

**Séminaire mercredi le 1 mai 2019 10:00 / Seminar Wednesday May 1st 2019
10:00h**

**Sujet/Subject: The Delft-FEWS hydrological forecast production system:
principles and applications**

Langue/language : Anglais/English

Conférenciers/Lecturers: Dr Jan Verkade, Deltares, Delft, The Netherlands

Résumé/Abstract:

In an approx. 1 hour presentation, Jan will present on the Delft-FEWS hydrological forecast production system. This system is the backbone of a large number of hydrological forecasting agencies throughout the world. These include national organizations including the US National Weather Service, the UK Environment Agency, the Scottish Environment Protection Agency, the Dutch National Water Authority, the Australian Bureau of Meteorology and many more. Closer to home, Delft-FEWS users include the Ministère de l'Environnement et de la Lutte contre les changements climatiques, the Alberta Ministry of Environment and Parks as well as various hydropower production companies such as BC Hydro, the Bonneville Power Administration, TransAlta and Manitoba Hydro.

Jan will explain the system's principles and workings and showcase a variety of applications. These will include client-server systems used in operational forecasting settings as well as stand-alone applications used for research and development purposes. The presentation will include various modules often used as part of Delft-FEWS applications such as statistical post-processing routines, various third-party hydrologic and hydrodynamic models and RTC Tools for reservoir optimization. Some technical background to the Delft-FEWS system will be given also. Finally, Jan will explain the role of the Delft-FEWS Community for Realtime Hydrological Forecasting in the development of the Delft-FEWS software.