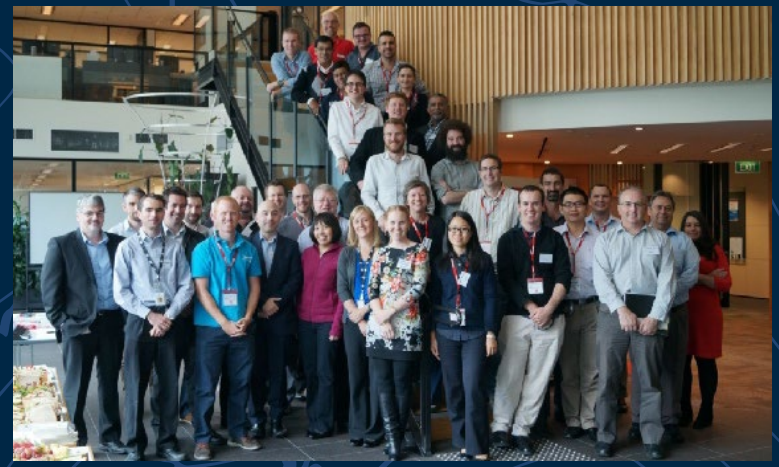
Community Talk

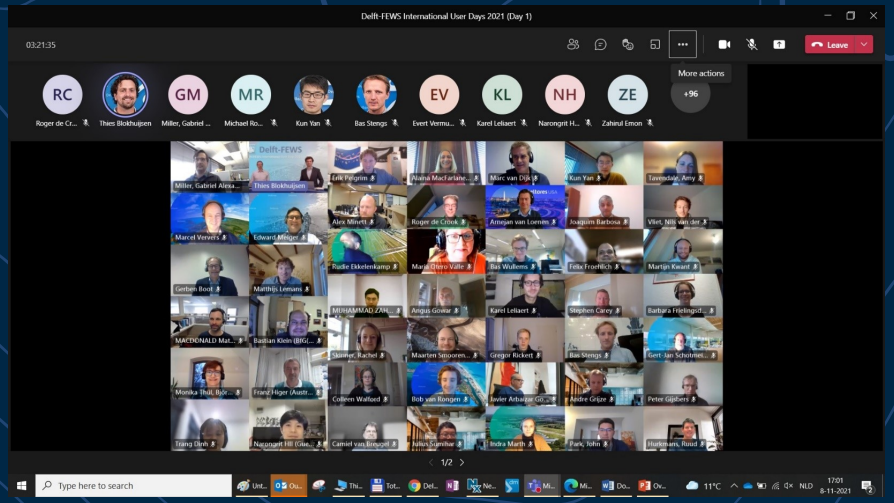
Welcome to the FEWS Community

Delft-FEWS
Map of the world

Delft-FEWS Australian User Days 2014



Delft-FEWS International User Days 2019

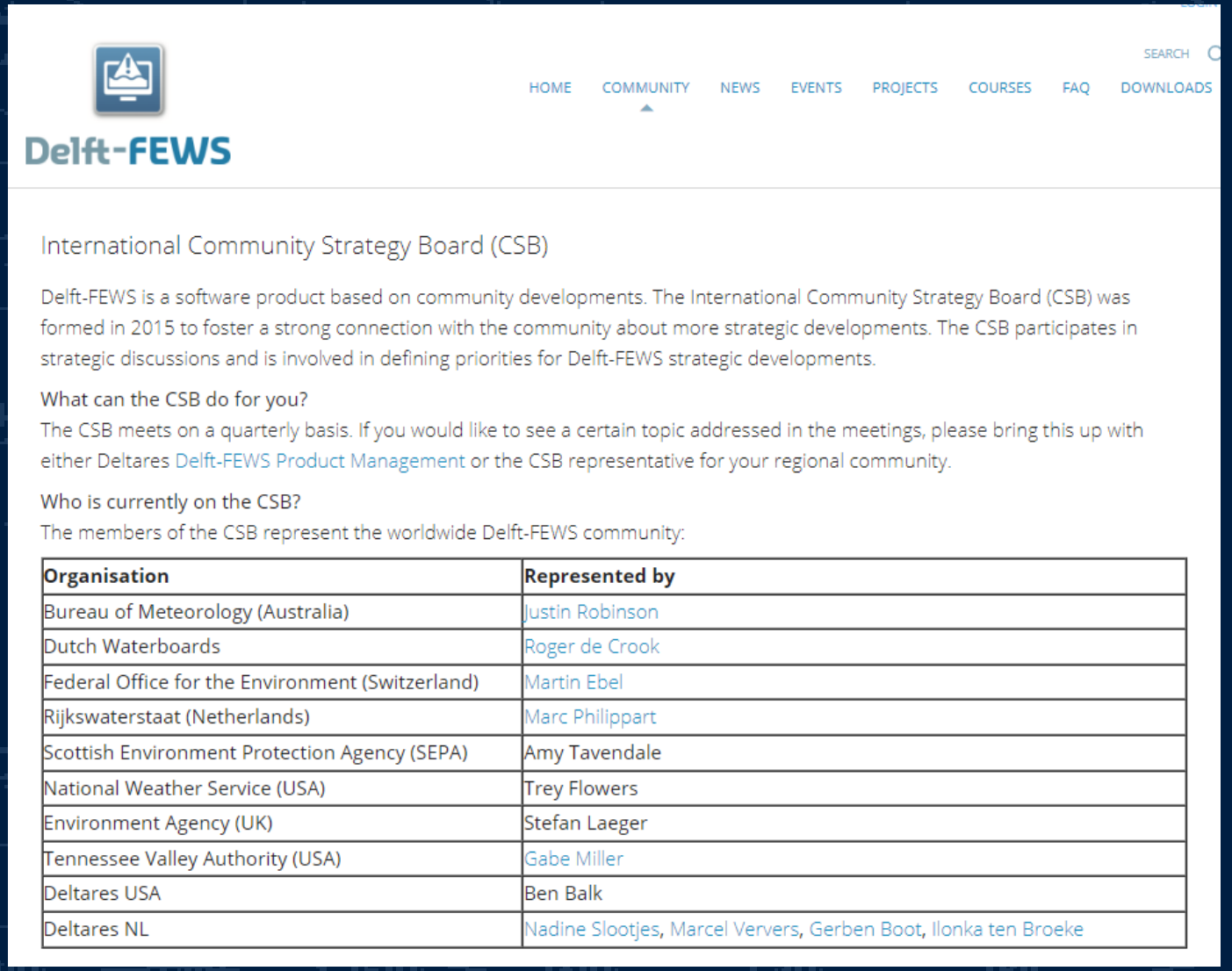


Delft-FEWS International User Days 2021

Community Talk

An initiative of the Delft-FEWS Community Strategy Board

- Welcome (Amy Tavendale - Scottish Environment Protection Agency (SEPA))
- Update on FEWS Releases and Plans (Marcel Ververs – Deltares)
- FEWS Talk (Justin Robinson – Bureau of Meteorology (Australia))
- Community Breakout (The FEWS Community)



Delft-FEWS

HOME COMMUNITY NEWS EVENTS PROJECTS COURSES FAQ DOWNLOADS SEARCH

International Community Strategy Board (CSB)

Delft-FEWS is a software product based on community developments. The International Community Strategy Board (CSB) was formed in 2015 to foster a strong connection with the community about more strategic developments. The CSB participates in strategic discussions and is involved in defining priorities for Delft-FEWS strategic developments.

What can the CSB do for you?

The CSB meets on a quarterly basis. If you would like to see a certain topic addressed in the meetings, please bring this up with either Deltares Delft-FEWS Product Management or the CSB representative for your regional community.

Who is currently on the CSB?

The members of the CSB represent the worldwide Delft-FEWS community:

Organisation	Represented by
Bureau of Meteorology (Australia)	Justin Robinson
Dutch Waterboards	Roger de Crook
Federal Office for the Environment (Switzerland)	Martin Ebel
Rijkswaterstaat (Netherlands)	Marc Philippart
Scottish Environment Protection Agency (SEPA)	Amy Tavendale
National Weather Service (USA)	Trey Flowers
Environment Agency (UK)	Stefan Laeger
Tennessee Valley Authority (USA)	Gabe Miller
Deltares USA	Ben Balk
Deltares NL	Nadine Slootjes, Marcel Ververs, Gerben Boot, Ilonka ten Broeke

Community Talk

Justin Robinson

Community Services Group | Environmental Prediction - Water
Australian Bureau of Meteorology

Photo: Jason O'Brien/EPA

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What is new and what is to come in 2022 at the BOM

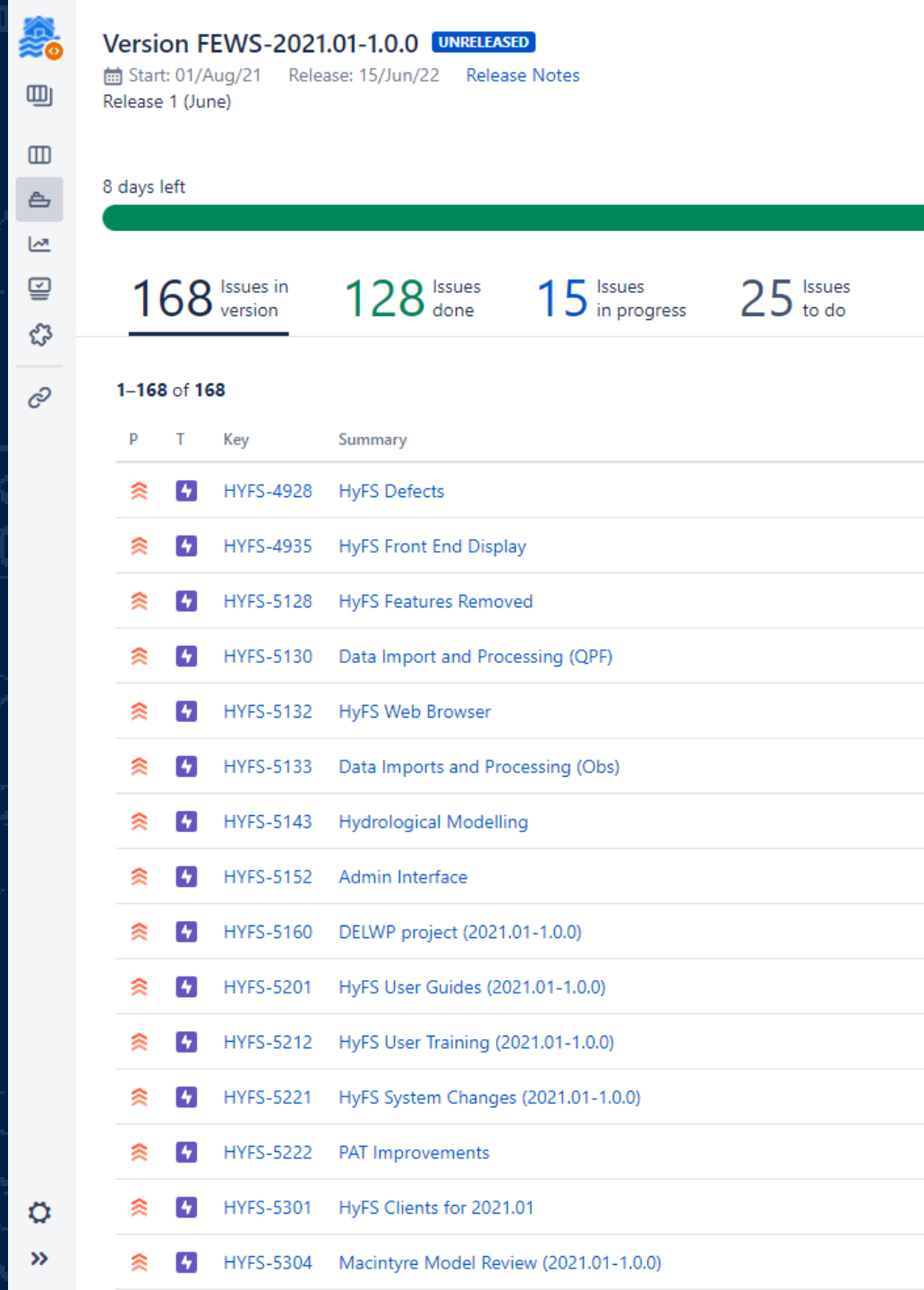
- The Bureau is almost ready to jump 5 years to the present from our 2017 version of FEWS to 2021.01
- I want to say thanks to the FEWS community for all the fantastic new features in the latest version of FEWS
- Cutover date is scheduled for July this year!

- Share how we manage our FEWS System and some of the features (old and new) we really like about FEWS

Encourage people to ask questions via the chat and the community can provide answers in real time!

The BOM's FEWS System is called HyFS

The Bureau uses JIRA and GIT and Source Tree to manage the FEWS Configuration



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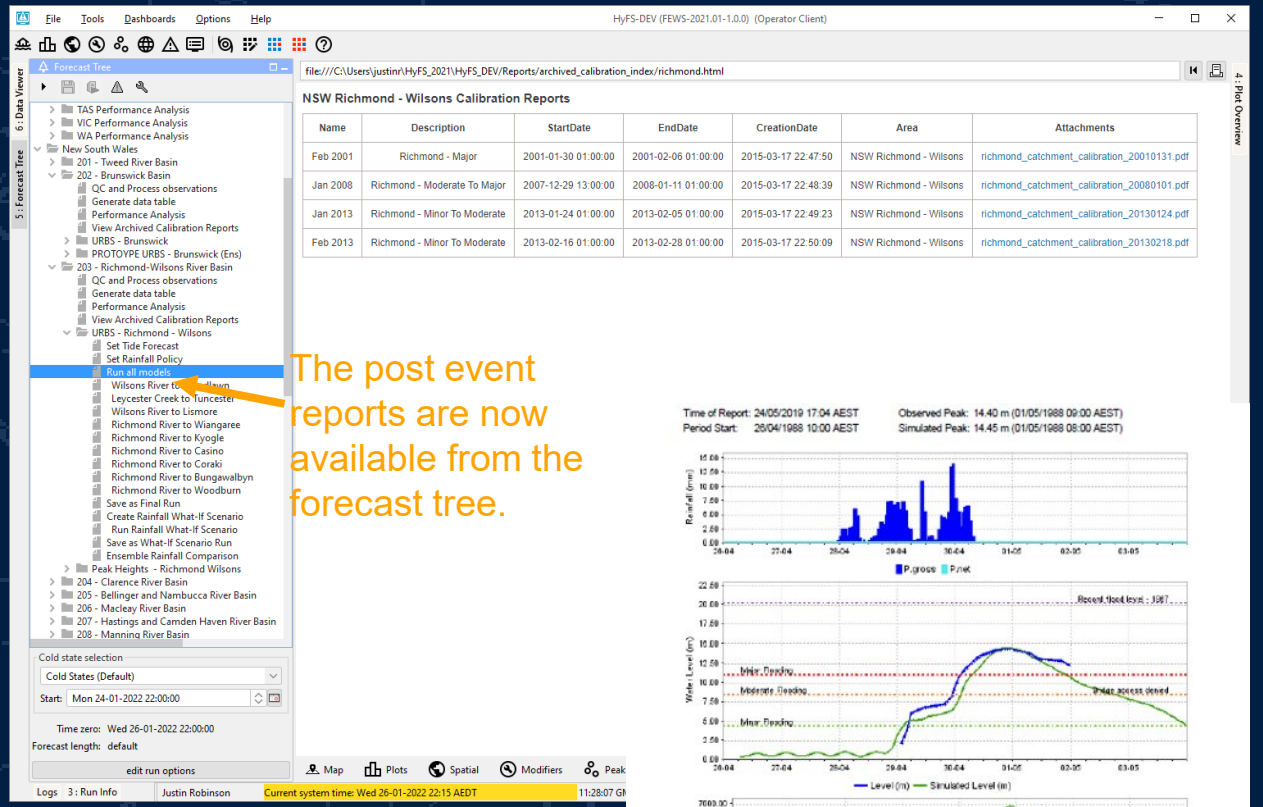
We have more than one FEWS System

- HyFS has a set of live and off-line systems to support training, testing and continuous improvement, as well as post-event model testing and analysis.

- HyFS-PROD - Primary FEWS System
- HyFS-PROD-DR - Secondary FEWS System
- HyFS-UAT - Primary Training and acceptance testing
- HyFS-UAT-DR - Secondary Training and acceptance testing
- HyFS-DEV - Live development system
- HyFS-GIT - Offline development system
- HyFS-SA - Offline analysis using data from the HyFS archive
- HyFS-WC - Water Coach for training using historical flood events.

The BOM's FEWS System is called HyFS (Hydrological Forecasting System)



The post event reports are now available from the forecast tree.

Our new release includes improved Post Event Reports which are downloaded from the archive.

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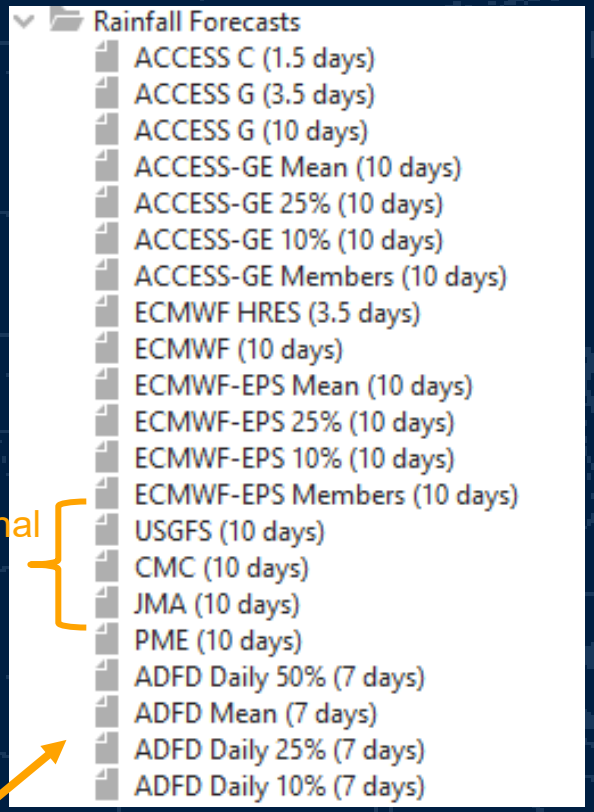
Spatial Display

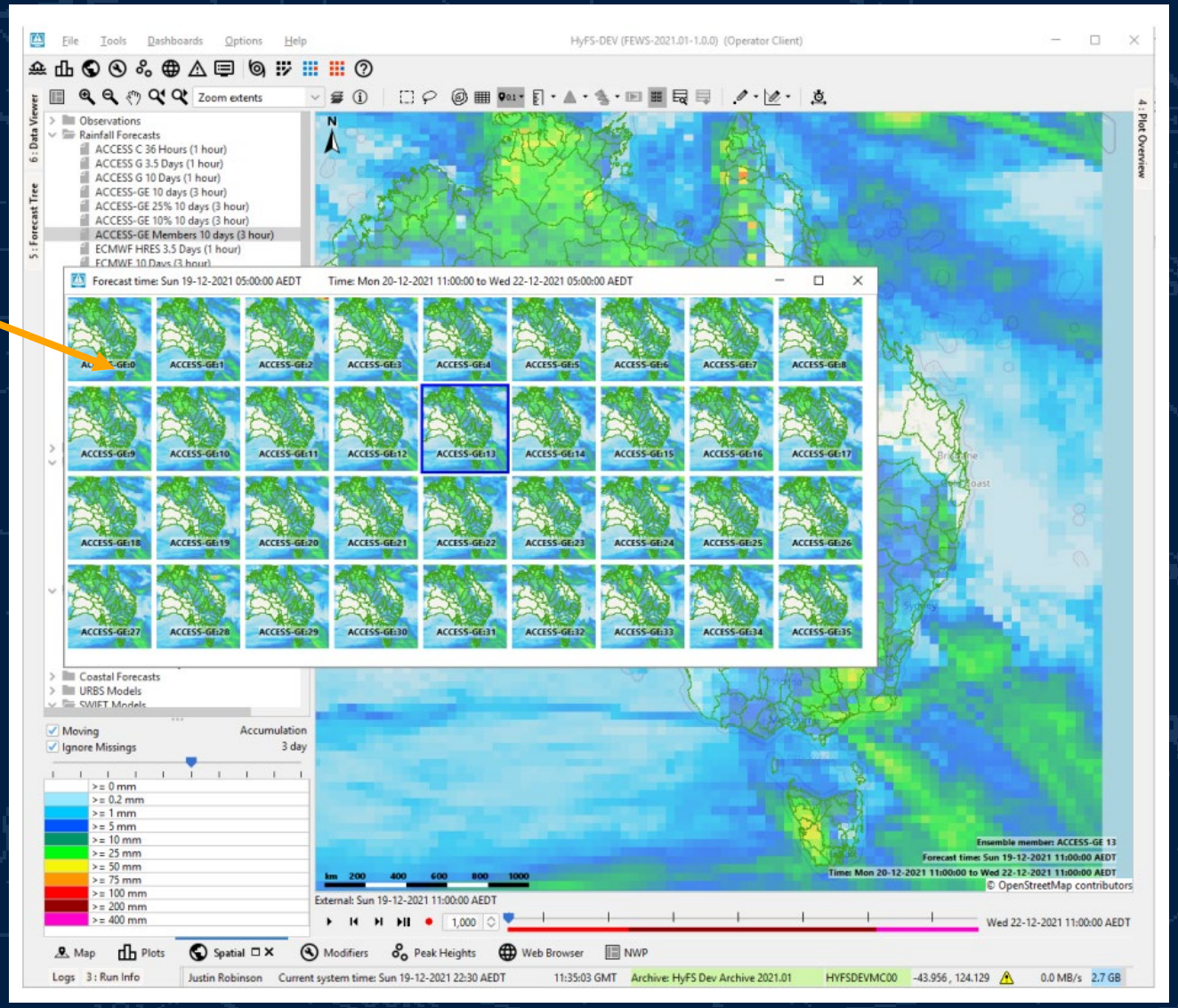
- New Rainfall Forecasts:



New International Models

The NexGen forecasts are now called ADFD and HyFS now uses the daily percentile forecasts.

Ensemble Thumbnail Viewer



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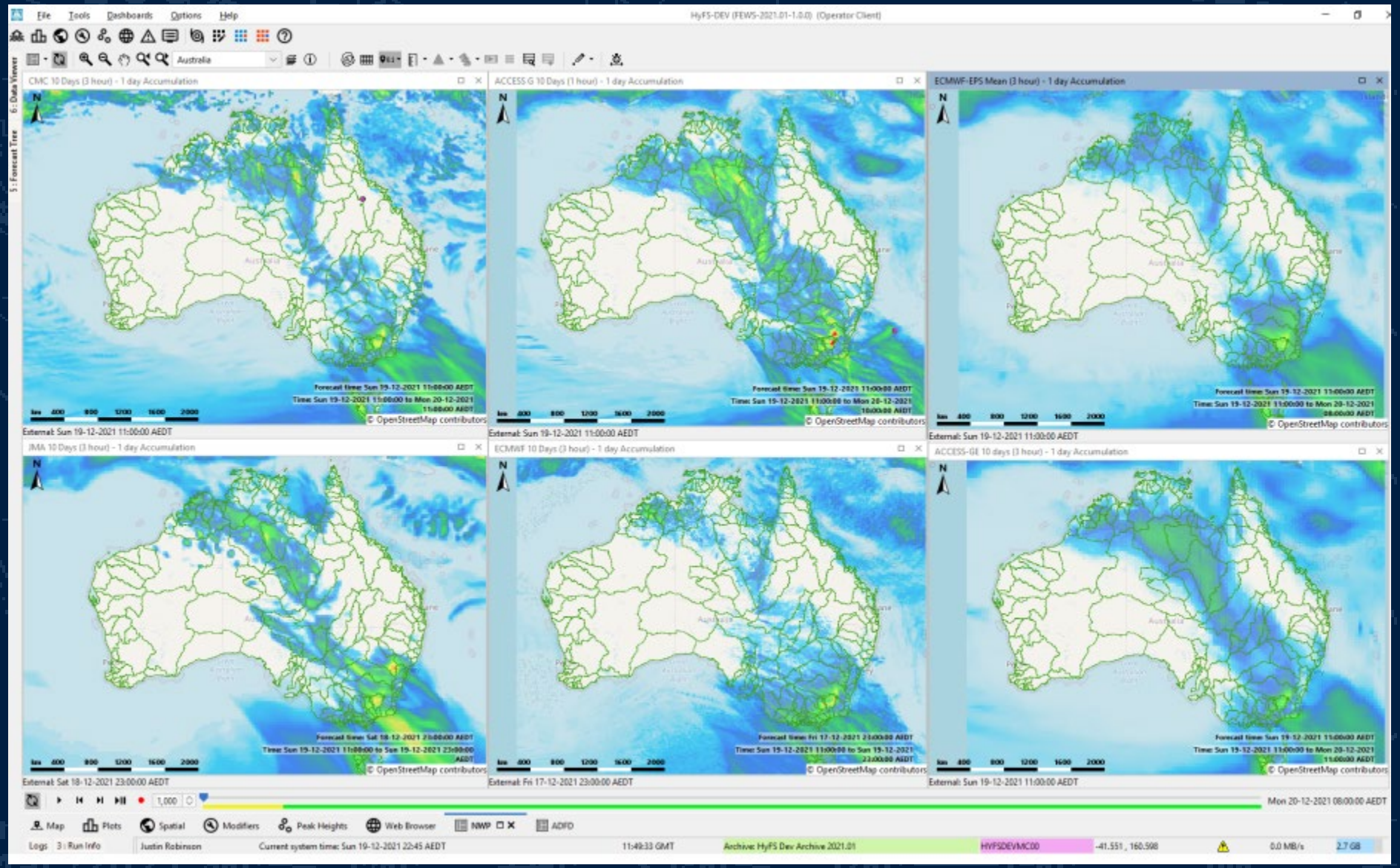
Dashboard Display

There are a set of pre-defined dashboards or you can build your own from the plots and spatial display

View of the rainfall forecast on the new dashboard display.



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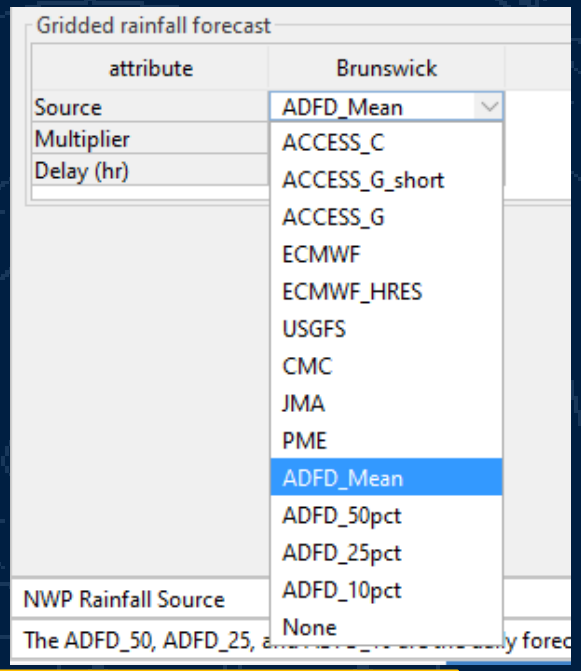
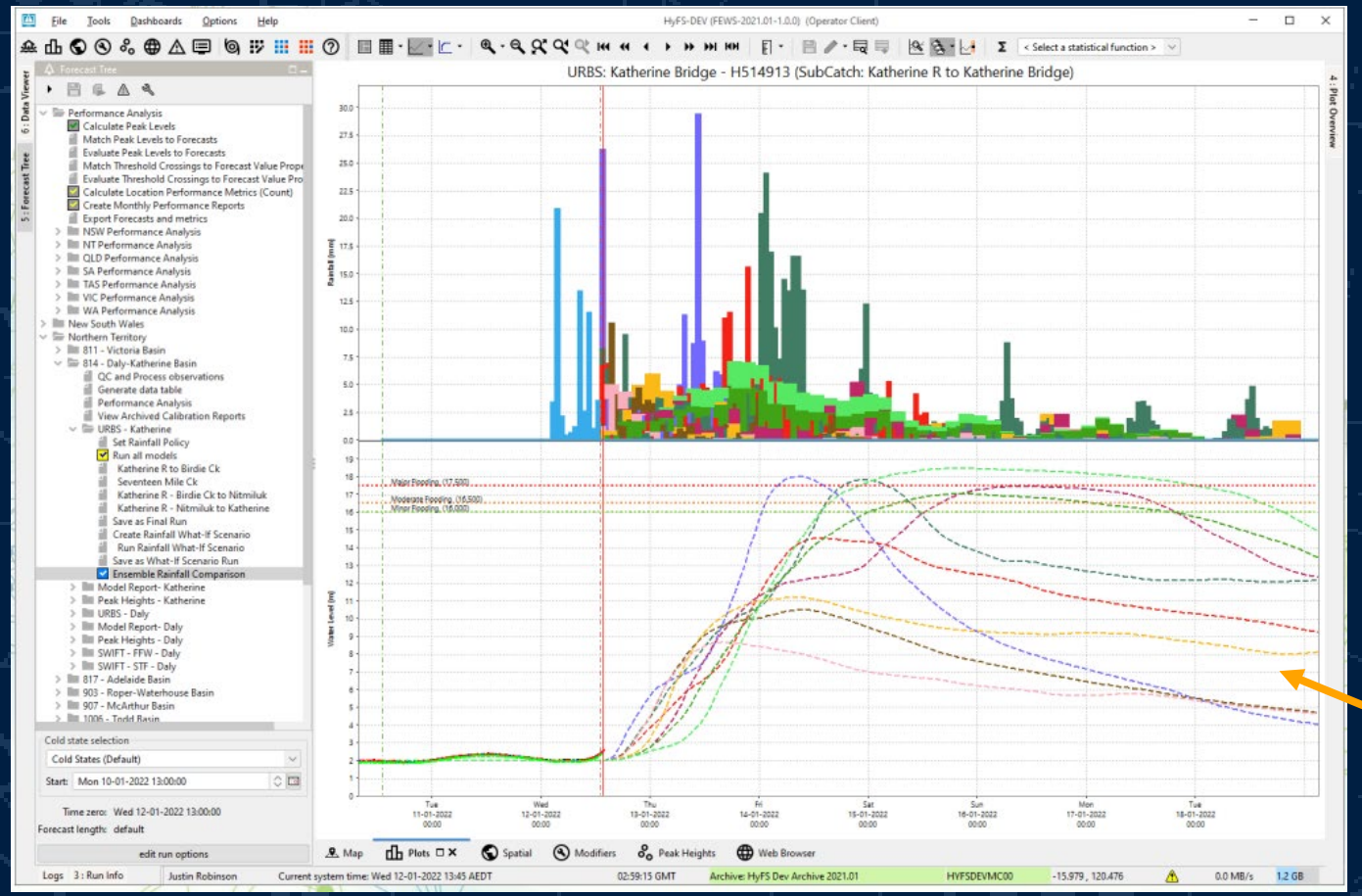
Ensemble Rainfall Comparison

The default rainfall policies are the ADFD_Mean and the ADFD_25pct (What-if)



ADFD are forecasts prepared by our operational meteorologists



Includes – ACCESS C and G, ECMWF-HRES, JMA, CMC, USGS

Plan to start running ACCESS and ECMWF Ensembles next release

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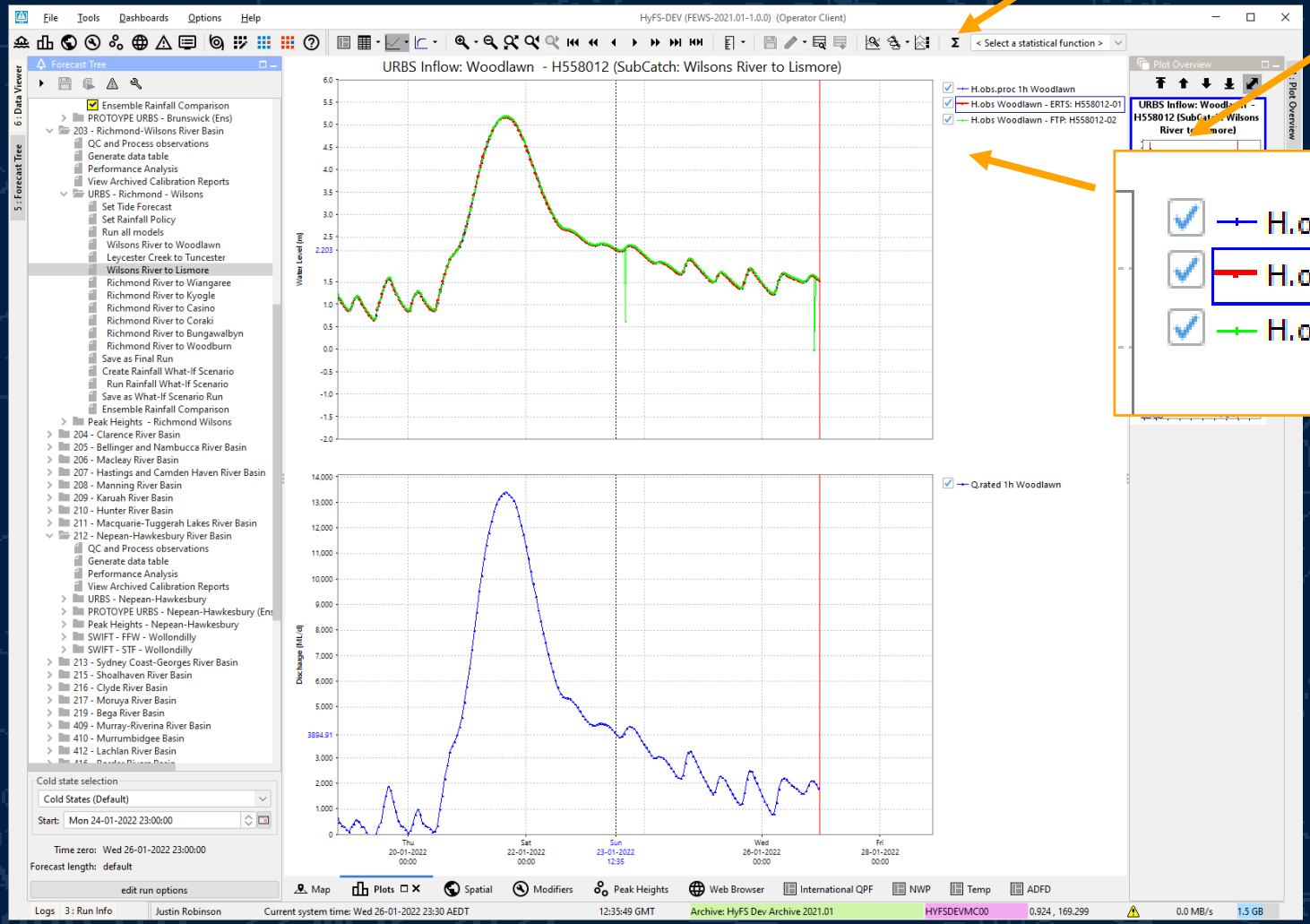
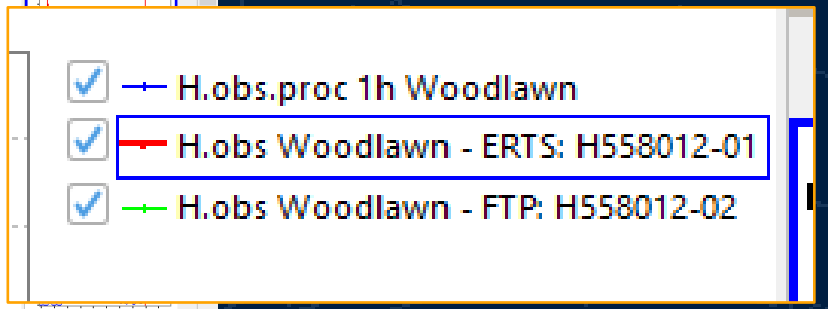
Plot Over View Displays

Quick accumulation tool

Nice that you can have your own icon to the functions you frequently use

Hide and show timeseries using tick box selection



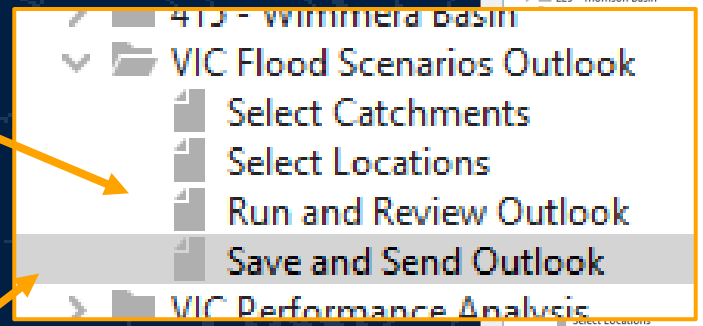


The plot overview now shows the sensor level observed data as well as processed data used in the model runs

We really like the new feature where you can show on the plot but not in the table

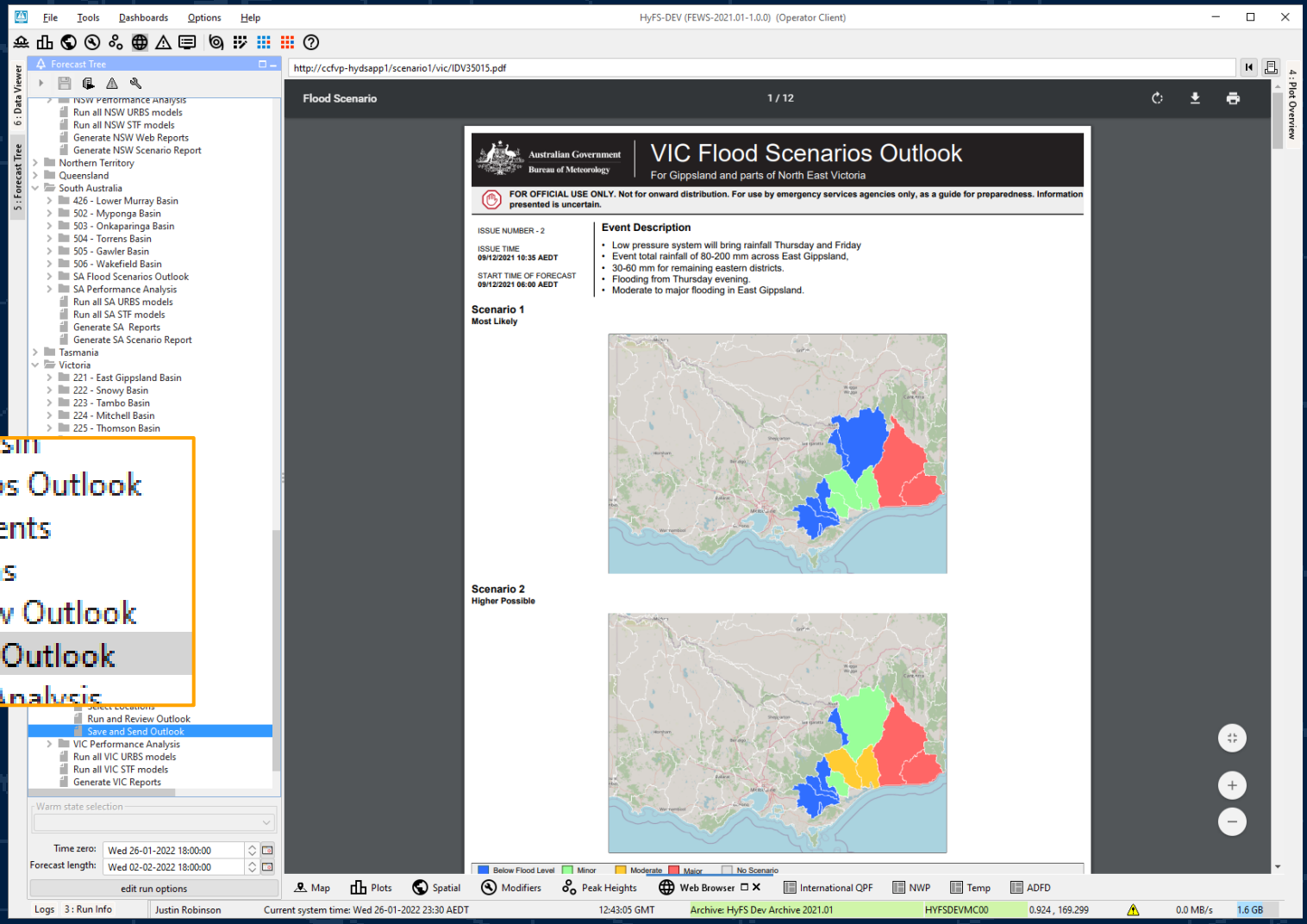
Web Viewer

- The new web viewer is linked to the forecast tree and is used to view pdf and html reports created by FEWS.



View Preview

View Latest Issued Outlook



View of the flood scenario outlook on the web viewer (linked to the forecast tree)

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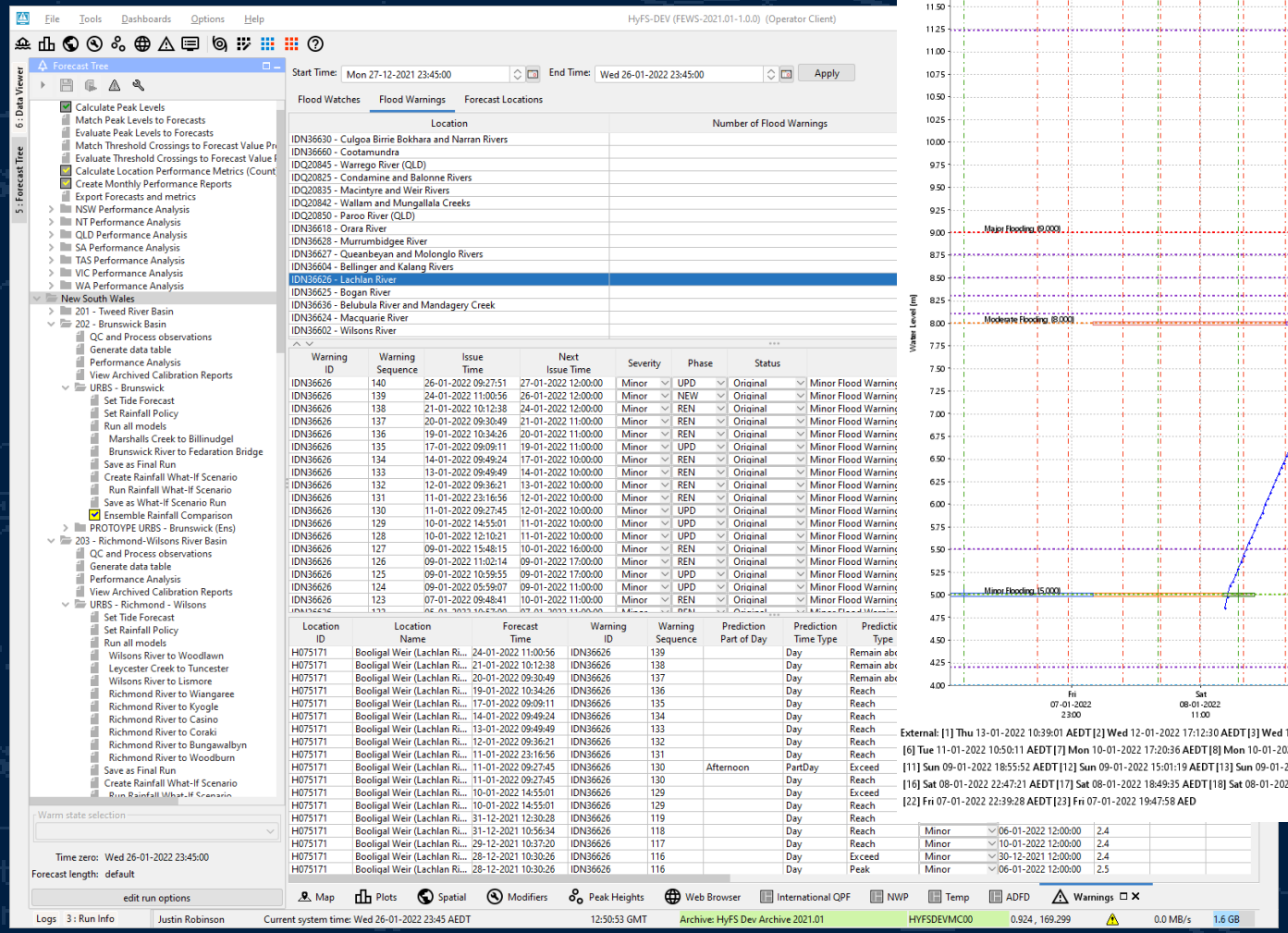
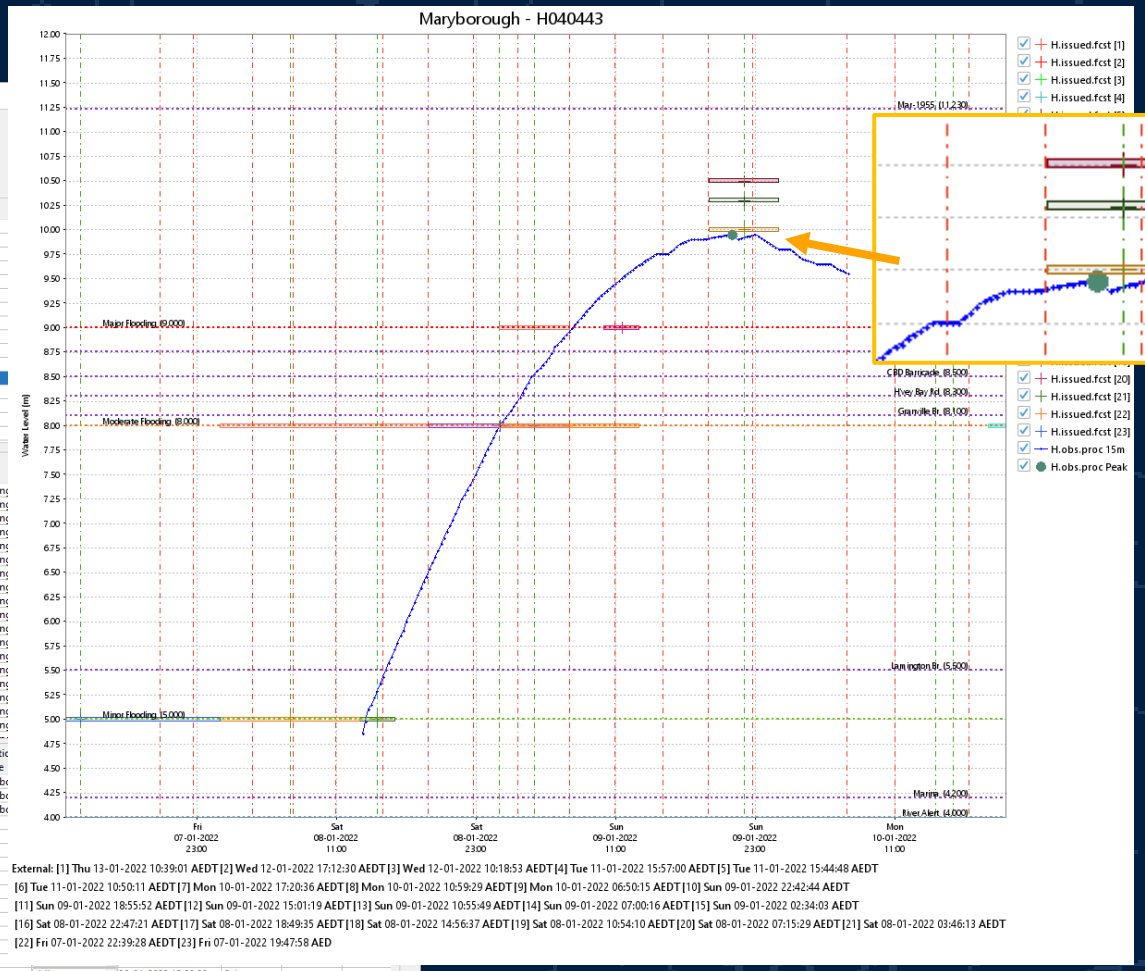
Warnings Display





Automatic Peak Identification

View issued forecasts and warnings on the plots display

View issued forecasts and warnings. Also used for quality control for the performance analysis tool

Display developed for the Bureau to support our automated performance analysis

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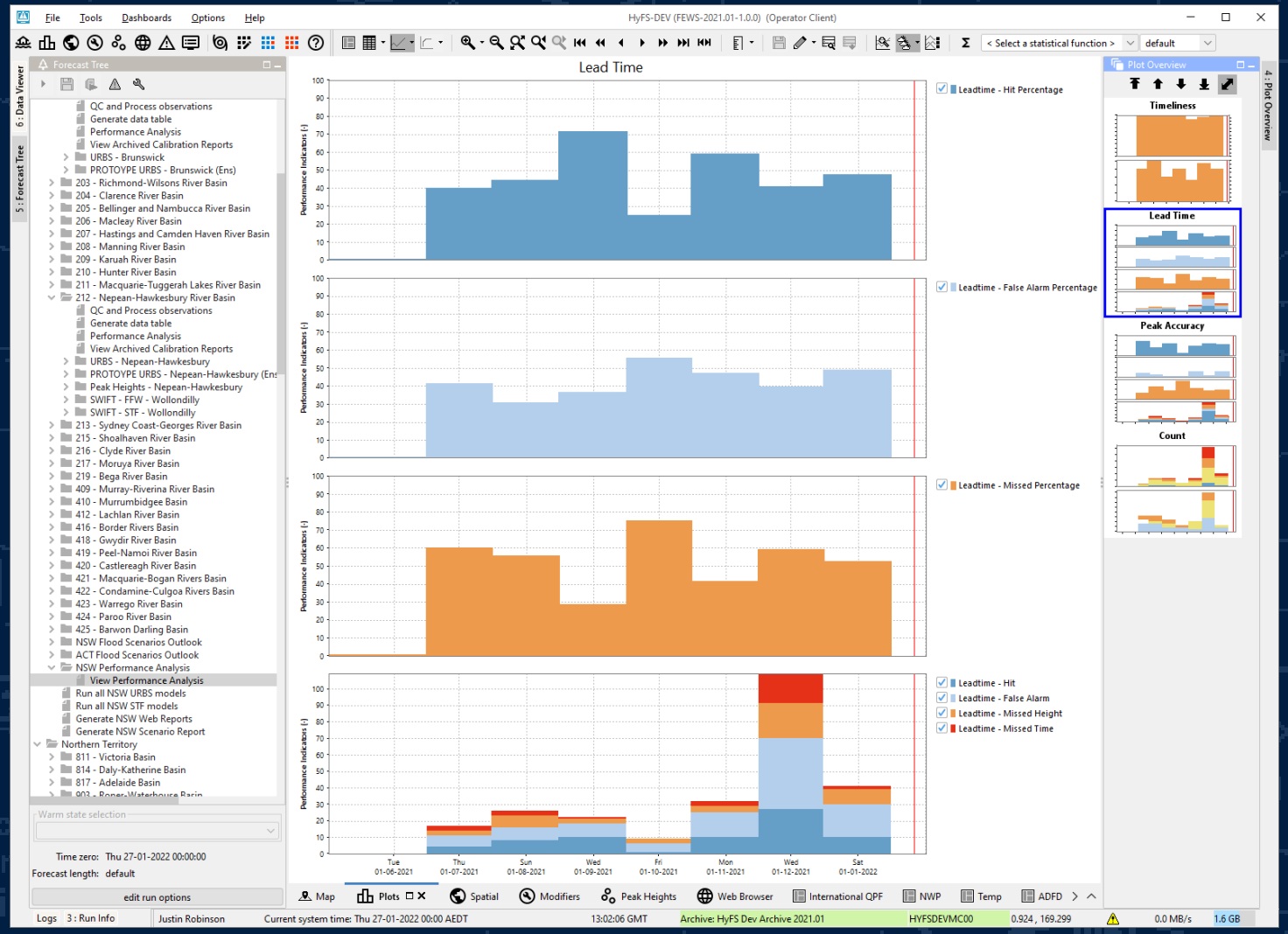
Performance Analysis



View Performance KPIs at the State/Territory and Basin Scale

Automatically calculates performance KPIs for each month (still requires quality control via Warnings Display)

KPIs of Timeliness, Lead Time, Accuracy as well as the number of warnings

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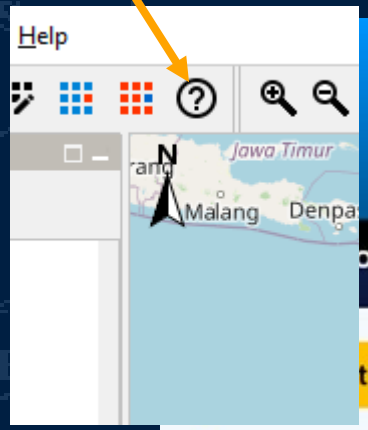
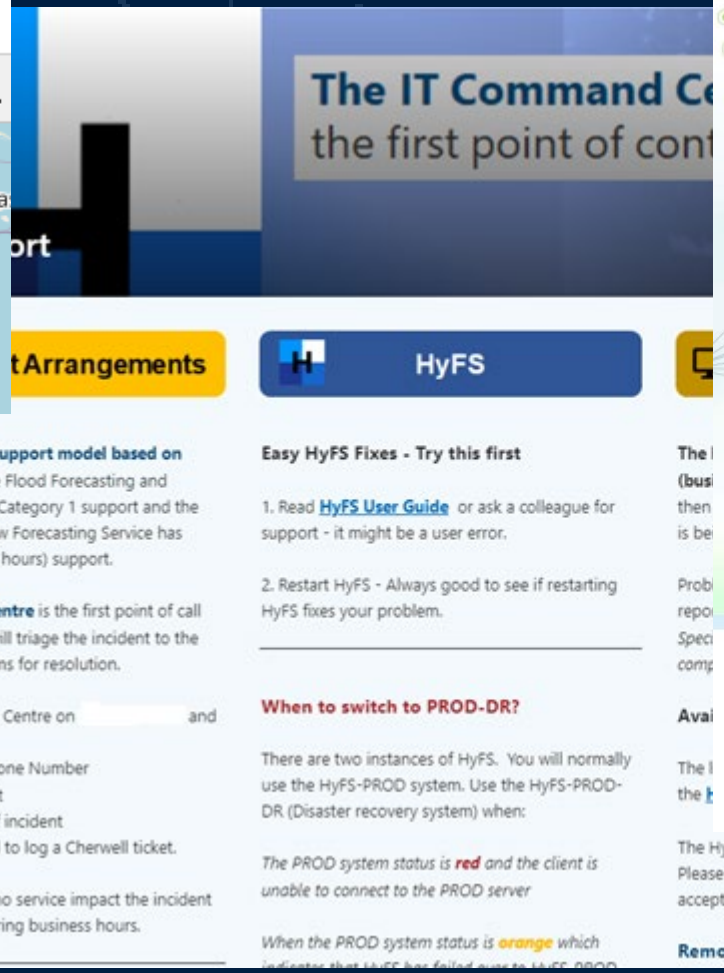
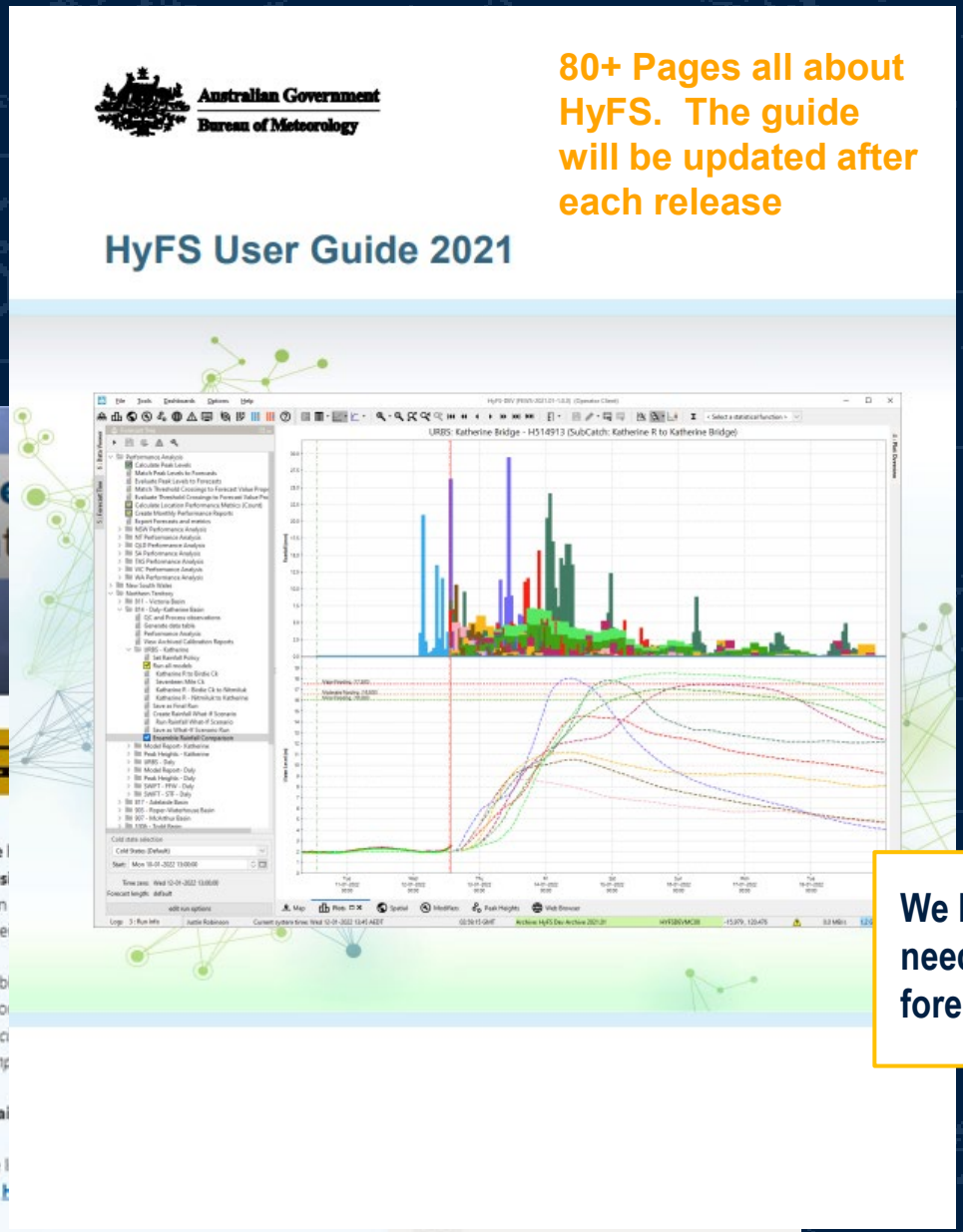
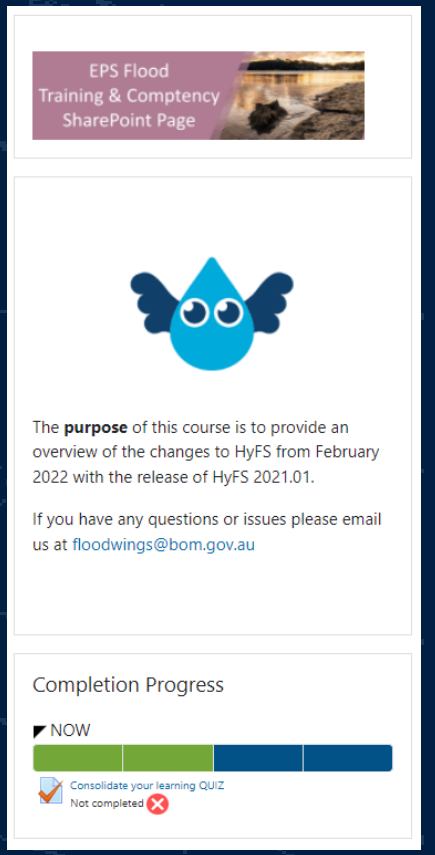
User Help, Support and Training

The help icon provides support information









We have user training that needs be completed by forecasters before we go live

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What is next?

1. FEWS archive improvements – all about quality controlling data on the archive.

2. Getting FEWS to do more for us – we don't want to maintain so many bespoke systems.

3. Web Services – making the information held in the FEWS data system available to other systems within the Bureau.

4. Security, Security, Security …

The Bureau is working on a number of proof of concept (POC) projects on what a flood extent forecasting or warning service may look like

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Now to meet the community