HEPEX & EC-HEPEX

A community of practice for the advancement of hydrologic ensemble predictions

2023-09-13   #HEPEX   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)

- EC-HEPEX began in 2021: with 32 ECS and young professionals from 17 countries meeting to frame what EC-HEPEX should look like

- Today, a global community of researchers and practitioners (with an unfunded/volunteer effort since its creation) seeking 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 (chief editor Rebecca Emerton, Univ. of Reading)
  - Mailing list (> 650 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.*"
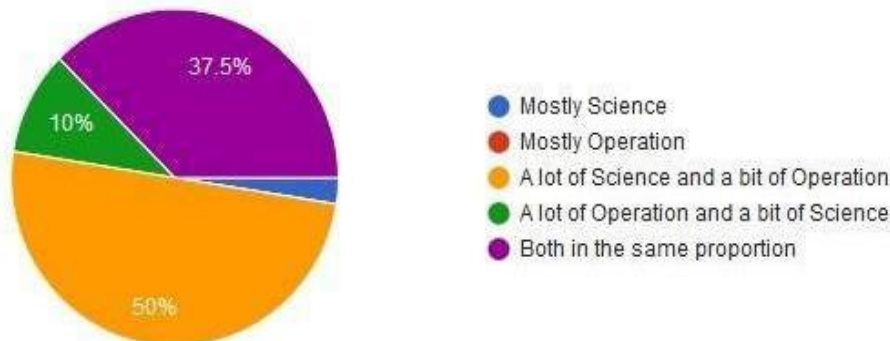

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Connecting the dots

hepex

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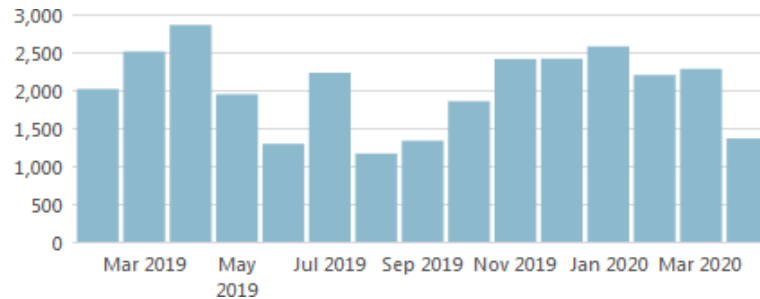
How do we connect better?
Connecting data service providers and operational forecasters, system developers and forecasters, decision makers and society, etc.

37.5%

10%

50%

- Mostly Science
- Mostly Operation
- A lot of Science and a bit of Operation
- A lot of Operation and a bit of Science
- Both in the same proportion

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At a glance

- \> 650 subscribers to the mailing list

- Blog running since April 2013

- An average of 200 views per blog post; 2000 views per month

- \>1.5 hours of music

Participants of the HEPEX workshop in Melbourne, Australia, 2018

GEMENSAM SPELLISTA

HEPEXmusic

HEPEX is an international scientific initiative in which we share kno share tastes in music too.

iliaspechliv · 6 gillar · 22 låtar, 1 tim 38 min

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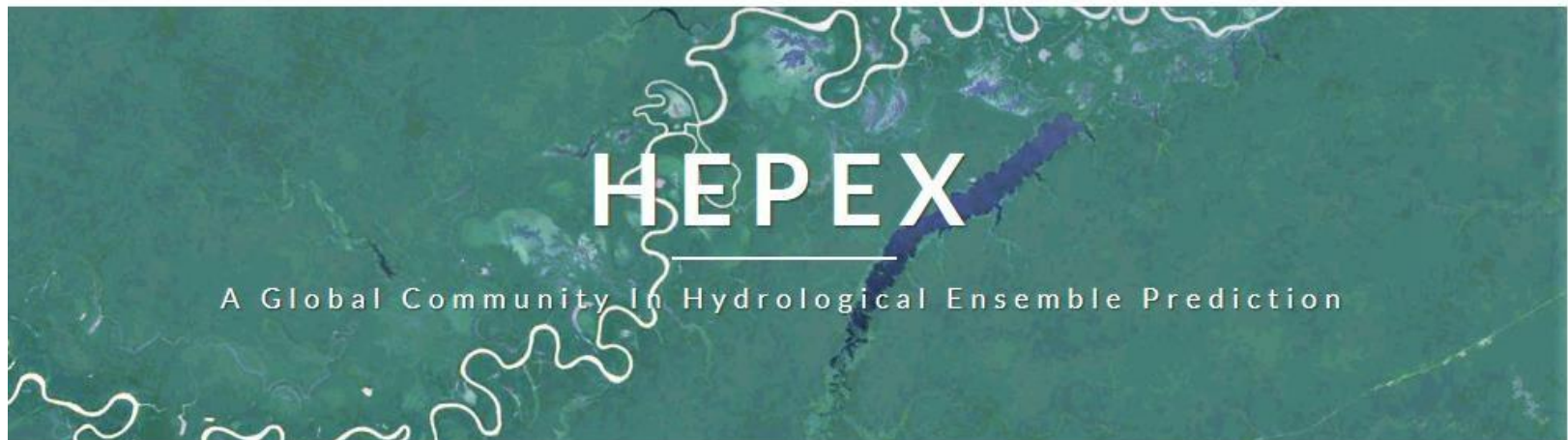
Education/Communication
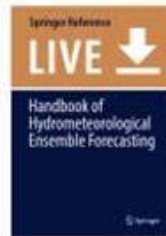
(*Photos from Ilias Pechlivanidis, SMHI)

(*Photo from Marie-Amélie Boucher, U. de Sherbrooke)

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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 globall**y: 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?

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How to join

o Current co-Chairs:
   ▪ Marie-Amélie Boucher (Univ. of Sherbrooke, Canada)
   ▪ James Bennett (CSIRO, Australia)
   ▪ Ilias Pechlivanidis (SMHI, Sweden)
   ▪ Fredrik Wetterhall (ECMWF, UK)

o Subscribe to the mailing list:
   ▪ Send an email to hepex+subscribe@googlegroups.com

o Visit the website: www.hepex.org
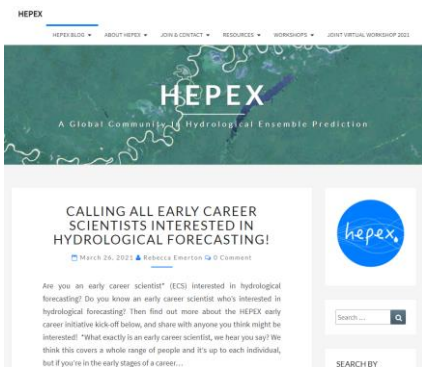
HEPEX 2023 workshop

visitedplaces.com

Workshop's aim is to discuss
the latest developments in
hydrological forecasting and
applications in the water
management sector

6 oral sessions
15 posters
4 invited talks
>100 participants

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