



WORKSHOP 1



1. Workshop title: Impacts of climate change on rainfall extremes and urban drainage systems
2. Organiser / working group: JCUD International Working Group on Urban Rainfall (IGUR)
3. Chair(s):
 Patrick Willems (Patrick.Willems@bwk.kuleuven.be)
 Karsten Arnbjerg-Nielsen (kan@env.dtu.dk)
 Thomas Einfalt (einfalt@hydrometeo.de)
 Simon Beecham (simon.beecham@unisa.edu.au)

4. Workshop presentation:

Methodologies and relevant results related to the assessment of climate change impacts on urban rainfall extremes as well as on urban hydrology and hydraulics will be presented and discussed. Demonstrations and access to training materials will be provided. The workshop will also focus on several difficulties and limitations associated with current assessment methods. Finally, various challenges facing both the research community and practitioners in dealing with climate change impact assessment and adaptation for urban drainage infrastructure design and management will be discussed.

Workshop topics: Climate change simulation; Modeling of urban rainfall extremes in a stationary context; Study of rainfall and urban runoff variability and trends in a non-stationary context; Statistical downscaling of rainfall extremes; Climate factors and changes in IDF relationships; Climate change impacts on urban drainage: results and regional differences; Needs for adaptation and flexible designs.

5. Number of participants: around 30
6. Schedule: 10:00am – 4:00pm
7. Registration rate: 120 €
8. Language: English
9. Preliminary programme (see below)



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Programme

Time slot	Workshop Activity / Topic	Presenters
9:30 - 10:00	Registration	
10:00 – 10:15	Introduction: workshop overview	Patrick Willems
10:15 – 11:00	State-of-the art review on climate change & urban drainage: general overview of different aspects involved	
11:00 – 11:45	Statistical downscaling methods	Karsten Arnbjerg-Nielsen & Patrick Willems
11:45 – 12:00	Interactive discussion of downscaling needs and methods with participants	
12:00 – 12:30	Role of radar data in climate change impact analysis (e.g. spatial downscaling)	Thomas Einfalt
12:30 – 12:45	Interactive discussion of radar use with participants	
12:45 – 13:45	Lunch break	
13:45 – 14:30	Climate change impacts on urban drainage: experiences from Denmark and abroad	Karsten Arnbjerg-Nielsen
14:30 – 15:00	Need for adaptation and flexible design	Simon Beecham
15:00 – 15:15	A catalogue of best practice measures for climate adaptation in urban areas	Thomas Einfalt
15:15 – 15:30	Interactive discussion on climate change impacts and adaptation needs with participants	Karsten Arnbjerg-Nielsen & Simon Beecham
15:30 – 16:00	Presentation of training materials	Patrick Willems
16:00	Closure	