



**STRENGTHENING THE RESEARCH CAPACITIES
FOR EXTREME WEATHER EVENTS IN ROMANIA**

GA 101149597

Summer School on Extreme Temperature and Precipitation Events

Program

9-11 SEPTEMBER 2025
CLUJ-NAPOCA, ROMANIA

Day 1: Heat extremes

9 September 2025

Session 1: Heatwaves

Coordinator: Enrico Scoccimarro, CMCC

9:00 – 9.30 – Check-in and welcome coffee

9.30 - 11:00 – Heatwave: science, tools, and long-term trends

11:00 – 11:30 – Coffee break & poster session

11:30– 13:00 – Heatwave forecast - Seasonal forecast of heatwaves based on dynamical and AI-driven approaches

13:00 – 14:30 – Lunch break

14:30 – 16:00 – Heatwave analysis in regional context: challenges, available datasets, shortcomings

16:00 – 16:30 – Coffee break

16:30 – 18:00 – Hands-on training on heatwave forecast

Day 2: Hydrological extremes

10 September 2025

Session 2: Drought

Coordinator: Hossein Tabari, University of Antwerpen, Belgium

9:00 – 10:30 – Drought: science, tools, and trends

10:30 – 11:00 – Coffee break & poster session

11:00 – 12:30 – Hands-on training on drought

12:30 – 14:00 – Lunch break

Session 3: Floods

Coordinator: Elena Xoplaki, Justus Liebig University, Giessen, Germany

14:00 – 15:30 – Flood: science, tools, and trends

- Introduction, indices, datasets, drivers, forecasting, historical and future trends

15:30 – 16:00 – Coffee break

16:00 – 17:30 – Hands-on training on flood

Day 3: Compound events

11 September 2025

Session 4: Compound events

Coordinators: Hossein Tabari & Elena Xoplaki

9:00 – 10:30 – Compound extremes: science and tools

10:30 – 11:15 – Coffee break & poster session

11:15– 12:45 – Compound extremes: impacts of climate change and socioeconomic development

12:45 – 14:30 – Lunch break

14:30 – 17:30 – Field trip

- Visit to the Regional Meteorological Centre in Cluj-Napoca;
- Exploration of Cluj-Napoca old city: challenges and solutions for adaptation to climate change (extreme events).