

Deltares



Delft-FEWS Product Management Update

Regionales Delft-FEWS Anwendertreffen 2026, LANUK Duisburg (D)

Delft-FEWS PMT – Feb 2026

Overview

1. Welcome & introduction
2. New in 2026.01
3. Other software improvements & roadmap 2026
4. Community events & outreach
5. Organisational aspects

Delft-FEWS 2026.01 Benchmarks



± **100** new features



± **80** bugs reported and fixed



Replaced NOAA GFS importer



Improved **certificate handling**



Timeslider in Spatial Display
scaling option for **low values**



Web OC: 1.4.0 official release – Hydrotec collaboration



Moved to **SonarQube Cloud**



Many updates to the **WebServices**



First steps in **Open archive** database solution

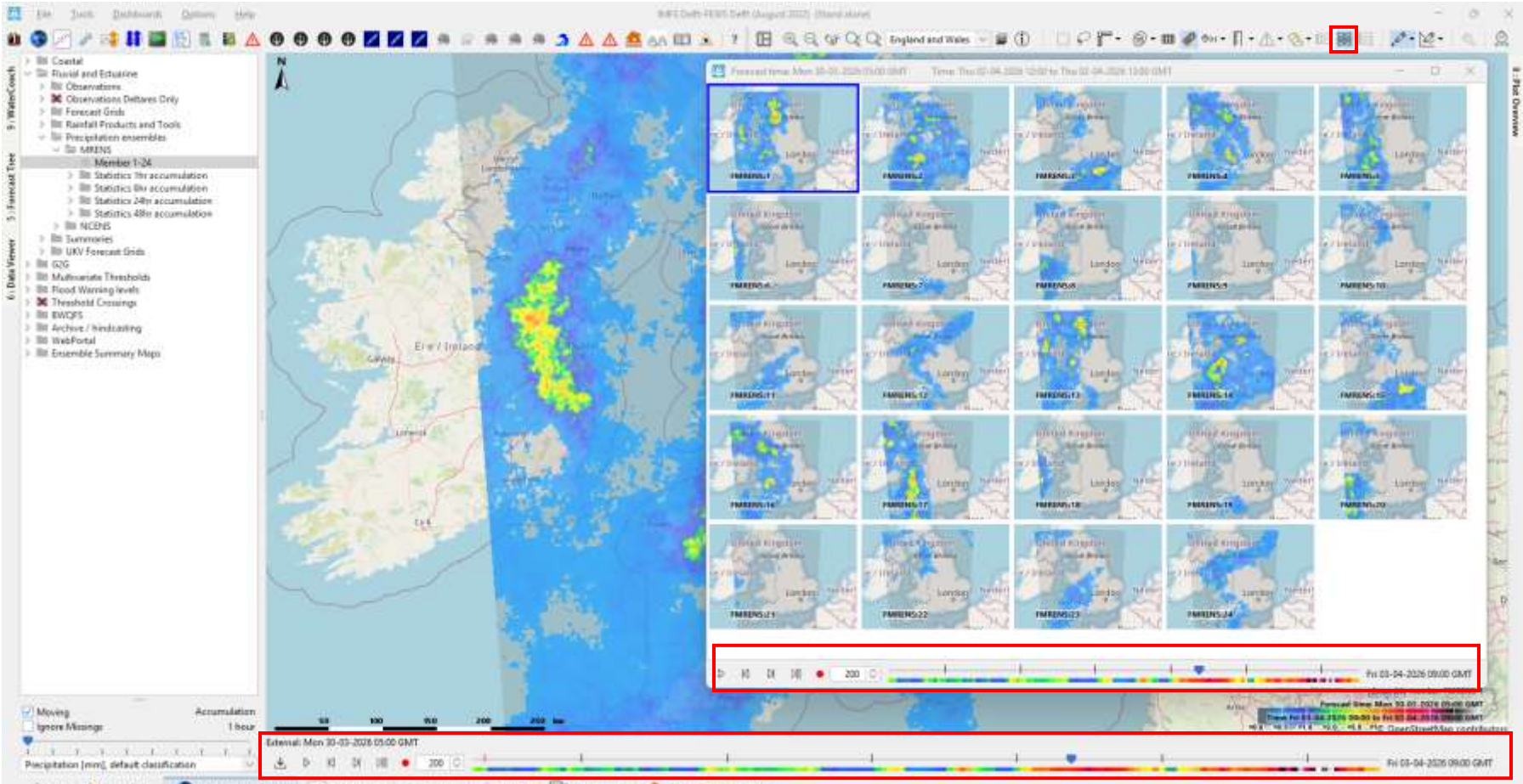


Configurable **button visibility** in TimeSeriesDisplay



Improvements to Spatial Display Ensemble Thumbnails

Time slider added to thumbnail display. Selecting ensemble members and navigating through time in thumbnail display and synchronised with Spatial Display

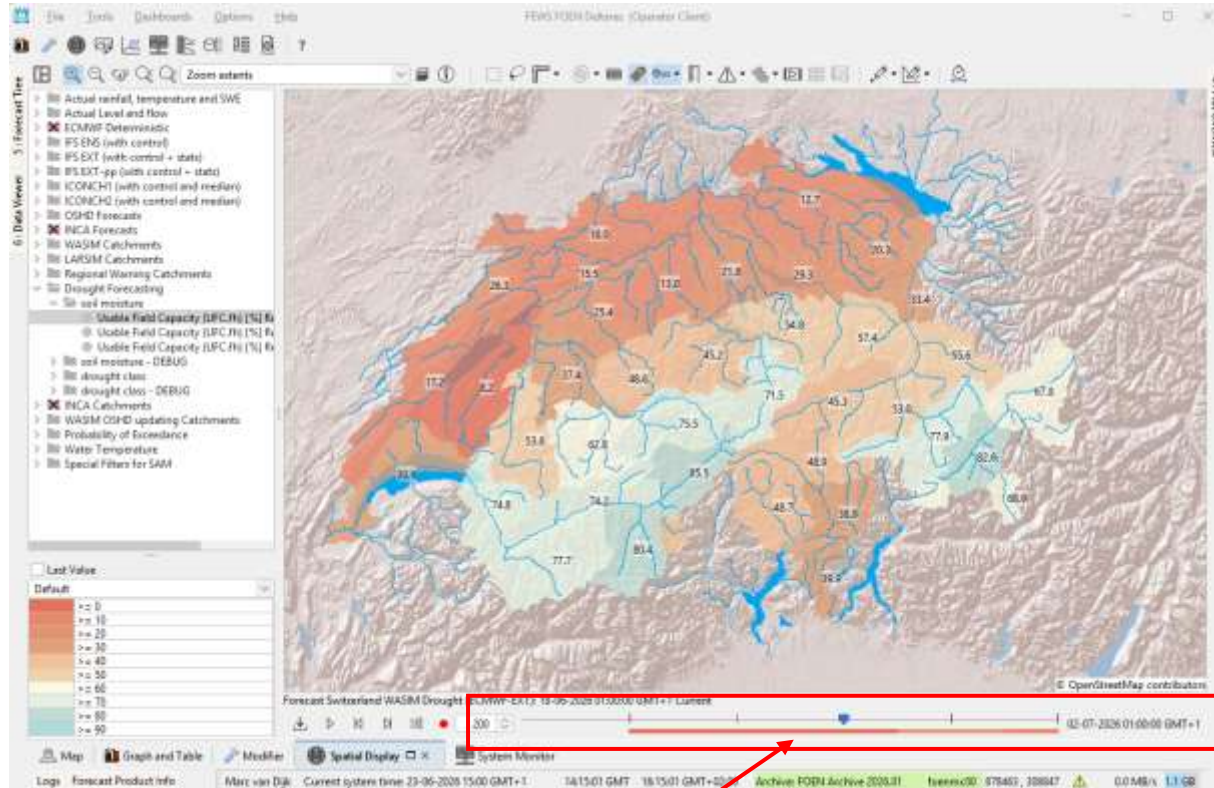


No configuration needed



Improvements to Spatial Display Legends

For some variables, like for drought, the lower values are more severe than the higher values. In this case it would be nice to be able to have the option to configure the time slider bar colour coding to be based on minimum values.



```

<gridPlot id="WASIM_Drought_ECMWF_EXT_UFC_WarnReg_10"
  <timeSeriesSet>
    <moduleInstanceId>WASIM_Statistics_ECMWF_EXT_Swiss
    <valueType>scalar</valueType>
    <parameterId>UFC.fn</parameterId>
    <qualifierId>10</qualifierId>
    <locationSetId>Regional_Warnings_All</locationSetId>
    <timeSeriesType>simulated forecasting</timeSeriesType>
    <timeStep id="week_block"/>
    <readWriteMode>read complete forecast</readWriteMode>
  </timeSeriesSet>
  <timeSliderColor>minimum</timeSliderColor>
</gridPlot>

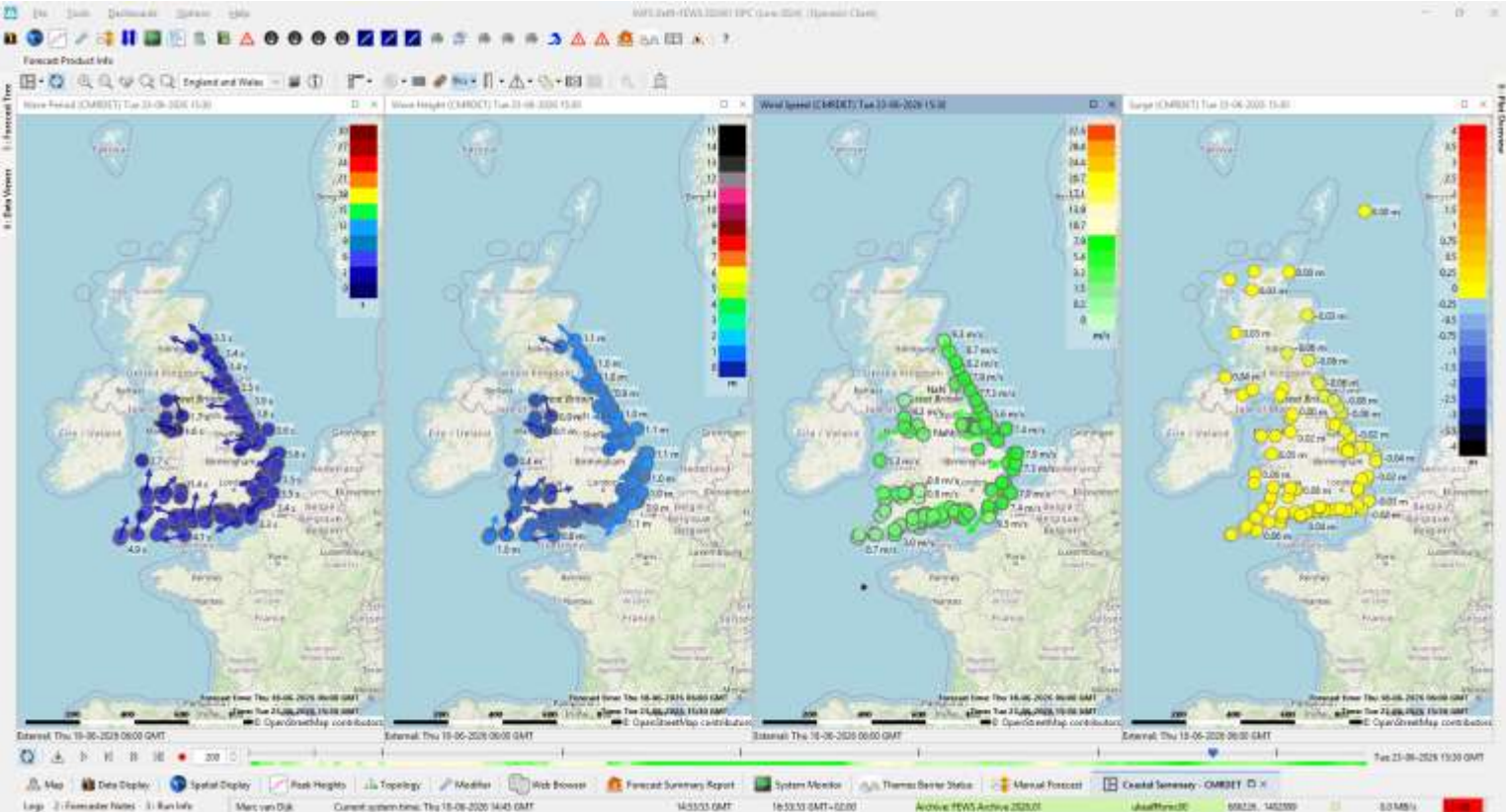
```

Slider colour are based on the minimum value per timestep instead of maximum value



Improvements to Spatial Display Legends

The bar legends (classbreaks) that can be placed on the map have been improved.
Legends can be placed on the right (default), top, bottom or left of the display
The same bar legends are also used on the Dashboards



```

<barLegend>
  <position>right</position>
  <width>40</width>
  <length>200</length>
  <labelsInside>>false</labelsInside>
  <labelsColor>black</labelsColor>
  <labelsBackgroundColor>white</labelsBackgroundColor>
  <labelsBackgroundOpacityPercentage>30</labelsBackgroundOpacityPercentage>
  <colorSmoothingEnabled>>false</colorSmoothingEnabled>
  <logarithmic>>false</logarithmic>
</barLegend>

```

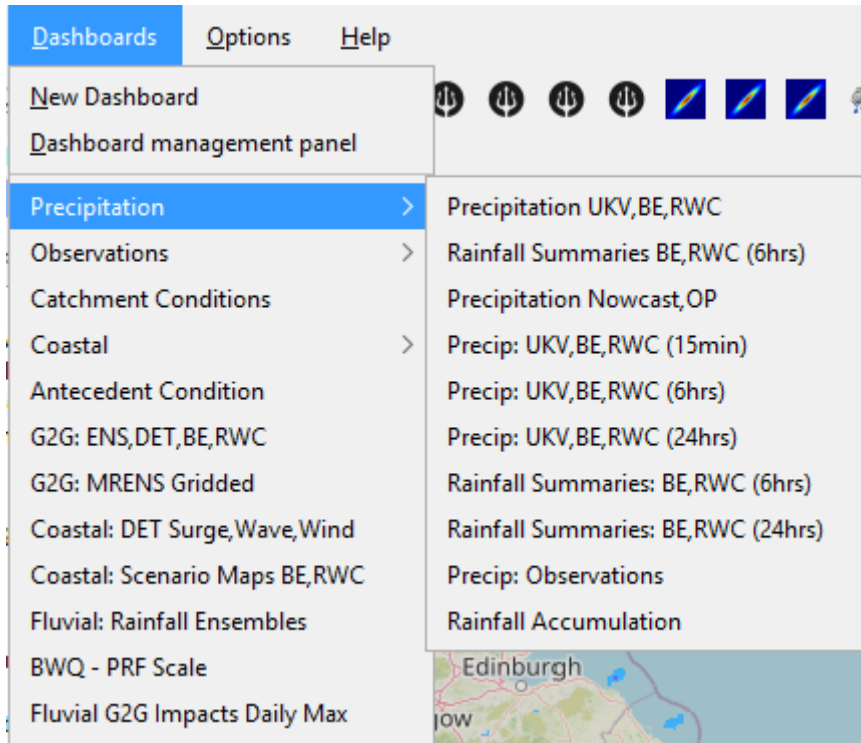


Improvements to Dashboards

Dashboards in the Stand Alone or Operator Client can be organised in folders

The Dashboard.ini file can be edited and dashboards organised in folders.

Folders can be multiple layers deep



```
dashboards.ini
1 ;INI File: C:\FEWS_Systemen\FEWS_201802_EA\FFFS_SA\dashboards.ini
2 [Dashboard_1]
3 name=Precipitation/Precipitation UKV, BE, RWC
4 bounds_x=2
5 bounds_y=4
6 bounds_width=1485
7 bounds_height=631
8 synchTimes=true
```

To add a folder, use the "/" character in the name. It is possible to have multiple levels of folders by adding another "/" character in the name "Level1/Level2/DashboardName"



Customizable toolbars

The screenshot displays the Deltaware software interface. At the top, a toolbar is highlighted with a red box, containing various icons and a dropdown menu labeled "Select a statistical function". Below this, the "Explorer Options" dialog box is open, with its "Tool Bars" tab selected. This dialog box is also highlighted with a red box and contains several checkboxes for customizing the interface, including "shortcuts", "table", "chart", "time series lister", "time series information panel", "rating curve", "splitter", "zoom", "local datum", "display time", "historical analysis", "run", "save", "graphical edit", "historical events", "seamless integration", "graph", "scroller", "hide empty time series", and "time series visibility".

The background shows a data viewer with a tree view on the left listing various catchments, a central chart titled "4 Mile Bar" showing rainfall data, and a bottom status bar with system information.



Hide columns in timeSeriesTableDisplay

Forecast Product Info

Forecast selection

Process Rainfall Nowcast Ensemble (for catchments)	T0 =	dispatchTime =
Process Rainfall Nowcast Ensemble (for catchments)	Wed Jun 24 10:30:00 GMT 2026	Wed Jun 24 10:55:04 GMT 2026
Process Rainfall Nowcast Ensemble (for catchments)	Wed Jun 24 10:15:00 GMT 2026	Wed Jun 24 10:40:12 GMT 2026
Process Rainfall Nowcast Ensemble (for catchments)	Wed Jun 24 10:00:00 GMT 2026	Wed Jun 24 10:25:08 GMT 2026
Process Rainfall Nowcast Ensemble (for catchments)	Wed Jun 24 09:45:00 GMT 2026	Wed Jun 24 10:10:05 GMT 2026
Process Rainfall Nowcast Ensemble (for catchments)	Wed Jun 24 09:30:00 GMT 2026	Wed Jun 24 09:55:13 GMT 2026

1 hour | 3 hour | 6 hour

	24/06 11:30	24/06 11:45	24/06 12:00	24/06 12:15	24/06 12:30	24/06 12:45	24/06 13:00	24/06 13:15	24/06 13:30	24/06 13:45	24/06 14:00	24/06 14:15	24/06 14:30	
	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max
DCS Cornwall														
Boscastle_RRC_49101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cawsand_RRC_47104	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hayle_RRC_48109	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Horrabridge_RRC_47101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lostwithiel_RRC_48110	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mevagissey_RRC_48101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Par_StBlazey_RRC_48107	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penryn_RRC_48102	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penzance_RRC_48103	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Perranporth_RRC_48104	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plympton_RRC_47102	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polperro_RRC_49102	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Port Isaac_RRC_49104	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Portreath_RRC_48105	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Redruth_RRC_48108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St Ives_RRC_48106	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tavistock_RRC_47103	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCS Devon														
WSX Blandford														
WSX Bristol Avon														
WSX Somerset														

Show / hide columns

Expand all

Collapse all

Mean

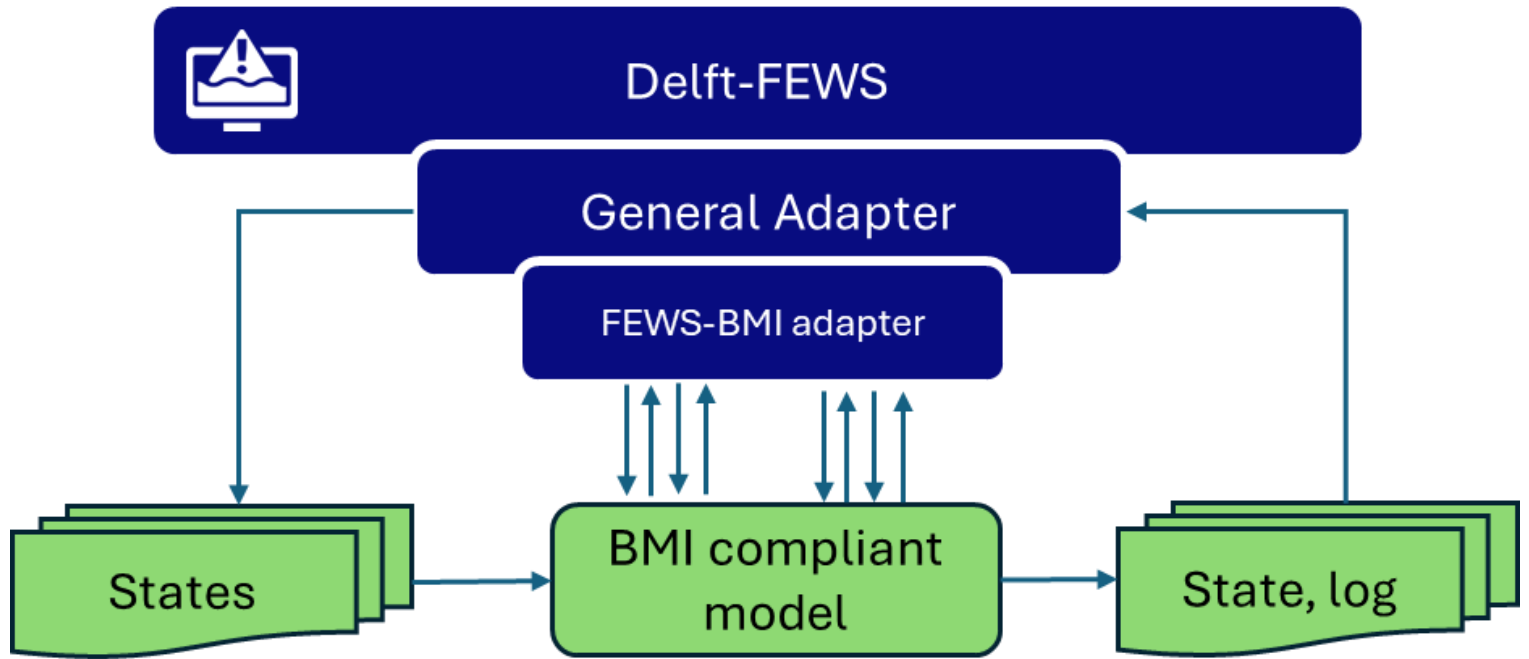
Max

Ok

- Hide columns
- Expand all
- Collapse all

BMI compliancy

- Basic Model Interface is a model interface developed by the [Community Surface Dynamics Modeling System](#)
- Consists of standard control and query functions
- Easier to couple with other software packages
- Supported model languages:
 - Java
 - C
 - Fortran
 - Python





Webservices

New endpoints for PI REST webservices:

- Endpoint to get certain statistics from a grid

min, max, sum, average

- Add taskRunId to following endpoints:

[get-/timeseries/grid/maxvalues](#)

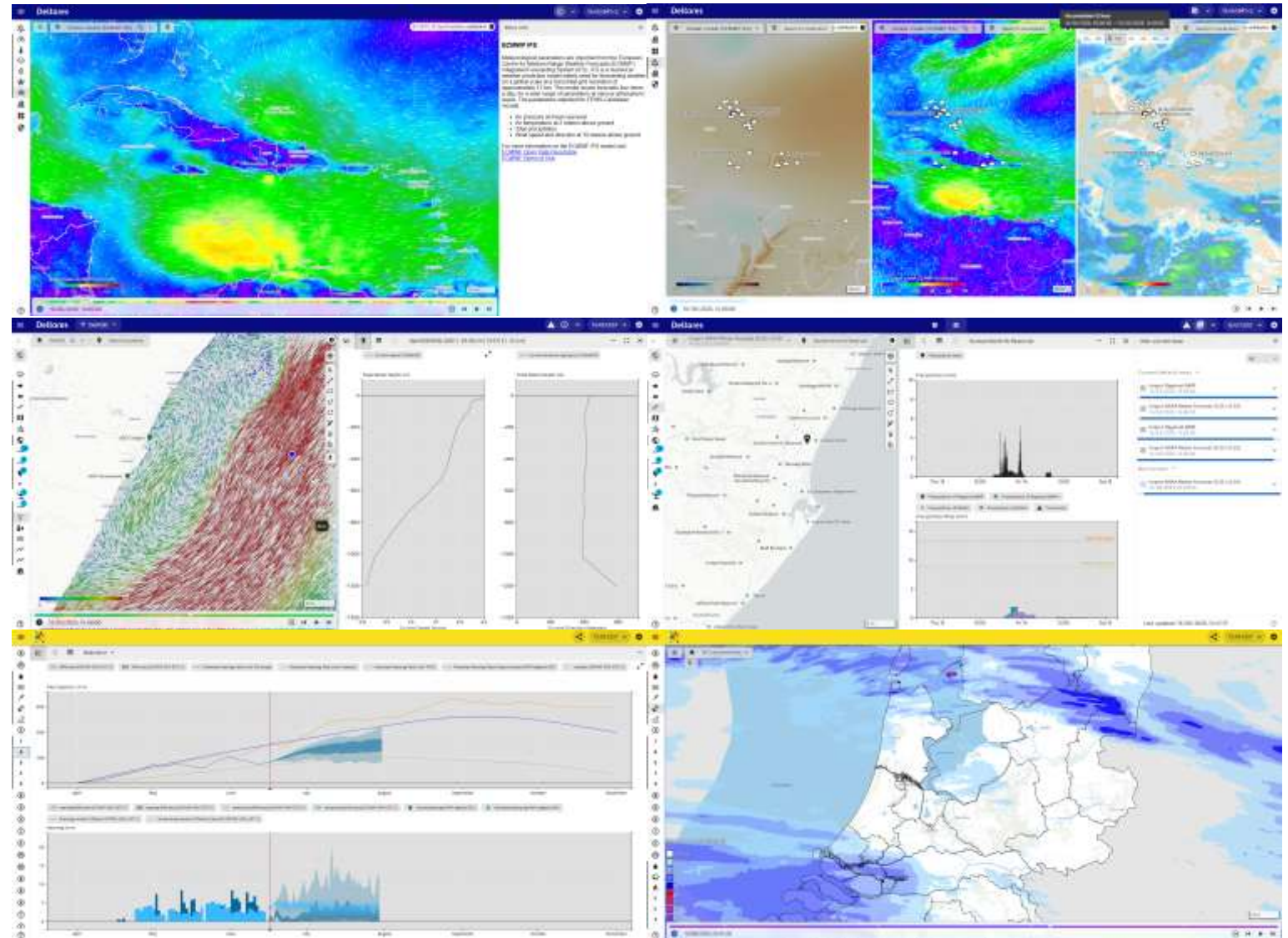
[get-/timeseries/grid/actions](#)

- Endpoint archive/products has been extended with search for products within a certain creation time range
- Endpoint get whatifscenarios is extended with the property name
- Basic Authentication based on users and access keys from FEWS Database



Web-OC release 1.4.0

- Side panel
 - Task overview
 - Import status
 - Non-current data
 - Run Tasks
 - More info
- Thresholds
- Logging
- Dashboards
- Static layers
- Data analysis & aggregation
- Reports



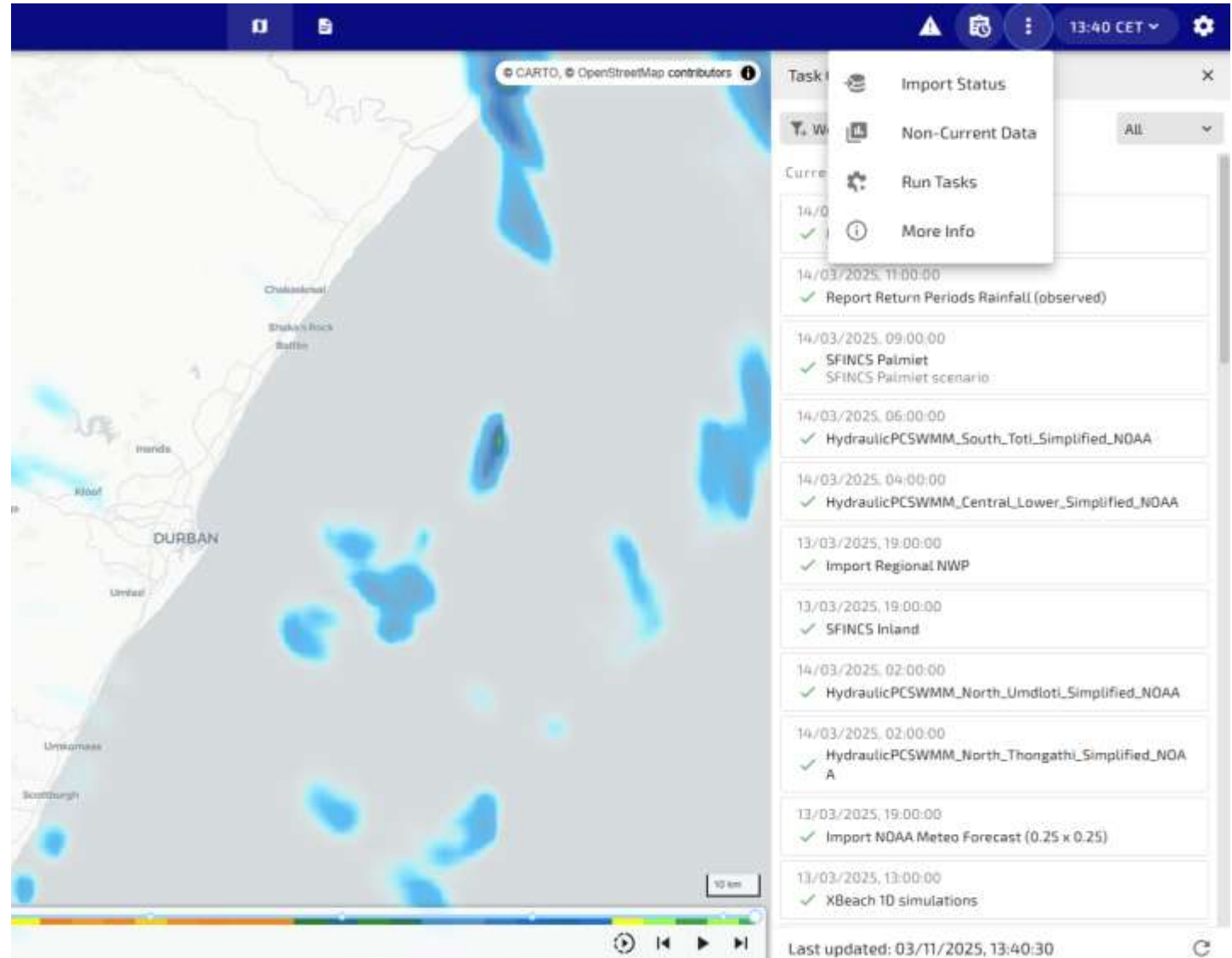
Web-OC Side Panel

Side panel

- Task overview
- Import status
- Non-current data
- Run Tasks
- More info

- Configured in WebOperatorClient.xml
- Optional configuration of permissions

- Documentation:
<https://deltares.github.io/fews-web-oc/configuration/#web-oc-side-panel>





Task overview

- Overview of system tasks
- Filter by workflow & status
- Expected completion time when `<updateModuleRunTimesOnCompletion> = true` in `ModuleInstanceDescriptors.xml`

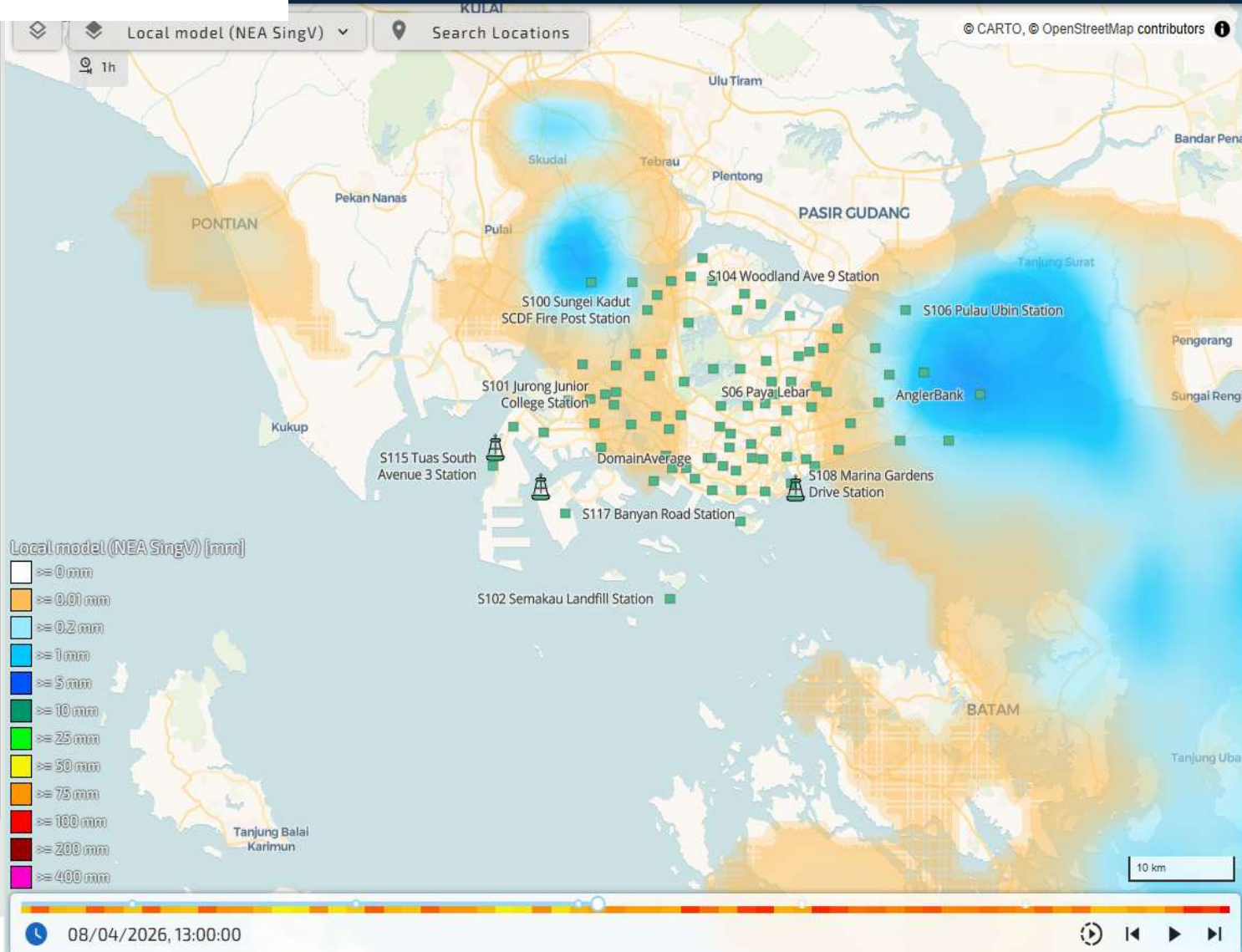
The screenshot shows a software interface with a map of the Persian Gulf region and a task overview panel on the right. The map displays a complex flow field with color-coded vectors. The task overview panel lists various workflows with their completion status and times.

Workflow	Status	Time
RSM 2D FLOW HC + FC	✓	03/11/2025, 07:00:00
AGM 3D FLOW-WAQ HC + FC	✓	03/11/2025, 07:00:00
AGM 2D FLOW HC + FC	✓	03/11/2025, 07:00:00
Import NOAA Global Wave MG Forecast (0.16 x 0.16)	✓	03/11/2025, 07:00:00
Import NOAA Global Wave Forecast (0.16 x 0.16)	✓	03/11/2025, 07:00:00
Import NOAA Meteo Forecast (3D, 0.25 x 0.25)	✓	03/11/2025, 07:00:00
Import NOAA Meteo Forecast (2D, 0.25 x 0.25)	✓	03/11/2025, 07:00:00
Import SEVIRI (Hourly)	✓	03/11/2025, 09:59:00
Import ECMWF Meteo Forecast (3D, 0.25 x 0.25)	✓	03/11/2025, 01:00:00
Import ECMWF Wave Forecast (2D, 0.25 x 0.25)	✓	03/11/2025, 01:00:00
Import ECMWF Meteo Forecast (2D, 0.25 x 0.25)	✓	03/11/2025, 01:00:00
		01/11/2025, 13:00:00

Task Overview
 Workflows Status Last day
 Current
 03/11/2025, 07:00:00
 ✓ RSM 2D FLOW HC + FC
 03/11/2025, 07:00:00
 ✓ AGM 3D FLOW-WAQ HC + FC
 03/11/2025, 07:00:00
 ✓ AGM 2D FLOW HC + FC
 03/11/2025, 07:00:00
 ✓ Import NOAA Global Wave MG Forecast (0.16 x 0.16)
 03/11/2025, 07:00:00
 ✓ Import NOAA Global Wave Forecast (0.16 x 0.16)
 03/11/2025, 07:00:00
 ✓ Import NOAA Meteo Forecast (3D, 0.25 x 0.25)
 03/11/2025, 07:00:00
 ✓ Import NOAA Meteo Forecast (2D, 0.25 x 0.25)
 03/11/2025, 09:59:00
 ✓ Import SEVIRI (Hourly)
 03/11/2025, 01:00:00
 ✓ Import ECMWF Meteo Forecast (3D, 0.25 x 0.25)
 03/11/2025, 01:00:00
 ✓ Import ECMWF Wave Forecast (2D, 0.25 x 0.25)
 03/11/2025, 01:00:00
 ✓ Import ECMWF Meteo Forecast (2D, 0.25 x 0.25)
 01/11/2025, 13:00:00
 Last updated: 03/11/2025, 13:54:59

Task progress status

- ☰ Meteo
- ☰ Rainfall
- ☰ Wind
- ☰ Pressure
- ☰ Air temperature
- ☰ Relative humidity
- ☰ Cloud cover
- ☰ Short-wave radiation
- ☰ Net short-wave radiation
- ☰ Long-wave radiation
- ☰ Net long-wave radiation
- ☰ Sensible heat flux
- ☰ Latent heat flux
- ☰ Inland
- ☰ Seawater
- ☰ Water level
- ☰ Water depth
- ☰ Currents
- ☰ Temperature
- ☰ Salinity
- ☰ Water Quality
- ☰ Scenarios
- ☰ Desalination Plants
- ☰ Analysis Display



Task overview

Workflows Status Last day

Current

- 08/04/2026, 02:00:00
✓ Report Desalination Plants
- 08/04/2026, 11:00:00
✓ Wflow

Non Current

- 08/04/2026, 02:00:00
⚙ SRM-FM
- User Task run ID
No user sqmsdevmc00:000016517
- T0
- 08/04/2026, 02:00:00
- Output time span 2d 12h
07/04/2026, 14:00:00 → 10/04/2026, 02:00:00
- Task duration –
08/04/2026, 11:15:14 → –
- Expected completion time
08/04/2026, 20:04:43

- 07/04/2026, 20:00:00
❌ SRM-FM
- 07/04/2026, 14:00:00
❌ SRM-FM
- 07/04/2026, 14:00:00
❌ SRM-FM

Last updated: 08/04/2026, 13:06:43



Import status

- Similar to Desktop OC and Admin Interface
- No extra config required

The screenshot shows a web interface for data management. The main area is a map of the Persian Gulf region, including Kuwait, Bahrain, Qatar, United Arab Emirates, Oman, and Yemen. A data overlay is visible on the map, showing a complex pattern of colored lines (blue, green, yellow, red) representing various parameters. A scale bar indicates 200 km. The top right corner shows the time 13:53 CET and a question mark icon.

The 'Import Status' panel on the right lists the following data imports:

Last Import Time	Source	Status
03/11/2025, 13:45:57	0_AGM3D	Success
03/11/2025, 08:22:53	0_RSM3D	Success
03/11/2025, 13:02:41	1_ADOOS	Success
02/11/2025, 14:08:38	1_CMEMS_2D	Failed (1)
03/11/2025, 02:09:09	1_CMEMS_2D_Waves	Success
30/10/2025, 14:01:37	1_CMEMS_3D_BIO	Failed (1)
02/11/2025, 14:03:10	1_CMEMS_3D_Currents_u	Failed (1)
02/11/2025, 14:04:14	1_CMEMS_3D_Currents_v	Failed (1)
02/11/2025, 14:02:02	1_CMEMS_3D_Salinity	Failed (1)
02/11/2025, 14:05:21	1_CMEMS_3D_Temperature	Failed (1)
02/11/2025, 14:00:52	1_CMEMS_3D_Waterlevel	Failed (1)
Last import time		Source
03/11/2025, 10:15:43	1_ECMWF_Meteo	
Directory		https://ecmwf-forecasts.s3.eu-central-1.amazonaws.com
Last file		2025-11-03 00:00:00:000
Files imported	1	Files failed
03/11/2025, 10:03:26	1_ECMWF_Waves	
10/12/2023, 07:00:17	1_Ephemerals	
03/11/2025, 13:01:42	1_GFS	



Non-current data

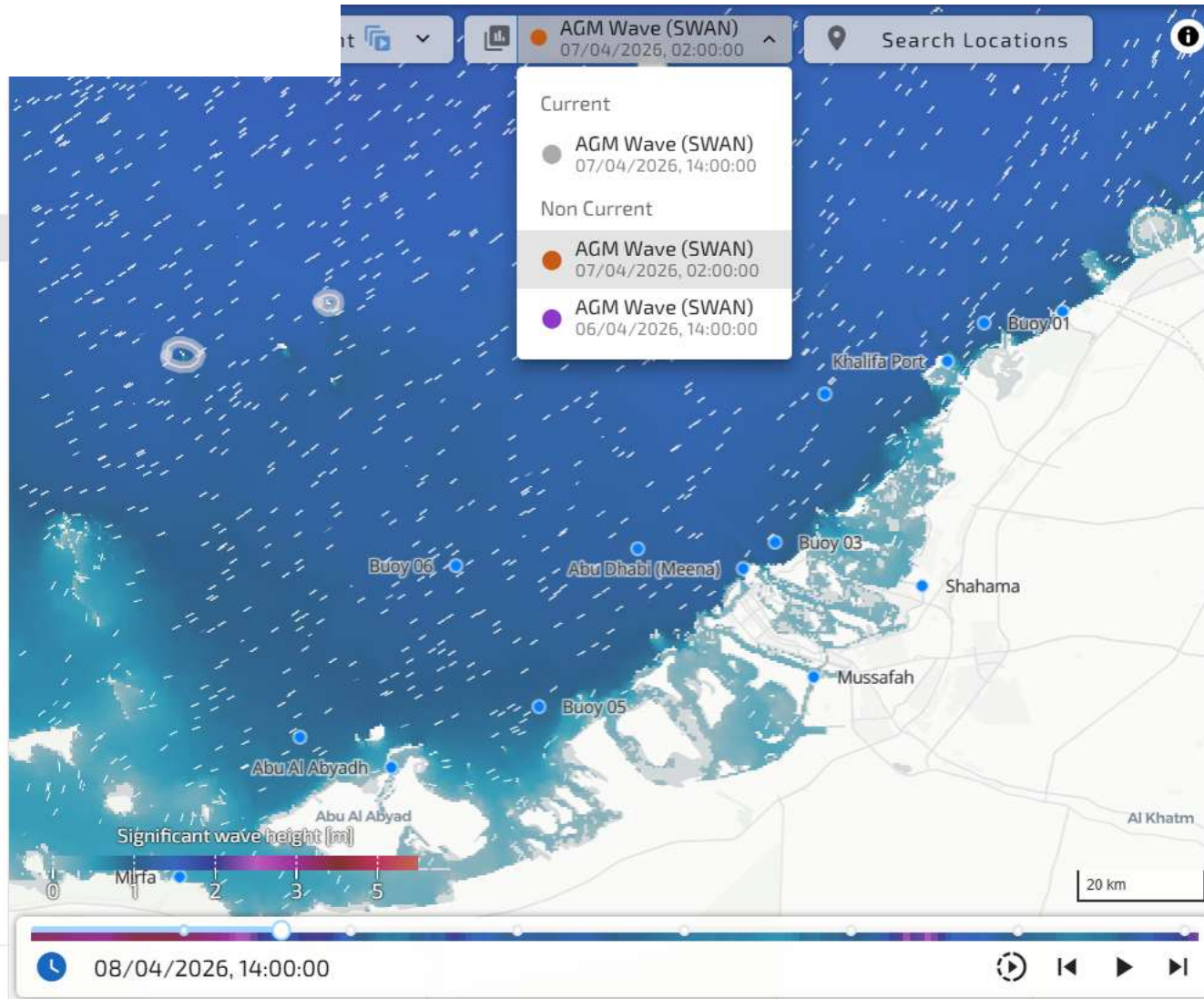
- By default current forecast data will be shown in Web OC
- Add non-current forecast data to charts
- Non-current spatial data

The screenshot displays a web application interface for monitoring precipitation data. On the left, a map shows the location of 'Bluff Res No.3' in Durban, South Africa, with various landmarks and a 5 km scale bar. The main area contains two charts: 'Precipitation (mm)' and 'Precipitation Rate (mm)'. The top chart shows observed precipitation (black bars) and forecast data from Regional NWP (red and green bars) and NOAA (purple bars) for the period from Thursday 13th to Saturday 15th. The bottom chart shows the precipitation rate for the same period. On the right, a 'Non-Current Data' panel allows users to manage data sources. It includes a list of data sources with checkboxes and dropdown menus for selection. The 'Current (default view)' section shows four entries for 'Import Regional NWP' and 'Import NOAA Meteo Forecast (0.25 x 0.25)'. The 'Non Current' section shows one entry for 'Import NOAA Meteo Forecast (0.25 x 0.25)'. The interface also shows a system clock at 14:04 CET and a 'Last updated' timestamp of 03/11/2025, 14:04:18.



Non-current data

- Water level
- Currents
- Waves
- Significant wave height**
- Mean wave period
- Meteo
- Coastal Inundation
- Reports



Non-current data

Last week

Current (default view)

- AGM Wave (SWAN) 07/04/2026, 14:00:00

Non Current

- AGM Wave (SWAN) 08/04/2026, 02:00:00
- AGM Wave (SWAN) 07/04/2026, 02:00:00
- AGM Wave (SWAN) 06/04/2026, 14:00:00
- AGM Wave (SWAN) 06/04/2026, 02:00:00
- AGM Wave (SWAN) 05/04/2026, 14:00:00
- AGM Wave (SWAN) 05/04/2026, 02:00:00
- AGM Wave (SWAN)

Last updated: 08/04/2026, 13:05:06



Run tasks

- Submit a task to the Delft-FEWS backend by configuring a `<workflowId>` or `<secondaryWorkflowId>` in `Topology.xml`.
- At the moment only workFlows with a `whatIfTemplateId` can be submitted.
- You have to explicitly allow tasks to run from Web OC by configuring `<runTask enabled="true"/>` in `WebOperatorClient.xml`
- Visualize results using “non-current data panel”
- Approve runs **IN PROGRESS**
- Documentation: <https://deltares.github.io/fews-web-oc/configuration/#web-oc-navigation-using-topology>

The screenshot displays the Delft-FEWS web interface. On the left, a map shows a spill simulation with red arrows indicating the direction and intensity of the spill. The map covers the area around Singapore and Batam, with labels for various locations like 'Kampung Pasir Putih', 'Kampung Mamam', 'Ubin Village', 'Tanjung Pengelih', 'Batu Merah', 'Tanjung Uma', 'Sadai', 'Sambak', 'Pemping', 'Kasu', 'Bulian', 'Sungai Lekop', 'Kibing', 'Mangsang', 'Tanjung Playu', 'Kabil', 'Bulian', 'Muka Kuning', 'Tiban Indah', 'Tiban Baru', 'Baloi Indah', 'Belian', 'Bulian', 'Kabil', 'Mangsang', 'Tanjung Playu', 'Kabil', 'Bulian', 'Muka Kuning', 'Tiban Indah', 'Tiban Baru', 'Baloi Indah', 'Belian', 'Bulian', 'Kabil', 'Mangsang', 'Tanjung Playu', 'Kabil'. A scale bar indicates 5 km. On the right, a 'Run tasks' panel is open, showing configuration for a 'Continuous spill (tracer)'. The configuration includes a coordinate of 1.25000°N 103.79000°E, a spill mass rate of 1.00 g/s, and a time of spill starting on 08/04/2026 at 13:00. A 'SUBMIT' button is visible at the bottom of the panel.



Help / background information

- Node specific information panel

12:02 CEST
⚙️

Information

Water levels and currents

In order to include the dynamics of all relevant nearshore processes along the eThekweni coastline, a regional-scale 3-dimensional ocean model was developed based on the [Delft3D Flexible Mesh](#) hydrodynamic modelling software. This 3D model simulates the complex interactions between tides, winds, and ocean currents. In particular, the latter, in the form of the Agulhas Current, was found to have a dominant role on the currents along eThekweni's coastline. The Agulhas current is a strong western boundary current that flows along the east coast of South Africa.

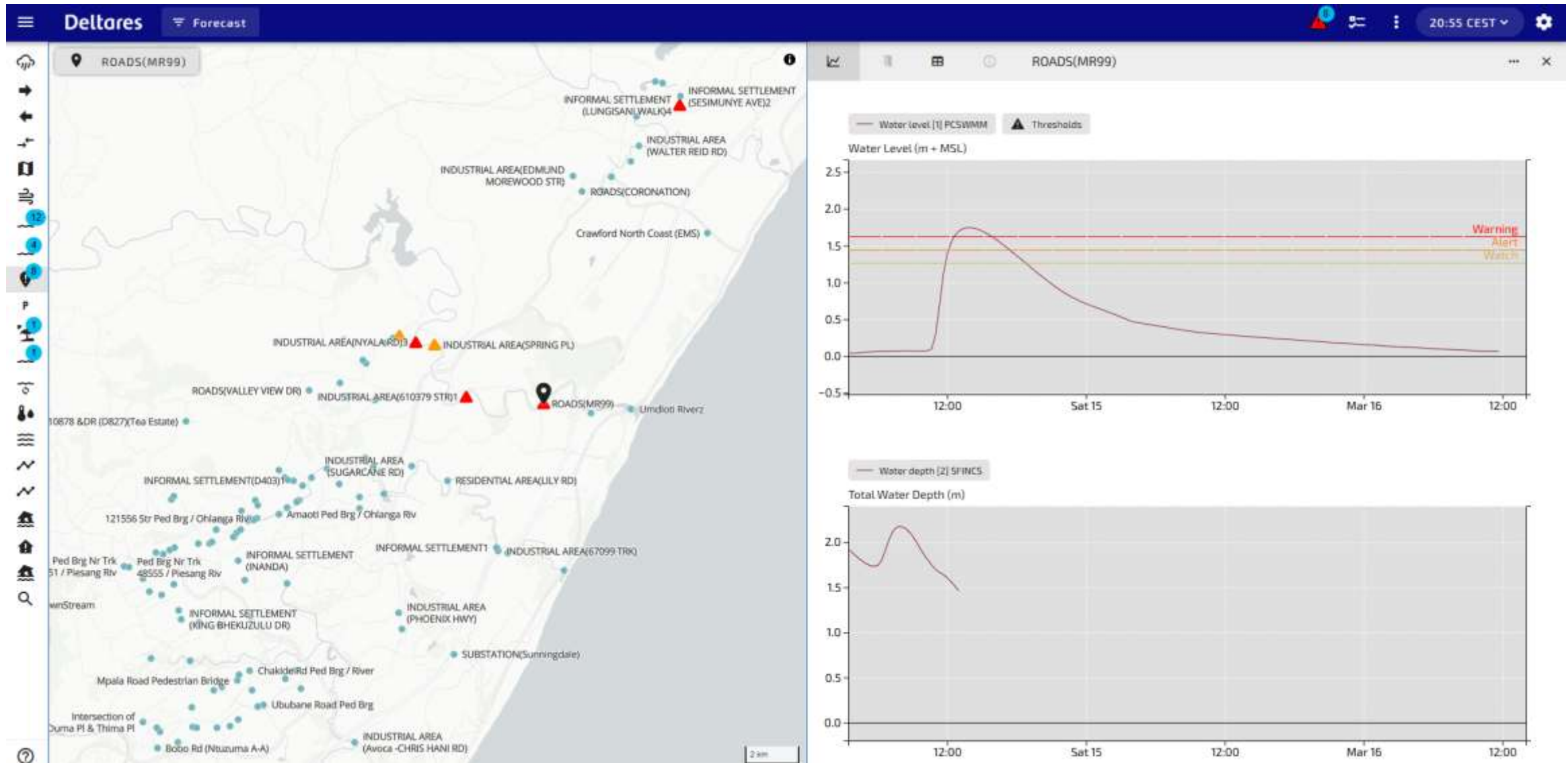
The model is forced by time- and spatial-varying wind, air pressure and various atmospheric data fields (air temperature, humidity, cloudiness and radiation fluxes) from [NOAA GFS](#). The composite heat flux module is applied to compute the heat exchange at the free surface by taking into account the separate effects of solar (short wave) and atmospheric (long wave) radiation, and heat loss due to back radiation, evaporation and convection. The heat losses due to evaporation and convection are functions of the wind speed.

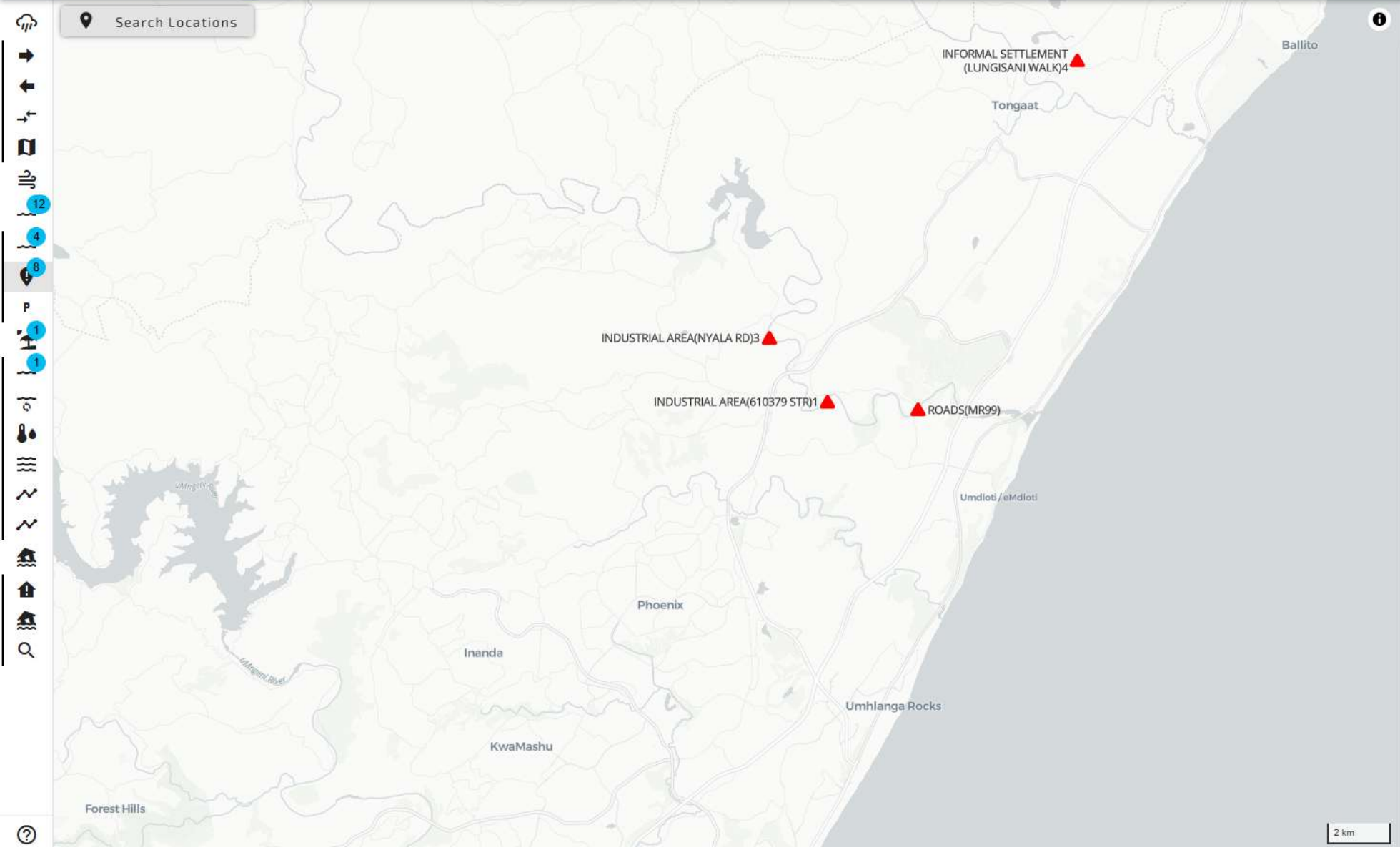
The open boundaries of the model receive forcing from astronomical tide components from the Empirical Ocean Tide model ([EOT20](#)), combined with time- and location-varying non-tidal water level variations, currents, temperature and salinity from the Copernicus Marine Environment Monitoring Service (CMEMS) [Global Ocean Physics Analysis and Forecast System](#). At this stage, the model includes no river discharges.

Computational grid of the regional-scale Delft3D Flexible Mesh model covering eThekweni coastal waters, plotted as an overlay in Google Earth.



Web-OC - Thresholds





Thresholds Overview

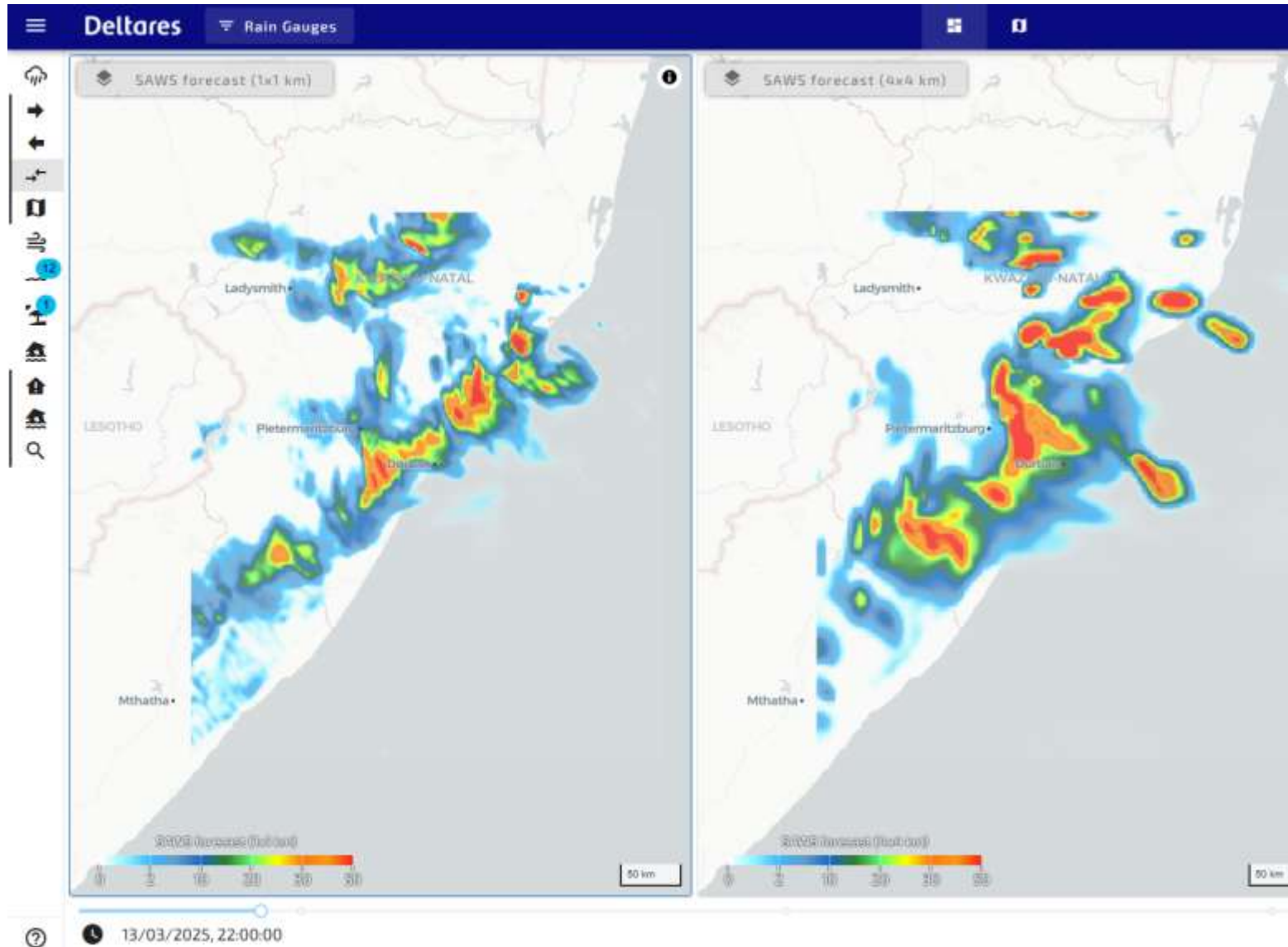
▲ Warning_1 **5**
▲ Alert_1 **3**
▲ Watch_1 **0**

▼ Safe_1 **225**

INFORMAL SETTLEMENT(LUNGISANI... Simulated Water Level	0.198 m + MSL 14 Mar, 14:40
INDUSTRIAL AREA(610379 STR)1 Simulated Water Level	2.635 m + MSL 14 Mar, 12:20
INDUSTRIAL AREA(NYALA RD)3 Simulated Water Level	2.854 m + MSL 14 Mar, 11:20
ROADS(MR99) Simulated Water Level	1.743 m + MSL 14 Mar, 14:00
Ped Brg / Mbokodweni Rv at Nyati Rd Simulated Water Level	1.88 m + MSL 14 Mar, 09:00



Web-OC Dashboards

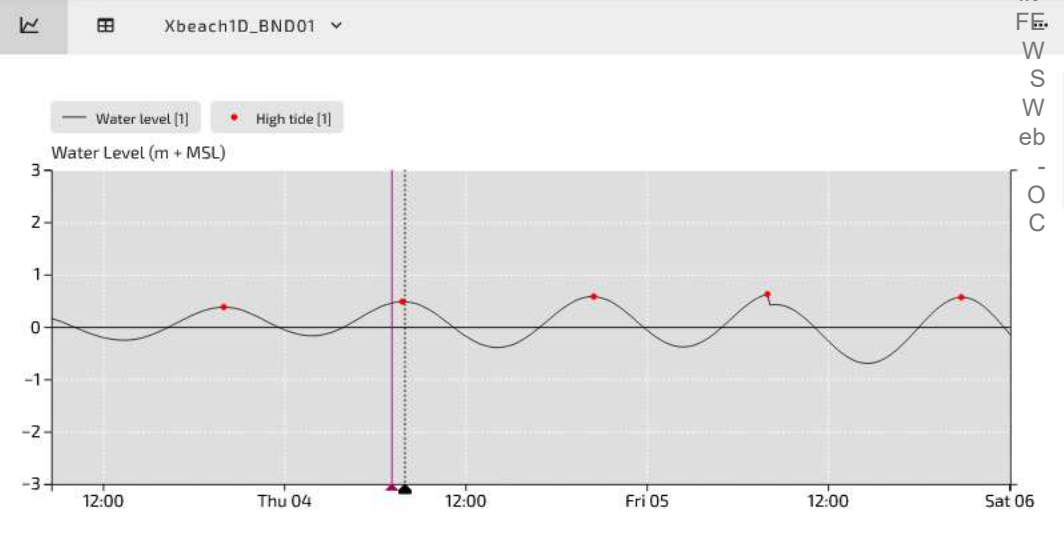
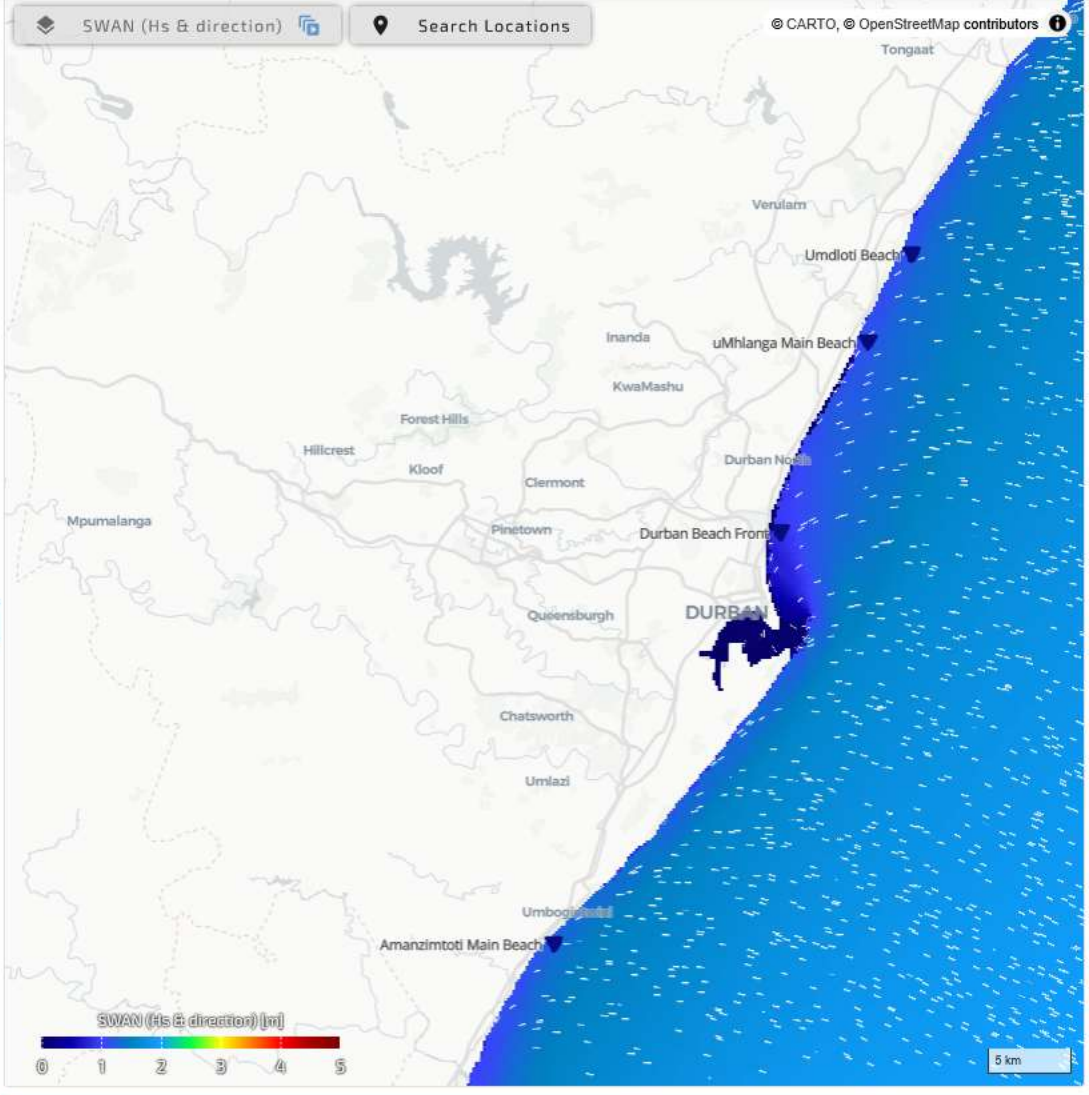


WebOC Dashboards

- The functionality of Web OC essentially consists of a number of components that can be linked to topology nodes.
- Within a Web OC dashboard, several of these components can be displayed together on a single screen.
- Documentation: <https://publicwiki.deltares.nl/spaces/EWSDOC/pages/356779153/38+Web+OC+Dashboards>

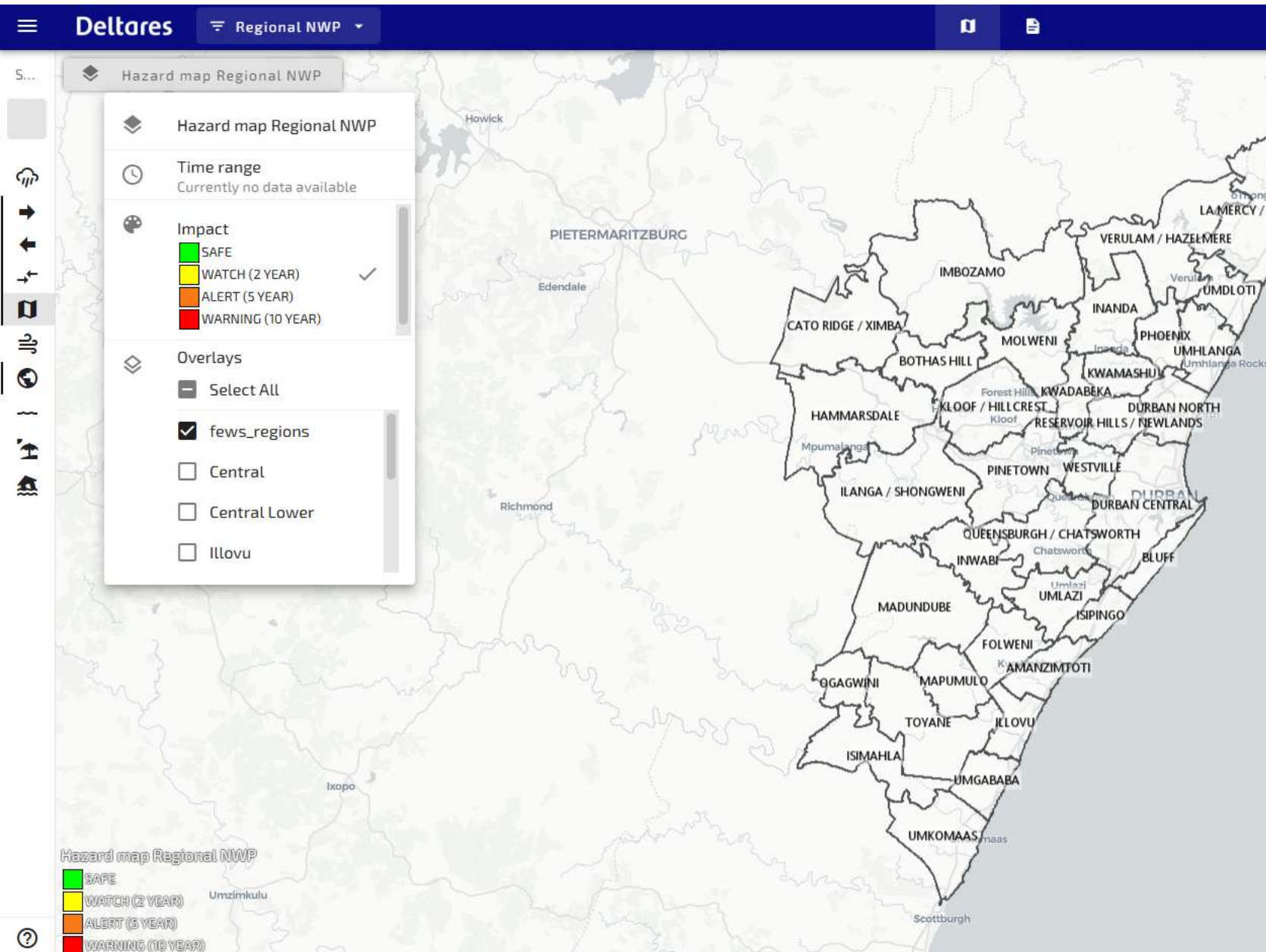


- Rainfall
- Wind
- Rivers
- Coastal processes
 - Water levels
 - Currents
 - Water temperature
 - Waves
 - Particle tracking
- Coastal flooding
 - Flood warning
 - Inundation forecast
 - Flood analysis
- Test
- System Log
- Flood Warning
- Rainfall forecast



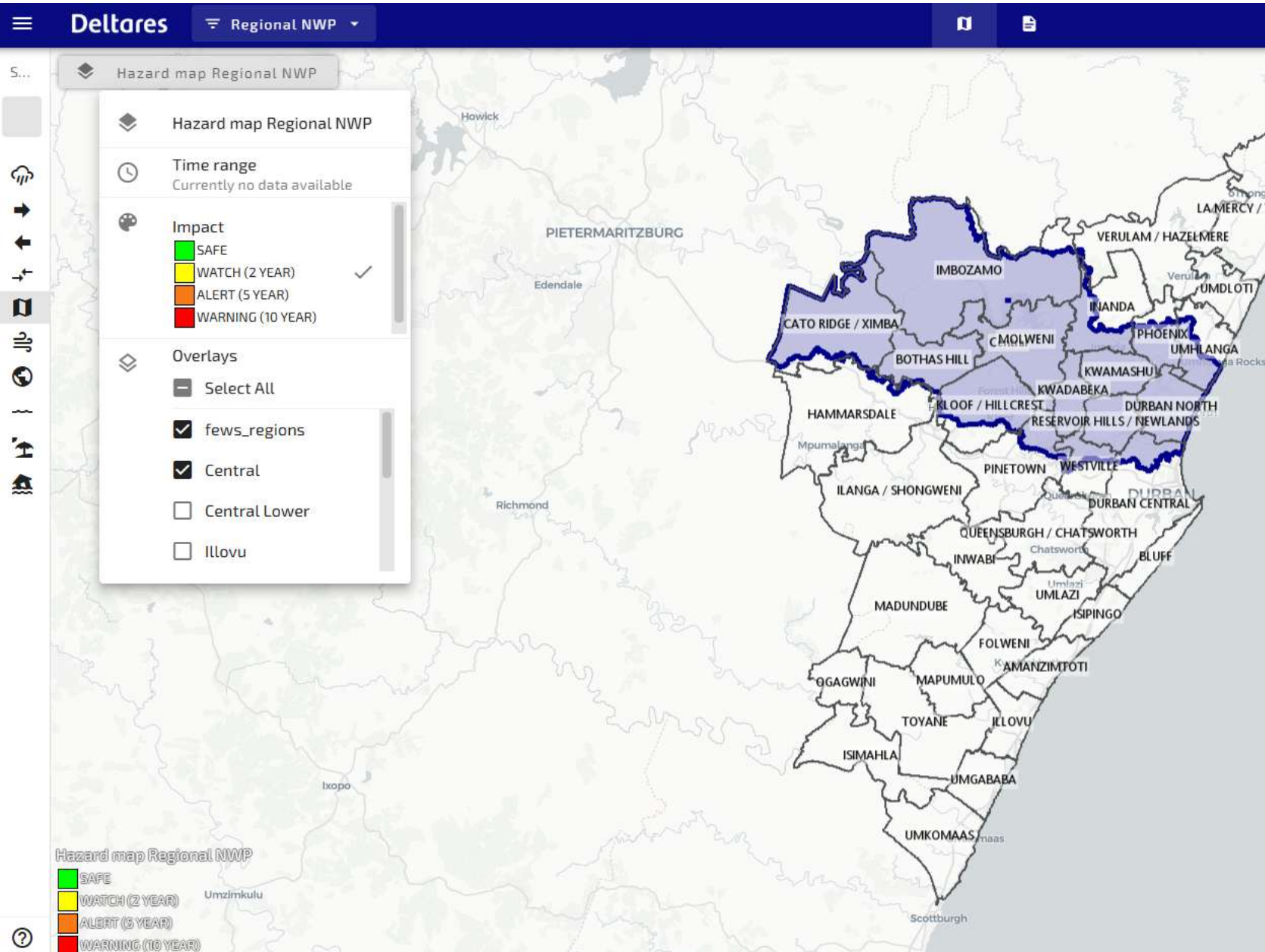
COASTAL FLOOD WARNING

	HW1	HW2	HW3	HW4
WL [m]	-	-	-	-
Hs [m]	-	-	-	-
Tp [s]	-	-	-	-
MWD [°N]	-	-	-	-



Static WMS overlays

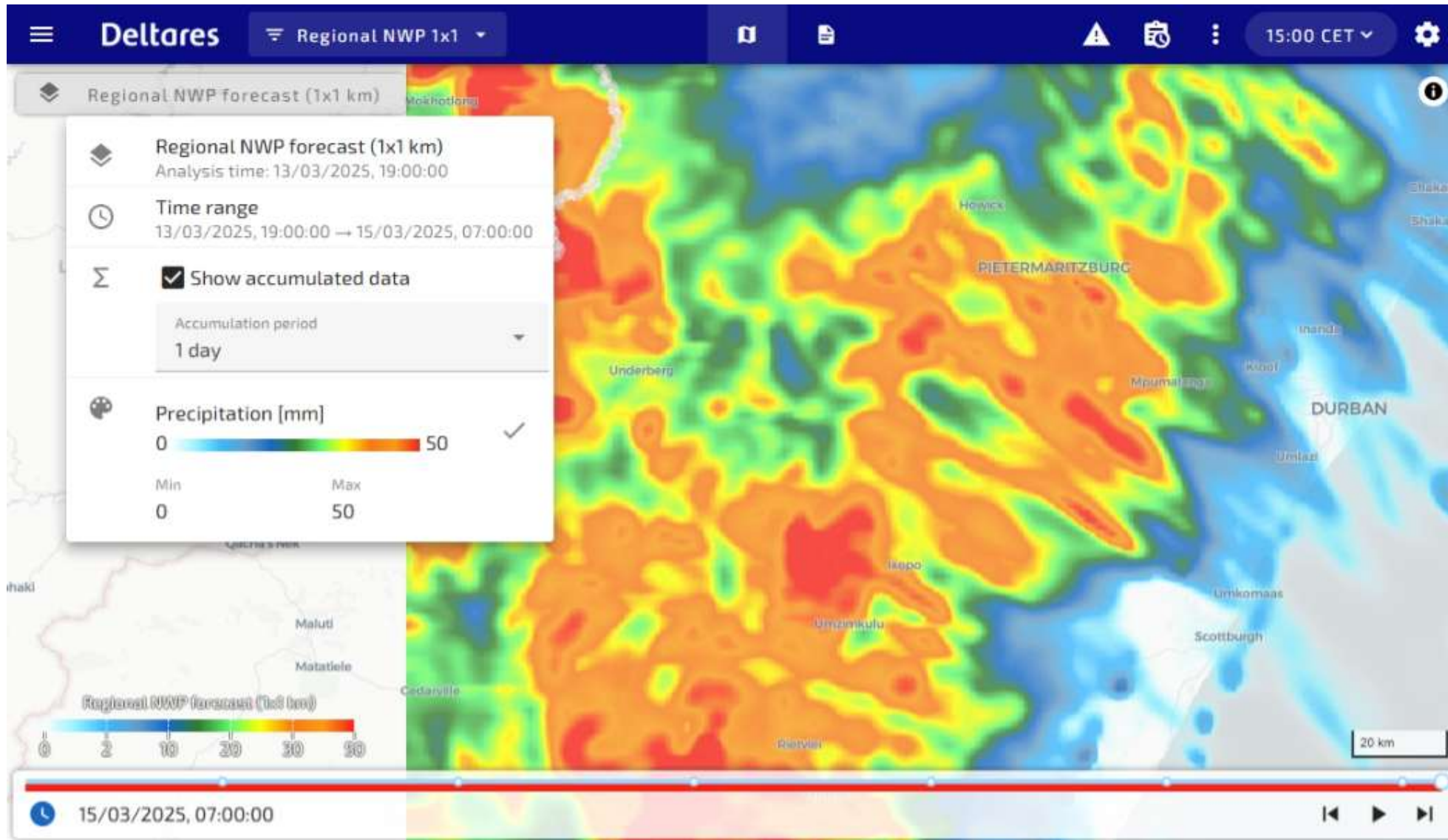
- Static layers configured in Explorer.xml can be displayed as an overlay on the map.
- Styling is configured in Explorer.xml.
- Which layers are visible per topology node is configured in WebOCComponentSettings.xml.
- At the moment, overlays are shown above the grid data layer. In the future, we will provide the option to choose whether a static layer is displayed below or above the data.



Static WMS overlays

- Static layers configured in Explorer.xml can be displayed as an overlay on the map.
- Styling is configured in Explorer.xml.
- Which layers are visible per topology node is configured in WebOCComponentSettings.xml.
- At the moment, overlays are shown above the grid data layer. In the future, we will provide the option to choose whether a static layer is displayed below or above the data.

Web-OC Data analysis & aggregation



Collection
New Feature Demo

Time Series

- Current speed at Hoek van Holland
- Water levels
- Curr.speed.sim [1]
- Curr.dir.sim [1]

Resampling Methods

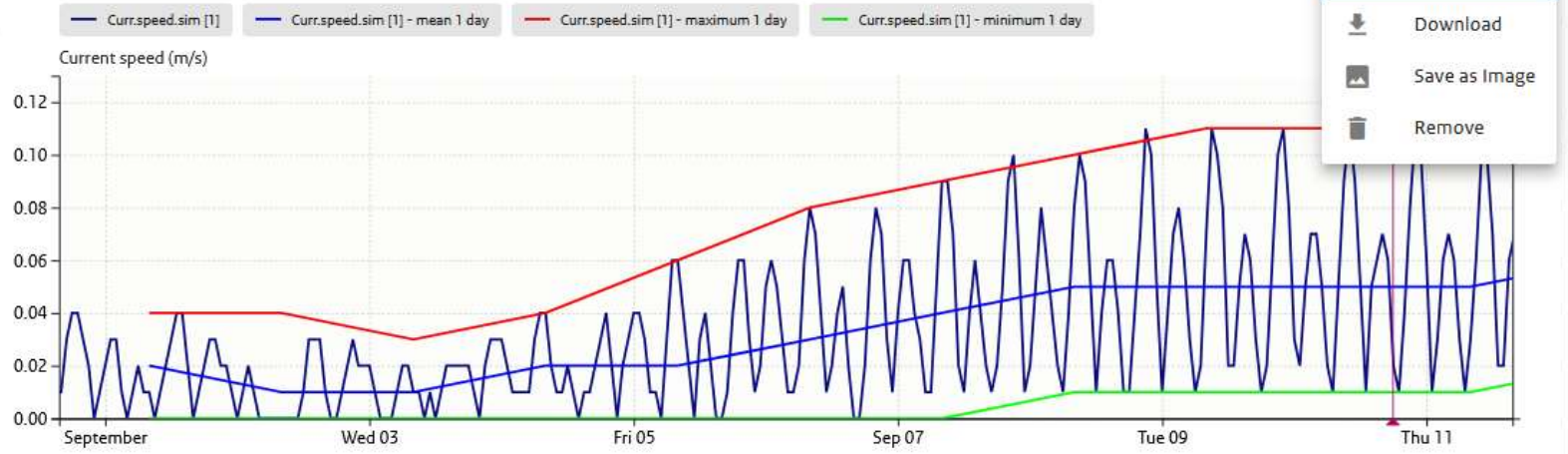
- Minimum
- Maximum
- Mean
- Mean (time weighted)
- Sum
- Instantaneous

Time Steps

- 1 hour
- 6 hours
- 12 hour
- 1 day
- 1 week
- one_month
- one_year

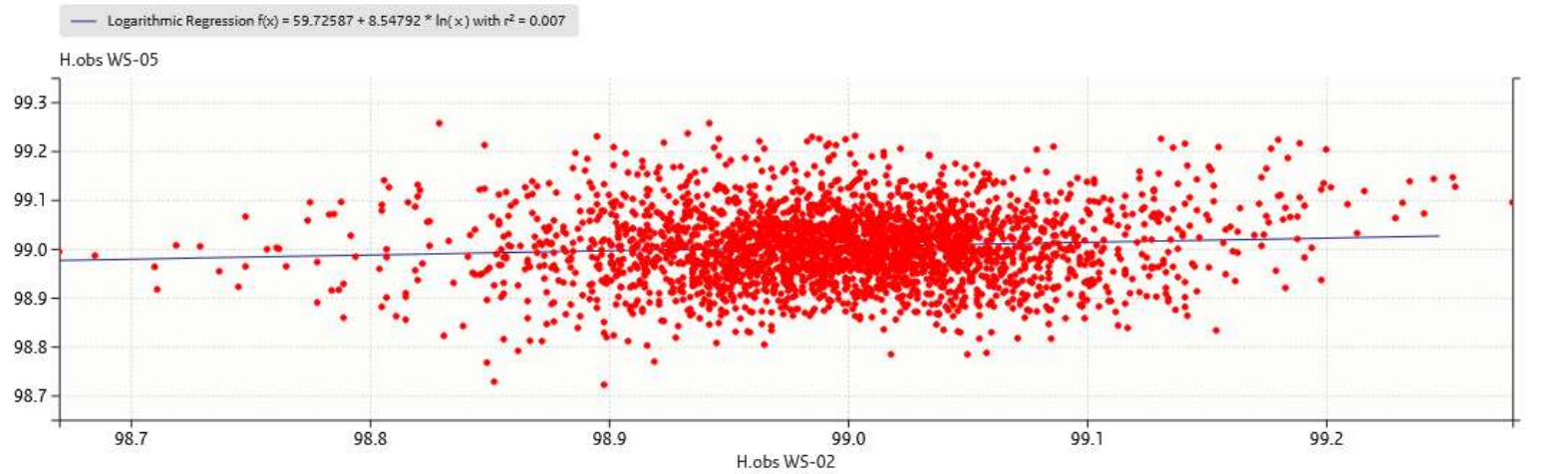
Include original time series

Current speed at Hoek van Holland



- Edit
- Download
- Save as Image
- Remove

Correlation between H.obs HOEK and H.obs Rotterdam



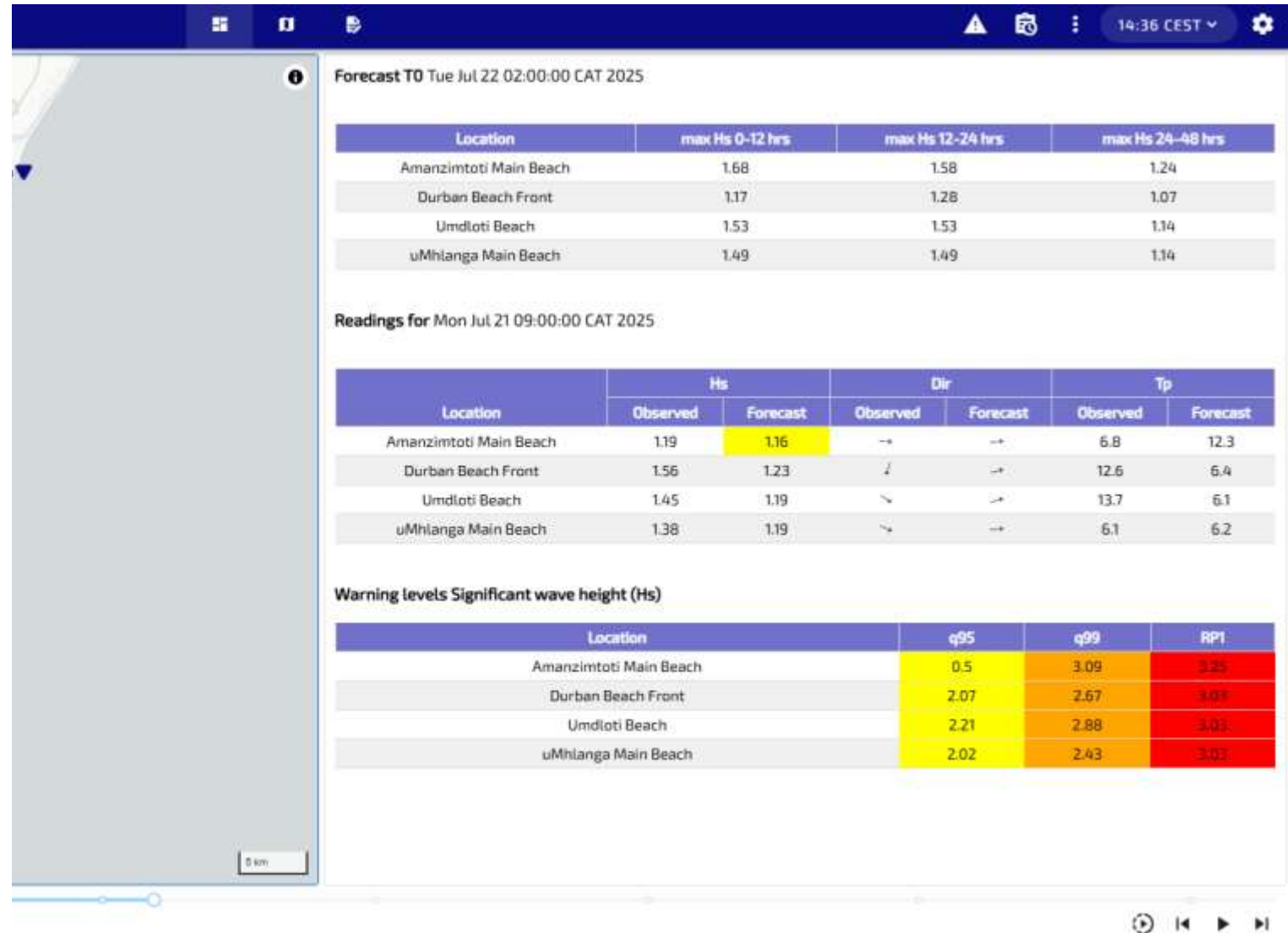
+ CREATE NEW CHARTS ADD TO CHART



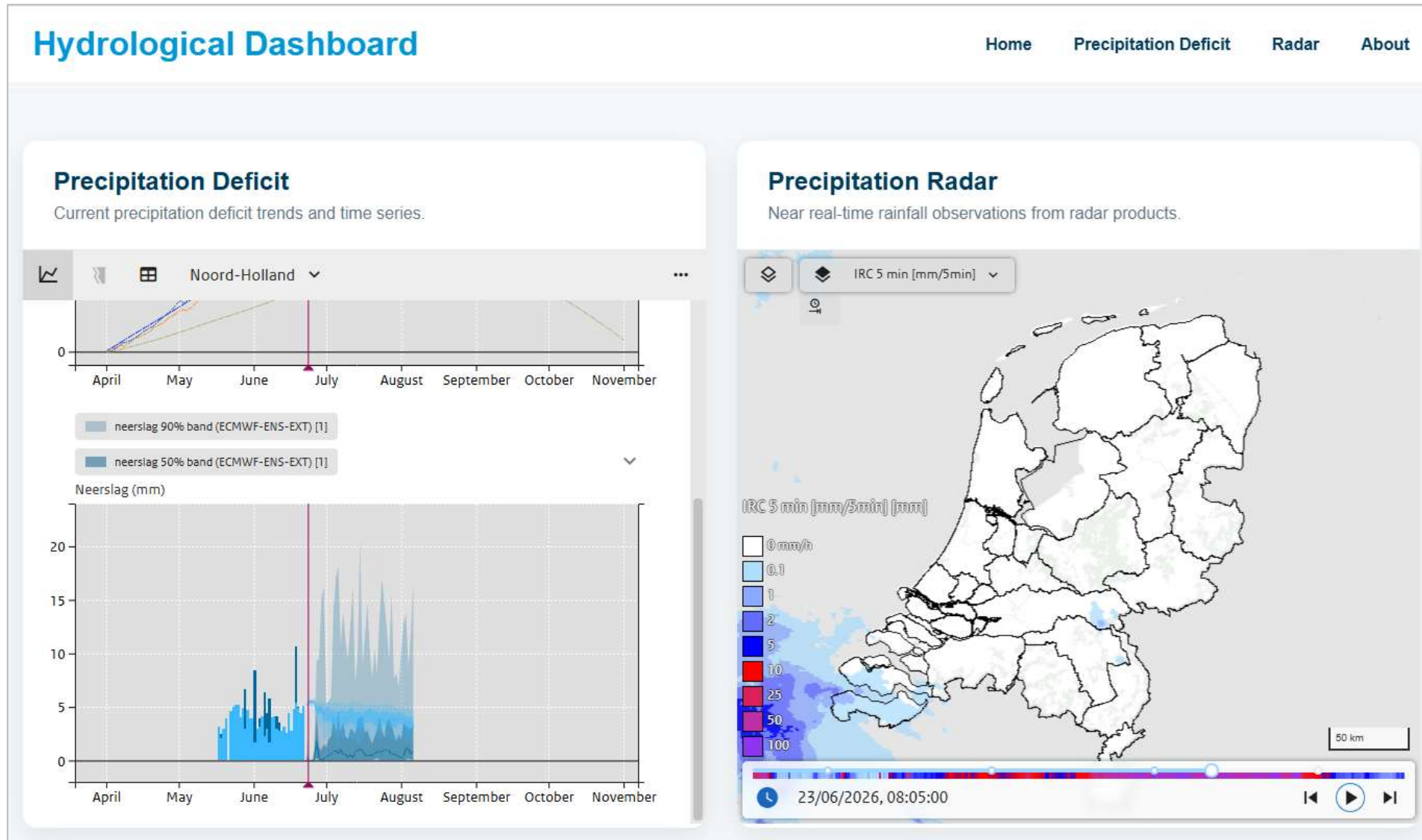
Web-OC Reports

Dynamic report

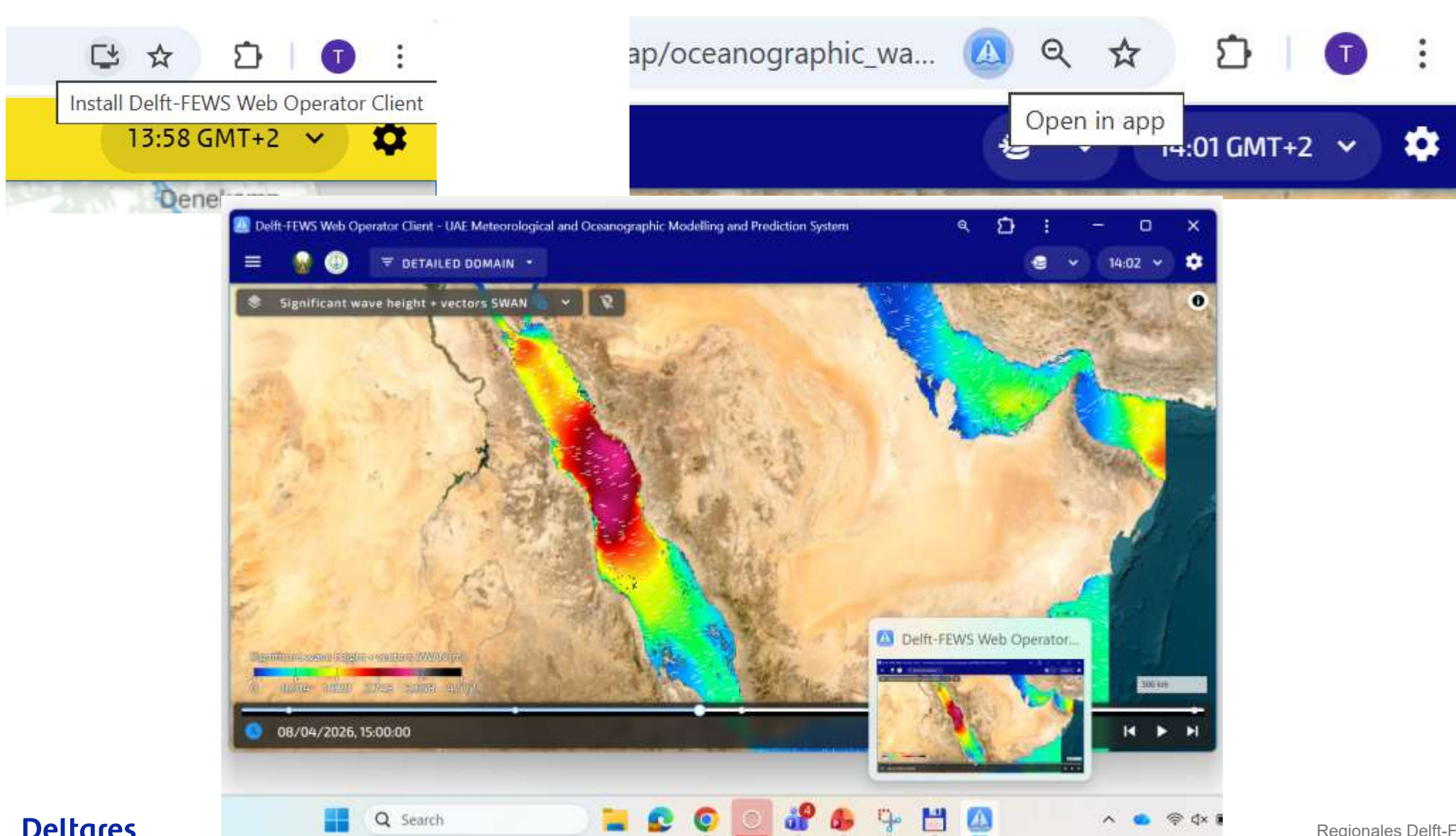
- The dynamic report module provides the ability to dynamically generate a report based on a template configured in FEWS. This typically involves time- and/or location-dependent data displayed in tabular format.
- Documentation: <https://publicwiki.deltares.nl/spaces/FEWSDOC/pages/352944402/37+Dynamic+Report+Displays+Web+OC+only>



Web-OC Embedded



Web-OC on mobile phone





WaterCoach

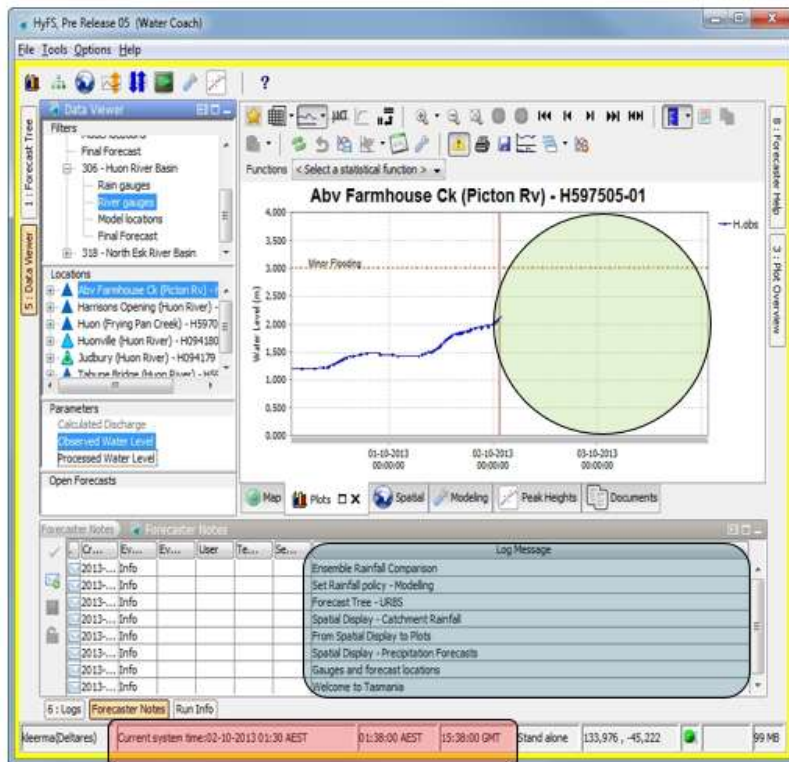
Delft-FEWS and WaterCoach arranged side by side

Yellow border = Training Mode

System Time is dictated by WaterCoach

Observations in "the future" are hidden

WaterCoach sends messages to Forecaster Notes



Water Coach (clock) always on top

WaterCoach → Serious game to train forecasters

- Scenario – weather and water conditions
- Script - storyline that can be adjusted to aid the learning objective

Now also available as client connected to centrally hosted database

Overview of roadmap 2026 activities

Generic
Product
Management

Structural
Maintenance

Worldwide
Community

Software
Innovations



- Writing New Product Vision 2026-2029

- Streamlined releases, security improvements and -tooling
- Releasing 2 stable versions of Delft-FEWS client-server
- Making the Open Archive more robust and easy to install
- Web OC OGC compliant and enabling co-creation
- Making OpenDA releases more frequent and simple.

- Interactions with our Community Strategy Board (CSB)
- Feeding our community via portal blogs & news updates
- Organizing onsite and online user events
- SLA based support to our clients worldwide

- Application of AI in operational Forecasting
- Experimenting with LLMs and developing AI agents
- Embedding AI assistance in our software development process
- End-to-end archive solution for both forecasters and data scientists
- Deltares ISO-27001 certified in 2026
- Implementing Kubernetes for FEWS web services load testing and balancing.
- Expanding FEWS-Conform
- Delft-FEWS and SFINCS
- BMI compliant and FEWS-Python wrapper
- WebOC: embracing micro-frontend, improving display time management and testing publicly accessible Web OC applications
- Exploring Google Flood Hub
- Investigating sustainable business models for Forecasting as a Service (FaaS)

Spotlighted (1) - New Delft-FEWS Product Vision

- Status: Writing process has started

Writing Team:

- Product Management: Ilonka, Marcel, Gerben



- Product Owners: Dave, Tom



- Solution Architect: Lo



- Department representation: Marc



CSB will be involved (review role) → input is already available(!)

Planning: draft/contours (AUS user days, early Sept), final version: International User Days (Nov)

Spotlighted (1) - New Delft-FEWS Product Vision

- External orientation: **key messages from strategic client documents and CSB**
 - **Forecasting Excellence**: strong focus on improving flood, drought, hydrological, probabilistic, and impact-based forecasting with modernized models and extended forecast horizons.
 - **AI, Machine Learning & Data Science Rapidly Expanding**: AI-driven modelling, verification, downscaling, anomaly detection, and operational optimisation embedded in hybrid environments with ML augmentation.
 - **Operational & IT resilience becoming mission-critical**: 99.99% system uptime, IT simplification, Life Cycle Management, cloud/platform choices, and cyber security threats while modernizing infrastructure for continuous service delivery.
 - **Community Engagement & Communication Improvements**: Clear dedication to public safety, warning systems, improved interfaces, and transparent communication with a growing need for trust rebuilding and data transparency.
 - **Data Integration, Interoperability & Modernisation**: Movement toward API-based data exchange, containerisation of software & models where Delft-FEWS is increasingly used as a central operational integration hub.
 - **Workforce Capacity & Skills Development**: Need for technical expertise, especially in AI, modelling, FEWS configuration, and operational forecasting.

Spotlighted (1) - New Delft-FEWS Product Vision

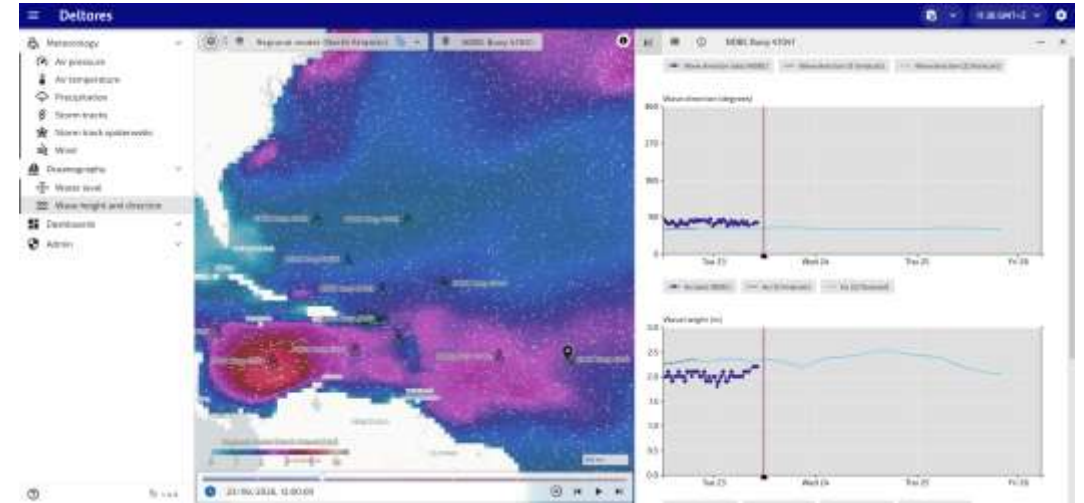
- Internal orientation: **Deltares' ambitions and (historic) foundation and successes of Delft-FEWS concepts & choices**
 - Deltares: Strategic Agenda 2026-2029: sustainable business models for all software products, enabling API interactions and clear life cycle management
 - Departments: OWM strategic pillars, HAF ambitions on forecasting skills, adopting AI in forecasting operations.
 - (keep) embracing and stressing **historic** and **successful key concepts & choices**: data driven, configurability, open to all data formats and modelling software (adapter concept), short time-to-realization, community-powered innovation, timeline(s) & topics for co-creation with strategic partners

Across all regions, the community shares a clear trajectory: Modernise forecasting, strengthen resilience, embrace AI, integrate data, and invest in people. This provides a strong foundation for collaborative priorities and future strategic planning with our stakeholders.

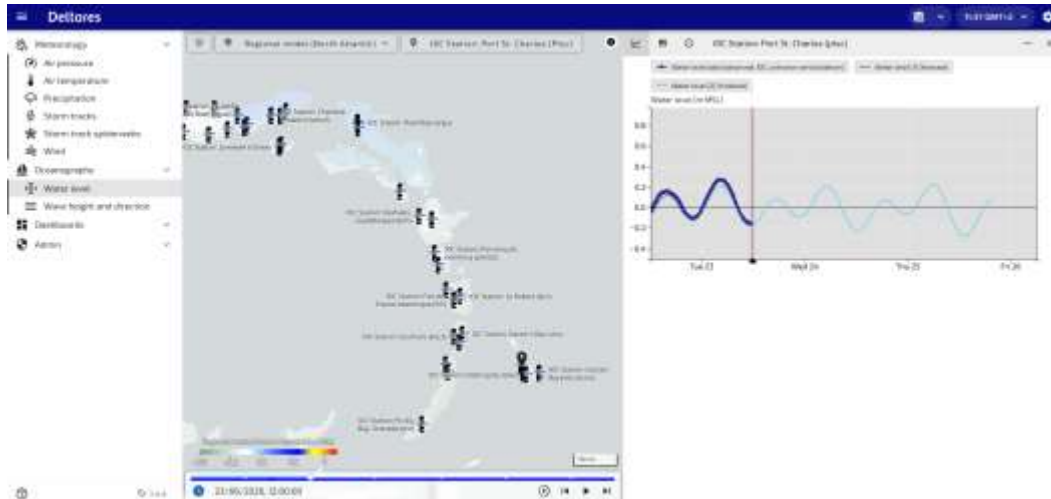
Spotlighted (2): Delft-FEWS & SFINCS



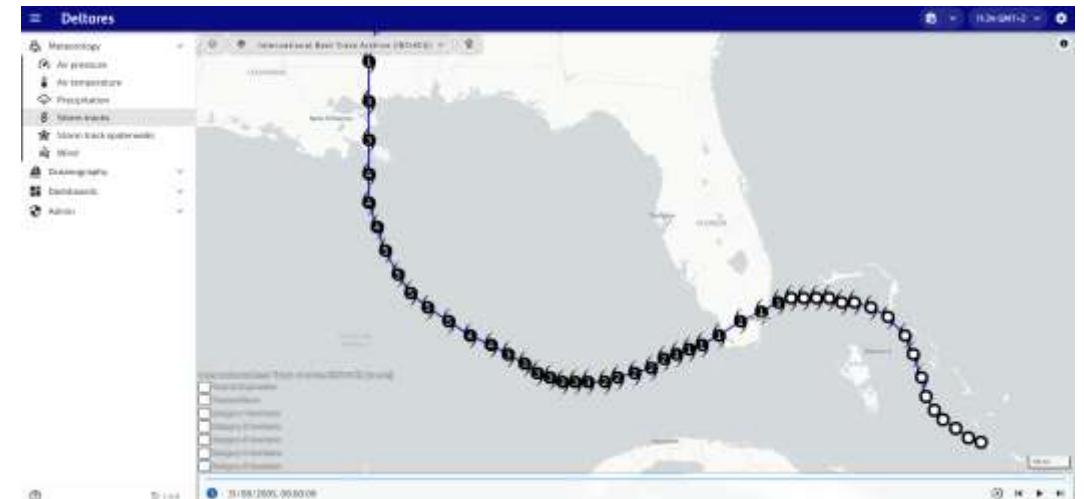
- SFINCS: Super Fast Inundation of CoastS - Deltares' open-source flood model
- Use Case: 'Dutch' Caribbean area: weather, waves & water level observations and forecasts including 2D inundation modelling using SFINCS.
- WebOC application for demo and research purposes (KNMI, Ministry of Infra & Water Management)



waves



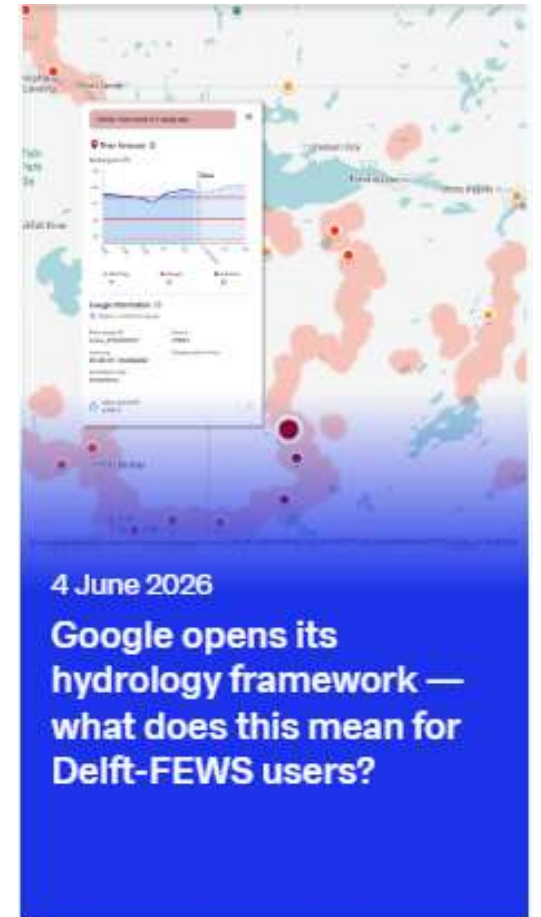
water level



storm/cyclone tracks

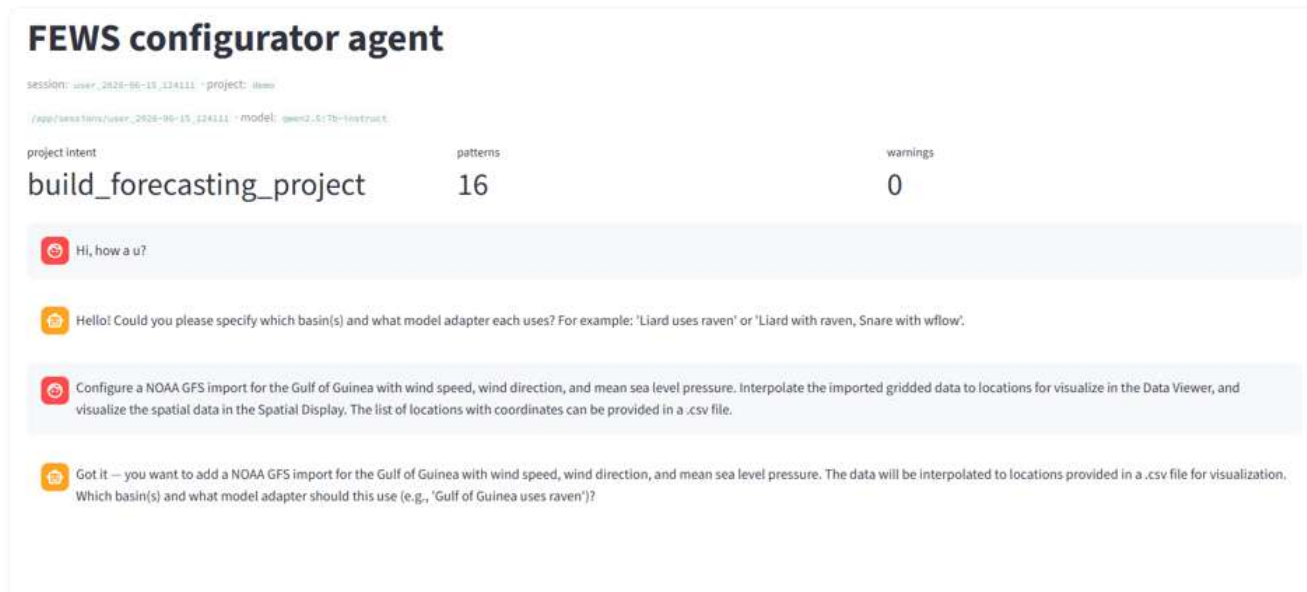
Spotlighted (3) – Exploring Google Flood Hub

- Original idea was to explore and assess the quality of Google Flood Hub data and models
- 2nd of June [Google's announcement](#) → access to their AI open-source hydrological model/framework
- 3rd of June: Delft-FEWS PM response (portal)
- Current status (planned developments)
 - Contract
 - **Import**: API to flood hub data
 - **Model adapter** for flood hub models
- Near future promotion
 - London Climate Action Week (20-28 June) → announcement + Deltares video message
 - More during the International Delft-FEWS User Days



Spotlighted (4) – LLMs for Delft-FEWS

- Also known as: Talk-With-FEWS (“TWF”) experiments → together with HKV (NL consultant)
- TWF → continued: plan for “TKI” project including more (market) parties from NL: submission Sept ‘26
- Deltares continues developments of Config Agent
 - Based on **FEWS-Conform** configuration
 - Agent/Chat design with ‘efficient token’ usage: template approach. Python code generates the XML files based on user’s input. LLM is only used for ‘intelligence’ (not for writing XML files line by line)
 - Generates complete **new (and valid)** config from scratch, next: add/edit existing configurations



FEWS configurator agent

session: user_2025-05-15_124111 - project: item

/app/sessions/user_2025-05-15_124111 - model: gpt-4o-1-7b-instruct

project intent	patterns	warnings
build_forecasting_project	16	0

Hi, how a u?

Hello! Could you please specify which basin(s) and what model adapter each uses? For example: 'Liard uses raven' or 'Liard with raven, Snare with wflow'.

Configure a NOAA GFS import for the Gulf of Guinea with wind speed, wind direction, and mean sea level pressure. Interpolate the imported gridded data to locations for visualize in the Data Viewer, and visualize the spatial data in the Spatial Display. The list of locations with coordinates can be provided in a .csv file.

Got it — you want to add a NOAA GFS import for the Gulf of Guinea with wind speed, wind direction, and mean sea level pressure. The data will be interpolated to locations provided in a .csv file for visualization. Which basin(s) and what model adapter should this use (e.g., 'Gulf of Guinea uses raven')?

typical prompt

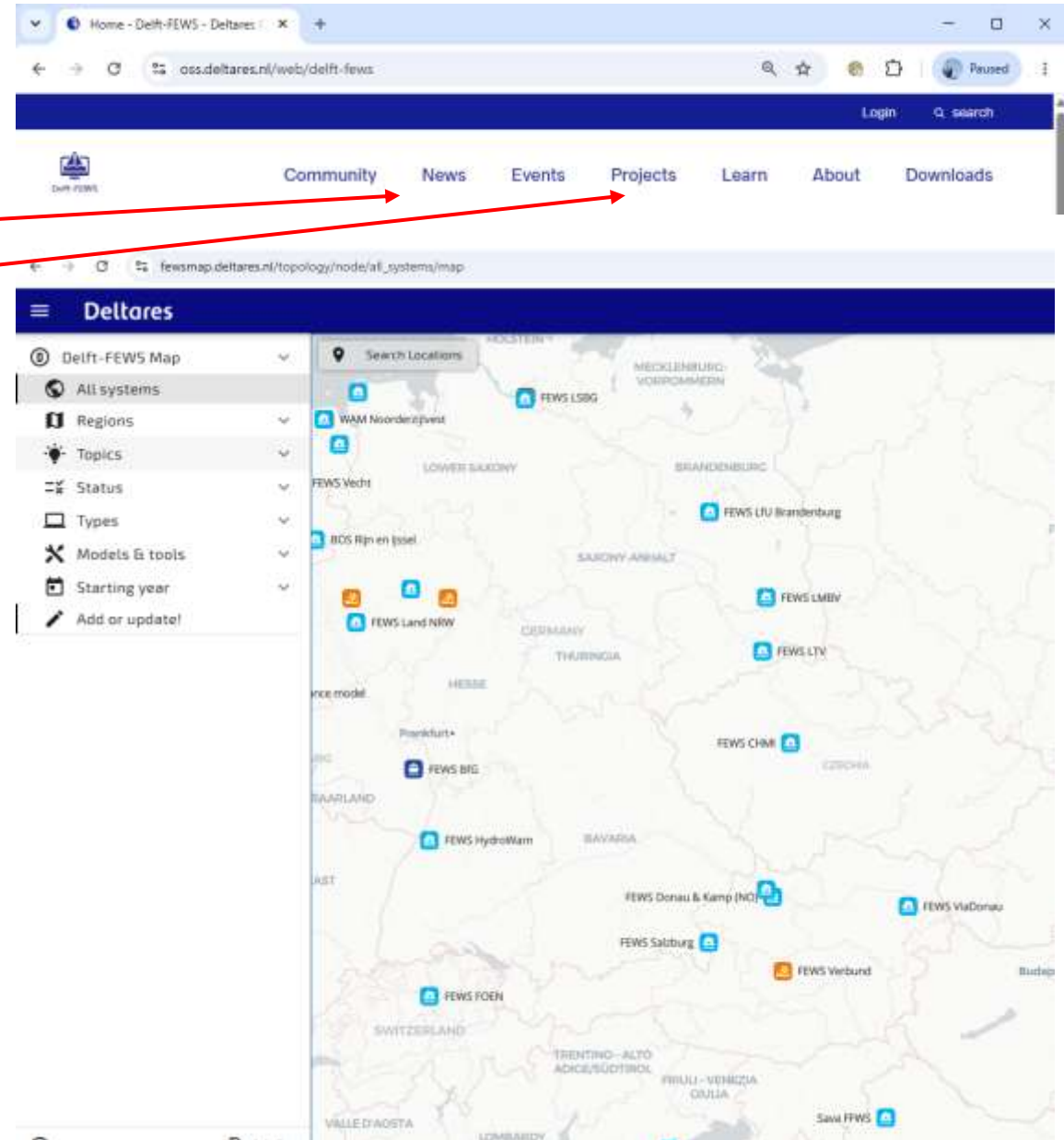
'Configure a NOAA GFS import for the Gulf of Guinea with wind speed, wind direction, and mean sea level pressure. Interpolate the imported gridded data to locations for visualize in the Data Viewer, and visualize the spatial data in the Spatial Display. The list of locations with coordinates is provided in the .csv file. (attach the file)'



Community

- Open **invitation** for all of you to contribute to:
 - Regional news & blogs
 - Project descriptions
 - Your application(s) on the **Worldmap**

FEWS-moderators@deltares.nl





Past events in 2026 ...



NL Delft-FEWS User Day (6th April 2026)



Delft-FEWS 2025.02 New Features Webinar



Canadian Delft-FEWS User Day (15th of June 2026)

• FEWS Community Talks

Initiated by the Community Strategy Board, the FEWS Community Talks are 1-hour webinars in which a FEWS community member presents a topic, with room for questions at the end. Check out the [Events](#) page to find out when the next Community Talk is scheduled. [Send us an email](#) if you would like to share an interesting development, show your system, or consult the FEWS community. Links to recordings and slides for past webinars are provided below.

Community Talks (links to videos)	Community Talks (slides)
<ul style="list-style-type: none"> → 23 June 2026 - Different usages of the Delft-FEWS Web OC → 12 March 2026 - Recent rainfall estimation and forecasting improvements for Australia → 2 October 2025 - Ensemble forecast 	<ul style="list-style-type: none"> → Presentation about the different uses of the Delft-FEWS Web OC → Presentation Carlos Velasco / Ruben Imhoff - Recent rainfall estimation and forecasting improvements for Australia

FEWS Community Talks

Clickable overview of all webinars...(1)

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)
2023.02 Features	07.03.2024	How to configure the Topology to organize your (daily) forecasting or data analysis process (topic starts at: 09:30) The integrated reservoir module (topic starts at: 30:30) Security: how to deploy Delft-FEWS components using OpenID Connect (topic starts at: 45:30)
2024.01 Features	27.11.2024	Display for metadata management completed (topic starts at: 05:20) Open Archive improvements (topic starts at: 20:40) Web OC version 1.1.0 (topic starts at: 37:00)
2024.02 Features	14.05.2025	Value Property Entry Display (topic starts at: 05:54) Spatial Display & on-the-fly grid interpolation (topic starts at: 19:30) Hidden gems (topic starts at: 35:00)

Clickable overview of all webinars...(2)

Webinar	Date	Topics+video link
2025.01 Features	24.09.2025	What-if Scenarios (part 2) – topic starts at 05:26 Interval Statistics Dialog – topic starts at 20:30 Web OC 2025.01 preview – topic starts at 34:00
2025.02 Features	02.04.2026	World map of Delft-FEWS applications – topic starts at 05:10 New ECMWF AI and GFS data imports – topic starts at 25:00 Water Coach – topic starts at 32:10 Workflow Navigator – topic starts at 43:45
2026.01 Features	24.09.2026	

Organisation changes **NEW..!!**

Product Management Team

- Product Managers



Gerben



Marcel

- Product Owners



Dave

Delft-FEWS & Open Archive



Tom

Web OC

- Community Manager



Ilonka

Deltares

Product Development Team

- Solution Architect (& domain lead)



Lo

- Delft-FEWS development team



Bart



Onno



Magali



Orshi



Rudie



Andre



Mike



Anass



Erik

- Web OC development team



Werner



Shomaila