UrbanRain23 - 12th International Workshop on Precipitation in Urban Areas

29 Nov - 2 Dec 2023, Sporthotel, Pontresina

>> WEDNESDAY 29.11.2023 PROGRAM <<

WEDNESDAY, 29 November 2023				
15:00 - 19:00		Arrival of participants (check-in and registration)		
19:00 - 19:20 19:20 - 19:30	Molnar, Burlando Schertzer	Welcome and presentation of UrbanRain23 program IGUR International Group on Urban Rainfall (https://igur.org/)		
19:30		Dinner (Sporthotel)		

29 Nov - 2 Dec 2023, Sporthotel, Pontresina

>> THURSDAY 30.11.2023 PROGRAM <<

THURSDAY, 30 November 2023

(C2) Private sensors and crowdsourced rainfall data: accuracy and p 9:00 - 9:15 Kyaw, DICAM Bologna Private sensors and crowdsourced rainfall data: accuracy and p 9:15 - 9:30 Seidel, Uni Stuttgart (DE) Using personal weather station data for improving precipitation adjustment of radar data 9:30 - 9:45 van de Beek, SMHI Evaluation and integration of professional and opportunistic hig observations in the Öresund region 9:45 - 10:00 Liernur, EPFL (CH) Sub-grid peaks in localized intense rain events using high-resolu data in Switzerland 10:00 - 10:30 Coffee Break 10:00 - 10:30 Coffee Break 10:00 - 10:30 Coffee Break 10:045 - 11:00 Einfalt, hydro@meteo Gren years of real-time hourly precipitation estimation: an since 2016 among various conventional and remotely sensed M products 10:45 - 11:00 Einfalt, hydro@meteo Gren pears of real-time hourly precipitation estimation: ar since 2016 among various conventional and remotely sensed M products 10:45 - 11:00 Files, Lund Uni (SWE) Melting layer prediction via surface weather and its correlation rate 11:30 - 11:45 Hosseini, Lund Uni (SWE) Melting layer prediction with measurements from the Swiss pol 11:30 - 11:45 Thorndahl, Aalborg Uni Spatial extreme value rainfall statistics from weather radar and (DEN) 11:30 - 1		
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	Linking climate change to urban water infrastructure design: recent advances and shortcomings in modeling of extreme rainfall processes	
19:30 Dinner (Sporthotel)		
21:30 - 22:00 Schertzer IGUR Meeting, https://igur.org/, discussion on new UrbanRain	Rain Organizer	

29 Nov - 2 Dec 2023, Sporthotel, Pontresina

>> FRIDAY 1.12.2023 PROGRAM <<

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		Session 1 Precipitation simulation and extremes (Chair: THOMAS EINFALT)	
8:30 - 8:45	Kašpar, IAP CAS Prague (CZ)	Spatial variability of the course of precipitation intensity during heavy rains in Czechia	
8:45 - 9:00	Gires, Ecole des Ponts (FR)	Characterizing and simulating with blunt extension of discrete cascades rainfall anisotropy in a Universal Multifractals framework	
9:00 - 9:15	Maloku, Uni Grenoble Alpes (FR)	Mean Areal Precipitation simulation with GWEX-MRC, a hybrid WGEN combining daily generation and disaggregation with a Multiplicative Random Cascade	
9:15 - 9:30	Ebers, Müller-Thomy, TU Braunschweig (DE)	Future rainfall extreme values: Temperature-dependent disaggregation of climate model data	
9:30 - 9:45	Thomassen, DMI (DEN)	The impact of sub-kilometre resolution climate model simulations on extreme rainfall events	
9:45 - 10:00	Haruna, Uni Grenoble Aples (FR)	Modeling Areal Precipitation Risks: A Data-driven Approach to model Intensity- Duration-Area-Frequency Relationships in Switzerland	
10:00 - 10:30		Coffee Break	
		Session 2 Nowcasting and uncertainty (Chair: SOREN THORNDAHL)	
10:30 - 10:45	Müller, IAP CAS Prague		
	(CZ)	Is the antecedent precipitation before precipitation extremes average on average?	
10:45 - 11:00	Wang, National Taiwan Uni (TW)	<i>Exploring the use of 3D radar measurements for predicting the lifespans of single-core convective rain cells</i>	
11:00 - 11:15	Sideris, MeteoSwiss (CH)	NowPrecip version 2: Precipitation nowcasting within the complex terrain of Switzerland	
11:15 - 11:30	Koltermann da Silva, Ruhr West UAS (DE)	Nowcasting of heavy rainfall events with Al-based precipitation forecast models: Influence of number of model parameters and of input images on the prediction accuracy	
11:30 - 11:45	Krämer, ITWH GmbH (DE)	The relevance of radar rainfall on urban drainage dimensioning and performance	
11:45 - 12:00	Kritidou, Uni Zurich (CH)	Robustness evaluation of simulated extreme floods over Switzerland: an experiment based on weather generator changes	
12:00 - 13:00		Lunch (own cost)	
13:00 - 16:00		Optional excursion (Morteratsch Walk or Pontresina Village Walk)	
		Session 3 Urban flood risk (Chair: JOAO LEITAO)	
16:30 - 16:45	Treis, Emschergenoss. (DE)	How to deal with uncertainties in flood forecast	
16:45 - 17:00	Emmanouil, Uni Connecticut (USA)	Decomposing the effects of compound mechanisms on flood risk estimation for urban environments: A case study over Greater Boston	
17:00 - 17:30		Coffee Break and Posters	
17:30 - 17:45	Jackson, Strehz, Water Technology (AUS)	Enhanced urban drainage management for Melbourne Water with the Hydronet Water Control Room	
17:45 - 18:00	Cache, Uni Lausanne (CH)	Improving the generalizability of urban pluvial flood emulators to untrained cities and rainfall	
18:00 - 18:15	Wenzel, Deutscher Wetterdienst (DE)	HoWa-Pro: A project setting up a flood risk warning system using radar, rain gauge, and opportunistic data from a telecommunication network	
18:15 - 18:30	Asher, Uni Leeds (UK)	The sensitivity of urban surface water flood modelling to the temporal distribution of rainfall	
18:30 - 18:45	Reinoso-Rondinel, KU Leuven (BE)	On the integration of a probabilistic seamless prediction model and a hydrological model for flooding prediction	
18:45 - 19:00	Molnar, Burlando	UrbanRain23 Wrapup and Plan for the future	

>> POSTER LIST <<

NO.	FIRST AUTHOR	AFFILIATION	TITLE
1	Alonso	L&F Enviroconsulting (FR)	Impact of rainwater trees on urban cooling: 1st case study in Lyon (France)
2	Blagojevic	ETH Zurich (CH)	Globally applicable workflow for urban pluvial risk estimates in data-scarce environments
3	Bližňák	Institute of Atmospheric Physics CAS (CZ)	How well can a new high-resolution atmospheric reanalysis ALADIN reforecast heavy precipitation?
4	Cancelliere	University of Catania (IT)	SPEI based severity-area-frequency curves for drought monitoring
5	Cauteruccio	University of Genova (IT)	Estimation of flooded areas from post-event survey and mitigation scenarios using permeable pavement solutions: a case study in the Italian territory
6	Chakravarty	Indian Institute of Tropical Meteorology (India)	Unravelling the contrasting microphysical features of clouds and precipitation for Mumbai and Chennai - the urban coastal megacities of India
7	Chinchella	University of Genova (IT)	Assessing the wind-induced bias for the OTT Parsivel2 optical gauge using CFD and particle tracking.
8	Dias Kovalczuk, Schertzer	HM&Co Lab (FR)	Towards conclusive climate projections for precipitation
9	Fencl	CVUT Prague (CZ)	Applying operational attenuation data from the telecommunication network in the city of Olomouc for predicting inflows to WWTP
10	Hulec	Institute of Atmospheric Physics CAS (CZ)	The comparison of design precipitation totals in the border region of the Czech Republic and Germany
11	Hung	National Taiwan University (Taiwan)	IMERG Run Deep: Can we produce a low-latency IMERG Final run product with a deep learning based prediction model?
12	Jahnke-Bornemann	hydro & meteo GmbH (DE)	heavyRain - Use of IoT rain sensors to improve heavy rain forecasts in Lübeck
13	Kavka	CVUT Prague (CZ)	Classification of Czech urban areas by their characteristics in link to potential of retention of heavy rainfall
14	Kohnova	Slovak University of Technology (SK)	Detecting futures changes in the characteristics of short-term rainfall in Slovakia
15	Kvak	Institute of Atmospheric Physics CAS (CZ)	Convective environment in ALADIN Reanalysis
16	Laursen, Jensen	VeVa (DK)	Streamlining the use of weather radar data for Urban run-off simulation
17	Ntoumos	EPF Lausanne, Meteoswiss	Forecast verification analysis of the CombiPrecip ensemble
18	Pedersen	Danish Meteorological Institute (DK)	Evaluation of subkilometer scale NWP for short-term predictions of convective rainfall events
19	Renard	University of Lyon (FR)	Measured and perceived urban heat island: cross-measurements and lived paradoxes
20	Steiner, Micev, Rieckermann	EAWAG (CH)	Measuring diameters and velocities of artificial raindrops with a neuromorphic dynamic vision sensor disdrometer
21	Rossi, Einfalt	World Meteorological Organization (CH)	WMO Guide to Operational Weather Radar Best Practices – progress and plans
22	Seidel	University of Stuttgart (DE)	A Flood Monitoring System for the City of Reutlingen in South-West Germany
23 24	Simon Špačková	University Bochum (DE) CVUT Prague (CZ)	Compound flood risk in small, ungauged catchments using LSTMs Identifying predictors within information theory framework for uncertainty reduction in commercial microwave links quantitative precipitation estimates
25	Walther	Hochschule Ruhr West (DE)	Soil-pipe system as an element of climate-adapted urban drainage (BoRSiS)
26	Wilke	Deutscher Wetterdienst (DE)	A new member of the DWD radar product palette
27	Winterrath	Deutscher Wetterdienst (DE)	The DWD Catalogue of Radar-based heavy Rainfall Events (CatRaRE) and its application in hazard and risk analysis
28	Zhu	ETH Zurich (CH)	Association between urban morphology and the spatial distribution of pluvial floodwater
29	Zhuang	Tongji Univerisity (China)	Land-water-atmosphere interactions and urbanization effects on precipitation: insights from the coastal city of Shanghai
30	Zou	University of Lausanne (CH)	Spatial downscaling of heavy rainfall with a multiple-point geostatistics model: Beijing case study