Convener: Dr. Maurizio Polemio—Co-conveners: Marta Chiarle, Marco Turco

Relevant temperature and rainfall modifications have been observed worldwide during recent decades. As differences exist in the observed trends, if variable durations and/or different regions and climatic parameters are considered, it is extremely complex to assess the combined, resulting effects of climate change on the hydrological cycle, mainly in terms of runoff and infiltration, on glacier volume and extent, and on snow cover extent and duration. All these variations and trends can modify natural hazards occurrence, create relevant difficulties in terms of water resources availability and hit ecological balance. These variations require efforts upgrading technological approaches, improving design and planning criteria, and adopting strategies to manage modifications of natural hazards and water resources availability. Study cases of climate change and damage effects, technical solution reports and scientific research results are suitable for the session purposes.