

Hydrologic ensemble prediction: enhancing science, operation and application through HEPEX

Fredrik Wetterhall (1), Maria-Helena Ramos (2), Qj Wang (3), and Andy Wood (4)

(1) European Centre for Medium Range Weather Forecasts, Reading, United Kingdom (fredrik.wetterhall@ecmwf.int), (2) Irstea, Hydrology Research Group, Antony, France, (3) CSIRO Land and Water, Clayton, Australia, (4) National Center for Atmospheric Research, Boulder, USA

HEPEX (Hydrologic Ensemble Prediction Experiment) was established in March 2004 at a workshop hosted by the European Centre for Medium Range Weather Forecasts (ECMWF), co-sponsored by the US National Weather Service (NWS) and the European Commission (EC). HEPEX and the community it represents has over its more than 10 years of existence continuously worked to promote and advance the science of hydrologic ensemble prediction as well as operational systems and water management applications. Through workshops and conference sessions, HEPEX has connected the research community, forecasters and forecast users and facilitated the exchange of ideas, data, methods and experience. In particular, the establishment of an online blog portal has greatly enhanced community interaction and knowledge sharing (www.hepex.org). HEPEX has now a strong and active community of nearly 400 researchers and practitioners around the world. In this poster, we present an overview of recent and planned HEPEX activities, and highlight opportunities to further progress ensemble prediction science, operation and application.