



## **Future of HEPEX: bridging the gap between researchers and practitioners to advance hydrologic ensemble predictions**

Christel Prudhomme (1), Fredrik Wetterhall (1), Maria-Helena Ramos (2), Andy Wood (3), Qj Wang (4), Jan Verkade (5), Ilias Pechlivanidis (6), Marie-Amélie Boucher (7), and Rebecca Emerton (8)

(1) ECMWF, Forecast Department, Reading, United Kingdom (christel.prudhomme@ecmwf.int), (2) Irstea, Hydrology Research Group, Antony, France, (3) NCAR, Boulder, USA, (4) University of Melbourne, Australia, (5) Deltares, Delft, The Netherlands, (6) Swedish Meteorological and Hydrological Institute, Norrköping, Sweden, (7) Université de Sherbrooke, Sherbrooke, Canada, (8) University of Reading, Reading, United Kingdom

Since 2004, HEPEX (Hydrologic Ensemble Prediction Experiment) has been fostering a community of researchers and practitioners around the world. The mission is still to establish a more integrated view of hydrological forecasting, where data assimilation, hydro-meteorological modelling chains, pre- and post-processing techniques, expert knowledge, participatory co-evolution of knowledge and user needs, communication and visualisation tools, training material and games, and decision support systems are connected to enhance operational systems and water management applications. Massive progress has been made over the years in terms of using ensemble hydro-meteorological forecasting, but there are still institutional, scientific and operational challenges that the community faces. Here we present the full range of HEPEX activities, including workshops, conference sessions, testbeds, learning material and our long-running blog portal ([www.hepex.org](http://www.hepex.org)), which this year received a massive facelift. We also discuss how HEPEX can continue to be relevant also in the coming decades. A large part of that answer lies in the fact that our members use the platform to continuously share their research, make announcements, report on workshops, projects and meetings, and hear about related research and operational challenges. It is also a forum for early career scientists to become increasingly involved in hydrological forecasting science and applications.