

Delft-FEWS 2023.02 **New features**

International Delft-FEWS User Days

Delft-FEWS Product Management

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November 2023






Introduction...

- Welcome
- What's new in 2023.02?
- Organisational changes
- Events & webinars
- Outlook to 2024.01

As usual: [Links for more info](#)

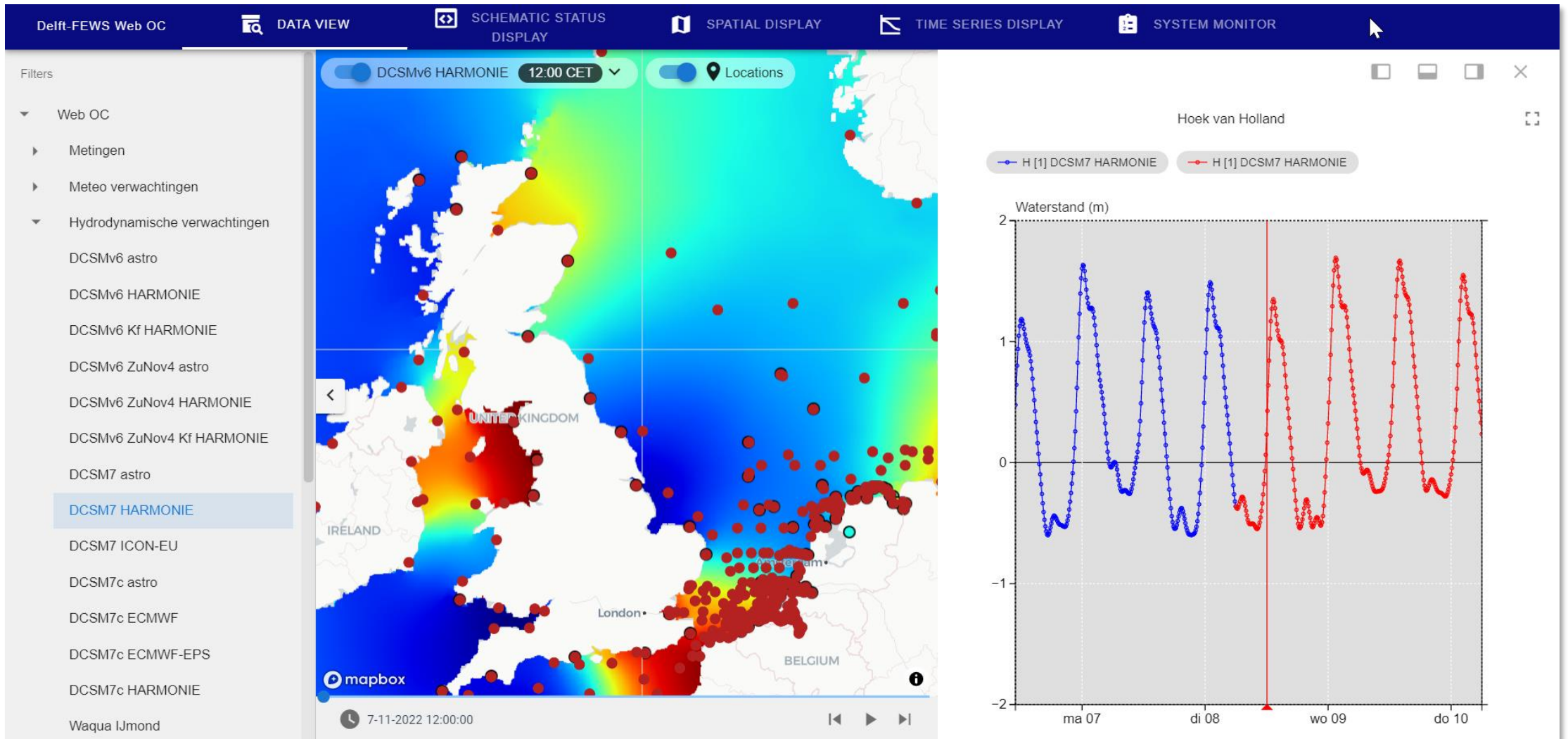


Highlights of the 2023.02

-  Enjoy the **web-based OC MVP** release
-  Query new **endpoints** via the FEWS web services
-  Manage **location & location-attributes** in a new display
-  Manage **datafeeds & exports** via the Admin Interface
-  Discover the integrated reservoir model



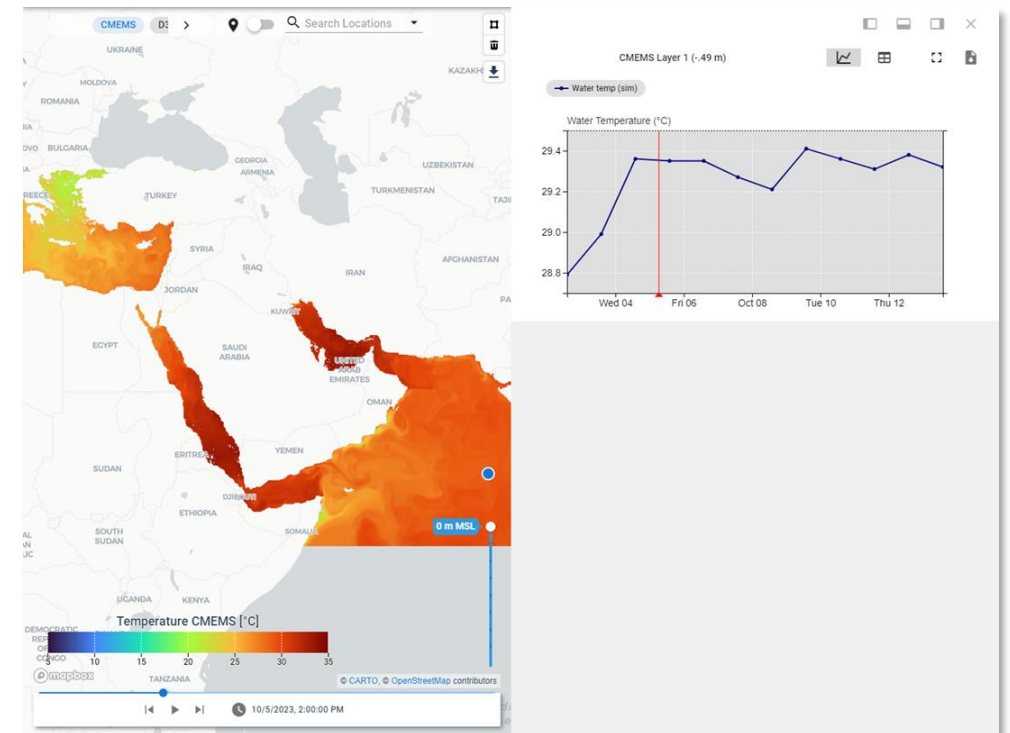
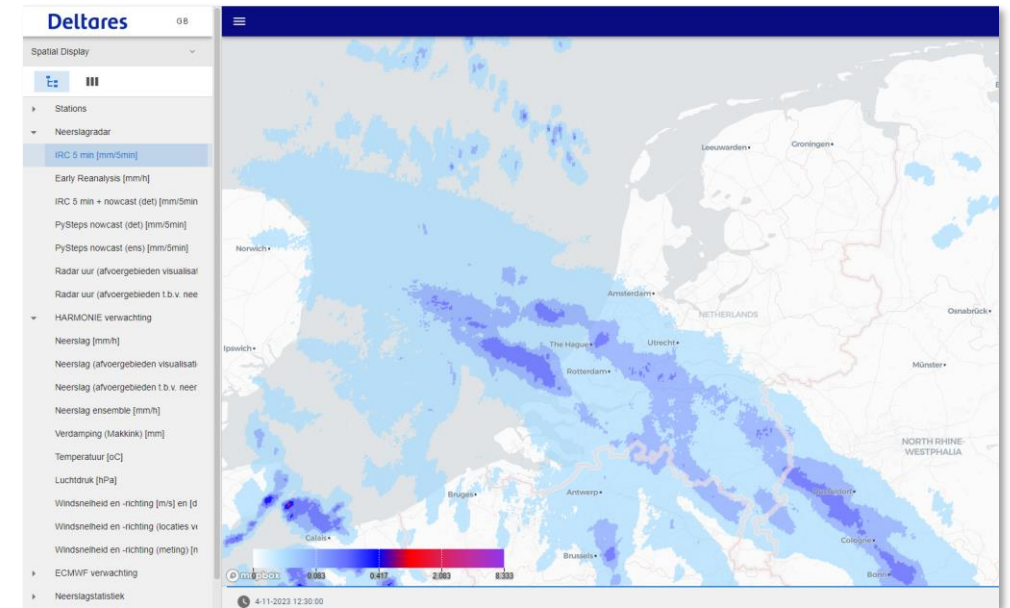
Web Operator Client (MVP)



Web Operator Client

Main principles & main functionality

- Web OC **configuration** managed from Delft-FEWS configuration
- Use **topology** for navigation.
- Visualization of **data**
 - **Scalar** time series from **filters** and **display groups** (graph and table) + data quality flags
 - **Spatial** data
 - **Schematic Status Display** + click-actions
- Visualization of **monitoring** information
 - **Running** tasks
 - **Import** status





Web Operator Client

Relevant FEWS configuration

- **SystemConfigFiles** → `WebOperatorClient.xml` → visible **components**
- **PiServiceConfigFiles** → `WebServices.xml` → visible **data**
- Good to know: Web OC is *permission aware*
- Role based access possible via OpenID Connect/OAuth2 (access tokens)

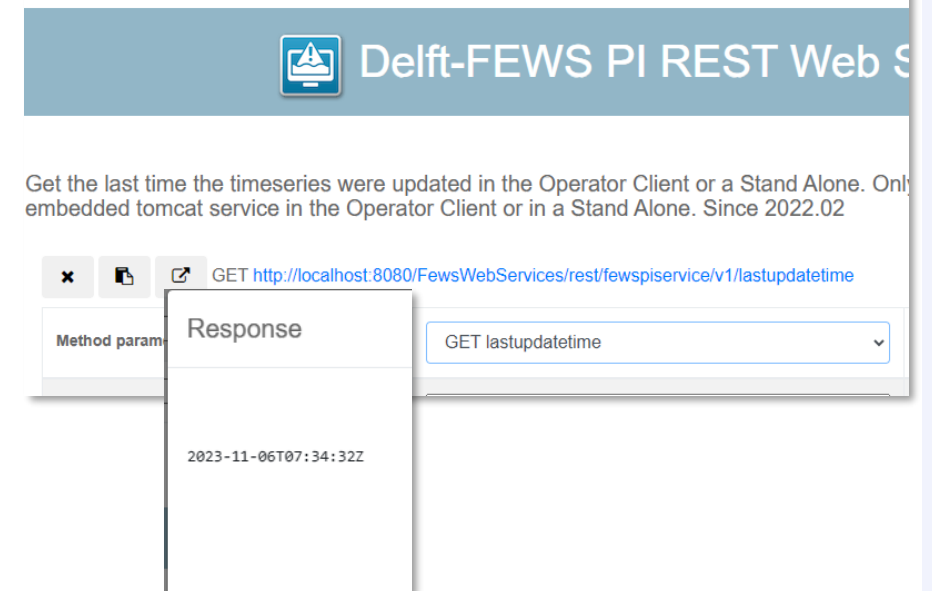
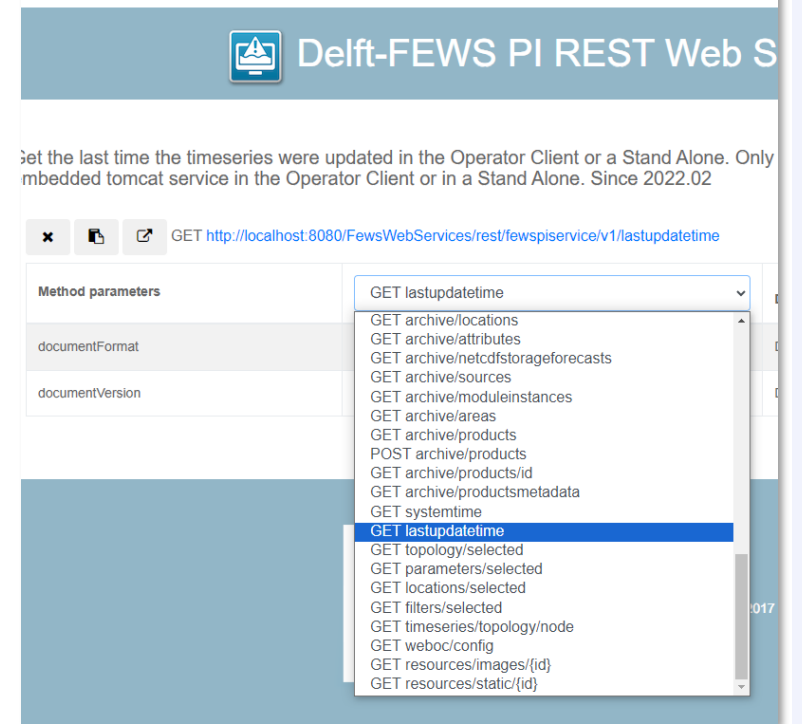
Deployment options

- Testable in **Stand-Alone** (shown before) → [documentation](#)
- **Webserver** (NGINX, Tomcat, Azure Static Web App) → [documentation](#)
- **BREAK-OUT session** for more details!

Web Service Endpoints

- Conclusion: REST web service (endpoints): **continuous** developments
 - Several 'drivers': both national and international users
- Condition: keep the (SA) **test-page** in line with latest developments (tomcat-server and/or embedded webservice)
- Support of **less verbose CSV-type response** for locations, parameters (all other lists in 2024.01)
- Get **samples**:
 - streaming response
 - response now includes **value** properties and **sample** properties
- Get **interval statistics** from timeseries
- Get timeseries/**grid** to be used in combination with WMS service
- Get **resources**: get a web resource (e.g. image, css-file)
- Get **lastupdatetime** (of web service): up-to-date data(!)

Deltares





Metadata Management

HyFS-SA (FEWS-2021.01-1.0.0) (Stand alone)

MapLayerFiles/Australia/AUS_sensors_BOM.csv
 MapLayerFiles/Australia/AUS_sensors_acceptance.csv
 MapLayerFiles/Australia/AUS_sensor_idmap.csv
 MapLayerFiles/Australia/AUS_sensors_hyfs_attributes.csv
 MapLayerFiles/Australia/AUS_sensor_validation.csv
 MapLayerFiles/Australia/AUS_station_thresholds.csv
 MapLayerFiles/Australia/AUS_station_peakheights.csv
 MapLayerFiles/Australia/AUS_station_model_idmap.csv
 MapLayerFiles/Australia/AUS_station_hyfs_attributes.csv

~LOCATION_NAME	HYFS_SENSORID	HYFS_STATION_ID	REGION	SENSOR_TYPE	GAUGE_OFFSET_LOCALTOAHD	GAUGE_DATUM	P_REPORT_TIMESTEP	TELEMETRY_TYPE	DATA_SOURCE	--LAST
Coliban River Springhill Road - H588035-02	H588035-02	588035	VIC	rain gauge;water level gauge;		LGH	15m	FTP	bom569	
Coliban River Ds Launston Res - H588036-01	H588036-01	588036	VIC	water level gauge;				ERTS	ERTS	
Goulburn River @ D/S Eildon - H588125-01	H588125-01	588125	VIC	water level gauge;	205.729	LGH		LOG	LOG	
Goulburn River @ D/S Eildon - H588125-02	H588125-02	588125	VIC	water level gauge;				FTP	bom569	
Sunday Creek @ Tallarook - H588126-01	H588126-01	588126	VIC	rain gauge;water level gauge;		153.999	LGH	LOG;FTP	bom569	
Sunday Creek @ Tallarook - H588126-02	H588126-02	588126	VIC	rain gauge;water level gauge;			15m	FTP	bom569	
Delette River @ Tonga Bridge - H588127-01	H588127-01	588127	VIC	rain gauge;water level gauge;		312.764	LGH	LOG;FTP	bom569	
Delette River @ Tonga Bridge - H588127-02	H588127-02	588127	VIC	rain gauge;water level gauge;			15m	FTP	bom569	
Hughes Ck @ Tarcombe Road - H588128-01	H588128-01	588128	VIC	water level gauge;		157.854	LGH	ERTS	ERTS	
Hughes Ck @ Tarcombe Road - H588128-02	H588128-02	588128	VIC	water level gauge;		157.854	LGH	FTP	bom569	
King Parrot Ck @ Flowerdale - H588129-01	H588129-01	588129	VIC	rain gauge;water level gauge;		258.092	LGH	LOG	LOG	
King Parrot Ck @ Flowerdale - H588129-02	H588129-02	588129	VIC	rain gauge;water level gauge;			15m	FTP	bom569	
Lake Eildon - H588130-01	H588130-01	588130	VIC	reservoir;water level gauge;				MAN	MAN	
Loddon River At Cairn Curran Hg - H588131-01	H588131-01	588131	VIC	reservoir;water level gauge;				MAN	MAN	
Leigh River At Shefford (Highway Bridge) - H589001-01	H589001-01	589001	VIC	rain gauge;water level gauge;			15m	LOG	LOG	
Leigh River At Shefford (Highway Bridge) - H589001-02	H589001-02	589001	VIC	rain gauge;water level gauge;		LGH	15m	FTP	bom569;bom569	
Barwon River @ Inverleigh - H589003-01	H589003-01	589003	VIC	rain gauge;water level gauge;			15m	LOG;FTP	bom569	
Barwon River @ Inverleigh - H589003-02	H589003-02	589003	VIC	rain gauge;water level gauge;			15m	FTP	bom569	
Mount Emu Creek At Skipton - H589007-01	H589007-01	589007	VIC	water level gauge;		270.48	LGH	LOG	LOG	
Mount Emu Creek At Skipton - H589007-02	H589007-02	589007	VIC	water level gauge;				FTP	bom569	
Mount Emu Creek At Mena Park - H589008-01	H589008-01	589008	VIC	rain gauge;water level gauge;		LGH	15m	LOG;FTP	bom569	
Mount Emu Creek At Mena Park - H589008-02	H589008-02	589008	VIC	water level gauge;		LGH		FTP	bom569	
Hopkins River At Ararat - H589009-01	H589009-01	589009	VIC	rain gauge;water level gauge;			15m	LOG	LOG	
Hopkins River At Ararat - H589009-02	H589009-02	589009	VIC	water level gauge;				FTP	bom569	
Mt Emu Creek At Gubries Bridge - H589010-01	H589010-01	589010	VIC	water level gauge;		LGH		FTP	bom569	
Burrumbidgee Creek (Lake Burrumbidgee) - H589011-01	H589011-01	589011	VIC	water level gauge;		LGH		FTP	bom569	
Bailey Ck @ Carnham - Streatham Rd Bridge - H589012-01	H589012-01	589012	VIC	water level gauge;		LGH		FTP	bom569	
Trawalla (Mt Emu Ck) - H589014-00	H589014-00	589014	VIC	rain gauge;		LGH	24h	MAN	MANUAL	
Trawalla (Mt Emu Ck) - H589014-01	H589014-01	589014	VIC	water level gauge;		LGH		FTP	bom569	
Mt Emu Ck @ Dridens - H589015-01	H589015-01	589015	VIC	water level gauge;				FTP	bom569	
Woody Yalook River @ Cressy (Yanima) - H589017-01	H589017-01	589017	VIC	rain gauge;water level gauge;		LGH	15m	FTP	bom569	
Barwon River @ Ricketts Marsh - H590000-01	H590000-01	590000	VIC	rain gauge;water level gauge;		96.823	LGH	ERTS	ERTS	
Barwon River @ Ricketts Marsh - H590000-02	H590000-02	590000	VIC	rain gauge;water level gauge;		96.823	LGH	FTP	bom569	
Ricketts Marsh - H590001-01	H590001-01	590001	VIC	water level gauge;		LGH		FTP	bom569	
Glenelg River @ Casterton - H590002-01	H590002-01	590002	VIC	water level gauge;		38.453	LGH	MAN	MAN	
Merri River @ Woodford - H590003-01	H590003-01	590003	VIC	water level gauge;				LOG	LOG	
Merri River @ Woodford - H590003-02	H590003-02	590003	VIC	water level gauge;				FTP	bom569	
Darlot Creek At Homerton - H590004-01	H590004-01	590004	VIC	water level gauge;		20.37	LGH	LOG	LOG	
Darlot Creek At Homerton - H590004-02	H590004-02	590004	VIC	water level gauge;				FTP	bom569	
Glenelg River @ Sandford - H590005-01	H590005-01	590005	VIC	water level gauge;		0	LGH	FTP	bom569	
Glenelg River @ Sandford - H590005-02	H590005-02	590005	VIC	water level gauge;				FTP	bom569	
Barwon River @ Kildean Lane - H590006-01	H590006-01	590006	VIC	water level gauge;				LOG	LOG	
Barwon River @ Kildean Lane - H590006-02	H590006-02	590006	VIC	water level gauge;				FTP	bom569	

9390 rows | LocationSets.xml |

Map | Plots | Spatial | Modifiers | Peak Heights | Web Browser | Config Metadata

Logs 3: Run Info | Marc van Dijk | Current system time: Fri 22-09-2023 00:00 AEST | 14:22:26 GMT | Archive: BoM HyFS 2021.01 | Stand alone | -11.009, 99.682 | 0.0 MB/s | 864 MB



Metadata Management

HyFS-SA (FEWS-2021.01-1.0.0) (Stand alone)

MapLayerFiles/Australia/AUS_sensors_BOM.csv
 MapLayerFiles/Australia/AUS_sensors_acceptance.csv
 MapLayerFiles/Australia/AUS_sensors_hyfs_attributes.csv
 MapLayerFiles/Australia/AUS_sensor_idmap.csv

LOCATION_NAME	HYFS_SENSORID	HYFS_STATION_ID	REGION	SENSOR_TYPE	GAUGE_OFFSET_LOCALTOAHD	GAUGE_DATUM	P_REPORT_TIMESTEP	TELEMETRY_TYPE	DATA_SOURCE	-LAST_EDIT_USER	-LAST_EDIT_TIME
Avenal (Wilson River) - H560033-01	H560033-01	560033	NSW	water level gauge;		LGH		FTP	bom376		
Nowendoc (Nowendoc River) - H560035-01	H560035-01	560035	NSW	water level gauge;		LGH		FTP	bom376		
Lansdowne (Lansdowne River) - H560037-01	H560037-01	560037	NSW	water level gauge;		LGH		FTP	bom376		
Bulahdelah (Myall River) - H560040-01	H560040-01	560040	NSW	rain gauge;water level gauge;	0	AHD	15m	FTP	bom302		
Bulahdelah (Myall River) - H560040-02	H560040-02	560040	NSW	rain gauge;water level gauge;	0	AHD	15m	ERTS	ERTS		
Farquhar Inlet - H560041-01	H560041-01	560041	NSW	water level gauge;	0	LGH		FTP	bom302		
Dennis Bridge Downstream (Hastings River) - H560042-01	H560042-01	560042	NSW	water level gauge;		LGH		FTP	bom302		
Dennis Bridge U/S (Hastings River) - H560043-01	H560043-01	560043	NSW	water level gauge;		LGH		FTP			
Forster Tide Gauge - H560044-01	H560044-01	560044	NSW	water level gauge;	-1.061	LGH		FTP	bom302		
Forster Tide Gauge - H560044-02	H560044-02	560044	NSW	water level gauge;	-1.061	LGH					
North Haven - H560045-01	H560045-01	560045	NSW	water level gauge;		LGH		FTP	bom302		
Port Macquarie - H560046-01	H560046-01	560046	NSW	water level gauge;		LGH		LOG	LOG		
West Haven (Stingray Creek) - H560047-01	H560047-01	560047	NSW	water level gauge;		LGH		FTP	bom302		
Nabiac - H560048-01	H560048-01	560048	NSW	rain gauge;water level gauge;	0	LGH	15m	ERTS	ERTS		
Nabiac - H560048-02	H560048-02	560048	NSW	rain gauge;water level gauge;	0	LGH	15m	FTP	bom302		
Willina (Wang Wauk River) - H560049-01	H560049-01	560049	NSW	water level gauge;		LGH		ERTS	ERTS		
Port Macquarie (Tide Gauge) - H560050-01	H560050-01	560050	NSW	water level gauge;	0	AHD		FTP	bom302		
Crowdy Boat Harbour (Tidal) - H560051-01	H560050-T	560050	NSW	tide gauge;	-0.8364	LGH		NTC	NTC		
	H560051-01	560051	NSW	water level gauge;		LGH		FTP	bom302		
	H560051-T	560051	NSW	tide gauge;	-1	LGH		NTC	NTC		
Tuncurry (Wallamba River) - H560053-01	H560053-01	560053	NSW	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Tuncurry (Wallamba River) - H560053-02	H560053-02	560053	NSW	rain gauge;water level gauge;	0	LGH	15m	FTP	bom302		
Tuncurry Wind - H560054-01	H560054-01	560054	NSW	rain gauge;		LGH	15m	ERTS	ERTS		
Tiona - H560055-01	H560055-01	560055	NSW	rain gauge;water level gauge;	0.541	LGH	15m	ERTS	ERTS		
Tiona - H560055-02	H560055-02	560055	NSW	water level gauge;	0.541	LGH		FTP	bom302		
Upper Markwell - H560056-01	H560056-01	560056	NSW	water level gauge;		LGH		ERTS	ERTS		
Tuncurry (Point Rd) - H560057-01	H560057-01	560057	NSW	water level gauge;		LGH		ERTS	ERTS		
Crawford River - H560058-01	H560058-01	560058	NSW	water level gauge;		LGH		ERTS	ERTS		
Coomba Park - H560059-01	H560059-01	560059	NSW	water level gauge;		LGH		ERTS	ERTS		
Avon River Downstream (Waukivory Creek) - H560060-01	H560060-01	560060	NSW	water level gauge;		LGH		FTP	bom376		
Avon River Downstream (Waukivory Creek) - H560060-02	H560060-02	560060	NSW	water level gauge;		LGH		ERTS	ERTS		
Forbesdale (Gloucester River) - H560061-01	H560061-01	560061	NSW	water level gauge;		LGH		FTP	bom376		
Forbesdale (Gloucester River) - H560061-02	H560061-02	560061	NSW	water level gauge;		LGH		ERTS	ERTS		
Gloucester (Gloucester River) - H560062-01	H560062-01	560062	NSW	water level gauge;		LGH		FTP	bom376		
Gloucester (Gloucester River) - H560062-02	H560062-02	560062	NSW	water level gauge;		LGH		ERTS	ERTS		
Bellevue (Gloucester River) - H560063-01	H560063-01	560063	NSW	water level gauge;		LGH		ERTS	ERTS		
Telegraph Point (Wtg) - H560064-01	H560064-01	560064	NSW	rain gauge;water level gauge;		LGH	15m	LOG	LOG		
Achles Bridge D/S (Dingo Creek) - H560065-01	H560065-01	560065	NSW	water level gauge;		LGH		FTP	bom302		
Wallis Lakes At Pacific Palms Wharf - H560066-01	H560066-01	560066	NSW	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Wallis Lakes At Pacific Palms Wharf - H560066-02	H560066-02	560066	NSW	rain gauge;water level gauge;		AHD	15m	FTP	bom302		
Mundays Lane (Maria River) - H560067-01	H560067-01	560067	NSW	rain gauge;water level gauge;		AHD	1h	FTP	bom302		
Toukley (Tuggerah Lake) - H561000-01	H561000-01	561000	NSW	rain gauge;water level gauge;		LGH	15m	FTP	bom302		
The Entrance (Tuggerah Lake) - H561001-01	H561001-01	561001	NSW	rain gauge;reservoir;water level gauge;		LGH	15m	ERTS	ERTS		
The Entrance (Tuggerah Lake) - H561001-02	H561001-02	561001	NSW	water level gauge;		LGH		ERTS	ERTS		
The Entrance (Tuggerah Lake) - H561001-03	H561001-03	561001	NSW	water level gauge;		AHD		FTP	bom302		
Morpeth (Hunter River) - H561002-01	H561002-01	561002	NSW	water level gauge;		LGH		FTP	bom302		

9393 rows

Map Plots Spatial Modifiers Peak Heights Web Browser Config Metadata

Logs 3: Run Info Marc van Dijk Current system time: Wed 12-07-2023 06:30 GMT 16:06:57 GMT Archive: not connected Stand alone -10.444, 101.159 0.0 MB/s 930 MB



Metadata Management

HyFS-SA (FEWS-2021.01-1.0.0) (Stand alone)

MapLayerFiles/Australia/AUS_sensors_BOM.csv
 MapLayerFiles/Australia/AUS_sensors_acceptance.csv
 MapLayerFiles/Australia/AUS_sensor_idmap.csv
 MapLayerFiles/Australia/AUS_sensors_hyfs_attributes.csv
 MapLayerFiles/Australia/AUS_sensor_validation.csv
 MapLayerFiles/Australia/AUS_station_thresholds.csv

~LOCATION_NAME	HYFS_SENSORID	HYFS_STATION_ID	REGION	SENSOR_TYPE	GAUGE_OFFSET_LOCALTOAHD	GAUGE_DATUM	P_REPORT_TIMESTEP	TELEMETRY_TYPE	DATA_SOURCE	~LAST_EDIT_USER	~LAST_EDIT_TIME
Roseleigh Crossing Tm - H544025-00	H544025-00	544025	QLD	rain gauge;water level gauge;		LGH	15m	LOG	LOG		
Joylands Alert - H544026-00	H544026-00	544026	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Lower Bradleys Alert - H544027-00	H544027-00	544027	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Raceview Alert - H544028-00	H544028-00	544028	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
South Lesdale Alert - H544029-00	H544029-00	544029	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Spring Hill Alert - H544030-00	H544030-00	544030	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Arabella Alert - H544031-00	H544031-00	544031	QLD	rain gauge;		LGH	15m	ERTS	ERTS	dijk_m	Fri 22-09-2023 00:33:49
Middle Creek Alert - H544032-00	H544032-00	544032	QLD	rain gauge;		LGH	ERTS	ERTS	ERTS	dijk_m	Fri 22-09-2023 00:33:55
Tyrconnel Tm - H544035-00	H544035-00	544035	QLD	rain gauge;		LGH	15m	LOG	LOG		
Eversfield Tm - H544036-00	H544036-00	544036	QLD	rain gauge;		LGH	15m	LOG	LOG		
Mt Lindsay Alert - H544037-00	H544037-00	544037	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Bogarella Crossing Alert - H544038-00	H544038-00	544038	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Cooks Tank Alert - H544039-00	H544039-00	544039	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Willere Alert - H544040-00	H544040-00	544040	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Old Tambo Rd Alert - H544041-00	H544041-00	544041	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Caroline Crossing Alert - H544042-00	H544042-00	544042	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Hoganthulla Xing Alert - H544043-00	H544043-00	544043	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Oakwood Alert - H544044-00	H544044-00	544044	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Rocky Ck Alert - H544045-00	H544045-00	544045	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Biddendam Alert - H544047-00	H544047-00	44200	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Augathella Rptr Alert - H544048-00	H544048-00	544048	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Ward R Crossing Alert - H544049-00	H544049-00	544049	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Uabba Rd Alert - H544050-00	H544050-00	544050	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Oak Park Alert - H544051-00	H544051-00	544051	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Dunvegan Alert - H544052-00	H544052-00	544052	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Calowie Alert - H544053-00	H544053-00	544053	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Moyallen Alert - H544054-00	H544054-00	544054	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Wellwater Rd Alert - H544055-00	H544055-00	544055	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Adavale Road Alert - H544056-00	H544056-00	544056	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Warilla Alert - H544058-00	H544058-00	544058	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Cooladdi Alert - H544059-00	H544059-00	544059	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Ravenscourt Alert - H544060-00	H544060-00	544060	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Loddon Alert - H544061-00	H544061-00	544061	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Bonfield Alert - H544062-00	H544062-00	544062	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Sommariva AI - H544063-00	H544063-00	544063	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Patricia Park Tm - H544064-00	H544064-00	544064	QLD	rain gauge;water level gauge;		LGH	1h	FTP	bom561		
Maryvale AI - H544065-00	H544065-00	544065	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Cliffdale AI - H544066-00	H544066-00	544066	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Bonella AI - H544067-00	H544067-00	544067	QLD	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Allambie AI - H544068-00	H544068-00	544068	QLD	rain gauge;		AHD	15m	ERTS	ERTS		
Alice Downs AI - H544069-00	H544069-00	544069	QLD	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Abbieglassie AI - H544070-00	H544070-00	544070	QLD	rain gauge;		AHD	15m	ERTS	ERTS		
Westcourt Alert - H544071-00	H544071-00	544071	QLD	rain gauge;		AHD	15m	ERTS	ERTS		
Wallall Alert - H544072-00	H544072-00	544072	QLD	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Barta Park Tm - H544073-00	H544073-00	544073	QLD	rain gauge;		AHD	15m	LOG	LOG		
Upper Quilberry Alert - H544074-00	H544074-00	544074	QLD	rain gauge;		AHD	15m	ERTS	ERTS		
Humbleburn AI - H544075-00	H544075-00	544075	QLD	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Glennaville AI - H544076-00	H544076-00	544076	QLD	rain gauge;		AHD	15m	ERTS	ERTS		

9390 rows | LocationSets.xml | P_REPORT_TIMESTEP | Attribute P_REPORT_TIMESTEP | 15m h 9am non-routine 24h 1h | Report (time step) of rainfall observation e.g.event, 15m, h, 9am;non-routine

Map | Plots | Spatial | Modifiers | Web Browser | Config Metadata

Logs 3: Run info | Marc van Dijk | Current system time: Fri 22-09-2023 00:00 AEST | 14:34:29 GMT | Archive: BoM HyFS 2021.01 | Stand alone | -37.656, 118.434 | 0.0 MB/s | 770 MB



Metadata Management

MapLayerFiles/Australia/AUS_sensors_BOM.csv
 MapLayerFiles/Australia/AUS_sensors_acceptance.csv
 MapLayerFiles/Australia/AUS_sensor_idmap.csv
MapLayerFiles/Australia/AUS_sensors_hyfs_attributes.csv
 MapLayerFiles/Australia/AUS_sensor_validation.csv
 MapLayerFiles/Australia/AUS_station_thresholds.csv

~LOCATION_NAME	HYFS_SENSORID	HYFS_STATION_ID	REGION	SENSOR_TYPE	GAUGE_OFFSET_LOCALTOAHD	GAUGE_DATUM	P_REPORT_TIMESTEP	TELEMETRY_TYPE	DATA_SOURCE	~LAST_EDIT_USER	~LAST_EDIT_TIME
Roseleigh Crossing Tm - H544025-00	H544025-00	544025	QLD	rain gauge;water level gauge;		LGH	15m	LOG	LOG		
Joylands Alert - H544026-00	H544026-00	544026	QLD	rain gauge;		LGH	15m	ERTS	ERTS		
Lower Bradleys Alert - H544027-00	H544027-00	544027	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Raceview Alert - H544028-00	H544028-00	544028	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
South Lesdale Alert - H544029-00	H544029-00	544029	QLD	rain gauge;			15m	ERTS	ERTS		
Spring Hill Alert - H544030-00	H544030-00	544030	QLD	rain gauge;			15m	ERTS	ERTS		
Arabella Alert - H544031-00	H544031-00	544031	QLD	rain gauge;			1h	ERTS	ERTS	dijk_m	Fri 22-09-2023 00:33:49
Middle Creek Alert - H544032-00	H544032-00	544032	QLD	rain gauge;			ERTS	ERTS	ERTS	dijk_m	Fri 22-09-2023 00:33:55
Tyrconnel Tm - H544035-00	H544035-00	544035	QLD	rain gauge;			15m	LOG	LOG		
Eversfield Tm - H544036-00	H544036-00	544036	QLD	rain gauge;			15m	LOG	LOG		
Mt Lindsay Alert - H544037-00	H544037-00	544037	QLD	rain gauge;			15m	ERTS	ERTS		
Bogarella Crossing Alert - H544038-00	H544038-00	544038	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Cooks Tank Alert - H544039-00	H544039-00	544039	QLD	rain gauge;			15m	ERTS	ERTS		
Willare Alert - H544040-00	H544040-00	544040	QLD	rain gauge;			15m	ERTS	ERTS		
Old Tambo Rd Alert - H544041-00	H544041-00	544041	QLD	rain gauge;water level gauge;			15m	ERTS	ERTS		
Caroline Crossing Alert - H544042-00	H544042-00	544042	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Hoganthulla Xing Alert - H544043-00	H544043-00	544043	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Oakwood Alert - H544044-00	H544044-00	544044	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Rocky Ck Alert - H544045-00	H544045-00	544045	QLD	rain gauge;			15m	ERTS	ERTS		
Biddenham Alert - H544047-00	H544047-00	44200	QLD	rain gauge;water level gauge;		0 LGH	15m	ERTS	ERTS		
Augathella Rptr Alert - H544048-00	H544048-00	544048	QLD	rain gauge;			15m	ERTS	ERTS		
Ward R Crossing Alert - H544049-00	H544049-00	544049	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Uabba Rd Alert - H544050-00	H544050-00	544050	QLD	rain gauge;			15m	ERTS	ERTS		
Oak Park Alert - H544051-00	H544051-00	544051	QLD	rain gauge;			15m	ERTS	ERTS		
Dunvegan Alert - H544052-00	H544052-00	544052	QLD	rain gauge;			15m	ERTS	ERTS		
Calowie Alert - H544053-00	H544053-00	544053	QLD	rain gauge;			15m	ERTS	ERTS		
Moyallen Alert - H544054-00	H544054-00	544054	QLD	rain gauge;			15m	ERTS	ERTS		
Wellwater Rd Alert - H544055-00	H544055-00	544055	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Adavale Road Alert - H544056-00	H544056-00	544056	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Warilla Alert - H544058-00	H544058-00	544058	QLD	rain gauge;water level gauge;			15m	ERTS	ERTS		
Cooladdi Alert - H544059-00	H544059-00	544059	QLD	rain gauge;water level gauge;		LGH	15m	ERTS	ERTS		
Ravenscourt Alert - H544060-00	H544060-00	544060	QLD	rain gauge;			15m	ERTS	ERTS		
Loddon Alert - H544061-00	H544061-00	544061	QLD	rain gauge;			15m	ERTS	ERTS		
Bonfield Alert - H544062-00	H544062-00	544062	QLD	rain gauge;water level gauge;			15m	ERTS	ERTS		
Sommariva AI - H544063-00	H544063-00	544063	QLD	rain gauge;			15m	ERTS	ERTS		
Patricia Park Tm - H544064-00	H544064-00	544064	QLD	rain gauge;water level gauge;		LGH	1h	FTP	bom561		
Maryvale AI - H544065-00	H544065-00	544065	QLD	rain gauge;			15m	ERTS	ERTS		
Cliffdale AI - H544066-00	H544066-00	544066	QLD	rain gauge;			15m	ERTS	ERTS		
Bonella AI - H544067-00	H544067-00	544067	QLD	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Allambie AI - H544068-00	H544068-00	544068	QLD	rain gauge;			15m	ERTS	ERTS		
Alice Downs AI - H544069-00	H544069-00	544069	QLD	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Abbieglassie AI - H544070-00	H544070-00	544070	QLD	rain gauge;			15m	ERTS	ERTS		
Westcourt Alert - H544071-00	H544071-00	544071	QLD	rain gauge;			15m	ERTS	ERTS		
Wallall Alert - H544072-00	H544072-00	544072	QLD	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Barta Park Tm - H544073-00	H544073-00	544073	QLD	rain gauge;			15m	LOG	LOG		
Upper Quilberry Alert - H544074-00	H544074-00	544074	QLD	rain gauge;			15m	ERTS	ERTS		
Humeburn AI - H544075-00	H544075-00	544075	QLD	rain gauge;water level gauge;		AHD	15m	ERTS	ERTS		
Glennaville AI - H544076-00	H544076-00	544076	QLD	rain gauge;			15m	ERTS	ERTS		

9390 rows | LocationSets.xml | P_REPORT_TIMESTEP | Attribute P_REPORT_TIMESTEP | 15m h 9am non-routine 24h 1h | Report (time step) of rainfall observation e.g.event, 15m, h, 9am;non-routine

Map | Plots | Spatial | Modifiers | Web Browser | Config Metadata

Logs 3: Run info | Marc van Dijk | Current system time: Fri 22-09-2023 00:00 AEST | 14:34:29 GMT | Archive: BoM HyFS 2021.01 | Stand alone | -37.656, 118.434 | 0.0 MB/s | 770 MB



Export Status Page

Data Feed	Suspended	Directory	Last File Exported	Last Export Time	Files Exported Count	Files Failed Count
Export.IssuedForecasts	<input checked="" type="checkbox"/>	d:\fewsfss\1\Export\Warnings	Issued_Area_Watches_202310310649.csv	Tue 31-10-2023 17:49:16	3	0
Export.PeakHeights	<input type="checkbox"/>	d:\fewsfss\1\Export	Peak_Heights_202310310649.xml	Tue 31-10-2023 17:49:17	1	0
Export.hcsrainfall1hr	<input type="checkbox"/>	\\dfs-trusted.directory.intra\dfs\hyfstmc00\fromfss\Export\HCS\Rainfall_15m	HYFS_Rain_Period_15m_202310310645....	Tue 31-10-2023 17:49:50	2	0

- System Status <
- Forecast Tasks <
- Workflow and FSSs <
- Files <
- Import Status
- Export Status
- Imports
- Successful imports

Master Controller Any ▾

⏸ Suspend
▶ Resume
✕ Delete

Search:

MC ID	Data Feed	<input type="checkbox"/>	Suspended	Directory	Last File Exported	Last Export Time	Files Exported	Files Failed
hyfstmc00	Export.IssuedForecasts	<input checked="" type="checkbox"/>	true	d:\fewsfss\1\Export\Warnings	Issued_Area_Watches_202310310649.csv	31/10/2023 06:49:16	3	0
hyfstmc00	Export.PeakHeights	<input type="checkbox"/>	false	d:\fewsfss\1\Export	Peak_Heights_202310310649.xml	31/10/2023 06:49:17	1	0
hyfstmc00	Export.hcsrainfall1hr	<input type="checkbox"/>	false	\\dfs-trusted.directory.intra\dfs\hyfstmc00\fromfss\Export\HCS\Rainfall_15m	HYFS_Rain_Period_15m_202310310645.xml	31/10/2023 06:49:50	2	0

Showing 1 to 3 of 3 entries

Import Status Page

- System Status <
- Forecast Tasks <
- Workflow and FSSs <
- Files <
- Import Status
- Export Status
- Imports
- Successful imports
- Failed imports
- Suspended imports
- Export files
- Report files
- Failed model files
- Successful imports test
- Failed imports test
- Suspended imports test
- User Administration <

Master Controller Any
⏸ Suspend
▶ Resume
✖ Delete

Search:

MC ID	Data Feed	<input type="checkbox"/>	Suspended	Directory	Last File Imported	Last Import Time	File Read	Files Failed
hyfstmc00	ASTRO	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\astro	cleared	16/10/2023 13:32:18	0	0
hyfstmc00	CONTENT_REVIEWER	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\content_reviewer	IDN36629-20231030094519.xml	01/11/2023 09:47:32	100	0
hyfstmc00	FLOOD_WARNINGS	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\content_reviewer	IDN36629-20231030094519.xml	01/11/2023 09:47:32	100	0
hyfstmc00	FLOOD_WATCHES	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\food_watches	IDT20625-20231022112517.xml	01/11/2023 09:47:32	14	0
hyfstmc00	HCS-discharge	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\discharge	DI_10M_20231031_2350.hcs	01/11/2023 12:39:01	3094	0
hyfstmc00	HCS-rain15min	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\rain_15m	RN_900_20231031_2345.hcs	01/11/2023 12:25:10	4796	0
hyfstmc00	HCS-rain1h	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\rain_1h	RN_AWS_3600_20231031_2331.hcs	01/11/2023 12:25:14	1600	0
hyfstmc00	HCS-rain24h	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\rain_24h	RN_ROT_86400_20231031_2315.hcs	01/11/2023 12:25:15	489	0
hyfstmc00	HCS-rainaccum	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\rain_accum	RainAccum_20230922050028.hcs	01/11/2023 12:40:07	871	0
hyfstmc00	HCS-rainevent	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\rain_event	RainEvent_20230922050206.hcs	01/11/2023 12:40:53	1579	0
hyfstmc00	HCS-waterlevel	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\waterlevel	WL_1M_20231101_0001.hcs	01/11/2023 14:06:54	48869	0
hyfstmc00	QPE-aus	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\grids\qpe_blended	cleared	16/10/2023 13:32:28	0	0
hyfstmc00	Tidal Corrections	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\surge	IDY09001.sealevel_river:hyfs-20231101090019.202310311200.nc	01/11/2023 09:44:08	24	0
hyfstmc00	reservoir	<input type="checkbox"/>	false	\\dfs-trusted_directory.intra\dfs\hyfstmc00\tofss\import\HyFS\scalars\reservoir	cleared	12/10/2023 11:25:09	0	0

Showing 1 to 14 of 14 entries



Data Management Files Page

System Status < Forecast Tasks < Workflow and FSSs < Files <

- Import Status
- Export Status
- Imports
- Successful imports**
- Failed imports
- Suspended imports
- Export files
- Report files
- Failed model files
- Successful imports test
- Failed imports test
- Suspended imports test

Move Selected Files Imports Download Selected Files

successfulimports / scalars

Show 10 entries

<input type="checkbox"/>	Name	Modified Time	Size
<input type="checkbox"/>	waterlevel	01/11/2023 14:06:54	334 MB
<input type="checkbox"/>	surge	01/11/2023 13:34:57	22 MB
<input type="checkbox"/>	reservoir	16/10/2023 09:29:02	0 B
<input type="checkbox"/>	rain_event	01/11/2023 12:40:53	59 MB
<input type="checkbox"/>	rain_accum	01/11/2023 12:40:07	22 MB
<input type="checkbox"/>	rain_30m	16/10/2023 09:29:01	9.0 MB
<input type="checkbox"/>	rain_24h	01/11/2023 12:25:15	299 kB
<input type="checkbox"/>	rain_1h	01/11/2023 12:25:14	5.2 MB
<input type="checkbox"/>	rain_15m	01/11/2023 12:25:10	85 MB
<input type="checkbox"/>	historic_events	16/10/2023 09:28:59	0 B

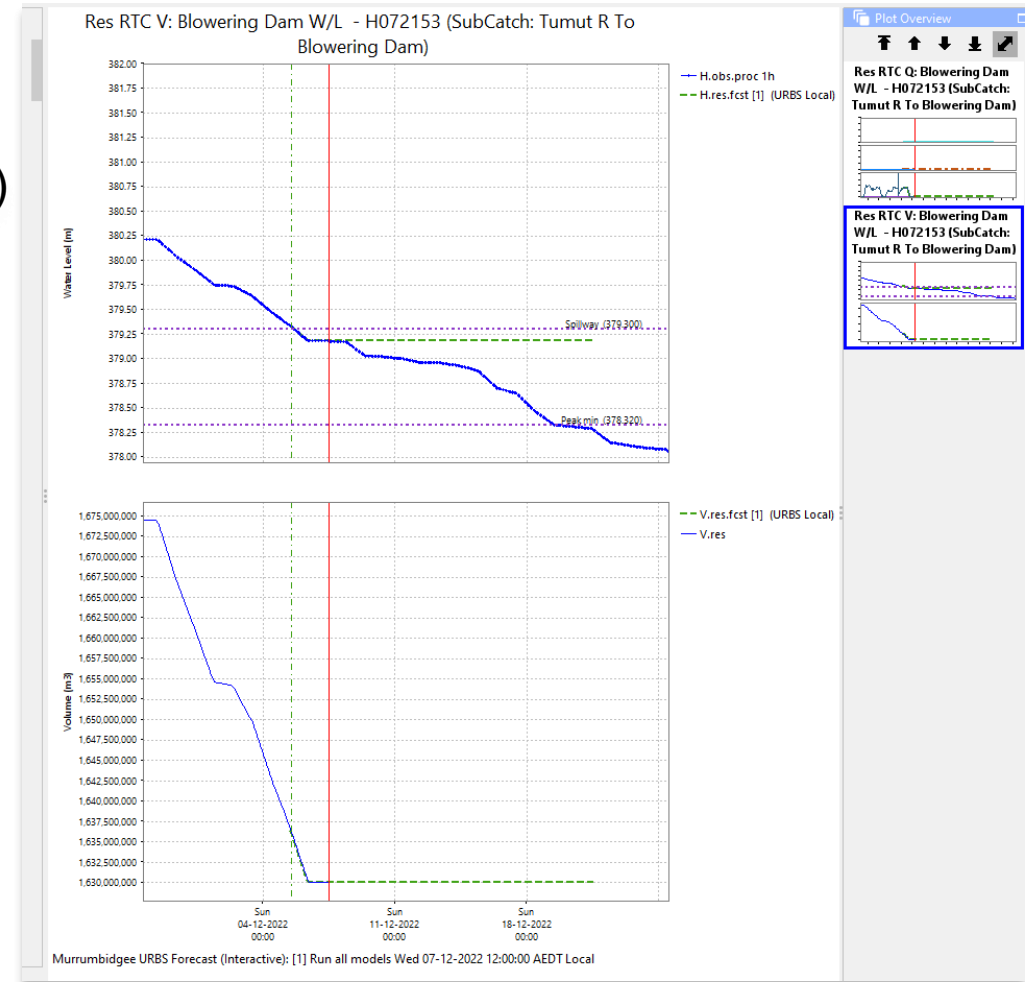
Showing 1 to 10 of 15 entries Selected 0 of 0 shown entries

Previous 1 2 Next



Integrated Reservoir Model

- Calculates reservoir level/volume based on inflow
- Using a level-volume table
- Using level-release table for outflows (spill release)
- Define release time series manually to overrule release table
- Options:
 - Euler routing scheme
 - levelPool routing scheme
 - Interpolation method
 - Resolution elevation interval





Integrated Reservoir Model

HyFS-SA (FEWS-2021.01-1.0.0) (Stand alone)

Forecast Tree

- QC and Process observations
- Generate data table
- Performance Analysis
- View Archived Calibration Reports
- Current Flood Warning - Queanbeyan and Molonglo Rivers
- Current Flood Warning - Cooma Creek (NSW)
- Current Flood Warning - Murrumbidgee River (NSW)
- Current Flood Warning - Mirrool Creek (NSW)
- URBS - Queanbeyan
- URBS - Murrumbidgee
 - Set Reservoir Forecast
 - Run all models
 - Molonglo River to Coppins Crossing
 - Murrumbidgee River to Lobbs Hole
 - Murrumbidgee River to Mt McDonald
 - Yass River to Yass
 - Goodradigbee River to Wee Jasper
 - Burrinjuck Dam
 - Jugiong Creek to Jugiong
 - Adjungbilly Creek to Darbalara
 - Tumut River to Blowering Dam
 - Tumut River to Tumut
 - Muttama Creek to Coolac
 - Murrumbidgee River to Gundagai
 - Murrumbidgee River to Etingoarrah
 - Tarcutta Creek to Old Barambola
 - Murrumbidgee River to Wagga Wagga and downstream
 - Save as Final Run
 - Create Rainfall What-If Scenario
 - Run Rainfall What-If Scenario
 - Save as What-If Scenario Run
 - Ensemble Rainfall Comparison
- URBS - Cooma
- URBS - Coota
- Peak Heights - Queanbeyan
- Peak Heights - Murrumbidgee
- Peak Heights - Cootamundra
- Peak Heights - Mirrool Creek
- SWIFT Models
- Calibration Reports
- 412 - Lachlan River Basin
- 416 - Border Rivers Basin
- 418 - Gwydir River Basin
- 419 - Peel-Namoi River Basin

Mod type	Name	Summary	Locations	Start	End	Valid Time	User	Creator	Creation time	Active	Priority	Delete	Copy
Reservoir I...	Reservoir Initial Conditio...	RTC_INITIAL_RES_VOL=110	Burrinjuck Dam W/L	--	--	--	Ivo Miltenburg	Wen Wang	Thu 02-11-2023 23:05...	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Blowerin...	Q.res.out.user_Blowering...	Blowering Dam W/L	Fri 30-09-2022 12:00:00	Wed 07-12-2022 09:00...	--	Ivo Miltenburg	Ivo Miltenburg	Thu 02-11-2023 21:53...	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir I...	Reservoir Initial Conditio...	RTC_INITIAL_RES_HEIGHT=...	Blowering Dam W/L	--	--	--	Ivo Miltenburg	Wen Wang	Fri 08-09-2023 18:11:26	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Tue 01-11-2022 22:00:00	Tue 07-02-2023 02:00:00	--	Ivo Miltenburg	Wen Wang	Mon 16-01-2023 13:2...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Tue 01-11-2022 22:00:00	Tue 07-02-2023 02:00:00	--	Ivo Miltenburg	Wen Wang	Tue 10-01-2023 10:28...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Tue 01-11-2022 22:00:00	Sun 15-01-2023 02:00:00	--	Ivo Miltenburg	Wen Wang	Mon 09-01-2023 15:2...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Tue 01-11-2022 22:00:00	Sun 15-01-2023 02:00:00	--	Ivo Miltenburg	Wen Wang	Sun 08-01-2023 12:17...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Tue 01-11-2022 22:00:00	Sat 07-01-2023 02:00:00	--	Ivo Miltenburg	Wen Wang	Fri 06-01-2023 14:46:50	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Tue 01-11-2022 22:00:00	Mon 02-01-2023 02:00:00	--	Ivo Miltenburg	Wen Wang	Thu 22-12-2022 15:22...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Tue 01-11-2022 22:00:00	Mon 02-01-2023 02:00:00	--	Ivo Miltenburg	Wen Wang	Tue 13-12-2022 13:40...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Blowerin...	Q.res.out.user_Blowering...	Blowering Dam W/L	Tue 01-11-2022 00:00:00	Sat 31-12-2022 07:00:00	--	Ivo Miltenburg	Wen Wang	Wed 07-12-2022 10:4...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Tue 01-11-2022 22:00:00	Mon 02-01-2023 02:00:00	--	Ivo Miltenburg	Wen Wang	Wed 07-12-2022 10:4...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Thu 01-12-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Sun 27-11-2022 11:50...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Thu 01-12-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Sat 26-11-2022 11:39...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Thu 01-12-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Fri 25-11-2022 09:33:16	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Blowerin...	Q.res.out.user_Blowering...	Blowering Dam W/L	Thu 01-09-2022 00:00:00	Thu 01-12-2022 07:00:00	--	Ivo Miltenburg	Wen Wang	Thu 24-11-2022 12:48...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Thu 01-12-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Wed 16-11-2022 14:2...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Wed 30-11-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Wed 16-11-2022 12:2...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Mon 21-11-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Tue 15-11-2022 16:32...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Mon 21-11-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Tue 15-11-2022 09:52...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Mon 21-11-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Sat 12-11-2022 15:57...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Blowerin...	Q.res.out.user_Blowering...	Blowering Dam W/L	Thu 01-09-2022 00:00:00	Mon 21-11-2022 07:00:00	--	Ivo Miltenburg	Wen Wang	Sat 12-11-2022 14:16...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Mon 21-11-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Sat 12-11-2022 14:14...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Reservoir R...	Q.res.out.user_Burrinjuc...	Q.res.out.user_Burrinjuck...	Burrinjuck Dam W/L	Thu 01-09-2022 22:00:00	Mon 21-11-2022 02:00:00	--	Ivo Miltenburg	Wen Wang	Sat 12-11-2022 09:15...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Reservoir Release Reservoir Initial Conditions

Modifier Properties: Reservoir Release

Name: Q.res.out.user_Burrinjuck Dam W/L_Blowering Dam W/L

Start time: Mon 05-12-2022 13:00:00 End time: Thu 08-12-2022 12:00:00

Locations: Blowering Dam W/L, Burrinjuck Dam W/L

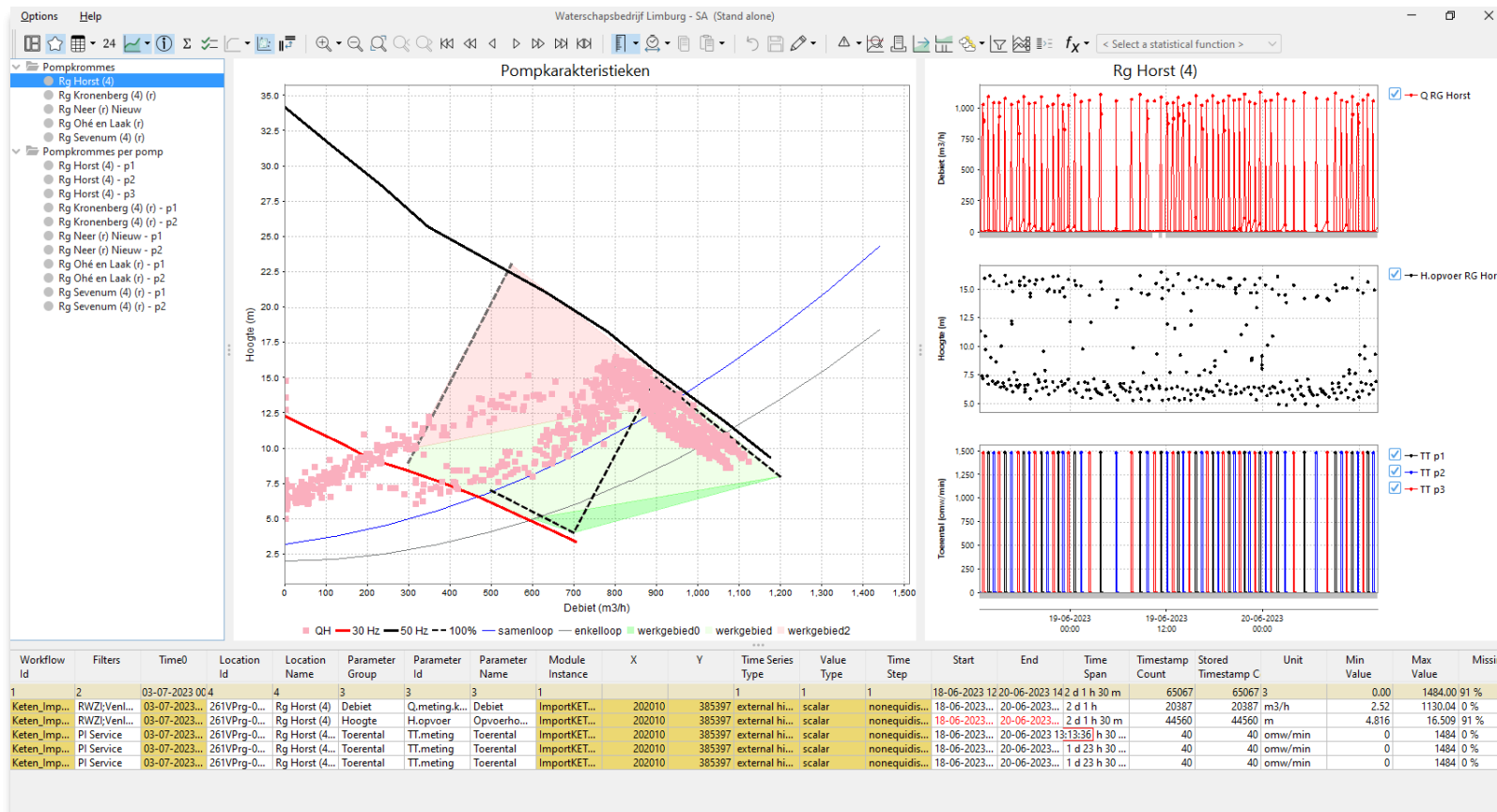
Operation	Time series
AEST/AEDT	Q.res.out.user (m3/s)
	Burrinjuck Dam H573008
	Blowering Dam H072153
	Burrinjuck Dam H573008

International Delft-FEWS User Days 2023 – New features in 2023.02

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Timeseries Display

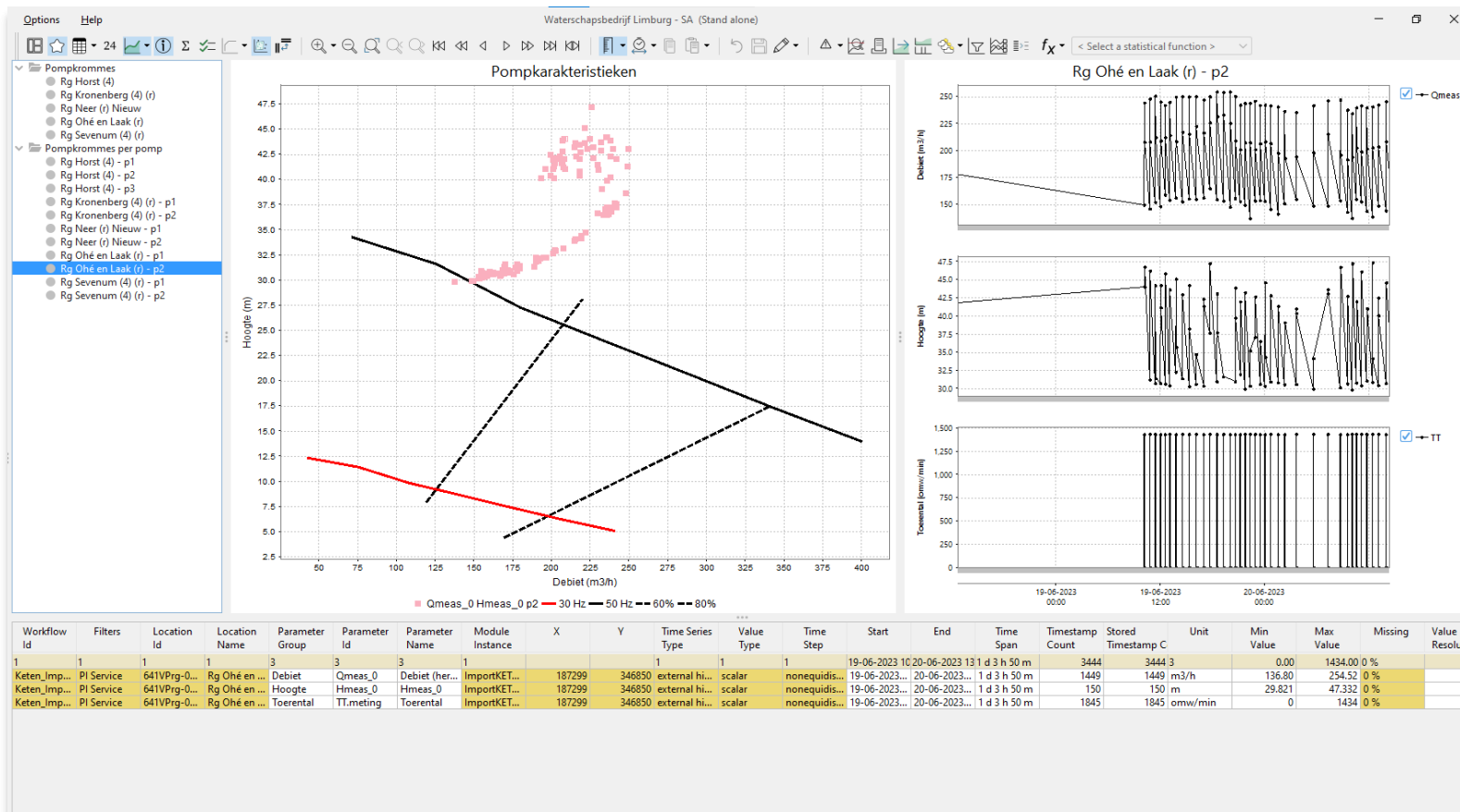
2023.02 Extensions (InteractionScatterPlot)





Timeseries Display

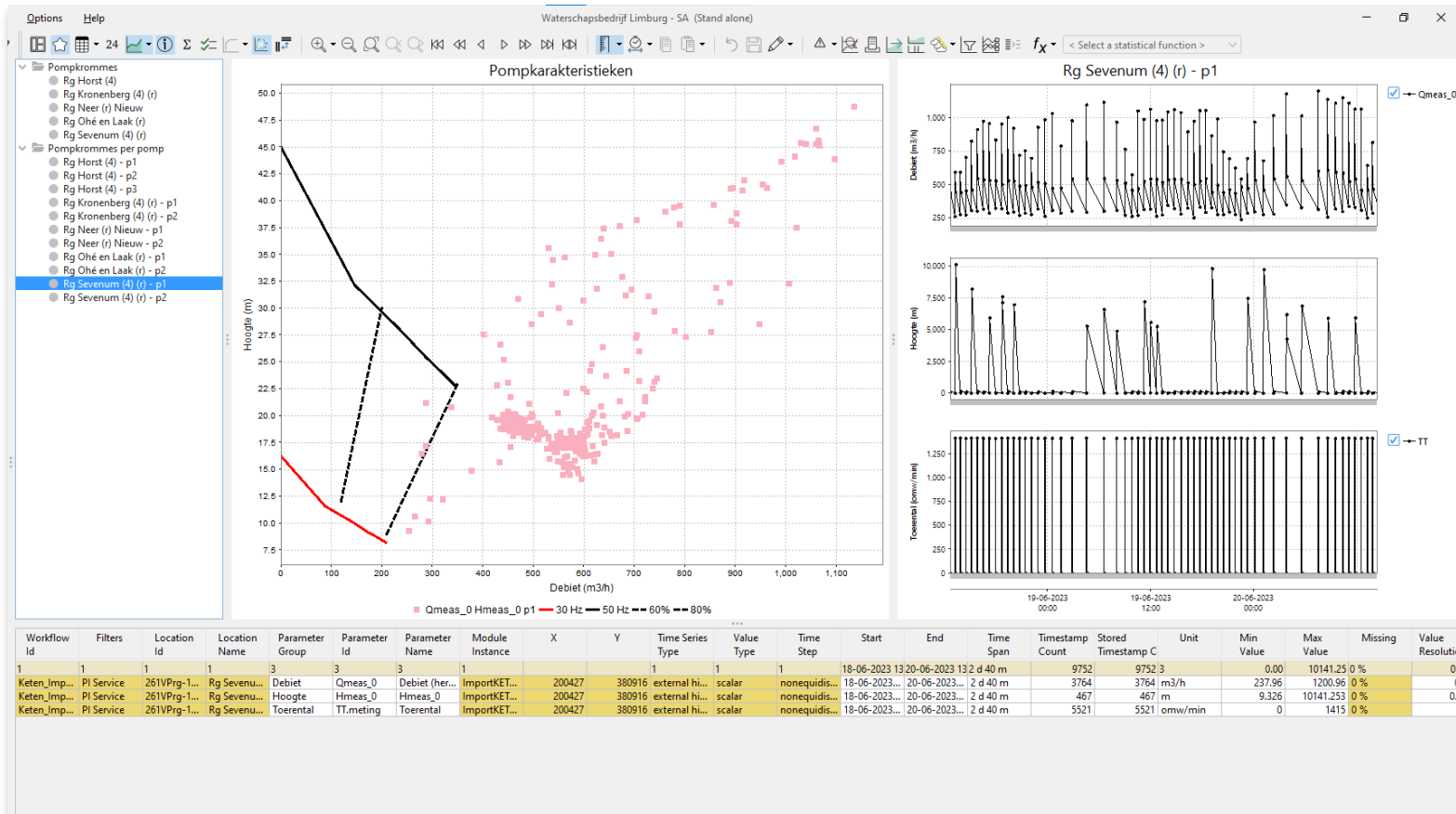
2023.02 Extensions (InteractionScatterPlot)





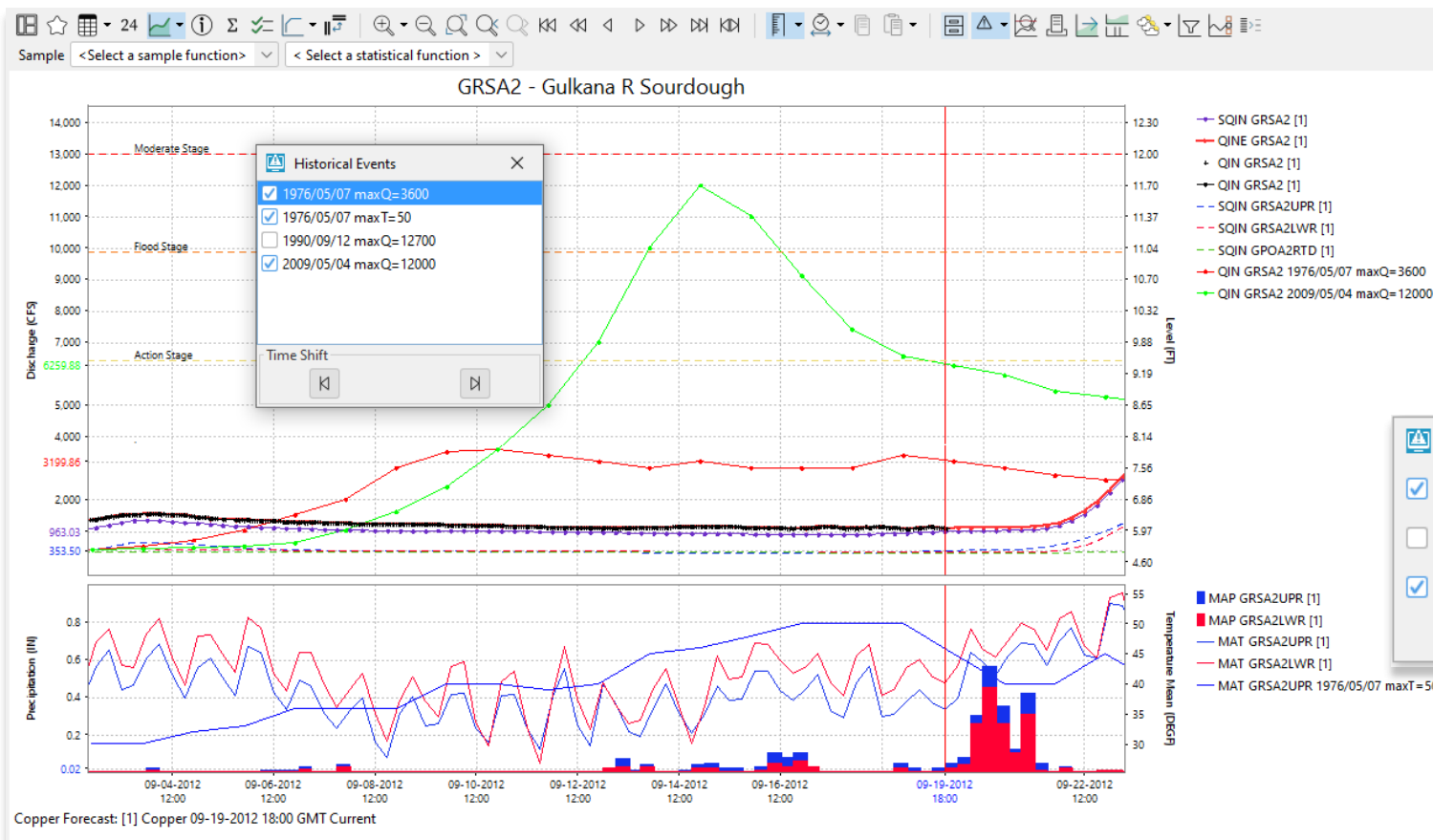
Timeseries Display

2023.02 Extensions (InteractionScatterPlot)



Timeseries Display

2023.02 Extensions



- Long Term Scroller shows full period with data (config option)
- Changing time series labels
- Reset view to configured view period

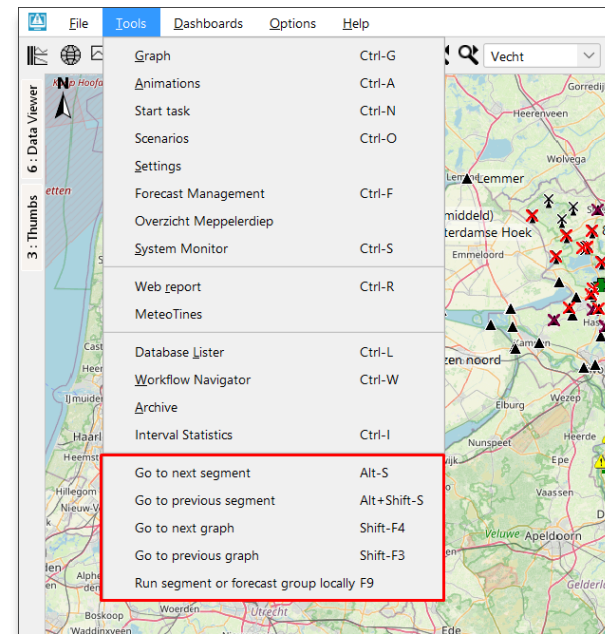
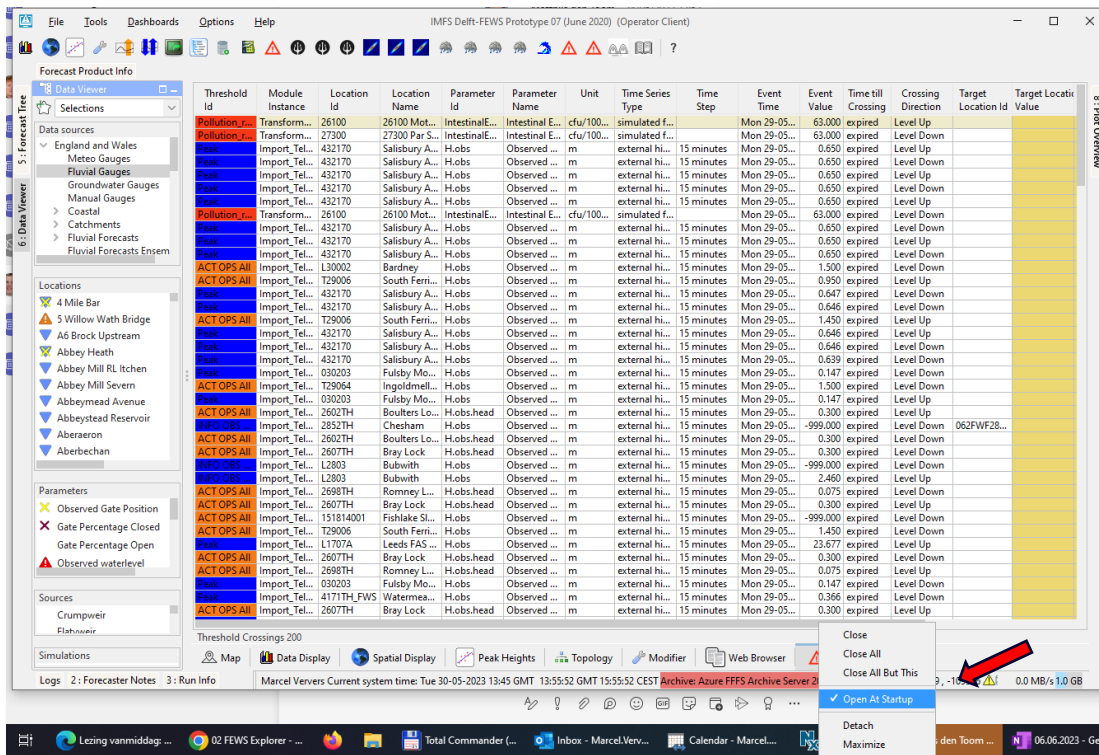
Explorer

2023.01 Extensions

- Web Mercator projection for WMS layers

2023.02 Extensions

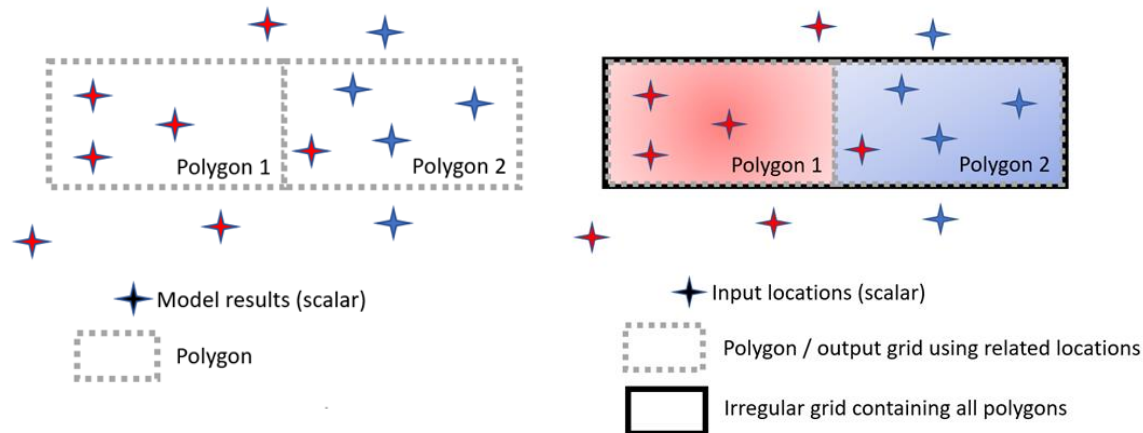
- The OC connection selection dialog shows description instead of MC-Ids
- Clean up of Tools menu items



Transformation

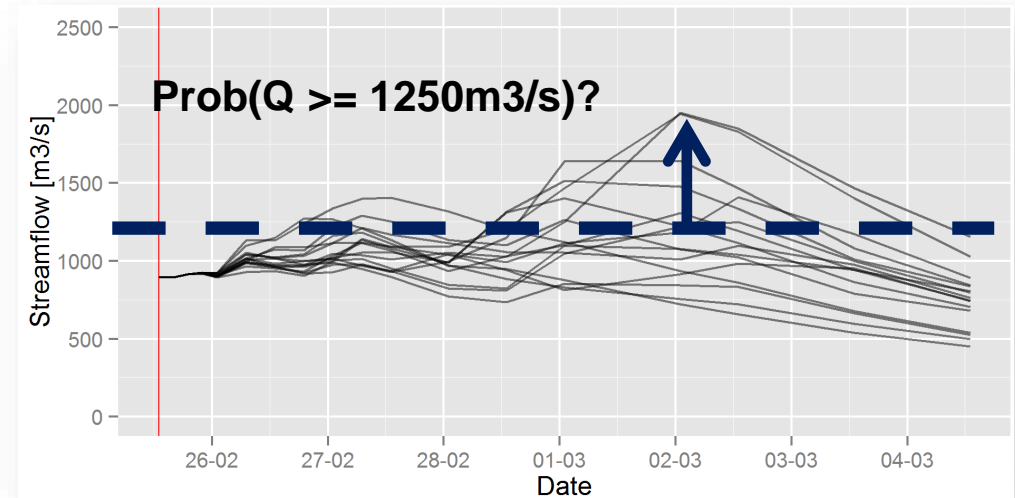
2023.01 Extensions

- New transformation to write values to output series when threshold values are crossed on input series
- New transformation to convert point model results to irregular grid



2023.02 Extensions

- Define whether unreliable data will be used as input for a custom transformation
- Optional input variable to optimize accumulation calculation
- Compute event probability for ensembles



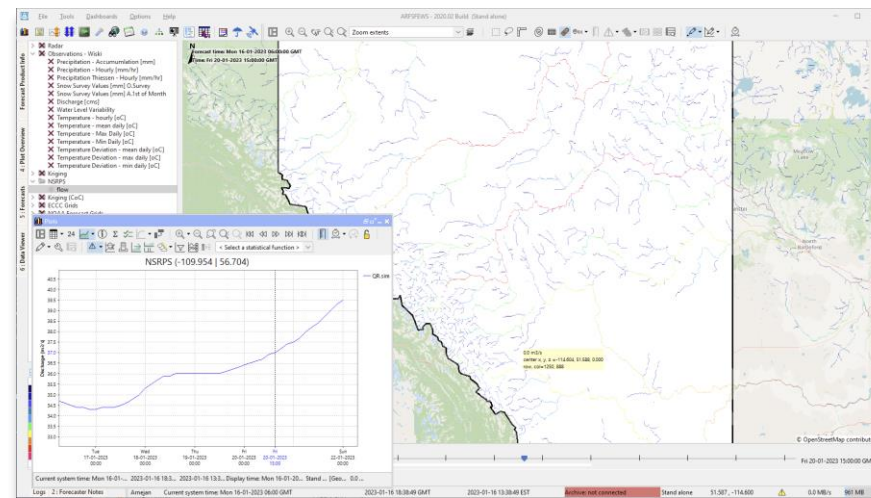
Imports and Exports

2023.01 Extensions

- [EFAS SOS Server](#) (DWD ICON, COSMO-LEPS, ECMWF-HRES & ECMWF-ENS)
- Extension of [Landsat-HDF5](#) (parameter: DSSF-TOT)
- Extension of [Radolan](#) (Parameter YW + grid dimensions dynamically)
- Extension of [MeteoCanadaWCS](#) (authentication added and visualize hidden layers)
- Improved [GeoTIFF](#) import (support for all possible floats, integer and byte values)
- Import module now [ModuleInstance](#) aware.
- Improved [PI REST](#) import: chunking of URL path to avoid exceedance

2023.02 Extensions

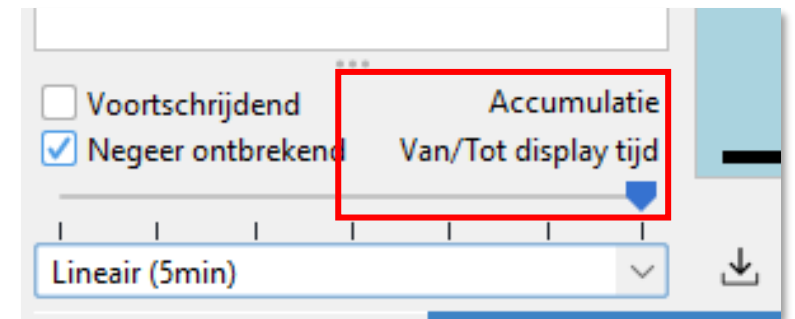
- Import from [USACE webservice \(CWMS\)](#)
- Import the [PI_JSON timeseries format](#)
- Support caching of tokens for WIWB OpenID import
- Add option to allow missingValue as strings for text or (general) CSV imports



Spatial Display

- 2023.01 Extensions
 - **Multiple value ranges** can be configured. Based on min/max values the best one is selected.
 - Recording a movie with **map only** on screen (including legend and timestamp)
 - Contour plots **without redundant zeros** (after the decimal character)

- 2023.02 Extensions
 - **Smoother** interpolation lines
 - **Extra** tick available to accumulate TO or FROM the Display Time



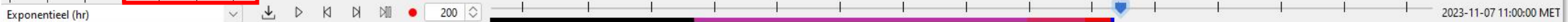
- Radarbeelden
 - IRC 5 min real-time (prod)
 - IRC 5 min real-time (test)
 - IRC 5 min + det PySteps (prod)
 - IRC 5 min + det PySteps (test)
 - PySteps nowcast (det, prod)
 - PySteps nowcast (det, test)
 - PySteps nowcast (ens, prod)
 - PySteps nowcast (ens, test)
 - IRC 5 min Final.Reanalysis
 - IRC 1 hr realtime
 - IRC 1 hr Early.Reanalysis
 - IRC 1 hr Final.Reanalysis
 - IRC dg realtime
 - IRC dg Early.Reanalysis
 - IRC dg Final.Reanalysis
 - IRIS dg validated
- Blended Nowcast
- Harmonie-Arome
- Harmonie-EPS
- ECMWF
- Verdamping
- Gemeenten
- Deelgebieden
- Statistieken
- Overige kaarten
- GFM (Flood Maps)



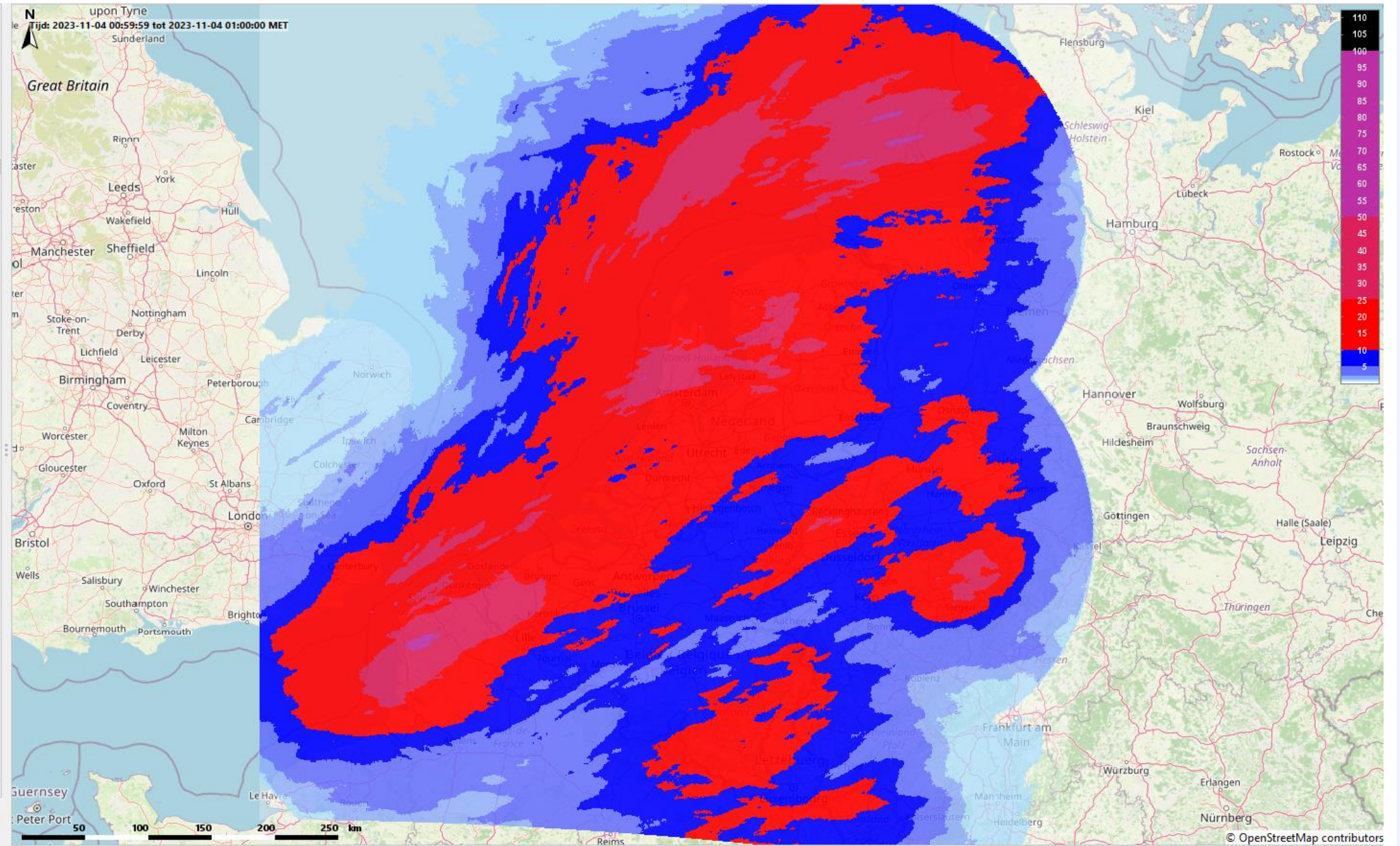
**Accumulation
to/from display time**

Slider at display time

- Voortschrijdend
- Negeer ontbrekend
- Accumulatie Van/Tot display tijd



- ▼ Radarbeelden
 - IRC 5 min real-time (prod)
 - ✗ IRC 5 min real-time (test)
 - IRC 5 min + det PySteps (prod)
 - ✗ IRC 5 min + det PySteps (test)
 - PySteps nowcast (det, prod)
 - ✗ PySteps nowcast (det, test)
 - ✗ PySteps nowcast (ens, prod)
 - ✗ PySteps nowcast (ens, test)
 - ✗ IRC 5 min Final.Reanalysis
 - IRC 1 hr realtime
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 - IRC 1 hr Final.Reanalysis
 - IRC dg realtime
 - IRC dg Early.Reanalysis
 - IRC dg Final.Reanalysis
 - IRIS dg validated
- > Blended Nowcast
- > Harmonie-Arome
- > Harmonie-EPS
- > ECMWF
- > Verdamping
- > Gemeenten
- > Deelgebieden
- > Statistieken
- > Overige kaarten
- > GFM (Flood Maps)



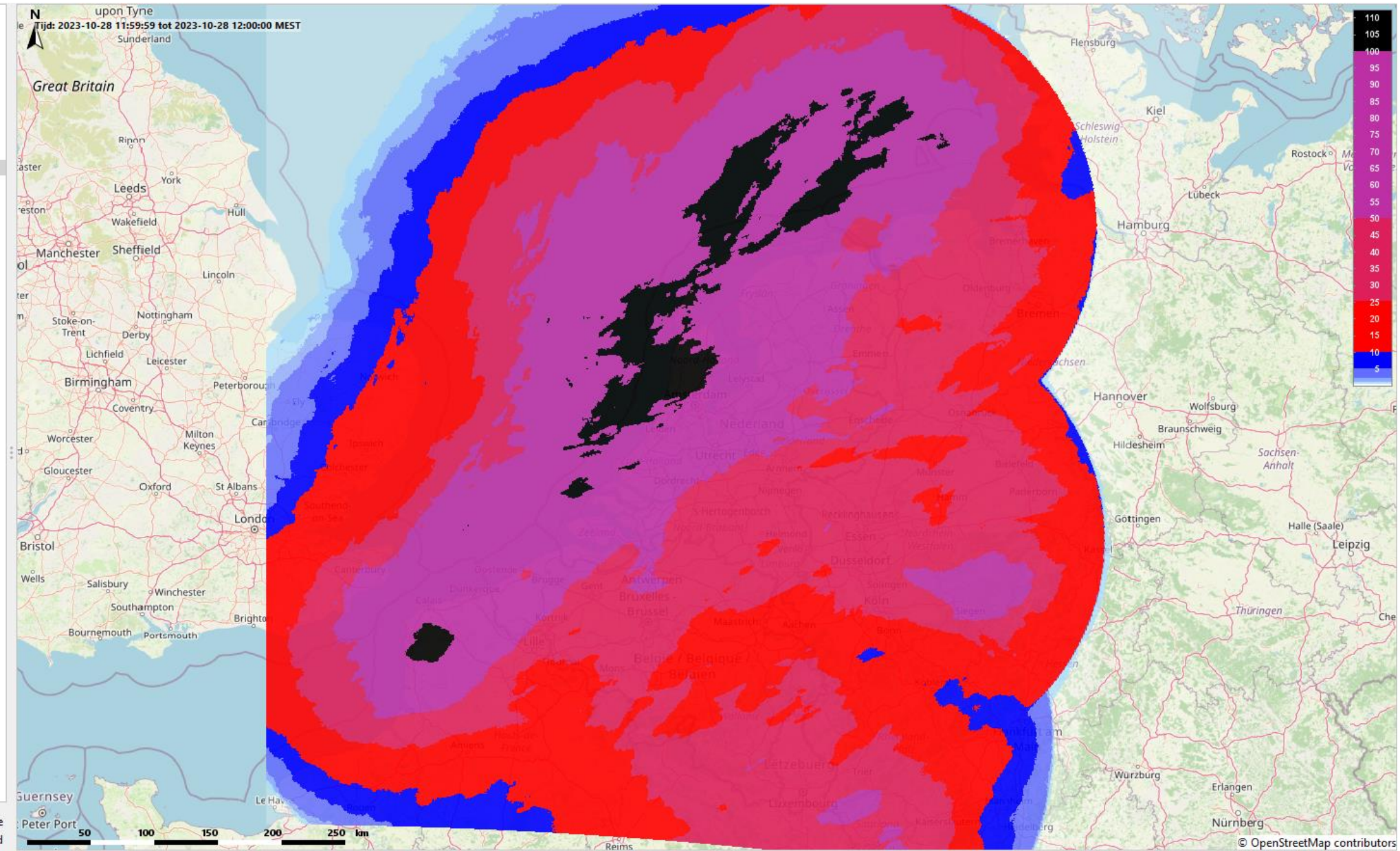
Voortschrijdend
 Negeer ontbrekend

Accumulatie Van/Tot display tijd
 Exponentieel (hr)

Kaart Graph Spatial Display Documents Systeemmonitor WhatIf Scenario RWS Instellingen

Accumulation period
 2023-11-04 01:00:00 MET

- ▼ Radarbeelden
 - IRC 5 min real-time (prod)
 - ✗ IRC 5 min real-time (test)
 - IRC 5 min + det PySteps (prod)
 - ✗ IRC 5 min + det PySteps (test)
 - PySteps nowcast (det, prod)
 - ✗ PySteps nowcast (det, test)
 - ✗ PySteps nowcast (ens, prod)
 - ✗ PySteps nowcast (ens, test)
 - ✗ IRC 5 min Final.Reanalysis
- IRC 1 hr realtime
- IRC 1 hr Early.Reanalysis
- IRC 1 hr Final.Reanalysis
- IRC dg realtime
- IRC dg Early.Reanalysis
- IRC dg Final.Reanalysis
- IRIS dg validated
- > Blended Nowcast
- > Harmonie-Arome
- > Harmonie-EPS
- > ECMWF
- > Verdamping
- > Gemeenten
- > Deelgebieden
- > Statistieken
- > Overige kaarten
- > GFM (Flood Maps)



Voortschrijdend
 Negeer ontbrekend

Accumulatie Van/Tot display tijd

Exponentieel (hr)

Kaart | Graph | Spatial Display | Documents | Systeemmonitor | WhatIf Scenario | RWS | Instellingen

Accumulation period

Open Archive & Seamless Integration

- 2023.01 Extensions
 - **Search and select forecasts** (TSD) can now also find old(er) forecasts in the Open Archive
 - **Seamless integration** in plots now requires 1 click
 - Import **grids** as **references**
 - Upload **edited data** to Open Archive
- 2023.02 Extensions
 - **Simulated historical** timeseriesType available in seamless integration
 - Configure **custom export folders** for each data type (including date-time pattern)

Search and select forecasts

search period start time Mon 01-05-2023 09:45 end time Fri 02-06-2023 09:45

nr of recent forecasts 15

include historical run

persist selection

search in archive

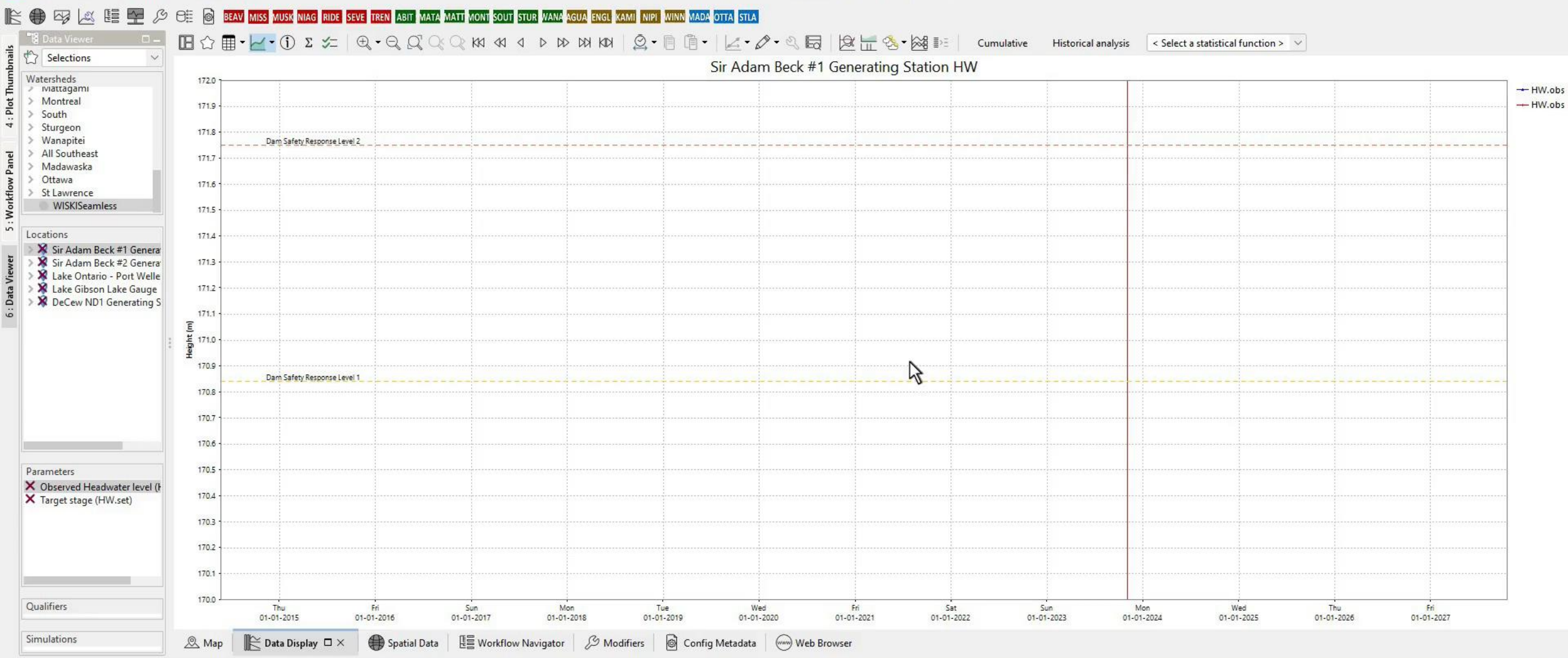
Select all

workflow	time	description	dispatch time	status
Calculate_RateOfRise	Fri 02-06-2023 09:45	Rate of Rise on Observed Levels	Fri 02-06-2023 09:45	
Calculate_RateOfRise	Fri 02-06-2023 09:30	Rate of Rise on Observed Levels	Fri 02-06-2023 09:30	
UK_MeteoProcessing_Nowcast	Fri 02-06-2023 09:30	Nowcast rainfall processing	Fri 02-06-2023 09:46	
Calculate_RateOfRise	Fri 02-06-2023 09:15	Rate of Rise on Observed Levels	Fri 02-06-2023 09:15	
UK_MeteoProcessing_Nowcast	Fri 02-06-2023 09:15	Nowcast rainfall processing	Fri 02-06-2023 09:31	
UK_MeteoProcessing_Nowcast	Fri 02-06-2023 09:00	Nowcast rainfall processing	Fri 02-06-2023 09:21	
Calculate_RateOfRise	Fri 02-06-2023 09:00	Rate of Rise on Observed Levels	Fri 02-06-2023 09:00	
UK_MeteoProcessing_Nowcast	Fri 02-06-2023 08:45	Nowcast rainfall processing	Fri 02-06-2023 09:06	
Calculate_RateOfRise	Fri 02-06-2023 08:45	Rate of Rise on Observed Levels	Fri 02-06-2023 08:45	
UK_MeteoProcessing_Nowcast	Fri 02-06-2023 08:30	Nowcast rainfall processing	Fri 02-06-2023 08:46	
External	Fri 02-06-2023 06:00	-	-	
External	Fri 02-06-2023 03:00	-	-	
External	Fri 02-06-2023 00:00	-	-	
External	Thu 01-06-2023 21:00	-	-	
External	Thu 01-06-2023 18:00	-	-	

Seamless integration with WISKI (KiWIS web service)

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XMLSpy v2014 rel. 2 (x64) (http://www.altova.com) by Deltares USA (Deltares USA) -->
<archives xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews
http://fews.wldelft.nl/schemas/version1.0/archives.xsd">
  <!--<catalogueUrl>${ARCHIVE_WEBSERVICE_URL}/catalogue</catalogueUrl-->
  <catalogueUrl>http://localhost:7080/deltares-archive-server/catalogue</catalogueUrl>
  <fileServerUrl>http://localhost:7080/thredds/fileServer/data</fileServerUrl>
  <elasticSearchUrl>http://localhost:7080/deltares-archive-server/elastic</elasticSearchUrl>
  <seamlessIntegrationTimeSeries>
    <valueType>grid</valueType>
  </seamlessIntegrationTimeSeries>
  <waterML2Kiwis>
    <idMapId>IdImportWISKI_Kiwis</idMapId>
    <serverUrl>https://kiwis </serverUrl>
    <oauth2Config>
      <authorizationUrl>https://kiwis </authorizationUrl>
      <clientId> </clientId>
      <clientSecret> </clientSecret>
      <authenticationType>kiwisOauth2</authenticationType>
    </oauth2Config>
    <seamlessIntegrationTimeSeries>
      <timeSeriesType>external historical</timeSeriesType>
    </seamlessIntegrationTimeSeries>
    <seamlessIntegrationTimeSeries>
      <timeSeriesType>external forecasting</timeSeriesType>
    </seamlessIntegrationTimeSeries>
  </waterML2Kiwis>
</archives>
```

```
<function internalLocationSet="WISKI_RH" externalLocationFunction="@WISKI_ID@"
externalParameterFunction="@KIWIS_H@" internalParameter="H.obs"/>
```



```

Logs
***** ERROR, PLEASE READ BELOW !!! *****
Tue 07-11-2023 03:17:37 INFO - Application.Startup.Finished: The application finished starting up. (7.3s;Unmarshall region config 2 s;Unmarshall display groups 2 s;Data Display 1 s;cpu 50%)
Tue 07-11-2023 03:17:37 INFO - Login.Finished:Logged in to archive:test archief 2024.01
Tue 07-11-2023 03:17:37 INFO - Used WindowLayout from defaultlayoutWindows.xml
Tue 07-11-2023 03:17:34 ERROR - Config.Error: Invalid accelerator Ctrl W
SystemConfigFiles/Explorer.xml
Tue 07-11-2023 03:17:34 WARN - ROLLING BARREL IS DISABLED WITH -DautoRollingBarrel=false VM parameter debug option
Tue 07-11-2023 03:17:34 WARN - AUTO SYSTEM TIME SWITCHED OFF with -DautoSystemTime=false VM parameter debug option
Tue 07-11-2023 03:17:34 ERROR - Config.Error: Can not find help file specified in explorer config C:\fews\FEWS-29741B\OPG_HPS_UserManual.pdf
Tue 07-11-2023 03:17:34 WARN - ALL_PERMISSIONS_ENABLED -DallPermissions=true VM parameter debug option
  
```

Product Management Team – Water Operations (FEWS)

1 of the 5 software product lines at Deltares* ...

- **Product Management Team**



Gerben Boot (DSC-OPS)

focus: developments, strategy



Marcel Ververs (ZWS-OWM)

focus: support, strategy



Ilonka ten Broeke (ZWS-OWM)

focus: community, strategy



Camiel is going to leave Deltares per 1-1-2024

- **Product Owners**



Dave de Koning

PO Delft-FEWS

since Sept '23



Jeroen Gerrits

PO Open Archive

since Oct '23



Tom Bogaard

PO Web Operator Client

until MVP Web OC

* The other product lines are: Geo Software, Hydrodynamics & Morphology, Hydrology and Waterquality & Ecology

Events & Webinars



User Days

- NL/B User Day (june 23)
- AnwenderTreffen (june '23)
- AUS User Meeting (aug '23)

Deltares



Webinars

- 2022.02 new features
- 2023.01 new features

Coming up:

- Jan/Feb 2024 New features webinar 2023.02
- 8th of Febr. Community Talks #6



Community Talks

- #3 Forecast Verification
- #4 WIS systems in NL
- #5 EA Incident Management

Documentation, Tips & Tricks and Webinar/videos

- [Delft-FEWS WIKI](#) configuration, user guide (& client-server installation guide → login required)
- [FEWS Docs](#): automatically generated documentation ([schemas](#), [release notes](#), [APIs](#) etc)
- [Tips & Tricks](#) for ‘beginners’ (new configurators)

Webinar	Date	Topics+video link
Delft-FEWS in the cloud	07.02.2022	Delft-FEWS in the cloud
2021.02 Features	25.04.2022	How to apply auto-calibration (with OpenDA) . (click breakpoint at 5:53) How to improve and polish your output in spatial/timeseries plots / how to make attractive GUI icons . (click breakpoint at 16:16) Spotlight: the Import module . (click breakpoint at 30:19)
2022.01 Features	13.10.2022	Spatial Display and Spatial Transformations (click breakpoint at 6:45) Map and Explorer improvements (click breakpoint at 19:15) Spotlight on the Schematic Status Display (click breakpoint at 40:08)
2022.02 Features	23.03.2023	Running Workflows from Spatial Display (click breakpoint at 5:12) Running the FEWS web services locally (click breakpoint at 16:10) Delft-FEWS and the links to GIS systems (click breakpoint at 30: 48)
2023.01 Features	14.09.2023	Using the ‘What-if’-functionality (topics starts at: 10:15) Using WaterCoach on-the-fly (topics starts at: 22:00) The Delft-FEWS Web Operator Client (WebOC) (topics starts at: 44:30)

Outlook to 2024.01

Projects

- Admin Interface – Web services **patchable**
- **Implementation** of Open Archive (based on product vision)
- **Ensemble highlighting** in plots
- **Flood Warnings & Thresholds**: Generation AND dissemination (AUS)
- New **patching** mechanism (due to migration to Git)
- **Hide/show** data in filter-tree based on data quality and source

Roadmaps

- Azure Virtual Scalesets for **high available MC** deployment
- **Scalable FSSs** using cloud technologies
- Use of **Python** (Transformation module)
- **Database Proxy** upgrade
- **Evaluate** current and work on the **New Product Vision** of Delft-FEWS

Deltares



Contact

 www.delft-fews.com

 [@DelftFEWS](https://twitter.com/DelftFEWS)

 [linkedin.com/company/deltares](https://www.linkedin.com/company/deltares)

 fews-pm@deltares.nl

 [@deltares](https://www.instagram.com/deltares)

 [facebook.com/deltaresNL](https://www.facebook.com/deltaresNL)

