

# HEPEX

Hydrologic Ensemble Prediction EXperiment

## MISSION

The HEPEX mission is to demonstrate the added value of hydrological ensemble predictions (HEPS) for emergency management and water resources sectors to make decisions that have important consequences for economy, public health and safety.

## KEY SCIENCE QUESTIONS...

- How are meteorological ensemble systems best coupled with hydrological ensemble systems?
- How must existing hydrological ensemble prediction systems evolve to represent all sources of forecast uncertainty?
- What is the best way for the user community to take advantage of ensemble forecasts and to make better decisions based on them?

## ACTIVITIES

The HEPEX mission is promoted through regular interactions between researchers and operational agencies, at HEPEX conferences, theme-focused workshops and through online media.

HEPEX works to coordinate collaborative topical experiments and testbeds that facilitate the evaluation of new techniques, datasets, hypotheses and applications.

HEPEX also highlights case studies that demonstrate HEPS in practice, serving as a resource for extending applications.

## HEPEX THEMES

- Input and pre-processing
- Ensemble techniques
- Data assimilation
- Post-processing
- Verification
- Communication and use in decision making

## PARTICIPATION

in HEPEX is open to anyone wishing to contribute to its objectives.

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