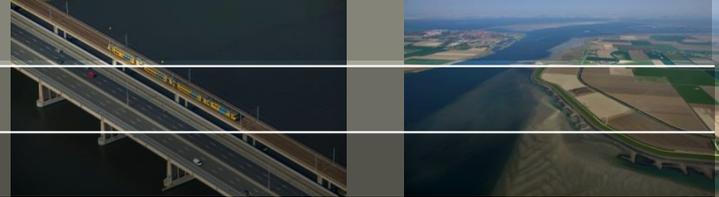# Global Storm Surge and Flood forecasts: towards local impacts
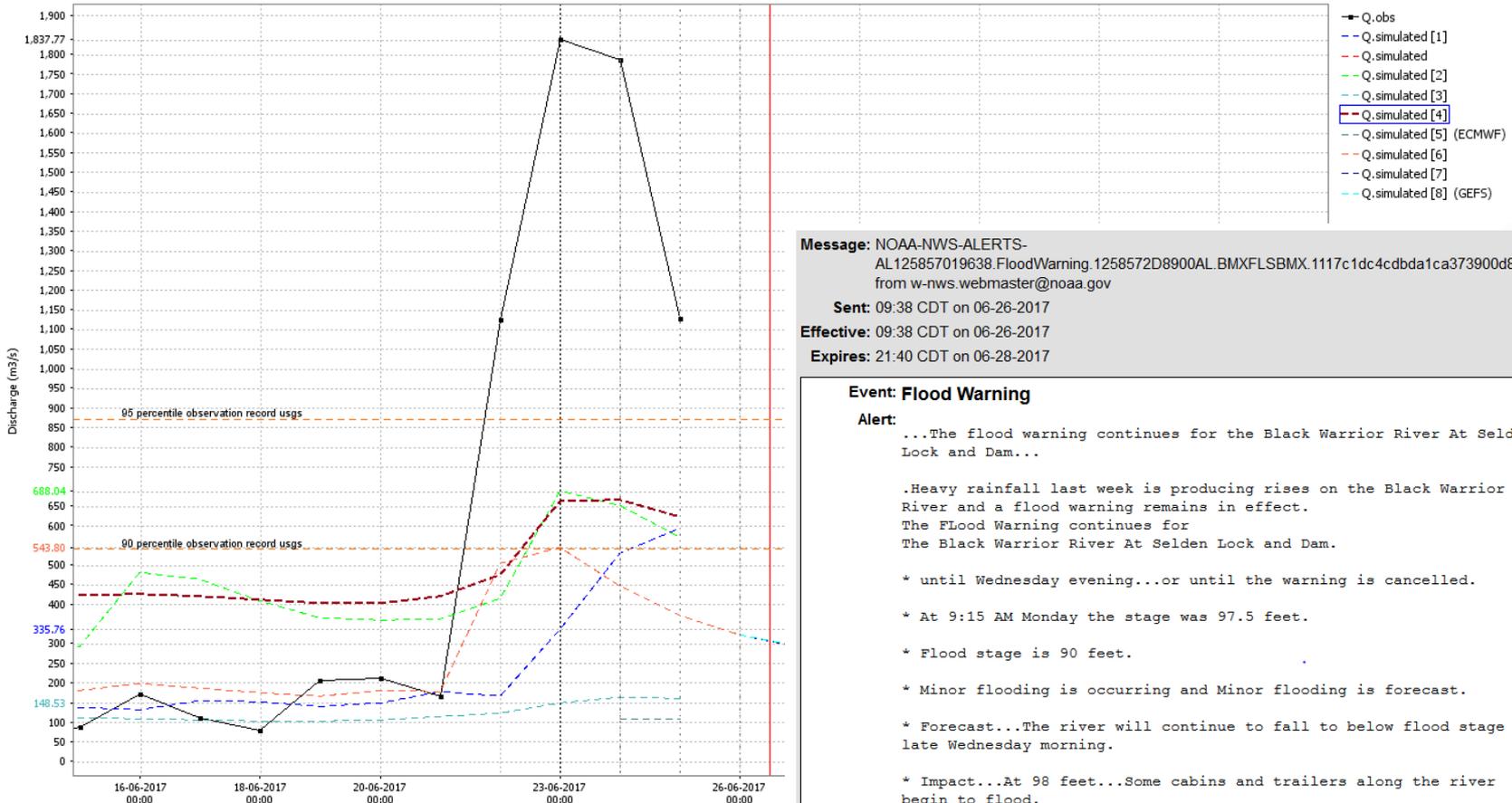
Albrecht Weerts, Dave de Koning, Martin Verlaan, Daniel Twigt, Patricia Trambauer, Gert-Jan Schotmeijer, Shristi Vaidya

26 juni 2017

BLACK WARRIOR RIVER AT NORTHPORT AL

26 juni 2017

# GlobalFloodForecast.com



26 juni 2017

# What's new?

- Global Storm Surge forecasts & threshold crossings

# What's new?

Assimilation of observed discharges for more accurate hydrological forecasts (with both GFS & ECMWF-EPS) (now Europe, USA/Canada+Brazil+SEA to follow)
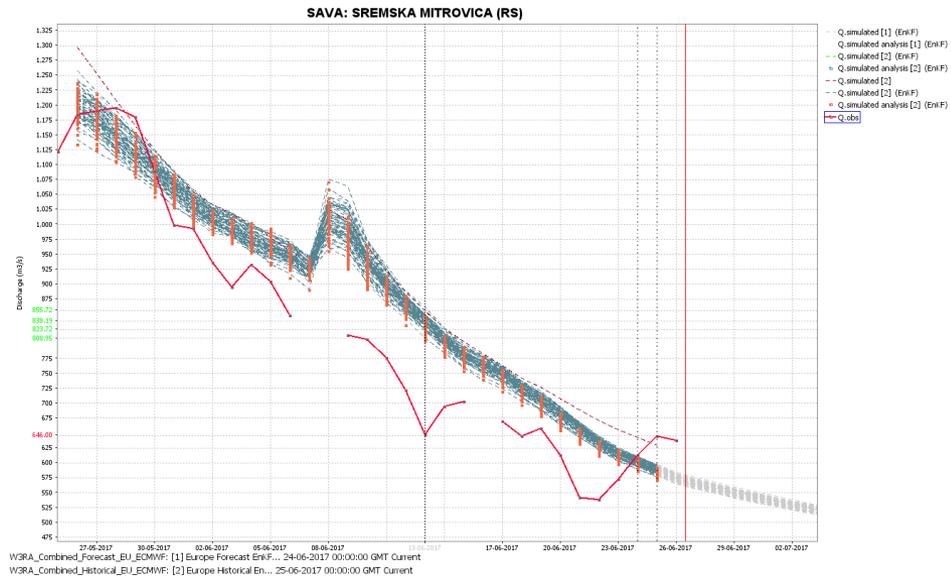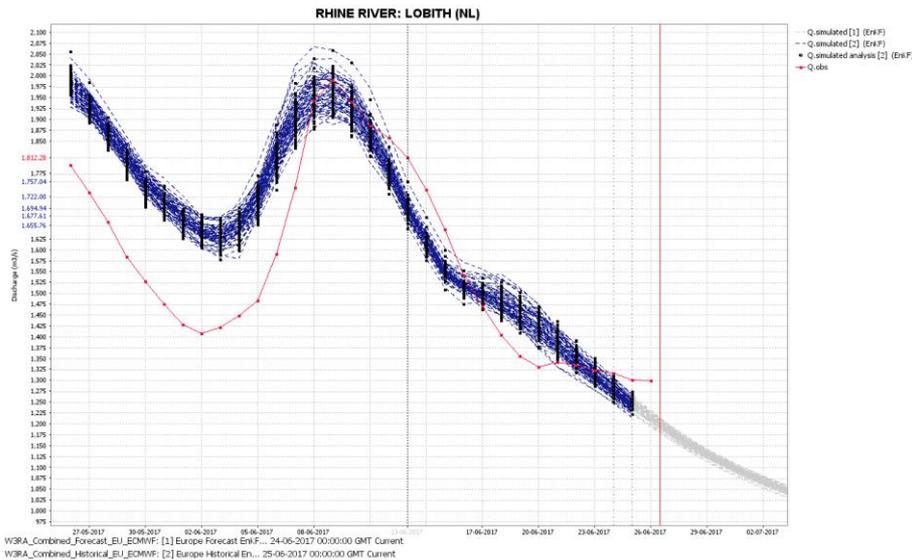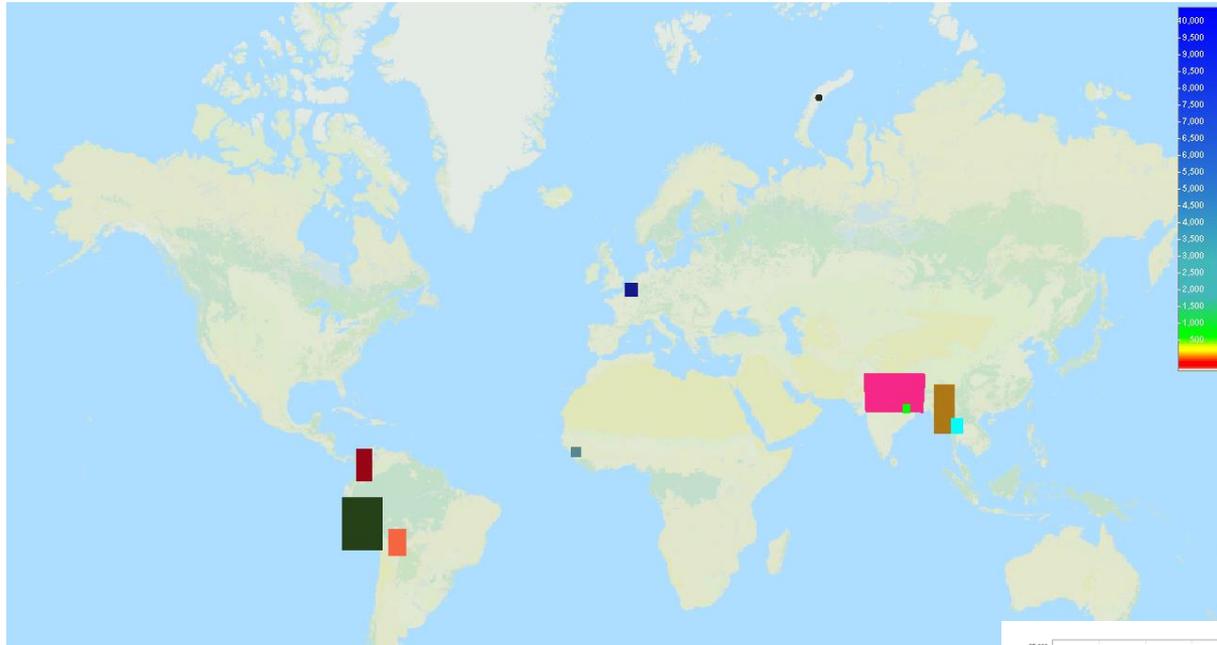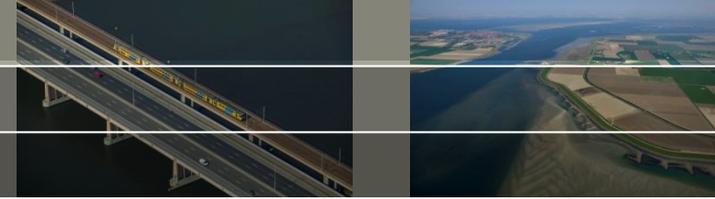
High resolution models
have been added
(e.g. Peru, Myanmar,
and more to follow)
=> towards local impact
(and compound events)
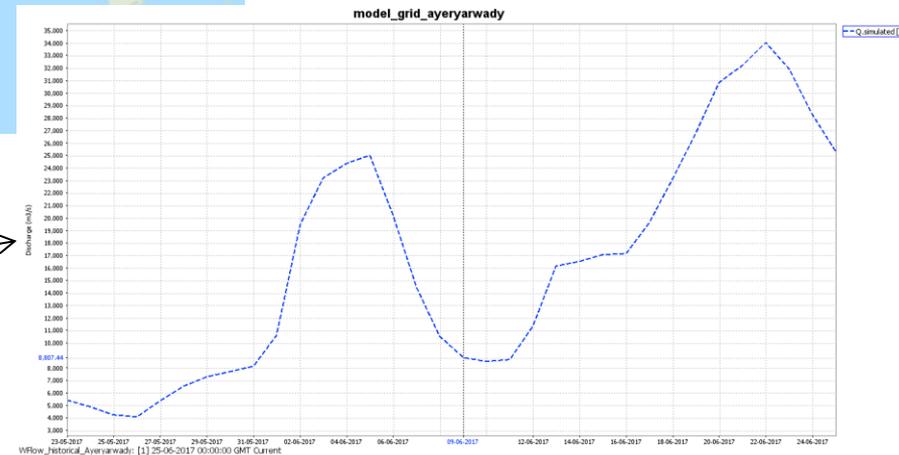
# Towards local impact (and compound events)
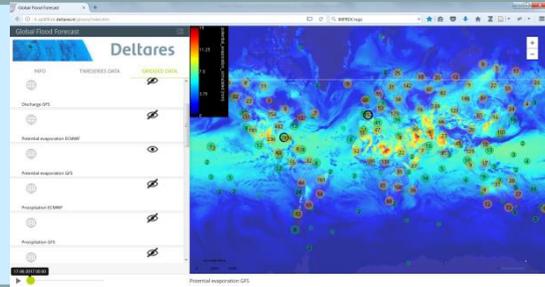


**Meteo hazard forecast**

Meteorological forecasts

Wind and precipitation

**Flood hazard forecast**

Hydrodynamic forecasts

Local water levels
Inundated area

Exposure data and hazard forecast

Affected streets, public buildings, cultural heritage sites, hospitals

Expected damages

Vulnerable people

(e.g using Delft-FIAT)

Impact

Population, GDP and critical infrastructure affected

**Color coded warning**

Warning

# Feedback appreciated!

**Please visit GlobalFloodForecast.com**

- Feedback on the viewer and content is highly appreciated

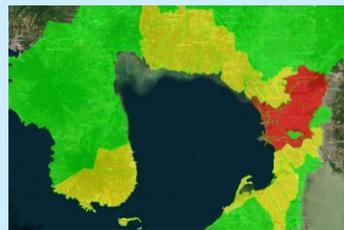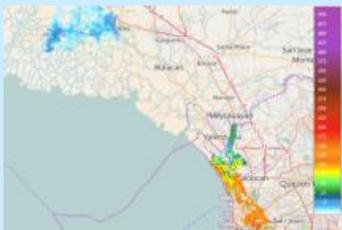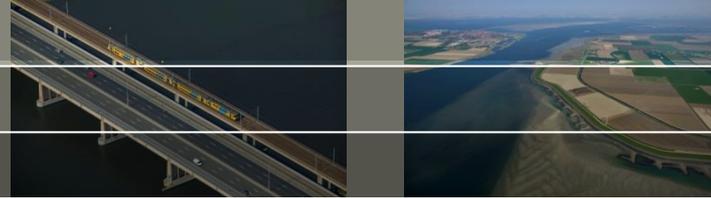- Observed satellite based discharges can be made available through a WaterML2 server

- Additional output locations can be added upon request

- We like to include your local discharge observations for assimilation.

For login detail, feedback, contributions or other questions please contact gfp@deltares.nl

**Deltares**