



Delft-FEWS North America News

Dear Delft-FEWS User,

Several times per year Deltares sends out the FEWS-News. An interesting newsletter filled with information about Delft-FEWS and the world-wide community. Deltares USA focusses primarily on the North American Delft-FEWS users and we noticed there was an interest to share more locally oriented knowledge and experiences. Therefore, in addition to the general Delft-FEWS News, we will also send you the local news!

River Ice Forecasting Testbed project started!

In December the River Ice Forecasting Testbed project started. This is an exciting collaborative research project between Deltares and the Universite Laval, in which hydrological and hydraulic models are integrated with the aim to improve river ice forecasting. The testbed is a Delft-FEWS application which will contain River Ice Remote Sensing data, a Delft3D Ice simulation module, the HOOPLA model and a HEC-RAS model. The project is expected to finish at the end of this year. More information [in this article](#).

Exciting end of 2021 with Log4J

Just before the Christmas holiday worldwide news media were buzzing about a new vulnerability in the widely used Log4J library. Also Delft-FEWS uses this library. Fortunately, the Delft-FEWS development team was quick with an assessment that Delft-FEWS systems were not vulnerable. Because we were just about the release the final 2020.02 NA version of Delft-FEWS, we were able to provide a final release that also includes the current Log4J version. More information can be found on the [Delft-FEWS portal](#).

Deltares forecast system second in DARPA competition

In a thrilling competition with 31 participants, a Deltares team ended on second place. In the competition, teams had to make 10-day forecasts of drifters' trajectories on the Atlantic Ocean. The Deltares approach used a Delft-FEWS platform in which models and real-time data were integrated in order to make accurate forecasts. More information [in this article](#).

Seamless integration of Raven model boosts performance and functionality

On request of the Delft-FEWS users that use Raven models as their hydrological forecast engine, prof. James Craig enhanced the Raven functionality to allow for seamless integration in Delft-FEWS. Without a model adapter, the performance has increased manyfold. Additionally, most parameters and variables can now directly be updated/adapted via Delft-FEWS which allows for much more extensive control and interaction. Read [this blog post](#) for more information.

We hope you found this newsletter interesting. Any experiences, suggestions or stories you would like to share with other North American Delft-FEWS users? Don't hesitate to contact us!



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