

Delft-FEWS 2024.01 **New features** *Delft-FEWS User Days*

Delft-FEWS Product Management
Marcel Ververs and Gerben Boot

June 2024






Introduction...

- Welcome
- What's new in 2023.02 and 2024.01?
- Outlook to 2024.02

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



Highlights of the 2024.01

-  Manage **location & location-attributes** in a new display
-  Query new **endpoints** via the FEWS web services
-  **Search** and display (**BRO**) data through maps
-  Manage **datafeeds & exports** via the Admin Interface
-  Discover new filtering options in **interval statistics**



Metadata Manager Display

Extension of Tabular Config Files Display



File Tools Dashboards Options Help BOS Regge en Dinkel (standalone testapplicatie Deltares) (Stand alone)

MapLayerFiles\WIWB-locaties.csv (draft)

~LOCATION_NAME	locationCode_combo	GEBRUIK	LocationCode	LocationName	LON_WGS84	LAT_WGS84	X_RD	Y_RD	EPSG_BASIS	Is_Knmi_IrisUnvalidated	Is_...
148 Sappemeer	148_Sappemeer	True	148	Sappemeer	6.732620705	53.15415733	245000	575000	28992	True	Tru
158 Onnen	158_Onnen	True	158	Onnen	6.672839413	53.15481356	241000	575000	28992	True	Tru

locking & filtering **edits, revert, refresh, save** **add/remove rows, copy-paste, export**

~LOCATION_NAME	locationCode_combo	GEBRUIK	LocationCode	LocationName	LON_WGS84	LAT_WGS84	X_RD	Y_RD	EPSG_BASIS	Is_Knmi_IrisUnvalidated	Is_...
016 Petten	016_Petten	True	016	Petten	5.972257121	53.2967962	134000	590000	28992	True	Tru
017 Den Burg	017_DenBurg	True	017	Den Burg	6.451957621	53.29177273	226000	590000	28992	True	Tru

612 rows | LocationSets.xml | Tabular config files

Logs Current system time 2024-05-24 12:45 MEST 15:21:25 CEST Archive: not connected Stand alone 182149, 520143 0.0 MB/s 799 MB



Metadata Manager Display

MapLayerFiles\WIWB-locaties.csv (draft)

~LOCATION_NAME	locationCode_combo	GEBRUIK	LocationCode	LAT_WGS84	Is_Knmi_WaquaTs	~LAST_EDIT_USER	~LAST_EDIT_TIME
WAT Waddeneilanden	WAT_Waddeneilanden	False	WAT	53.02466317	False		
065 Makkum	065_Makkum	rue	065	53.06286414	False		
076 Kornwerderzand	076_Kornwerderzand	rue	076	53.06285678	False		
086 Nijbeets	086_Nijbeets	rue	086	53.06130178	False		
022 De Koog	022_De Koog	rue	022	53.09724539	False		
147 Veendam	147_Veendam	rue	147	53.09921606	False		
061 Skrips	061_Skrips	rue	061	53.11647855	False		
073 Drachten	073_Drachten	rue	073	53.11463462	False		
161 Eelde	161_Eelde	rue	161	53.11980529	False		
090 Eernewoude	090_Eernewoude	rue	090	53.13347623	False		
06280 Groningen	06280_Groningen	alse	06280	53.133	False		
153 Winschoten	153_Winschoten	rue	153	53.1322578	False		
163 Roden	163_Roden	rue	163	53.14815582	False		
166 Marum	166_Marum	rue	166	53.14936746	False		
019 De Cocksdorp	019_De Cocksdorp	rue	019	53.16063234	False		
148 Sappemeer	148_Sappemeer	rue	148	53.15415733	False		
158 Onnen	158_Onnen	rue	158	53.15481356	False		
066 Harlingen	066_Harlingen	rue	066	53.1796723	False		
078 Herbayum	078_Herbayum	rue	078	53.17962091	False		
087 Bergumerdam	087_Bergumerdam	rue	087	53.17803461	False		
139 Groningen	139_Groningen	rue	139	53.18269425	False		
GR Groningen	GR_Groningen	alse	GR	53.18269425	False		
06513 Harlingen	06513_Harlingen	alse	06513	53.2	False		
06286 Nieuw Beerta	06286_Nieuw Beerta	alse	06286	53.2	False		
143 Finsterwolde	143_Finsterwolde	rue	143	53.20327482	False		
06270 Leeuwarden	06270_Leeuwarden	False	06270	53.217	False		
085 Leeuwarden	085_Leeuwarden	True	085	53.22402447	False		
162 Niekerk	162_Niekerk	True	162	53.22078207	False		
FR Friesland	FR_Friesland	False	FR	53.22402447	False		
WAD Waddenzee	WAD_Waddenzee	False	WAD	53.22456305	False		
06252 K13-A	06252_K13-A	False	06252	53.217	False		
06242 Vlieland	06242_Vlieland	False	06242	53.25	False		
024 Vlieland	024_Vlieland	True	024	53.25981805	False		
172 Nieuwolda	172_Nieuwolda	True	172	53.24984584	False		
068 St Anna Parochie	068_St Anna Parochie	True	068	53.27818326	False		
077 Kollum	077_Kollum	True	077	53.27618175	False		
135 Woltersum	135_Woltersum	True	135	53.2711106	False		
06204 K14-FA-1C?c?	06204_K14-FA-1C?c?%	False	06204	53.267	False		
015 Oost Vlieland	015_Oost Vlieland	True	015	53.29607962	False		
136 Ezinge	136_Ezinge	True	136	53.29177273	False		
067 Dokkum	067_Dokkum	True	067	53.32194829	False		
134 Middelstum	134_Middelstum	True	134	53.32613186	False		
141 Delfzijl	141_Delfzijl	True	141	53.32249234	False		
145 Zoutkamp	145_Zoutkamp	True	145	53.32905891	False		
164 Zeerijp	164_Zeerijp	True	164	53.34263937	False		
084 Ezumazijl	084_Ezumazijl	True	084	53.35694854	False		
011 West Terschelling	011_West Terschelling BRANDARIS	True	011	53.36826024	False	boot_g	2024-05-30 15:48:32
154 Eenrum	154_Eenrum	True	154	53.36351009	False		
091 Ternaard	091_Ternaard	True	091	53.37593084	False		
06251 Hoornterschelling	06251_Hoornterschelling	False	06251	53.383	False		
150 Uithuizen	150_Uithuizen	True	150	53.37940186	False		
171 Anjum	171_Anjum	True	171	53.38399658	False		
00101 Accendelft (S16)	00101_Accendelft (S16)	False	00101	53.387	False		

612 rows | LocationSets.xml

Map Tabular config files

Logs Current system time: 2024-05-24 12:45 MEST 15:49:33 CEST Archive: not connected Stand alone 182149, 520143 0.0 MB/s 807 MB



Metadata Manager Display Configuratie

- **Explorer.xml**
 - Toevoegen: <ExplorerTask>

```
<explorerTask name="HyFS Metadata">
  <iconFile>hymm.svg</iconFile>
  <predefinedDisplay>tabular config files display</predefinedDisplay>
  <toolbarTask>true</toolbarTask>
  <menubarTask>true</menubarTask>
  <accelerator>ctrl shift T</accelerator>
  <toolWindow>>false</toolWindow>
  <loadAtStartup>>false</loadAtStartup>
</explorerTask>
```

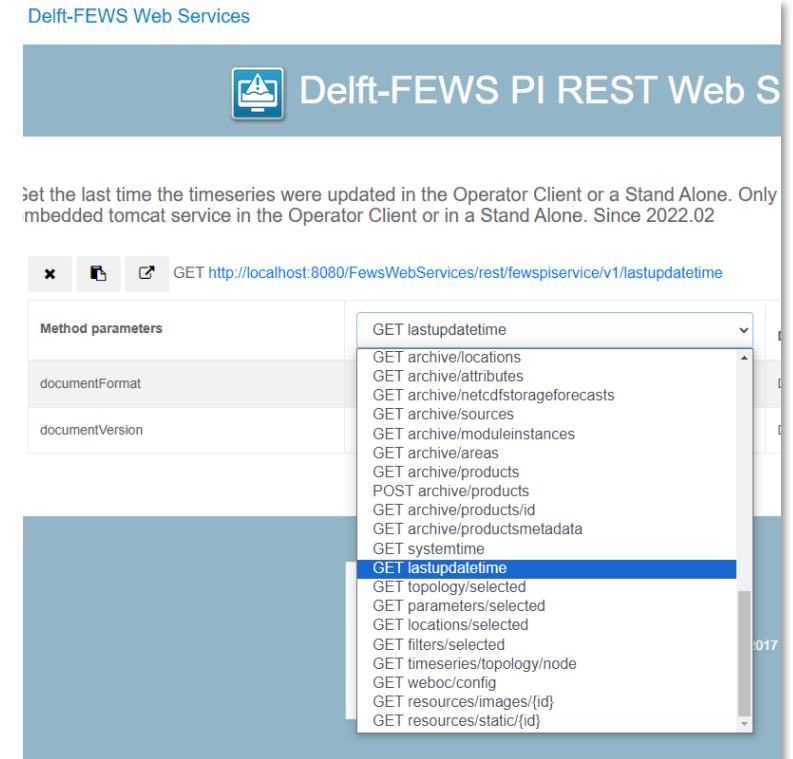
- In **Config/DisplayConfigFiles**
 - Add **TabularConfigFilesDisplay.xml**
 - <editPermission>
 - Configurable (extra) <taskButton>
- Run executable, a (python) script, git interactions

```
<?xml version="1.0" encoding="UTF-8"?>
<tabularConfigFilesDisplay 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/tabularConfigFilesDisplay.xsd"
  <editPermission>Configuration</editPermission>
  <taskButton name="Update Config and Metadata for Public Web Products">
    <description>Update Config and Metadata for Public Web Products</description>
    <permission>Configuration</permission>
    <iconFile>update_config.svg</iconFile>
    <workDir>%REGION_HOME%\Modules\HYMM_python_scripts</workDir>
    <executable>$WINPOWERSHELL$</executable>
    <arguments>
      <argument>$PYTHON$ create_metadata.py %REGION_HOME%\Config\MapLayerFiles\
      <argument>$PYTHON$ create_maps.py %REGION_HOME% %REGION_HOME%\Mod
      <argument>$PYTHON$ create_products.py %REGION_HOME% %REGION_HOME%\M
    </arguments>
  </taskButton>
```



REST based web services

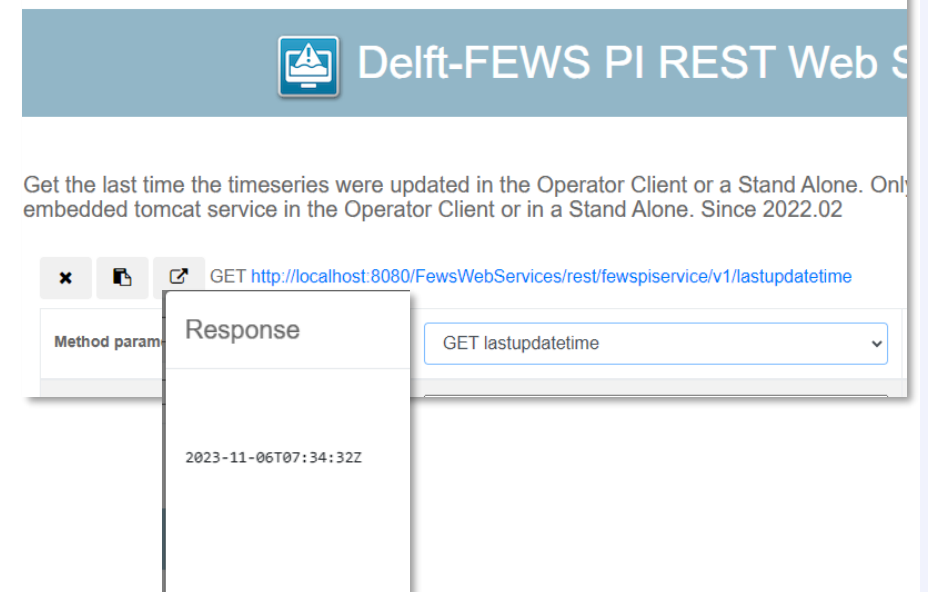
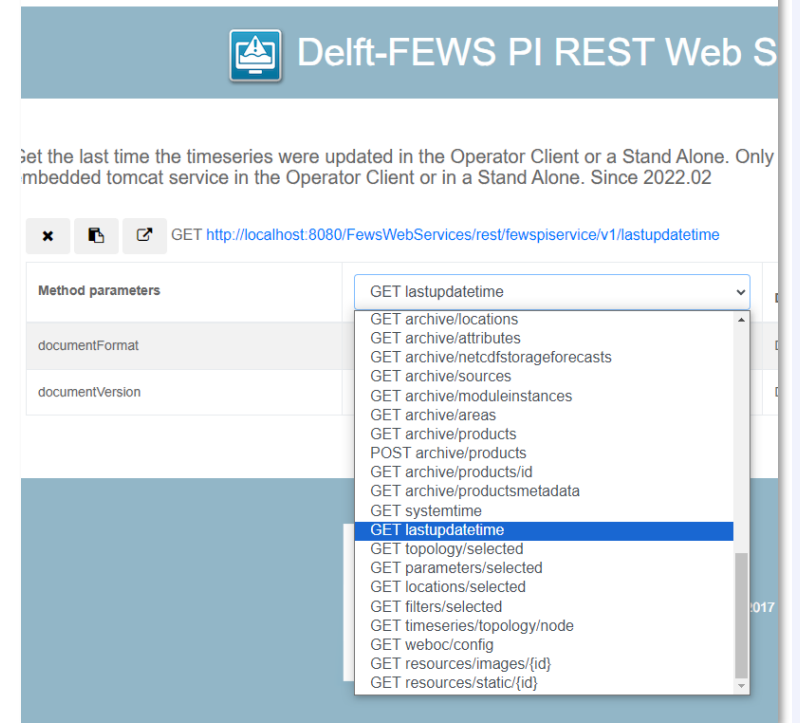
- Delft-FEWS Webservices
 - Extension of end points
 - Webservice 'patchable'
- New AlarmModule (for RWS)
 - REST based interaction from Delft-FEWS
 - Extension of Secondary validation module
 - Extension of Export Framework
- Seamless integration: WaterML based web service as a data source
 - Opening up and sharing data sources between agencies (coupling several Waterboards in the North of the Netherlands, Sava) via WaterML web services.



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





BRO: Basis Registratie Ondergrond (NL) Opvraagmogelijkheden via de kaart

- Ondersteuning van BRO uitgifte API v2
- Selectie van GMW's (putten) op de kaart (PDOK) via 'rechthoek' tekenen
- Preview van gevonden locaties (met metadata) + *temporary* import van selectie

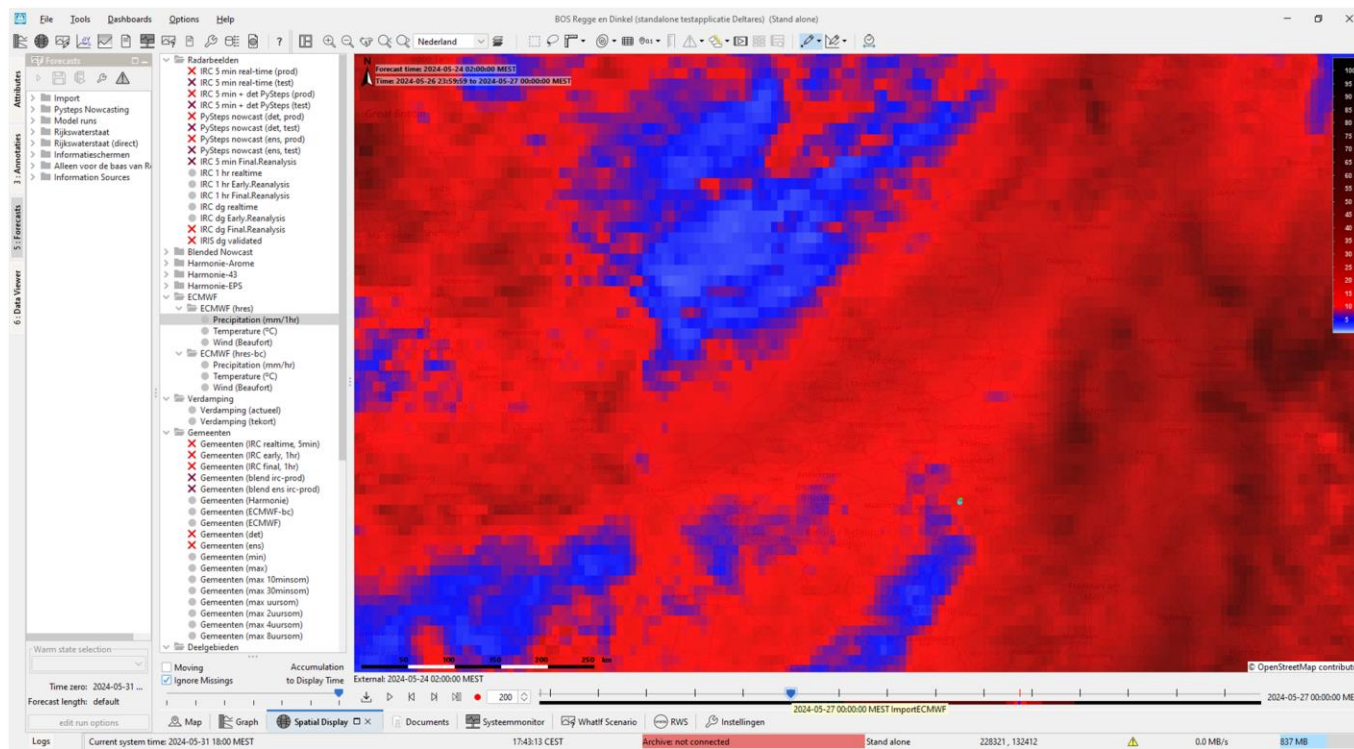
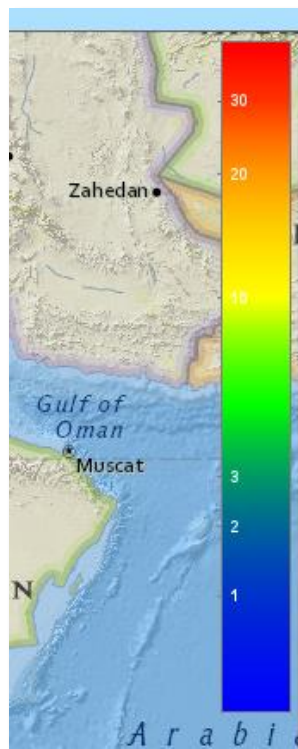
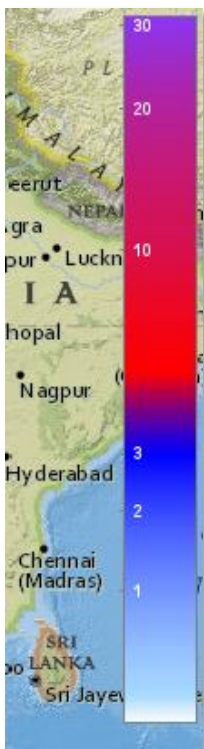
The screenshot displays the FEWS BRO Test application interface. On the left, there is a 'Data Viewer' panel with 'Thema's' (Themes) and 'Locaties' (Locations) sections. The main area is a map showing numerous groundwater monitoring points (GMW's) marked with colored triangles. A 'Select GMW(s) for import' dialog box is open, showing a table of data for selection.

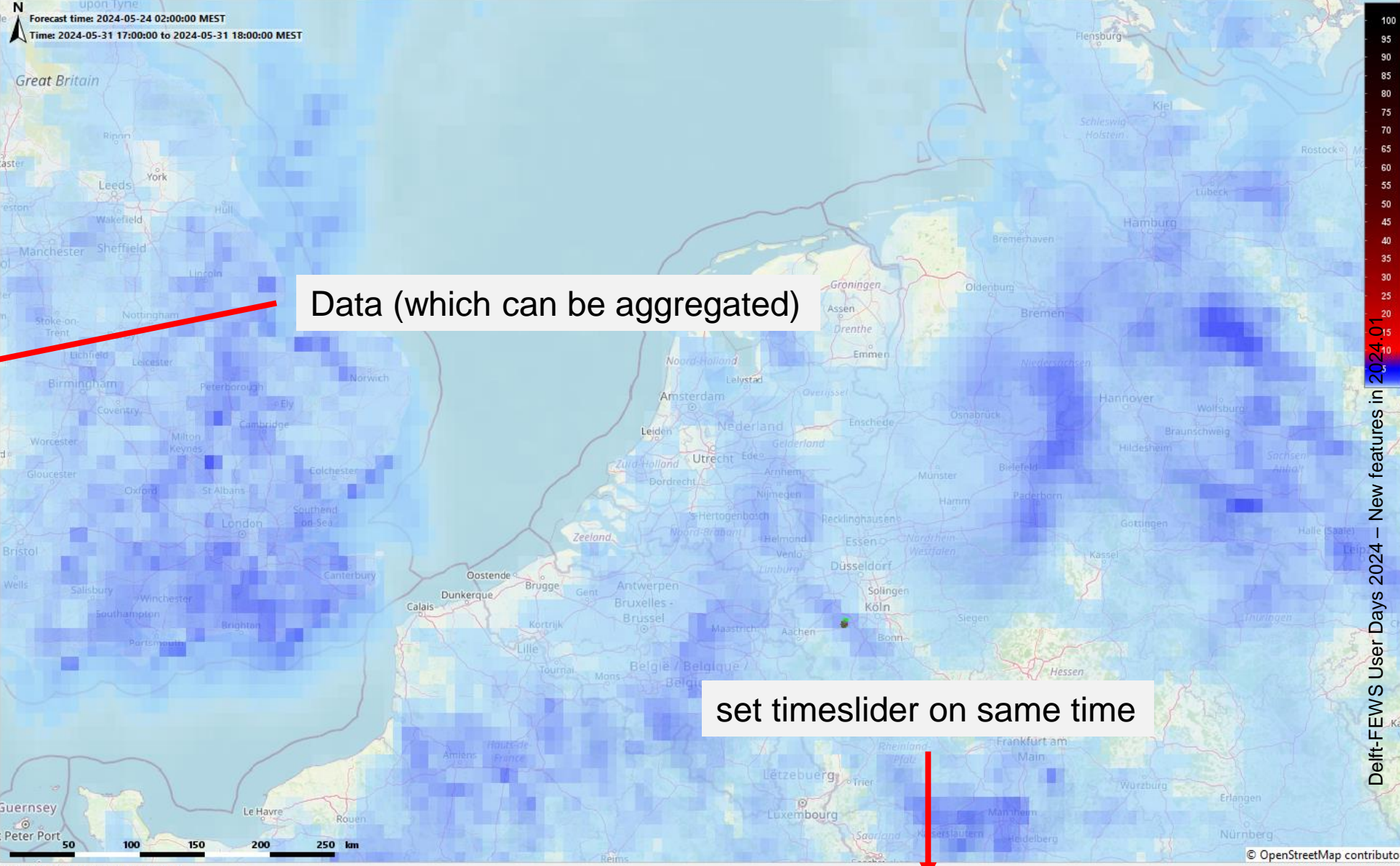
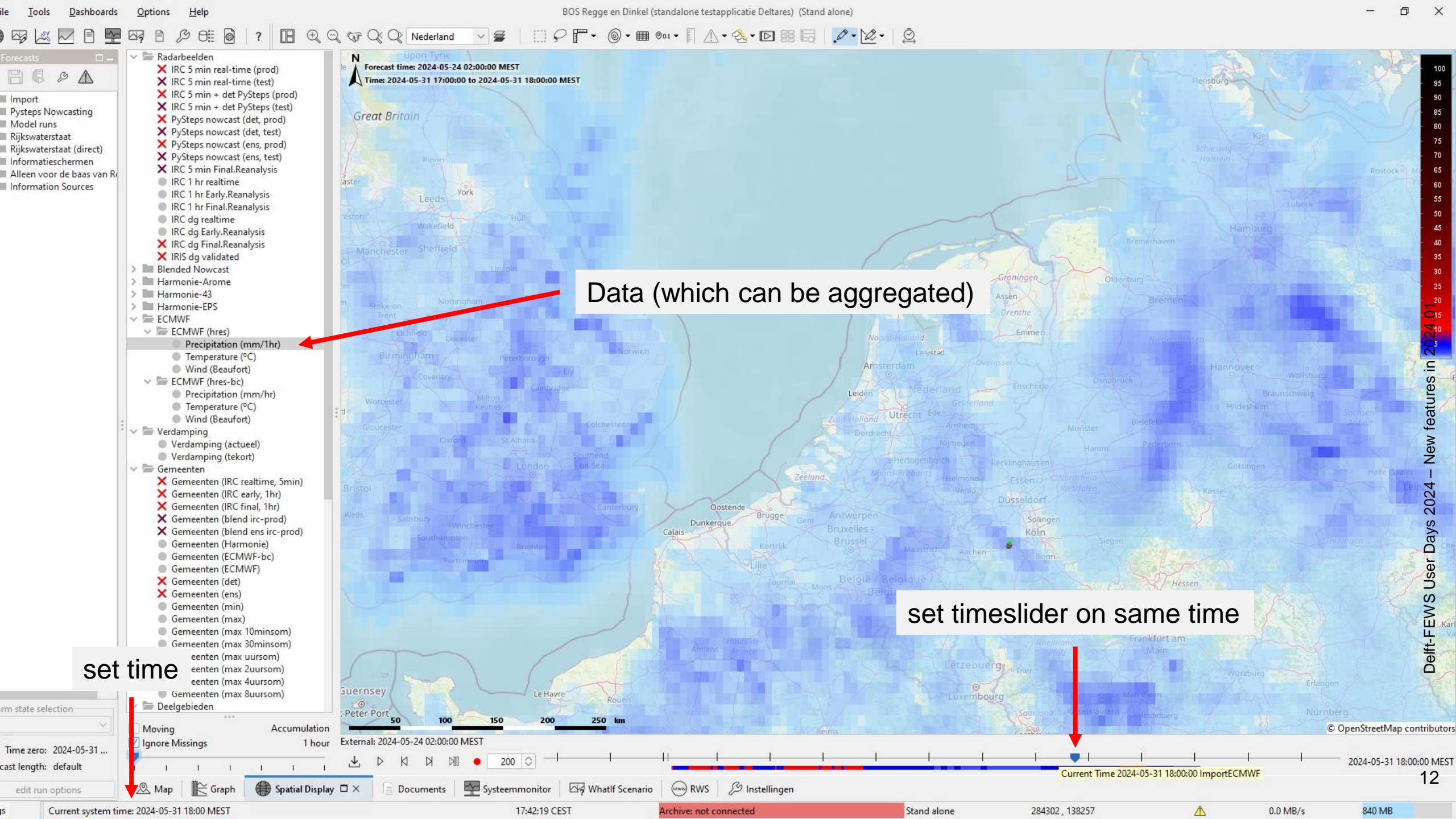
BRO-ID	Putcode	Eigenaar	Inrichting	Buizen	Maaiveld	Bovenkant filters	Onderkant filters
<input type="checkbox"/>	GMW000000062769	GMW45F135414	85031186	2022-10-17	1	16,396	12,776
<input type="checkbox"/>	GMW000000062744	GMW45F135389	85031186	2021-11-09	1	11,577	9,399
<input type="checkbox"/>	GMW000000062742	GMW45F135387	85031186	2021-11-08	1	13,028	11,271
<input type="checkbox"/>	GMW000000062743	GMW45F135388	85031186	2021-11-09	1	12,855	10,691
<input type="checkbox"/>	GMW000000062740	GMW45F135385	85031186	2021-11-09	1	13,598	11,723
<input type="checkbox"/>	GMW000000062741	GMW45F135386	85031186	2021-11-09	1	15,936	12,768
<input checked="" type="checkbox"/>	GMW000000017853	GMW45E000351	17278718	1996-05-06	1	17,670	13,110
<input type="checkbox"/>	GMW000000074948	GMW45F138985	85031186	2023-02-23	1	11,727	9,297
<input type="checkbox"/>	GMW000000074947	GMW45F138984	85031186	2023-02-23	1	10,810	8,190
<input type="checkbox"/>	GMW000000025660	GMW45F000145	27376655	1998-04-22	2	12,000	6,300
<input checked="" type="checkbox"/>	GMW000000074949	GMW45F138986	85031186	2023-02-23	1	11,880	9,290
<input type="checkbox"/>	GMW000000018022	GMW45F000174	17278718	1981-11-17	5	13,620	3,370
<input type="checkbox"/>	GMW000000068772	GMW45F000665	30263544	1994-07-01	1	9,900	8,920
<input type="checkbox"/>	GMW000000042043	GMW45F000060	17278718	1944-04-01	1	17,390	11,290
<input type="checkbox"/>	GMW000000068756	GMW45F000659	30263544	1994-07-01	1	16,270	14,320
<input checked="" type="checkbox"/>	GMW000000062739	GMW45F135384	85031186	2021-11-03	1	10,742	8,825
<input type="checkbox"/>	GMW000000066814	GMW45F000632	17251019	1958-10-14	1	15,390	14,150
<input type="checkbox"/>	GMW0000000656084	GMW45F000627	27376655	1958-02-14	1	11,560	10,130
<input type="checkbox"/>	GMW000000062737	GMW45F135382	85031186	2021-11-03	1	11,448	8,254
<input type="checkbox"/>	GMW000000062738	GMW45F135383	85031186	2021-11-08	1	10,269	8,426
<input type="checkbox"/>	GMW000000062735	GMW45F135380	85031186	2021-11-03	1	11,229	8,993
<input type="checkbox"/>	GMW000000062736	GMW45F135381	85031186	2021-11-03	1	11,335	8,592
<input checked="" type="checkbox"/>	GMW000000062743	GMW45F135378	85031186	2021-11-03	1	10,916	8,743
<input type="checkbox"/>	GMW000000062734	GMW45F135379	85031186	2021-11-08	1	9,912	8,204
<input type="checkbox"/>	GMW000000062751	GMW45F135396	85031186	2021-11-08	1	9,590	7,710
<input type="checkbox"/>	GMW000000062771	GMW45F135416	85031186	2022-10-17	1	11,000	7,584
<input type="checkbox"/>	GMW000000059947	GMW45F133032	17251019	2022-02-11	1	7,342	5,982
<input type="checkbox"/>	GMW000000062770	GMW45F135415	85031186	2022-10-17	1	10,692	7,152
<input type="checkbox"/>	GMW000000068182	GMW45F000663	30263544	1994-07-01	1	9,930	8,230
<input type="checkbox"/>	GMW000000068184	GMW45F000660	30263544	1994-07-01	1	9,990	8,800
<input type="checkbox"/>	GMW000000017725	GMW45F000205	17278718	1991-01-01	3	8,000	-17,000
<input type="checkbox"/>	GMW000000068760	GMW45F000661	30263544	1994-07-01	1	10,060	8,260
<input type="checkbox"/>	GMW000000068764	GMW45F000662	30263544	1994-07-01	1	10,010	8,260
<input type="checkbox"/>	GMW000000068768	GMW45F000664	30263544	1994-07-01	1	10,050	8,270
<input type="checkbox"/>	GMW000000018072	GMW45F000667	17278718	2006-07-06	1	17,340	14,050



Spatial Display

- Accumulation to Display time
- Bar legend in Spatial Display with log or linear scaling





Data (which can be aggregated)

set timeslider on same time

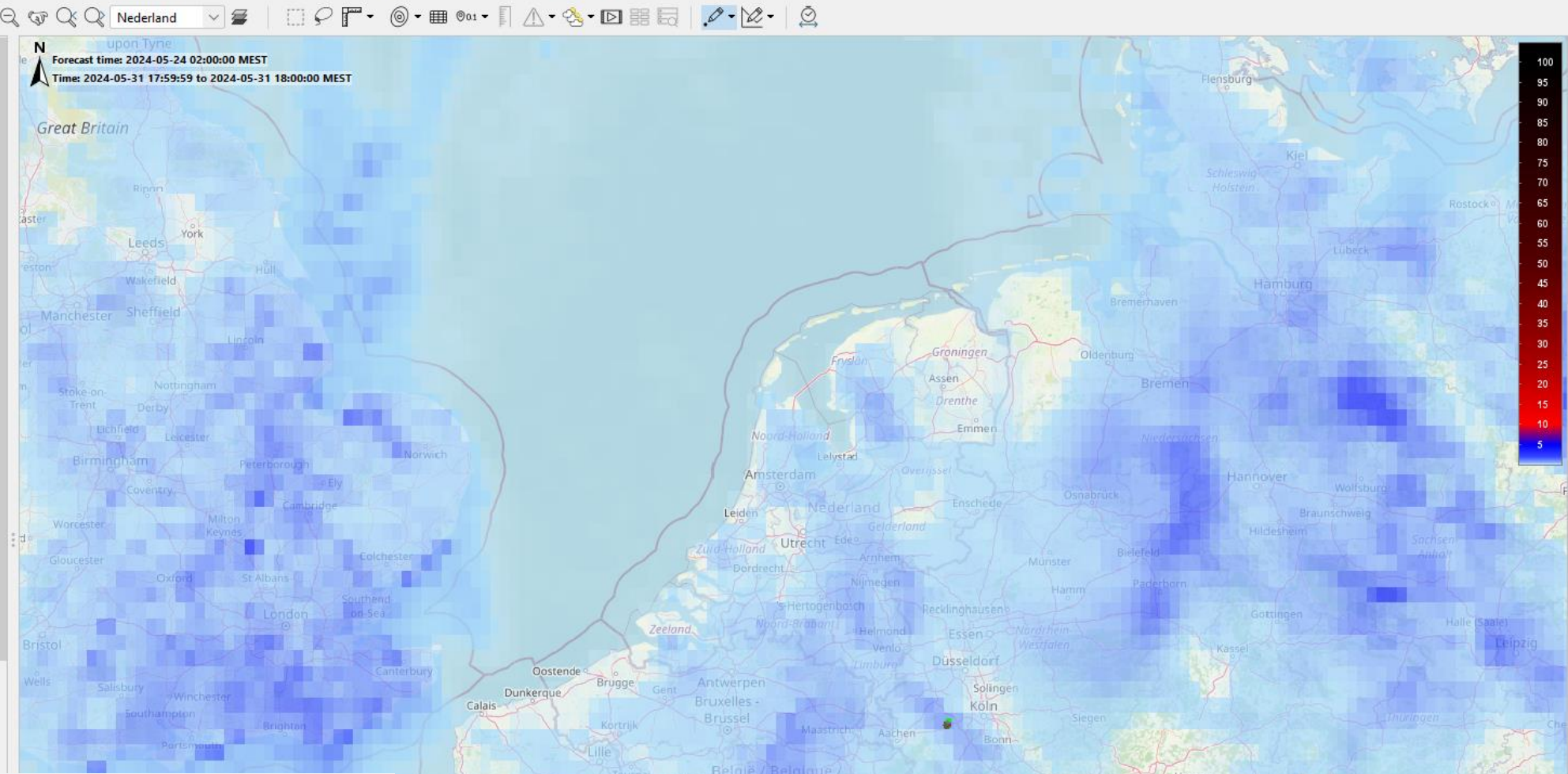
set time

Delft-FEWS User Days 2024 - New features in 2024.01

- Import
- PySteps Nowcasting
- Model runs
- Rijkswaterstaat
- Rijkswaterstaat (direct)
- Informatieschermen
- Alleen voor de baas van R
- Information Sources

- 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-43
- Harmonie-EPS
- ECMWF
 - ECMWF (hres)
 - Precipitation (mm/1hr)
 - Temperature (°C)
 - Wind (Beaufort)
 - ECMWF (hres-bc)
 - Precipitation (mm/1hr)
 - Temperature (°C)
 - Wind (Beaufort)
 - Verdamping
 - Verdamping (actueel)
 - Verdamping (tekort)
 - Gemeenten
 - × Gemeenten (IRC realtime, 5min)
 - × Gemeenten (IRC early, 1hr)
 - × Gemeenten (IRC final, 1hr)
 - × Gemeenten (blend irc-prod)
 - × Gemeenten (blend ens irc-prod)
 - Gemeenten (Harmonie)
 - Gemeenten (ECMWF-bc)
 - Gemeenten (ECMWF)
 - × Gemeenten (det)
 - × Gemeenten (ens)
 - Gemeenten (min)
 - Gemeenten (max)
 - Gemeenten (max 10minsom)
 - Gemeenten (max 30minsom)
 - Gemeenten (max uursom)
 - Gemeenten (max 2uursom)
 - Gemeenten (max 4uursom)
 - Gemeenten (max 8uursom)
 - Deelgebieden

- Forecasts
- Import
- Pysteps Nowcasting
- Model runs
- Rijkswaterstaat
- Rijkswaterstaat (direct)
- Informatieschermen
- Alleen voor de baas van R
- Information Sources
- 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-43
- Harmonie-EPS
- ECMWF
 - ECMWF (hres)
 - Precipitation (mm/1hr)
 - Temperature (°C)
 - Wind (Beaufort)
 - ECMWF (hres-bc)
 - Precipitation (mm/hr)
 - Temperature (°C)
 - Wind (Beaufort)
 - Verdamping
 - Verdamping (actueel)
 - Verdamping (tekort)
 - Gemeenten
 - × Gemeenten (IRC realtime, 5min)
 - × Gemeenten (IRC early, 1hr)
 - × Gemeenten (IRC final, 1hr)
 - × Gemeenten (blend irc-prod)
 - × Gemeenten (blend ens irc-prod)
 - Gemeenten (Harmonie)
 - Gemeenten (ECMWF-bc)
 - Gemeenten (ECMWF)



Accumulation slider to the most right position

Timeslider colours change

● Gemeenten (max 10minsom)

● Gemeenten (max 30minsom)

● Gemeenten (max uursom)

● Gemeenten (max 2uursom)

● Gemeenten (max 4uursom)

● Gemeenten (max 8uursom)

Deelgebieden

Moving

Ignore Missings

Accumulation slider to Display Time

External: 2024-05-24 02:00:00 MEST

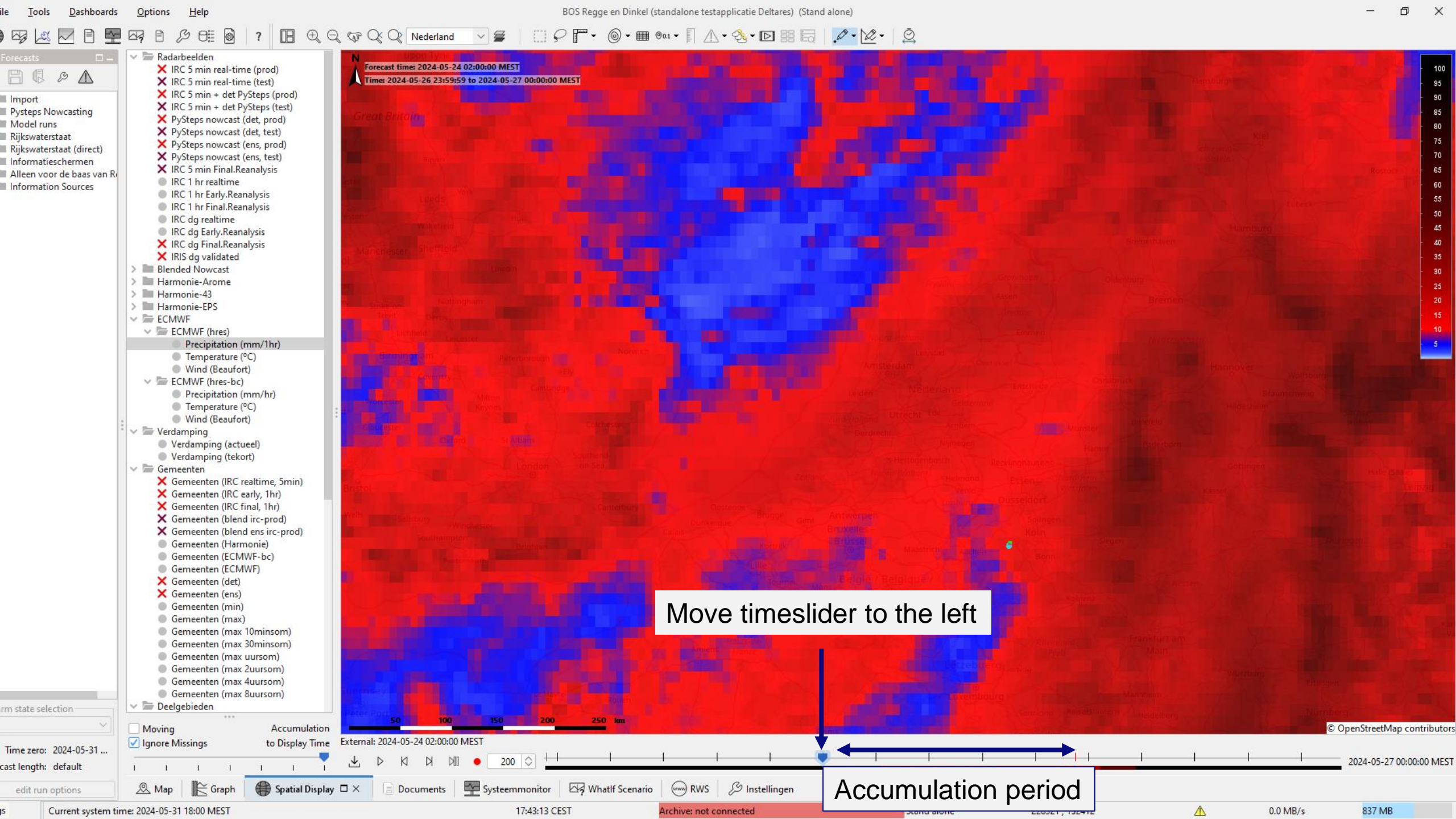
200

2024-05-31 18:00:00 MEST

13

Map Graph Spatial Display Documents Systemmonitor Whatif Scenario RWS Instellingen

Current system time: 2024-05-31 18:00 MEST 17:42:45 CEST Archive: not connected Stand alone -428160, 221974 0.0 MB/s 839 MB



Forecast time: 2024-05-24 02:00:00 MEST
Time: 2024-05-26 23:59:59 to 2024-05-27 00:00:00 MEST



Move timeslider to the left

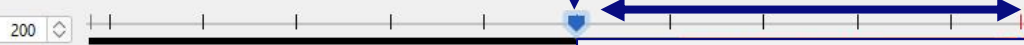
Accumulation period

- Forecasters
 - Import
 - PySteps Nowcasting
 - Model runs
 - Rijkswaterstaat
 - Rijkswaterstaat (direct)
 - Informatieschermen
 - Alleen voor de baas van R
 - Information Sources
- 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-43
- Harmonie-EPS
- ECMWF
 - ECMWF (hres)
 - Precipitation (mm/1hr)
 - Temperature (°C)
 - Wind (Beaufort)
 - ECMWF (hres-bc)
 - Precipitation (mm/hr)
 - Temperature (°C)
 - Wind (Beaufort)
- Verdamping
 - Verdamping (actueel)
 - Verdamping (tekort)
- Gemeenten
 - Gemeenten (IRC realtime, 5min)
 - Gemeenten (IRC early, 1hr)
 - Gemeenten (IRC final, 1hr)
 - Gemeenten (blend irc-prod)
 - Gemeenten (blend ens irc-prod)
 - Gemeenten (Harmonie)
 - Gemeenten (ECMWF-bc)
 - Gemeenten (ECMWF)
 - Gemeenten (det)
 - Gemeenten (ens)
 - Gemeenten (min)
 - Gemeenten (max)
 - Gemeenten (max 10minsom)
 - Gemeenten (max 30minsom)
 - Gemeenten (max uursom)
 - Gemeenten (max 2uursom)
 - Gemeenten (max 4uursom)
 - Gemeenten (max 8uursom)
- Deelgebieden

Moving
 Ignore Missings

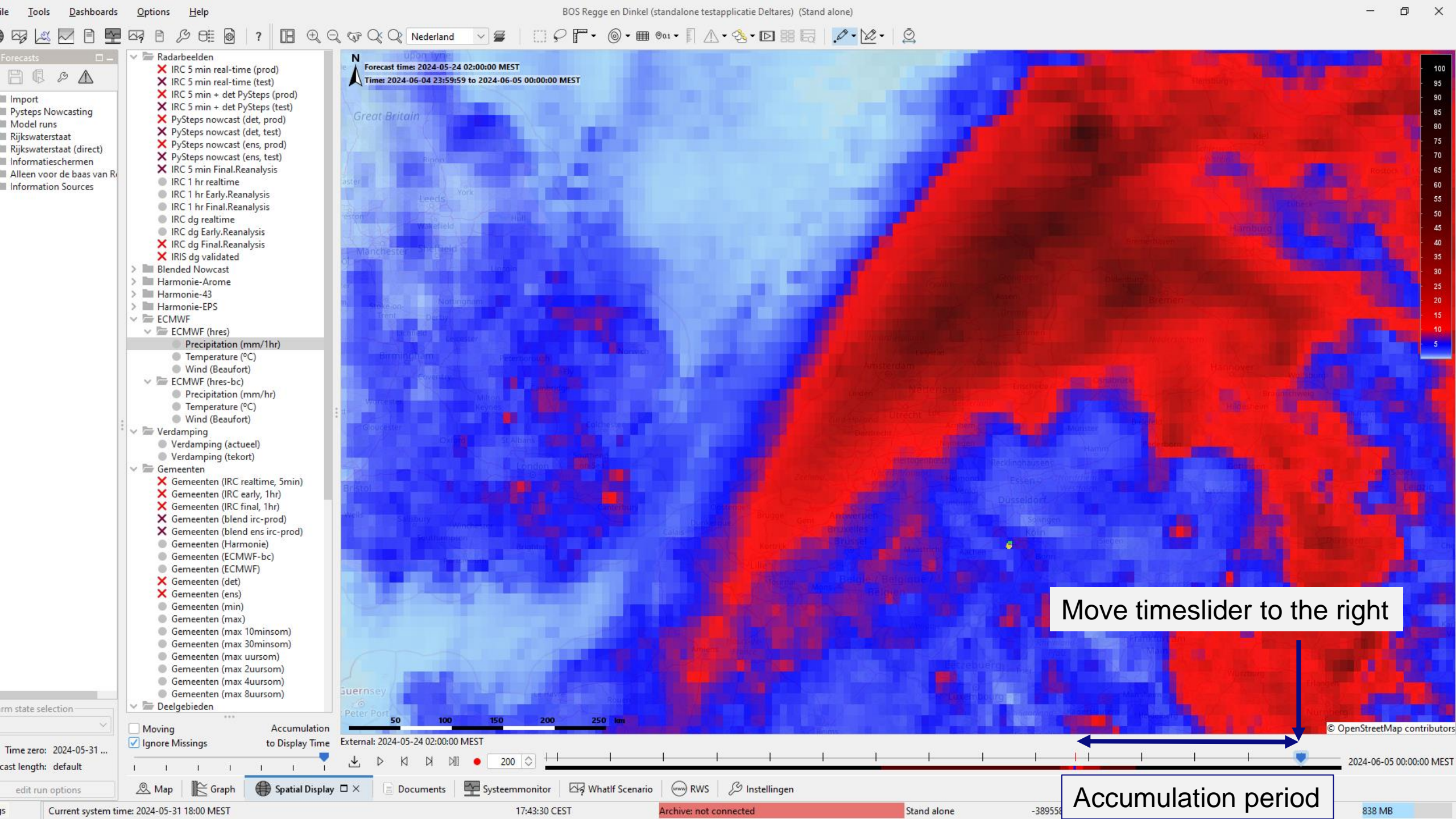
Accumulation to Display Time

External: 2024-05-24 02:00:00 MEST

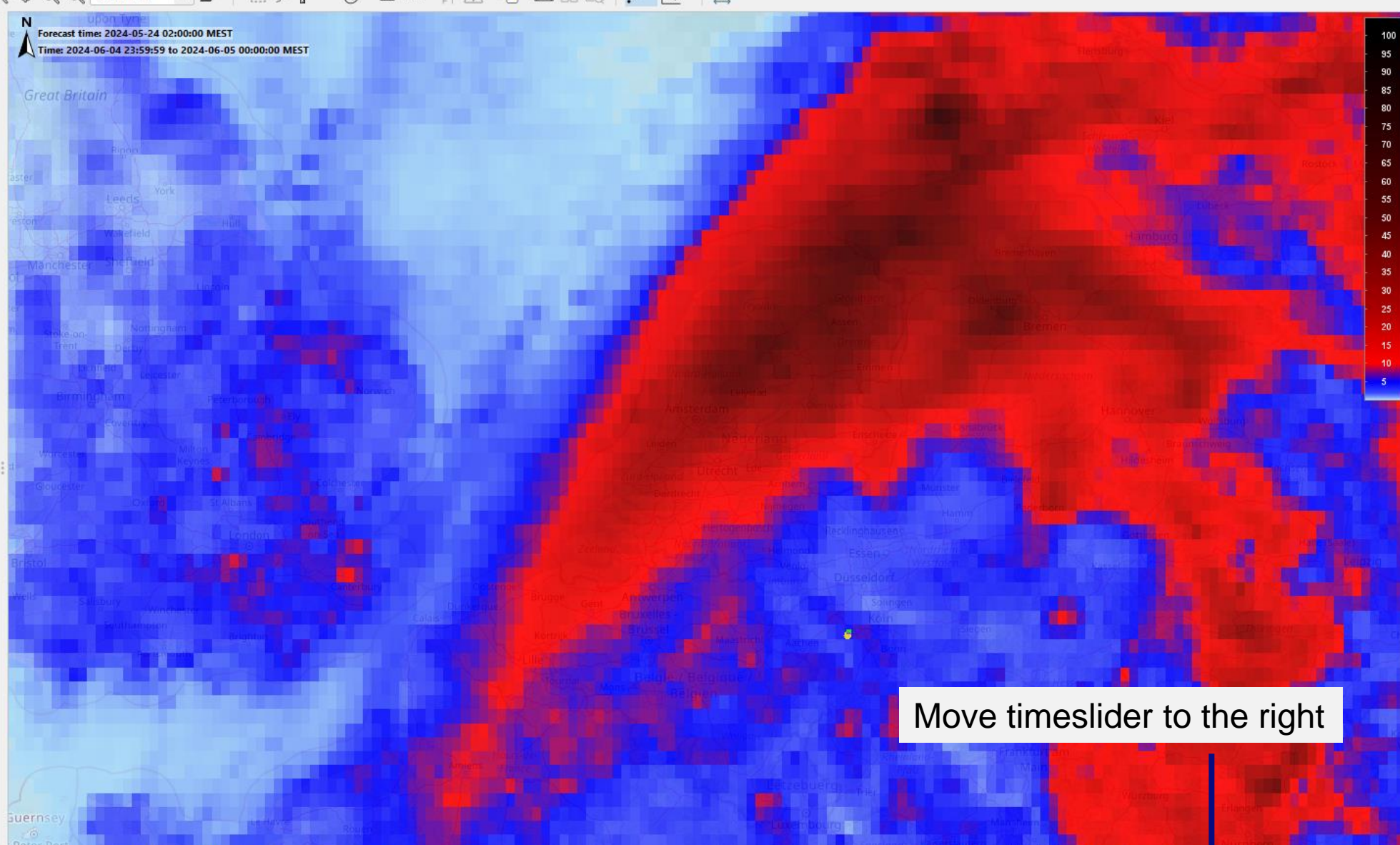


© OpenStreetMap contributors

2024-05-27 00:00:00 MEST



- 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-43
- Harmonie-EPS
- ECMWF
 - ECMWF (hres)
 - Precipitation (mm/1hr)
 - Temperature (°C)
 - Wind (Beaufort)
 - ECMWF (hres-bc)
 - Precipitation (mm/hr)
 - Temperature (°C)
 - Wind (Beaufort)
 - Verdamping
 - Verdamping (actueel)
 - Verdamping (tekort)
 - Gemeenten
 - ✗ Gemeenten (IRC realtime, 5min)
 - ✗ Gemeenten (IRC early, 1hr)
 - ✗ Gemeenten (IRC final, 1hr)
 - ✗ Gemeenten (blend irc-prod)
 - ✗ Gemeenten (blend ens irc-prod)
 - Gemeenten (Harmonie)
 - Gemeenten (ECMWF-bc)
 - Gemeenten (ECMWF)
 - ✗ Gemeenten (det)
 - ✗ Gemeenten (ens)
 - Gemeenten (min)
 - Gemeenten (max)
 - Gemeenten (max 10minsom)
 - Gemeenten (max 30minsom)
 - Gemeenten (max uursom)
 - Gemeenten (max 2uursom)
 - Gemeenten (max 4uursom)
 - Gemeenten (max 8uursom)
 - Deelgebieden



Move timeslider to the right

Accumulation period



Export / Import Status Page

System Status | Forecast Tasks | Workflow and FSSs | Files

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

Log Browser | Live System Status | Scheduled Forecasts | Running Forecasts | Import Status | Export Status

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

Move Selected Files | Imports | Download Selected Files

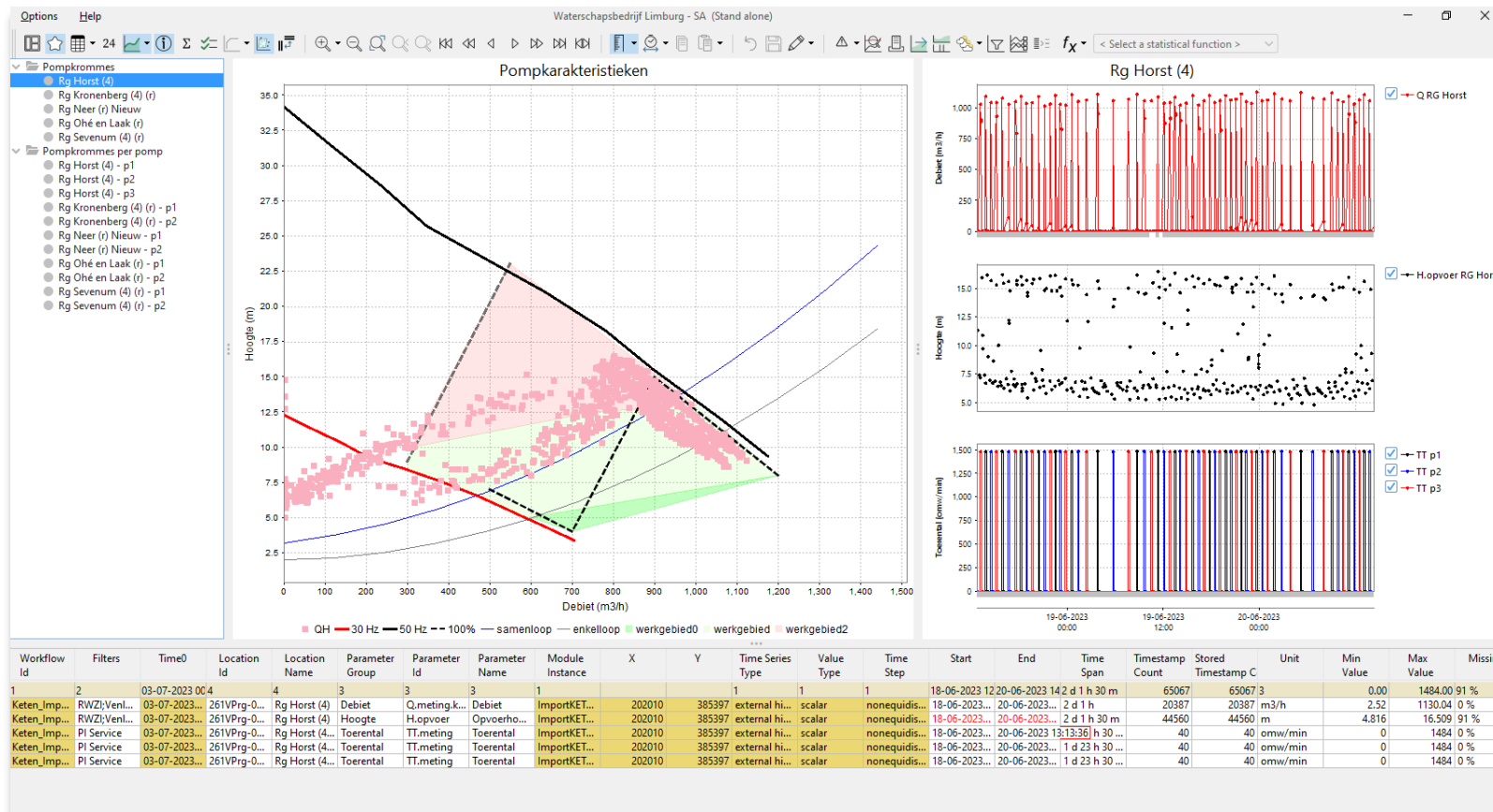
successfulimports / scalars

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

Timeseries Display

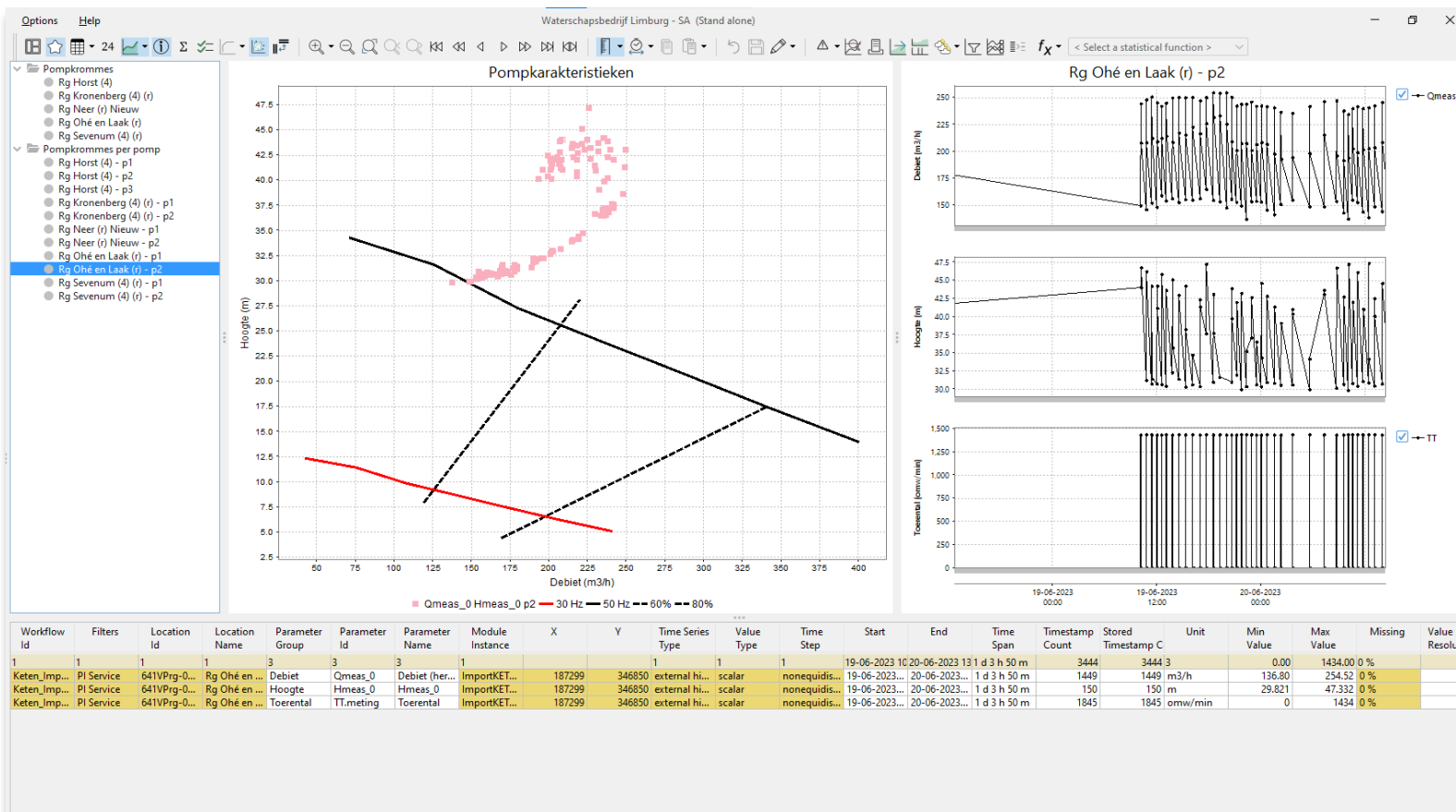
2023.02 Extensions (InteractionScatterPlot)





Timeseries Display

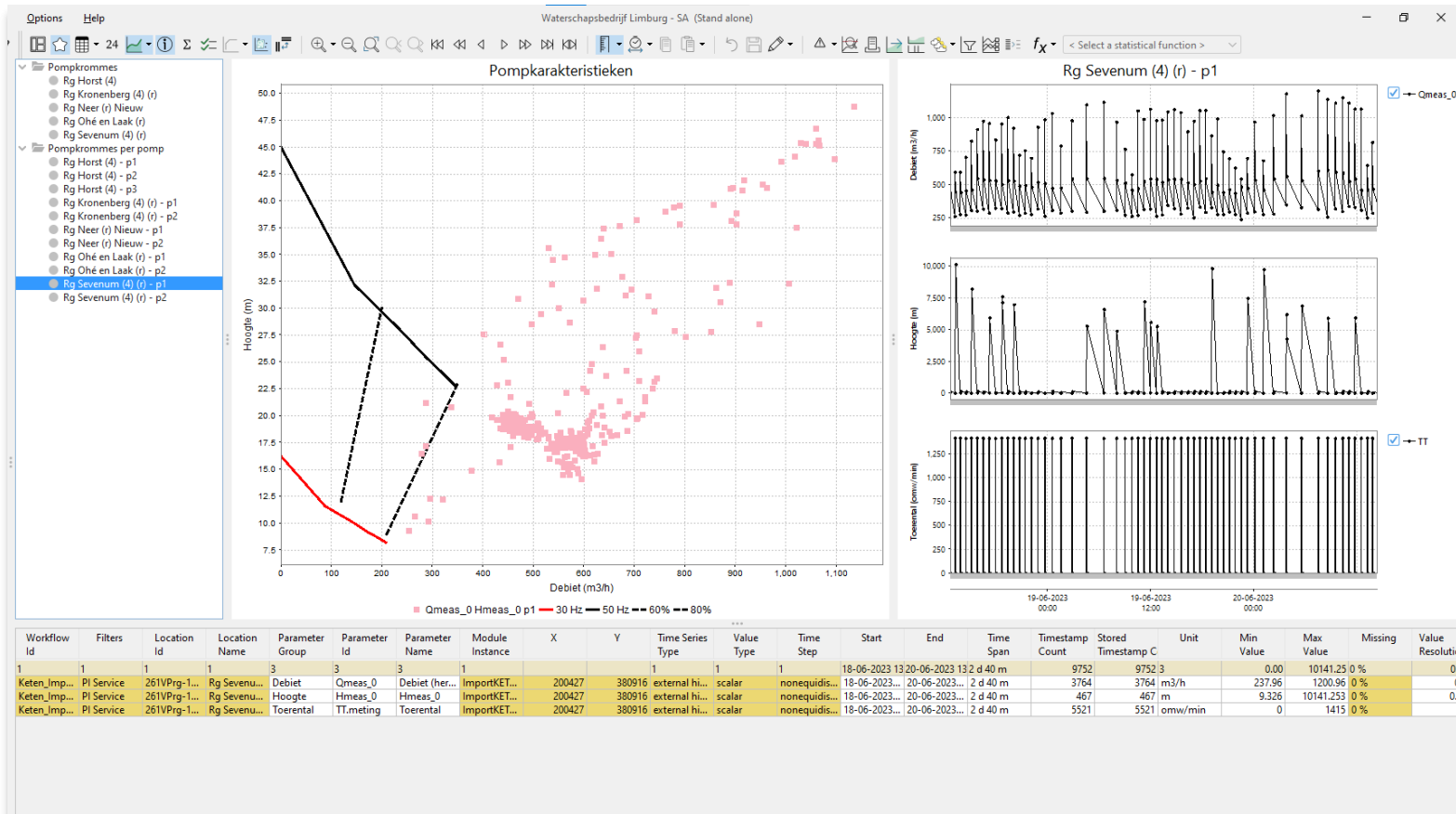
2023.02 Extensions (InteractionScatterPlot)





Timeseries Display

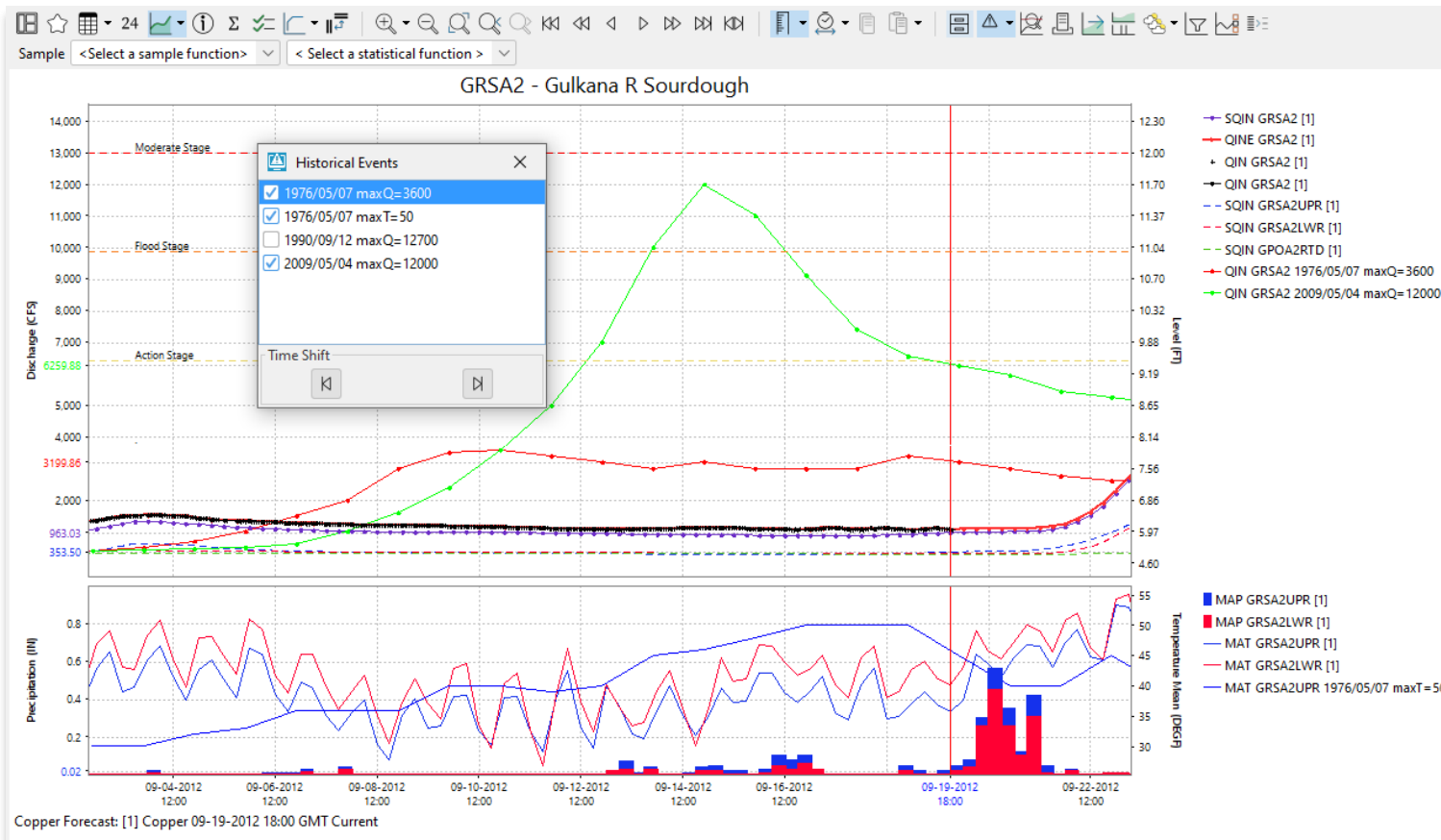
2023.02 Extensions (InteractionScatterPlot)





Timeseries Display

2023.02 Extensions



- Long Term Scroller shows full period with data (config option)
- Show column indicator in legend

A	B	C	D	E
Gate.perc.opi (-)	Gate.perc.opi (-)	Gate.perc.opi (-)	Gate.perc.opi (-)	Gate.perc.opi (-)
Beam Auto S SENE5544	Braybourne C SENE2854	Eversley Mill 2436TH_G1	Eversley Mill 2436TH_G2	Frog Island Tidal Sluice G1

- A: Gate.perc.open Beam Auto Sluice FD
- B: Gate.perc.open Braybourne Close FD
- C: Gate.perc.open Eversley Mill FD Gate1
- D: Gate.perc.open Eversley Mill FD Gate2
- E: Gate.perc.open Frog Island Tidal Sluice G1



Timeseries Display

2023.02 Extensions (Interval Statistics)

The screenshot shows the 'Interval Statistics' configuration window in the WIS Dommel software. The window title is 'WIS Dommel (Stand alone)'. The main area displays a data table with columns for 'Locatie id', 'Locatie naam', 'Parameter groep', 'Parameter id', 'Parameter naa...', 'Qualifiers', 'Module instantie', 'Locatie starttijd', 'Locatie eindtijd', 'Grootheid', and months from 'jan' to 'okt'. A red box highlights the 'Waarschuwingniveau' (Warning Level) configuration section, which includes options for 'Verberg % regels' (Hide % rules) and 'Verberg waarde regels' (Hide value rules), along with numerical input fields for thresholds.

Interval Statistics Configuration:

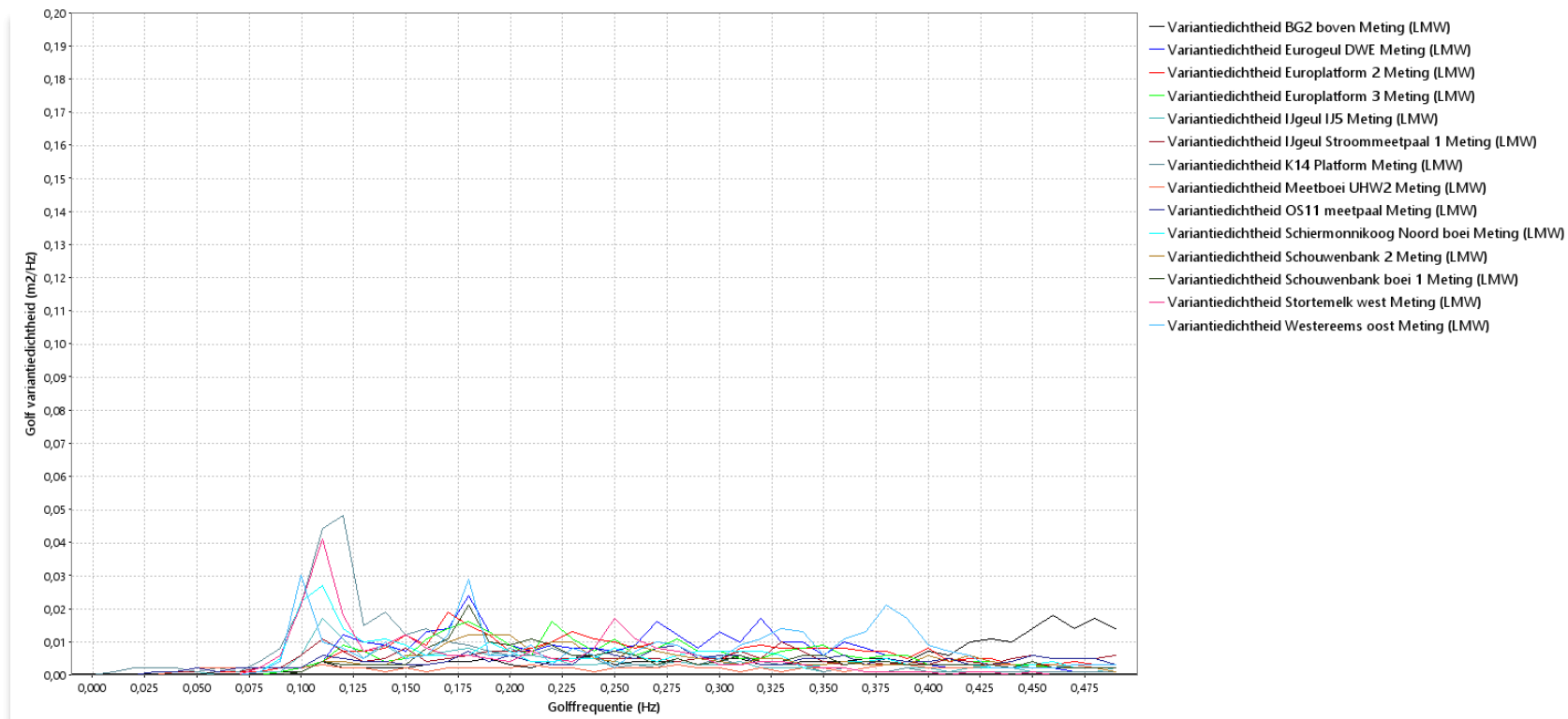
- Interval: maand
- Grootheid:
 - % levendigheid (SR)
 - aantal periodes levendigheid (SR)
 - minimum
 - maximum
 - gemiddelde
 - % boven waarschuwningsniveau
 - % onder waarschuwningsniveau
- Verberg % regels:
 - >= 20
 - <= 80
- Verberg waarde regels:
 - Min 0
 - Max 9
 - Buiten

Data Table (Row 1):

Locatie id	Locatie naam	Parameter groep	Parameter id	Parameter naa...	Qualifiers	Module instantie	Locatie starttijd	Locatie eindtijd	Grootheid	jan	feb	mrt	apr	mei	jun	jul	aug	sep	okt
0017	0017 - Reg...	Debiet	Q.meting	Gemeten d...		ImportTMX			aantal waa...	22320	20448	22320	21600	22320	21600	22320	23761	21600	22320

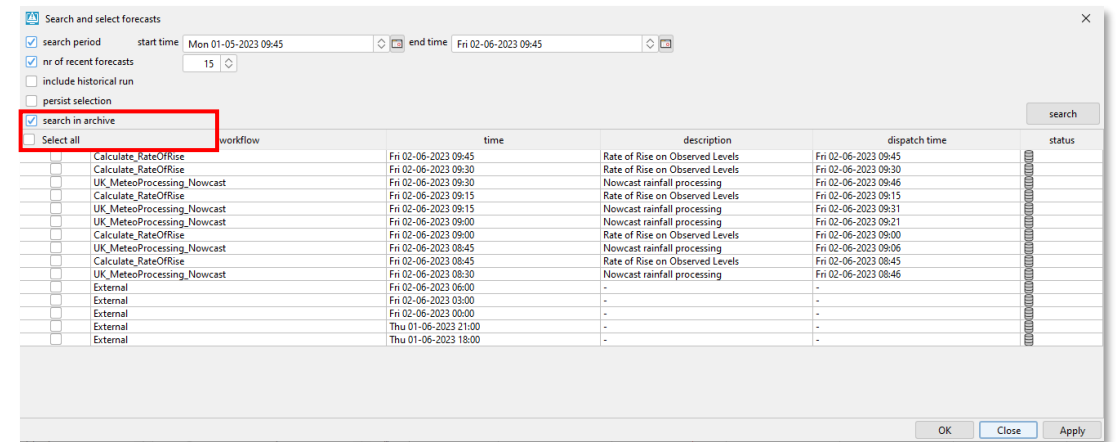
New Imports 2023.02 & 2024.01

- Spectra data from LMW database using SIP protocol
- Dutch groundwater monitoring data from BRO (Bureau Registratie Ondergrond) now supports the import of specific data quality 'flags'
- Support generalCSV import from ZIP file (at serverURL)



Open Archive

- Open Archive vision document (end of 2023)
 - List of prioritized improvements
 - Improved design ‘internal’ storage solution (for the different data types) enabling data science
 - Open Archive and Delft-FEWS client-server system dependencies & interactions



Improvements

- Performance improvements for seamless integration
- Immediate harvester when archived data changes (additions, changes, deletions)
- Scheduled harvester not necessary anymore
- External forecast data and model states can be retrieved when using the Open Archive in workflows
- OpenID connect implementation (security)

Outlook 2024.02

- Extension of new What-if Editor functionality
- Improvements to the Open Archive
- New page in Web-OC to download data
- cross sections from 3D data via FEWS Webservice
- Schedule tasks in energy saving mode?

Delft-FEWS



2024.02

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)



Deltares