List of Posters
ModMonDay 2023

Session PP5.1 LandTrans
PP Co-Speakers: Sabine Attinger, Hans-Jörg Vogel

No.	Name	Dept	Title	Cooperation with other RU?
Round 1 13:30-14:30				
1.1	Sarrazin, Fanny	CHS	Long-term dynamics of nitrogen export from European catchments	RU2 WATER
1.2	König, Sara	BOSYS	BODIUM - a systemic approach to simulate soil functions in agricultural systems	RU1 ECOSYSTEMS
1.3	Kanagarajah, Lucas	BOSYS	Modelling the effects of global change on soil functions in different land-use types	RU1 ECOSYSTEMS
1.4	Thober, Stephan	CHS / LandTech	FINAM -- is not a model	
Round 2 14:30-15:30				
1.5	Schulz, Christian	RDM	Spatial Data Infrastructure	
1.6	Rico Fischer	OESA	Effects of drought-induced forest dieback and alternative reforestation scenarios on water quality in rivers and reservoirs	RU2 Water
1.7	Franziska Taubert	OESA	Modelling ecological and socio-economic impacts of grasslands	RU1 Ecosystems RU6 Society
1.8	Andreas Musolff	HDG	We need to talk! LandTrans: Coupling the modules FORMIND and mQM to help solving a pressing water quality problem	RU2 Water

Session PP5.2 Observation

PP Co-Speakers: Jian Peng, Steffen Zacharias

No.	Name	Dept	Title	Cooperation with other RU?
Round 1ç				
2.1	Bauckholt, Matteo	MET	Soil moisture times series and cosmic ray roving at the catchment scale within SwabianMOSES 2023	
2.2	Schrön, Martin	MET	Airborne Detection of Sub-Surface Water by Cosmic-Ray Albedo Neutrons at TERENO sites	
2.3	Schrön, Martin	MET	Regional intensive monitoring of soil moisture in the 456 km² Selke catchment, Harz mountains	
2.4	Schrön, Martin	MET	Implementation of Cosmic Ray Neutron Sensing (CRNS) towards soil moisture products on the national scale	RU2 WATER
2.5	Goblirsch, Tobias	MET	2-D in situ water screening based on the combination of fluorescence and UV/VIS spectrometry	
2.6	Schmidt, Toni	RS	Gridded Profile Soil Moisture through Artificial Intelligence	
2.7	Peng, Jian	RS	A Sentinel-1 SAR-based global 1 km resolution soil moisture data product: algorithm and preliminary assessment	
Round 2 14:30-15:30				
2.8	Cuesta-Valero, Francisco José	RS	Continental heat storage: Current state and preliminary estimates with satellite remote sensing	
2.9	Peter, Jung	MET	Geological latent heat storage - Development of a geophysical monitoring concept to map freeze-thaw cycles in aquifers	RU4 (Biotech)
2.10	Liang, Christine	MET	CityCLIM: Next Generation City Climate Services Using Advanced Weather Models and Emerging Data Sources	
2.11	Schäfer, David	MET	Reproducible quality control of time series data with SaQC	RU2
2.12	Gey, Ronny	RDM	Research Data Management	

Session PP5.3 SMART Methodology – Modeling, Data, Data Science
PP Co-Speakers: Thorsten Wiegand, Jakob Zscheischler

No.	Name	Dept	Title	Cooperation with other RU?
Round 1 13:30-14:30				
3.1	Flinspach, Lukas	OESA	Reproducing alpine treeline ecotones in an agent-based model: the STEM	
3.2	Frank, Karin	OESA	Linking multiple stressor research with SMART ecological modelling	RU3 Chemicals RU2 Water RU1 Ecosystems
3.3	Thorsten Wiegand	OESA	Non-parametric upscaling of agent-based models	
3.4	Bauer, Luise	OESA	Mapping Amazon Forest Productivity by Fusing GEDI Lidar Waveforms with an Individual-Based Forest Model	
3.5	Iakunin, Maksim	RS	Utilising the coupled approach of GRASSMIND and PROSAIL models to simulate remote sensing signals from variably managed grasslands	RU1 ECOSYSTEMS, iDiv (Flexpool)
Round 2 14:30-15:30				
3.6	Li, Peijun	RS	Deep learning integrated scale conversion and pedo-transfer function estimation to avoid potential errors in cross-scale parameter transfer	
3.7	Claudia Schütze	MET	POLAR MOSES - Developing cross-compartment strategies investigating the dynamic behaviour of greenhouse gas emissions and influencing factors in arctic environments	
3.8	Houben, Timo	RDM	Enhancing environmental sensor data quality control with graph neural networks	
3.9	Olaf Kolditz	ENVINF	OpenWorkFlow – Contribution to Open Science	

Session PP5.4 TiM4Land

PP Co-Speakers: Franziska Taubert, Daniel Doktor

No.	Name	Dept	Title	Cooperation with other RU?
Round 1 13:30-14:30				
4.1	Eichler, Johanna	OESA	Developing a grassland dynamics metamodel: impact of management strategies and climate extremes.	
4.2	Thomas Banitz	OESA	Grassland Biodiversity Dynamics	RU1 ECOSYSTEMS
4.3	Groeneveld, Jürgen	OESA	Honey bee performance in Germany - towards a Digital Twin prototype	RU1 ECOSYSTEMS RU3 CHEMICALS
4.4	Lange, Maximilian	RS	Detecting tree species-specific forest health anomalies	
4.5	Rynek, Robby	MET	Early detection of forest-damaging insects based on their species-specific volatiles	
Round 2 14:30-15:30				
4.6	Frank, Karin	OESA	Assessing impacts of agricultural practices on instream food webs and water quality through innovatively linking remote sensing and hydro-ecological modelling	RU2 WATER RU3 CHEMICALS
4.7	Kunkel, Julia	OESA	Can extensive grassland management pay off for farmers? A sensitivity analysis of grassland systems under climate change	RU6 SOCIETY iDiv (Economics)
4.8	Jungandreas, Leonore	RS	Risk or opportunity: How does financial and natural insurance interact to tackle weather-related damages in agriculture	RU1 ECOSYSTEMS iDiv (Economics)
4.9	Werban, Ulrike	MET	Prediction of microbial activity and pesticide degradation in soils using remote and proximal sensing technologies	RU4 Biotech RU1 ECOSYSTEMS
4.10	Reichmuth, Anne	RS	Natura 2000 areas under climate change: Effects of tree species distribution shifts	RU1 ECOSYSTEMS

Session PP5.5 TiM4Water

PP Co-Speakers: Thomas Kalbacher, Luis Samaniego

No.	Name	Dept	Title	Cooperation with other RU?
Round 1 13:30-14:30				
5.1	Garcia-Garcia, Almudena	RS	A new satellite-based product for studying land-atmosphere interactions	
5.2	Hannemann, Marco	RS	Transpiration in forest ecosystems based on deep learning and sap flow observations	
5.3	Weber, Ute	CHS	MOSES ELBE CAMPAIGN 2023: Fate of Environmental Chemicals, Microplastic and Nutrients	RU2 WATER, RU3 CHEMICALS
5.4	Weiß, Holger	ENVINF	KONATES - Design and pilot plant test operation for the use of ATES plants in contaminated aquifers - component for a future de-carbonized campus	
5.5	Paasch, Simon	MET	Balancing Local Water Demand in Apple Production and Mesoscale Water Availability: Bridging Research and Practice	
5.6	Thomas, Felix	MET	Developing tools for sustainable irrigation management in Mediterranean crops – PRIMA project HANDYWATER	
Round 2 14:30-15:30				
5.7	Batool, Matooma	CHS	Long-term Trajectories of Soil Nitrogen Surplus Across Europe (1850-2019)	RU2 WATER
5.8	Hemmen, Joost	RDM	Linking Environmental Data into European Scale Research Infrastructures	RU2 WATER
5.9	Shrestha, Pallav Kumar	CHS	Incorporating reservoirs for improved simulations in hydrological models	RU2 WATER
5.10	Klassert, Christian	Economics	Water security transformations across the food-water-energy nexus: Insights from three coupled human-natural systems models	RU2 WATER RU 6 SOCIETY
5.11	Kalbacher, Thomas	ENVINF	A Baseflow Analysis Framework with OGS using mHM data products	RU2 WATER
5.12	Afid Nur Kholis	ENVINF	A PhD topic introduction: Implementing an interactive interface between soil and groundwater hydrology for regional water resource management	RU2 WATER