebieten. Tag der Hydrologie, 2018, Dresden,	A. Smetanova, E. Paton	Konferenzbeitrag
GRoW position paper on SDG 6: Strengthening the evidence base for the SDG process. An. High Level Political Forum. 2018	C. Pahl-Wostl, U. Eid, F. Schmidt, H. Kunstmann, A. Smetanová, F.A. Weber, M. Hagenlocher, L. Wolf	Artikel
SWAT Analysis of the Urmia watershed - Iran. Effects of land use on water scarcity and increasing salination in the Urmia Lake	A. Bertram	Masterarbeit
Erfassung von Vegetationsdynamiken in semi-ariden Regionen basierend auf der Analyse multitemporaler Fernerkundungsdaten im Rahmen eines Wassermanagement-Projekts, Masterarbeit, GFZ-Potsdam.	M. Lins	Masterarbeit
WASA_Clim-Q-Sed_Input-Plot-Stats, Software-Publikation (R-Skripte), Institut für Umweltwissenschaften und Geographie, Universität Potsdam. GitHub: https://github.com/A-Mue/WASA_Clim-Q-Sed_Input-Plot-Stats	A. Müller, J.M. Delgado, T. Francke	Software-Publikation
SoilDataPrep, Software-Publikation (R-Skripte), Institut für Umweltwissenschaften und Geographie, Universität Potsdam. GitHub: https://github.com/TillF/SoilDataPrep	T. Francke, S. Dobkowitz	Software-Publikation

2017

Titel	Autoren	Typ
Seasonal Water Resources Management in semi-arid Regions: Application-oriented Transfer of Regionalized Global Information, SaWaM Kickoff-Meeting, 10.12. – 11.12.2017, Ahvaz, Iran	SaWaM-Team	Workshop
Seasonal Water Resources Management in semi-arid Regions: Application-oriented Transfer of Regionalized Global Information, SaWaM Kickoff-Meeting, 31.10. – 1.11.2017, Brasília, Brazil	SaWaM-Team	Workshop