# Rainfall Hazards Workshop

**Monday, 9 November 2026 - Monday, 9 November 2026**

**The Royal Library of Belgium in Brussels**

# Scientific Programme

2nd Rainfall Hazards Workshop - Agenda
— 9 November 2026 - KBR (Royal Library) Brussels —
**09:25$~$$~$ Welcome**

**09:30 - 11:05$~$$~$ Rainfall products at RMI**
· 09:30$~$$~$ Precipitation observation network - Weather radar present and future *(Dieter Poelman, RMI)*
· 09:45$~$$~$ Radar QPE - RADQPE2 processing chain *(Maryna Lukach, RMI)*
· 10:00$~$$~$ INCA-BE nowcasting system - From radar to weather flashes *(Maarten Reyniers, RMI)*
· 10:10$~$$~$ Seamless ensemble nowcasting with pySTEPS-BE *(Lesley De Cruz, RMI/VUB and Lars Bonnefoy, RMI/VUB)*
· 10:20$~$$~$ Microwarnings and a semi-impact-based validation approach *(Felix Erdmann, RMI)*
· 10:40$~$$~$ Status Update of Crowdsourcing Activities at RMI Supporting Precipitation Sensing *(Maarten Reyniers, RMI)*
· 10:55$~$$~$ Q&A

**11:05 - 11:30$~$$~$ Coffee**

**11:30 - 12:10$~$$~$ Climate assessment at RMI**
· 11:30$~$$~$ Rainfall-related activities of the RMI climatological information service *(Michel Journée, RMI)*
· 11:45$~$$~$ Modeling current-day and future extreme rainfall over Belgium using regional climate models *(Bert Van Schaeybroeck, RMI)*
· 12:00$~$$~$ Q&A

**12:10 - 14:55$~$$~$ Research projects**
· 12:10$~$$~$ PRECIP-PREDICT project outcomes *(Martin Bonte, RMI)*
· 12:25$~$$~$ Open nowcasting with pySTEPS and MLCast *(Lesley De Cruz, RMI/VUB)*
· 12:40$~$$~$ Use of Commercial Microwave Links for precipitation estimation in Belgium *(Simon De Corte, UGent)*
· 12:55$~$$~$ Q&A

**13:00 - 14:00$~$$~$ Lunch** (provided on site)

**14:00 - 14:55$~$$~$ Research projects (continued)**
· 14:00$~$$~$ EXPRIMA: Nowcasting of Extreme Precipitation for Impact-based Warning Systems *(Ricardo Reinoso-Rondinel, RMI/KU Leuven)*
· 14:15$~$$~$ RUSH: Rapid Update Short-term High-resolution forecasts *(Simon De Kock, RMI/VUB)*
· 14:30$~$$~$ Rapid urban flood forecasting based on surrogate urban water system modelling *(Zongkui Guan, Daan Buekenhout, Patrick Willems, KU Leuven)*
· 14:45$~$$~$ Q&A

**14:55 - 15:00$~$$~$ Comfort break**

**15:00 - 15:55$~$$~$ Stakeholder presentations**
· 15:00$~$$~$ Project Waiter and the integration of RMI's data in the platform *(Tim Franken, Sumaqua)*

· 15:15$~$$~$ How Brussels Uses Nowcasting of Precipitation Return Periods to Warn of Urban Flooding *(Michaël Antoine, Brussels Environment)*
· 15:30$~$$~$ Use of rainfall forecast data for urban drainage applications at Aquafin *(Stefan Kroll, Aquafin)*
· 15:45$~$$~$ Q&A

**15:55 - 16:00$~$$~$ Comfort break**

**16:00 - 16:30$~$$~$ Roundtable discussion**

**16:45$~$$~$ Reception in Bortier Gallery**

*by 17:00 everyone needs to have left the building.*