



# HEPEX

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A community of practice for the advancement of hydrologic ensemble predictions

2021-05-07

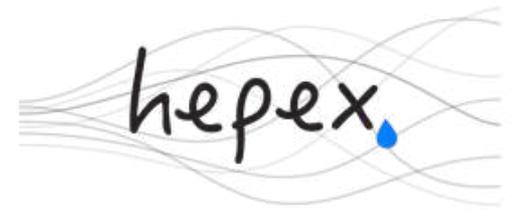
[www.hepex.org](http://www.hepex.org)

# About



- Originally, 'Hydrologic Ensemble Prediction EXperiment'
- Began in 2004: ECMWF workshop jointly organized with the US National Weather Service (NWS) and the European Commission (EC JRC)
- Today, a global community of researchers and practitioners in hydrological ensemble prediction
- An unfunded/volunteer effort since its creation
- It seeks to advance the science and practice of hydrological forecasting and its use in impact- and risk-based decision making
- Activities:
  - Workshops
  - Special sessions at larger conferences (e.g. AGU, EGU...)
  - Blog portal
  - Mailing list (subscribers)
  - Online resources: webinars, games, lectures

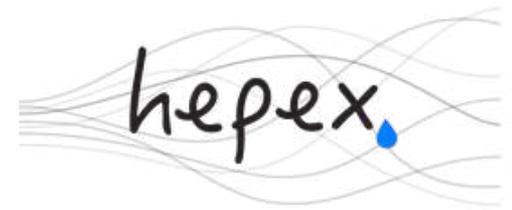
# Mission



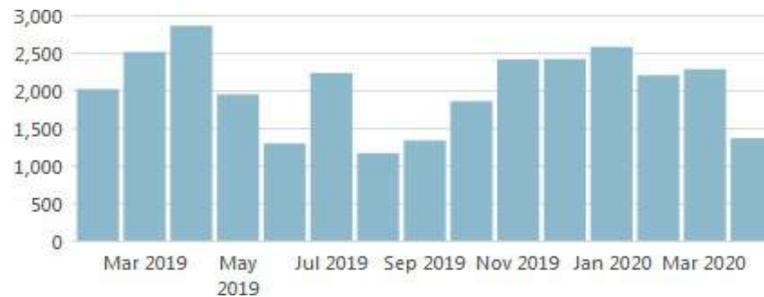
“To demonstrate the added value of hydrological ensemble prediction for operational water resources management, risk assessment and emergency management to make decisions that have important consequences for economy, environment, and public health and safety.”



# At a glance



- >600 subscribers to the mailing list
- Blog running since April 2013
- An average of 200 views per blog post; 2000 views per month



April 2020:

At a Glance

✈ 369 Posts

💬 554 Comments

📄 41 Pages

 #HEPEX

>3000 Tweets

1148 Followers



Participants of the HEPEX workshop in Melbourne, Australia, 2018

- >1.5 hours of music



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HEPEX

HEPEX BLOG ▾

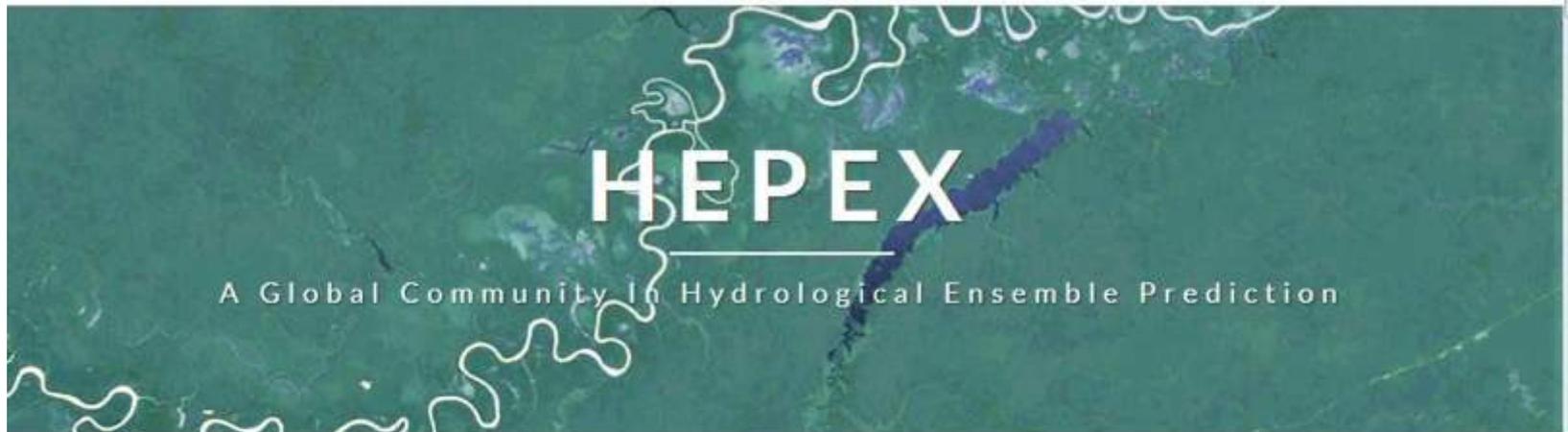
ABOUT HEPEX ▾

JOIN & CONTACT ▾

RESOURCES ▾

WORKSHOPS ▾

2020 WORKSHOP ▾



## FORECASTING ALGAL BLOOMS IN LAKES AND RESERVOIRS

📅 March 11, 2020 👤 Rebecca Emerton 💬 0 Comment

Contributed by: Trevor Page, Paul Smith, Keith Beven, Ian Jones, J Alex

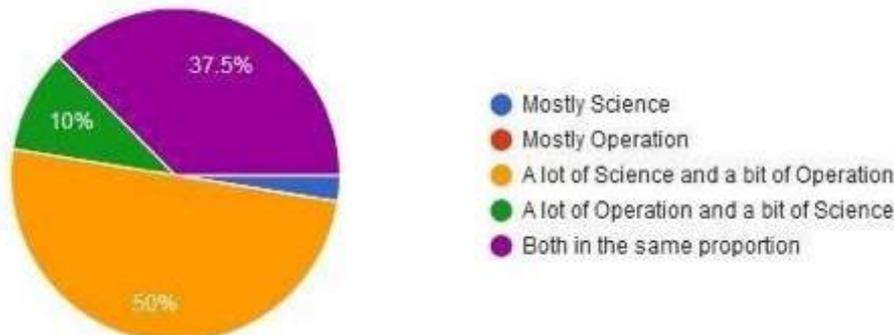


# Connecting the dots

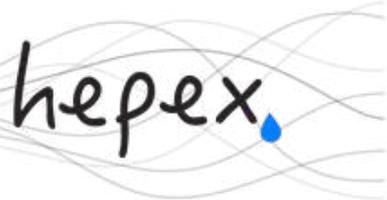


- Connecting people, disciplines and efficient techniques
- Fostering global partnerships, sharing knowledge and, at the same time, identifying knowledge gaps on flood forecasting, flood risk and drought management and water resources planning

How do we connect better?  
Connecting data service providers and operational forecasters, system developers and forecasters, decision makers and society, etc.



# Education, communication



Springer Link

**LIVE**

Handbook of Hydrometeorological Ensemble Forecasting

Editors (view affiliations)  
Qingyun Duan, Florian Pappenberger, Andy Wood, Hannah L. Cloke, John C. Schaake

Living reference work

16	8	170	8.3k
Citations	Mentions	Readers	Downloads

(\*Photos from Ilias Pechlivanidis, SMHI)



# Enhancing our connections



- **Seamless forecasting across space and lead times:** an old idea or the new order?
- **Global, continental, regional and local systems:** where do they meet?
- **Making global forecasts relevant locally, and local approaches relevant globally:** a pipe dream?
- **Communication and visualization:** have we explored all the possibilities? How are ensemble forecasts perceived by different user groups?
- **Forecast evaluation:** do we understand the quality of our forecasts? Are there best practices to measure the value of the forecasts to the users (stakeholders or society)?
- **Private sector:** What is their role in setting up operational forecasting systems at different scales?
- **Link with early career scientists:** have we set the right paradigms in training the new generation of forecasters?

# How to join

- Current Chairs:
  - Marie-Amélie Boucher (Univ. of Sherbrooke, Canada)
  - James Bennett (CSIRO, Australia)
  - Ilias Pechlivanidis (SMHI, Sweden)
  - Fredrik Wetterhall (ECMWF, UK)
- Subscribe to the mailing list:
  - Send an email to [hepex+subscribe@googlegroups.com](mailto:hepex+subscribe@googlegroups.com)
- Visit the website: [www.hepex.org](http://www.hepex.org)



# Upcoming events



- 9 June to 1 July 2021:
  - The next HEPEX Workshop “Connecting global to local hydrological modelling and forecasting: scientific advances and challenges” will be held virtually, co-organized by ECMWF – CEMS – C3S – HEPEX – GFP.
  - <https://hepex.inrae.fr/joint-virtual-workshop-2021/>



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