



Deltares



Government of the Netherlands

WaterCoach, here and in Australia

Part 1 - How the Dutch train with RWsOS

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surge
&
waves



RWsOS
Noordzee

AM3



RWsOS
Rivieren



RWsOS
Meren

AM2

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Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat



WaterCoach – the training mode of Delft-FEWS

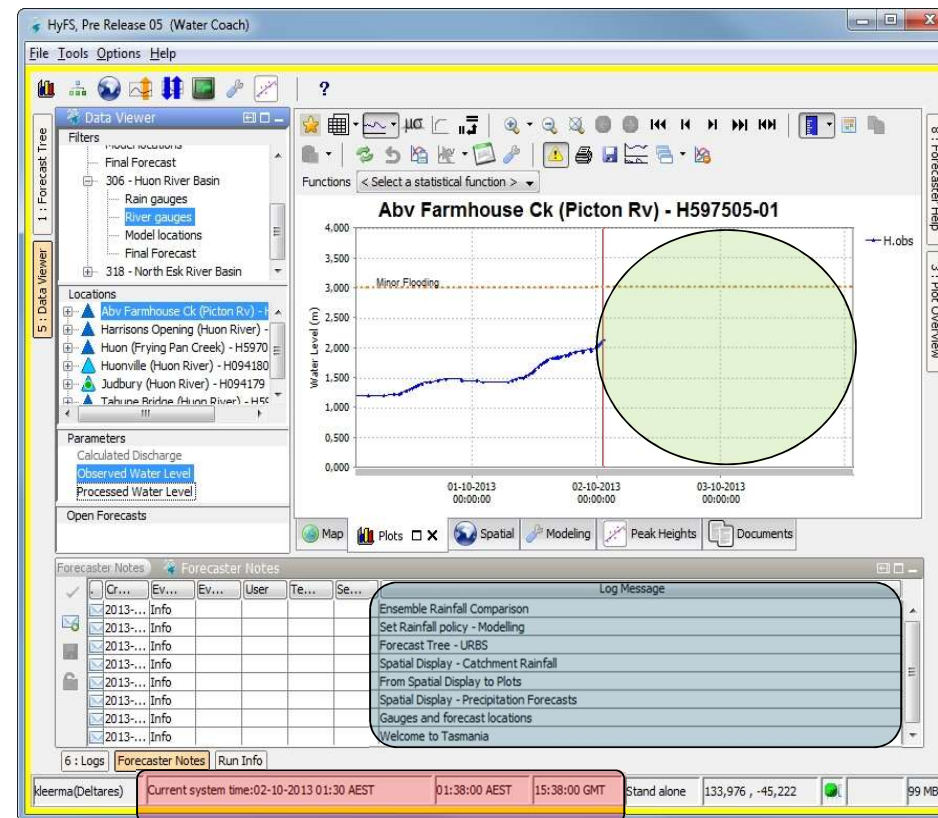
Delft-FEWS and WaterCoach arranged side by side

Yellow border =
Training Mode

System Time in
dictated by
WaterCoach

Observations in “the
future” are hidden

WaterCoach sends
messages to
Forecaster Notes



Water Coach
display

WaterCoach – Scenario and Script

The name of the game is data



WaterCoach consists of

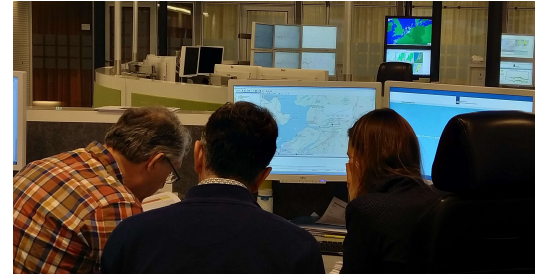
- Scenario - weather and water
 - Delft-FEWS “localDataStore”
 - Change the weather?
- Script - storyline to aid the learning objectives
 - Q&A
 - Hints
 - Interactive script



WaterCoach Lakes & Rivers

The name of the game is data

No Scripts



- Rivers large scale exercise in 2017 – Deining & Doorbraak
 - With: RWS (CAG Rivers, LCO), 5 water boards, 3 safety regions, Ministry of Defense
 - Scenario: Start with high water in the Rhine, decreasing during the 7 day scenario, while IJssel increases
 - Learning objectives: How to prepare for, and decide to apply, **Room for the River measure**
- Lakes large scale exercise in 2019 – Data & Duiding
 - With: RWS (CAG Lakes, LCO), 2 water boards, KNMI
 - Scenario: Storm at sea (December 2013) combined with large discharge from Overijsselse Vecht and high level in IJsselmeer. During scenario discharge from IJssel increases (**WC-Rivers scenario**)
 - Learning objectives: Forecasting using scenarios and **communication between parties**
- Rivers and Lakes combined large scale exercise in 2021
 - With: COVID ☹, postponed to 2022
 - Scenario: **WC-Rivers Deining & Doorbraak and WC-Lakes Data & Duiding**
Time shift to run WaterCoach Lakes and Rivers simultaneously
 - Learning objectives: **Procedures for upscaling,**
Communication between CAGs Lakes and Rivers,
Communication with stakeholders (who does what)

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Feb 9, 2020

WaterCoach North Sea – Ciara storm

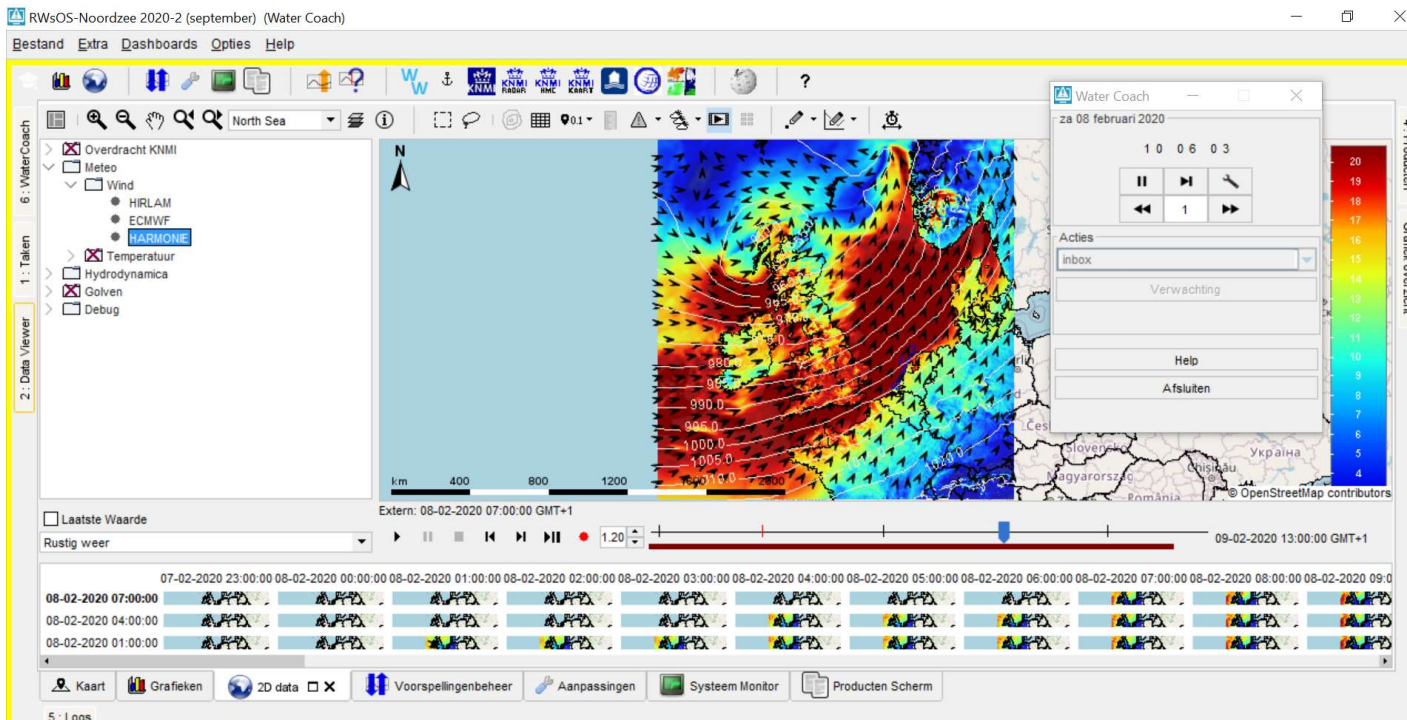
The name of the game is data and version management

Event (scenario data)

- RWsOS 2019-02 release
- Meteo: Hirlam
- Hydrodynamica: DCSMv6

Configuration

- RWsOS **2020-02** release
- Meteo: **Harmonie**
- Hydrodynamica: **DCSMv7**



What to do?

- Train with **old** config and models
- **Run new** models with new meteo
- **Pretend** old data is new (displays)

Scenarios – Open Archive, 2021 activities

The name of the game is data archive

How can we integrate WaterCoach with the operational environment (OC)?

Can we use an OC...

- to look at all archived data through seamless integration?
- to wind back time to look at a specific event? (like “Uitzending Gemist”)
- to create a WaterCoach scenario (LDS)?
- in WaterCoach mode? (instead of a separate SA)

How will we archive meta-data and simulated series?

- Simulated data is tied closely to a specific system (config). What if the config changes?

How will we archive existing Scenarios?

Contact

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