

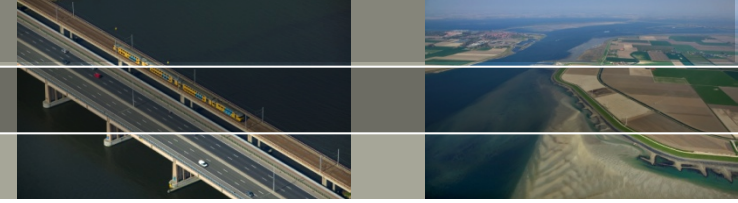


HEPEX – A Community of Practice

Workshop on hydrological modelling, forecasting and warnings
20 September 2016, Oslo, Norway

Dr. Femke Davids & dr. Jan Verkade

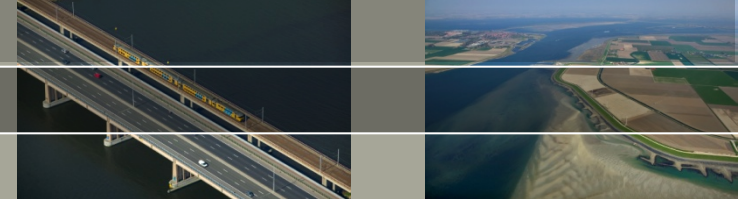
Brief introduction... Femke Davids



- Physical Geography; research in coastal & river systems & climate change
- expert in real-time hydrological forecasting @ Deltares
- Member of the Dutch National River Forecasting Service and European forecasting service EFAS @ Rijkswaterstaat
- EGU convener: Operational forecasting and warning systems for Natural Hazards
- Research interests: uncertainty analyses, probabilistic forecasting, forecast dissemination, crisis management, facilitating decision making



What is a “Community of Practice”?



Communities of practice are groups of people who share a concern or a passion for something they do and learn how to do it better as they interact regularly.



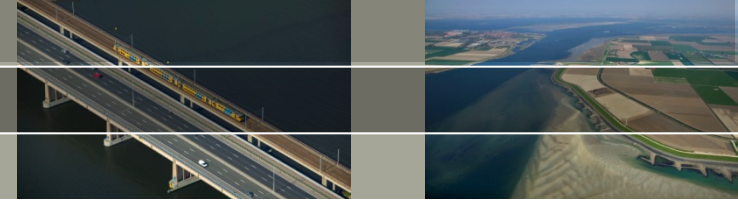
Generic (Wenger, 1998, 2004)

- shared **domain** of interest
- a **community** engaging in collective learning, joint activities, discussions, network, relationships
- develop a shared repertoire of resources, i.e. the **practice**



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Why be a part of a “Community of Practice”



The Value of Communities of Practice

Short-Term Value: Members

- Help with challenges
- Access to expertise
- Confidence
- Fun with colleagues
- Meaningful work

Short-Term Value: Organization

- Problem solving
- Time saving
- Knowledge sharing
- Synergies across units
- Reuse of resources

Long-Term Value: Members

- Personal development
- Reputation
- Professional identity
- Collaborative advantage
- Marketability

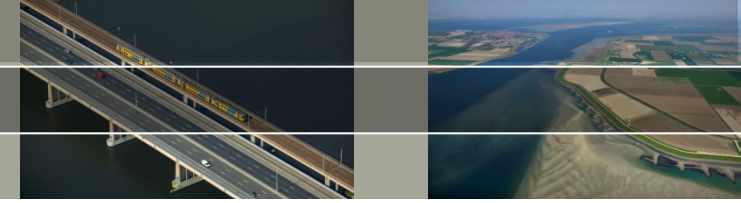
Long-Term Value: Organization

- Strategic capabilities
- Keeping abreast
- Innovation
- Retention of talents
- New strategies



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HEPEX mission to a “Community of Practice”



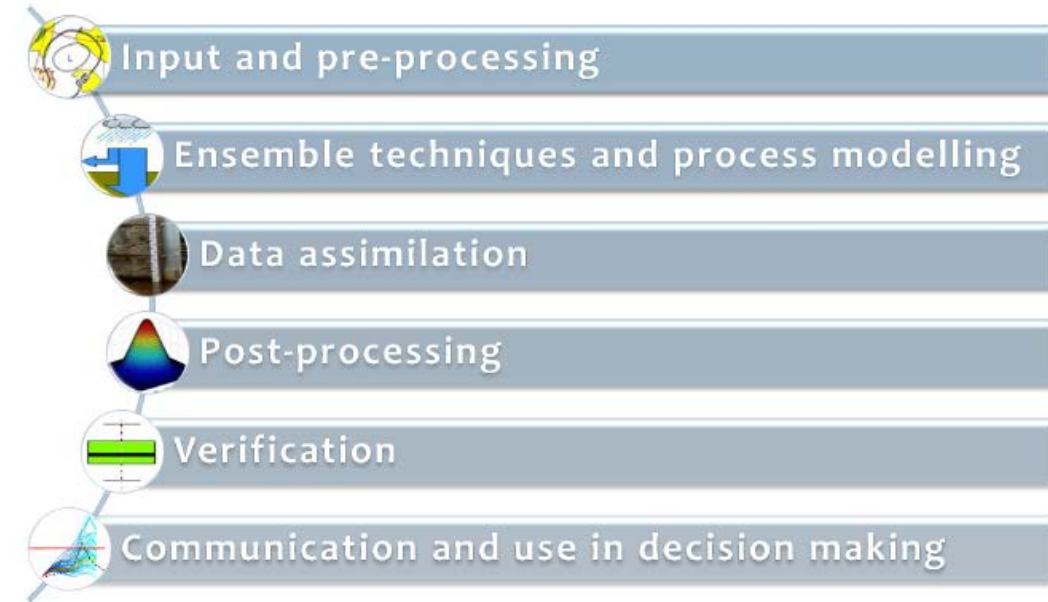
Hydrological Ensemble Prediction Experiment
2004 – 2016

Original mission

“...demonstrate the added value of hydrological ensemble predictions (HEPS) for emergency management and water resources sectors...”

Wider goals

Scope includes:



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HEPEX: the hydrologic ensemble forecasting community

scientists

practitioners

forecast users

meteorologists

hydrologists



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science plans

HEPEX

research and practice to advance hydrologic ensemble prediction

comments

columns

The quest for better global precipitation data

Posted on August 16, 2016 by Maria-Helena Ramos

Contributed by Hulke Beck, Albert van Dijk, Ad de Roo, Jaap Schellekens, Diego...

resources

Information for any hydrological study. Unfortunately, precipitation is also one of the most difficult to estimate meteorological variables, due its tremendous spatio-temporal heterogeneity, particularly in tropical, mountainous, and snow-dominated regions.

Over the past decades, many precipitation datasets have been developed using different techniques and observation systems. [Precipitation Working Group, UCAR Climate Data Group](#)

webinars

So, which precipitation dataset is the best?

Well, that depends on the application, but in the context of global hydrological modelling it has never really been possible to identify the "best" dataset for several reasons.

Webinars on YouTube

Photo Gallery

blogs

- The quest for better global precipitation data August 16, 2016
- The Current State of Operational Global (and continental) Scale Flood Forecasting August 9, 2016
- Flood forecasting systems around the world – Interview with Thomas Adams and Tom Pagano August 2, 2016
- What to look for when using forecasts from NWP models for streamflow forecasting? July 26, 2016

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paper.li



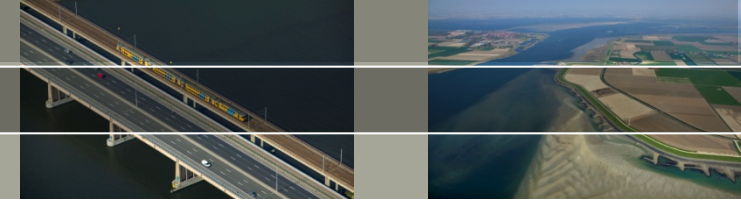
You Tube

hepex+subscribe@googlegroups.com



tares

The core team of HEPEX



HEPEX co-chairs are:

Andy Wood (UCAR, USA)

Maria-Helena Ramos (IRSTEA, France)

Fredrik Wetterhall (ECMWF, UK)

QJ Wang (CSIRO, Australia)

HEPEX Advisory Board:

John Schaake (Consultant)

Roberto Buizza (ECMWF)

Jutta Thielen (DG JRC)

Florian Pappenberger (ECMWF)

Robert Hartman (NWS)

collective responsibility



Additional points of contact include:

Jan Verkade (Regional Chair for Europe, LinkedIn page)

David Robertson (Regional Chair for Oceania)

Qingyun Duan (Regional Chair for China)

Walter Collischonn (Regional Chair for South America)

Liz Stephens (Early-Career Representative)

Nathalie Voisin and Jan Verkade (mailing list)

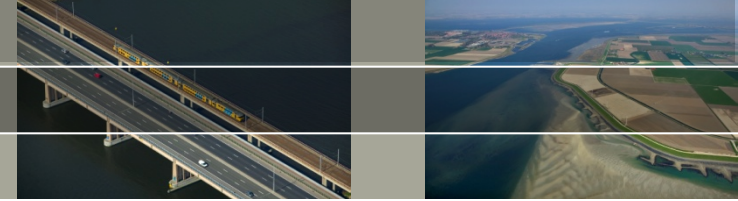
Fredrik Wetterhall (Webinar, youtube)

Jean-François Vuillaume (Paper.li)

Diana Lucatero (Twitter @hepexorg)



Examples of blogs and posts on HEPEX



The quest for better global precipitation data

Posted on [August 16, 2016](#) by [Maria-Helena Ramos](#)

Contributed by Hylke Beck, Albert van Dijk, Ad de Roo, Jaap Schellekens, Diego Miralles, Brecht Martens, and Vincenzo Levizzani

Flood forecasting systems around the world – Interview with Thomas Adams and Tom Pagano

Posted on [August 2, 2016](#) by [Maria-Helena Ramos](#)

As the 1st Edition of the book “[Flood Forecasting, A Global Perspective](#)” has just been released, Thomas Adams (UCAR) and Tom Pagano (BoM) [*see their bio below*], editors, recall how the idea of the book was born and what they have learned when editing

El Niño leads to collaboration for developing ensemble flood forecasting in Peru

Posted on [October 27, 2015](#) by [Liz Stephens](#)

Results of a risk-based decision-making game in water management

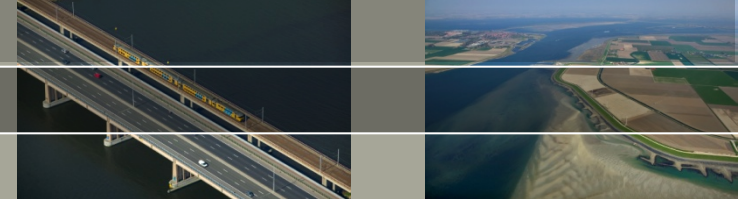
Posted on [July 14, 2015](#) by [Maria-Helena Ramos](#)

By Louise Crochemore, Maria-Helena Ramos, Florian Pappenberger, Schalk-Jan van Andel and Andy Wood You might have participated in the water management game we played for the first time during the Hydrological ensemble prediction session at the EGU Assembly in 2013, ... [Continue reading →](#)



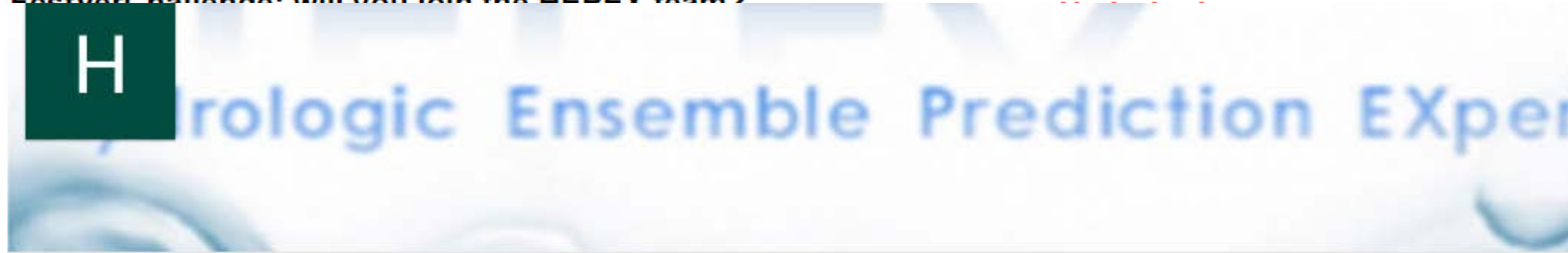
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Examples of activities within HEPEX



EastVerChallenge: will you join the HEPEX team?

Young Hydrologic Society: A Network For Early Career



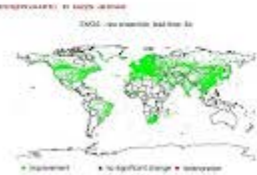
HEPEXWebinars

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HEPEX (Hydrological Ensemble Prediction Experiment) is a scientific community with the mission: To demonstrate the added value of hydrolo... Show more

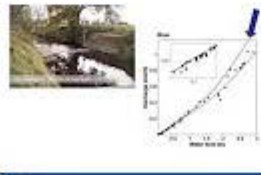
g of ensemble
d future directions

Uploads



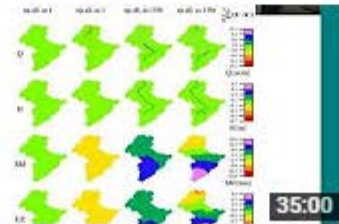
52:19

HEPEX Webinar: Statistical post-processing of ensemble weath...
355 views • 1 year ago



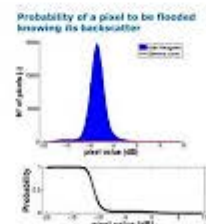
26:40

HEPEX Webinar: Discharge uncertainty: sources and...
247 views • 1 year ago



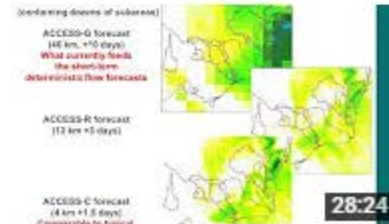
35:00

Albrecht Weerts - OpenDA/Discharge assimilatio...
68 views • 1 year ago



37:15

Patrick Matgen - Data assimilation of flood inundatio...
79 views • 1 year ago



28:24

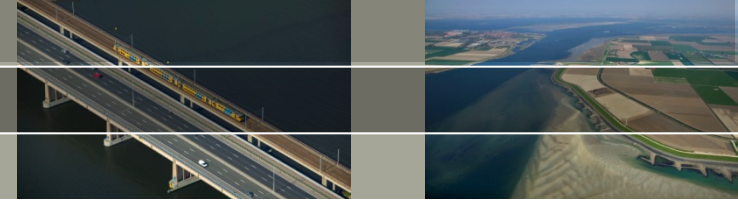
Tom Pagano - Operational hydro-meteorological forecastin...
51 views • 1 year ago



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HEPEX website in numbers



- 215 posts
- 404 comments
- 6 static pages
- ~85000 views

2013 - 2015



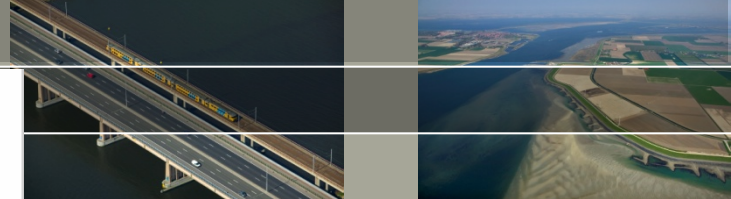
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HEPEX

a community of research and practice to advance hydrologic ensemble prediction



Visit:

www.hepex.org

*Get connected,
get involved!*

- ❑ Connect to HEPEX through the website
- ❑ Present your work in a Webinar
- ❑ Contribute writing blog posts
- ❑ Communicate with other members through: mailing list, LinkedIn, Twitter
- ❑ Participate to HEPEX workshops and meetings
- ❑ HEPEX is a perfect portal to the hydrological prediction community



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