Improvement of a DSS Used for Waterlevel Management

Waterboard of Delfland, The Netherlands

Hoogheemraadschap van **Delfland**

Main Idea

To improve a DSS used to manage the waterlevels in the main canal system, by adding more input variables and by refining it's modelling.

Approach

» Add input parameters to the DSS on the current waterload onto the main canal system by the secondary canalsystem

» The secondary pumping stations (~100, plus it's management system) are upgraded to automatically deliver their throughput to the DSS

» Add precipitation radar data to the DSS.

Heavy rainfall September 2001 downtown Delft

Results

» The project that let the secondary pumping stations report their current throughput is completed (TA-project)

» The project to upgrade upgrade the DSS' modelcore to include the aforementioned data is well underway (this project will also enable the DSS to run the main pumping stations in a more energy efficient way).

Link to further information: The SAWA Waterwiki has entries on this DSS:
http://www.iwawaterwiki.org/xwiki/bin/view/Articles/DecisionSupportTools-Management
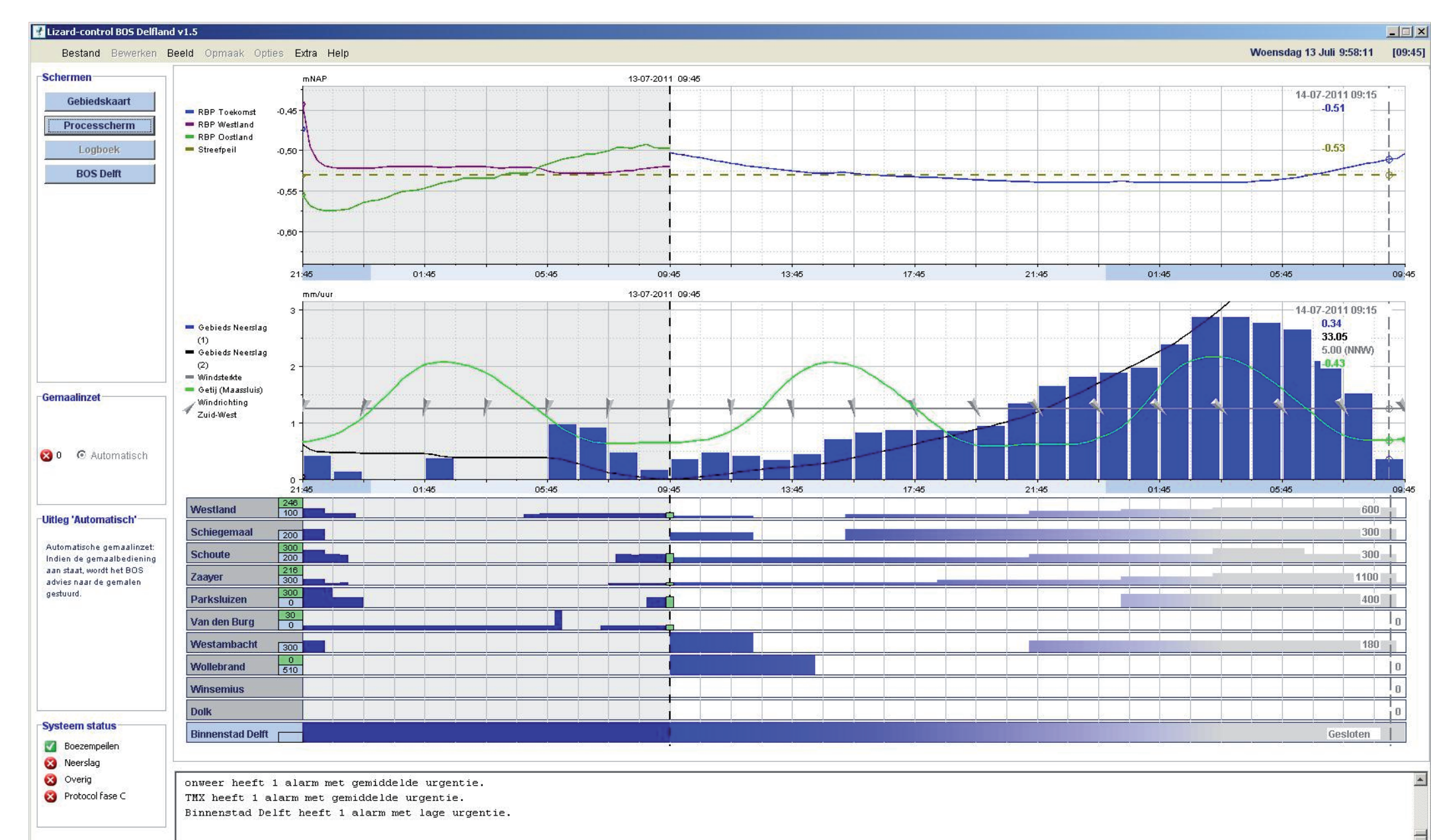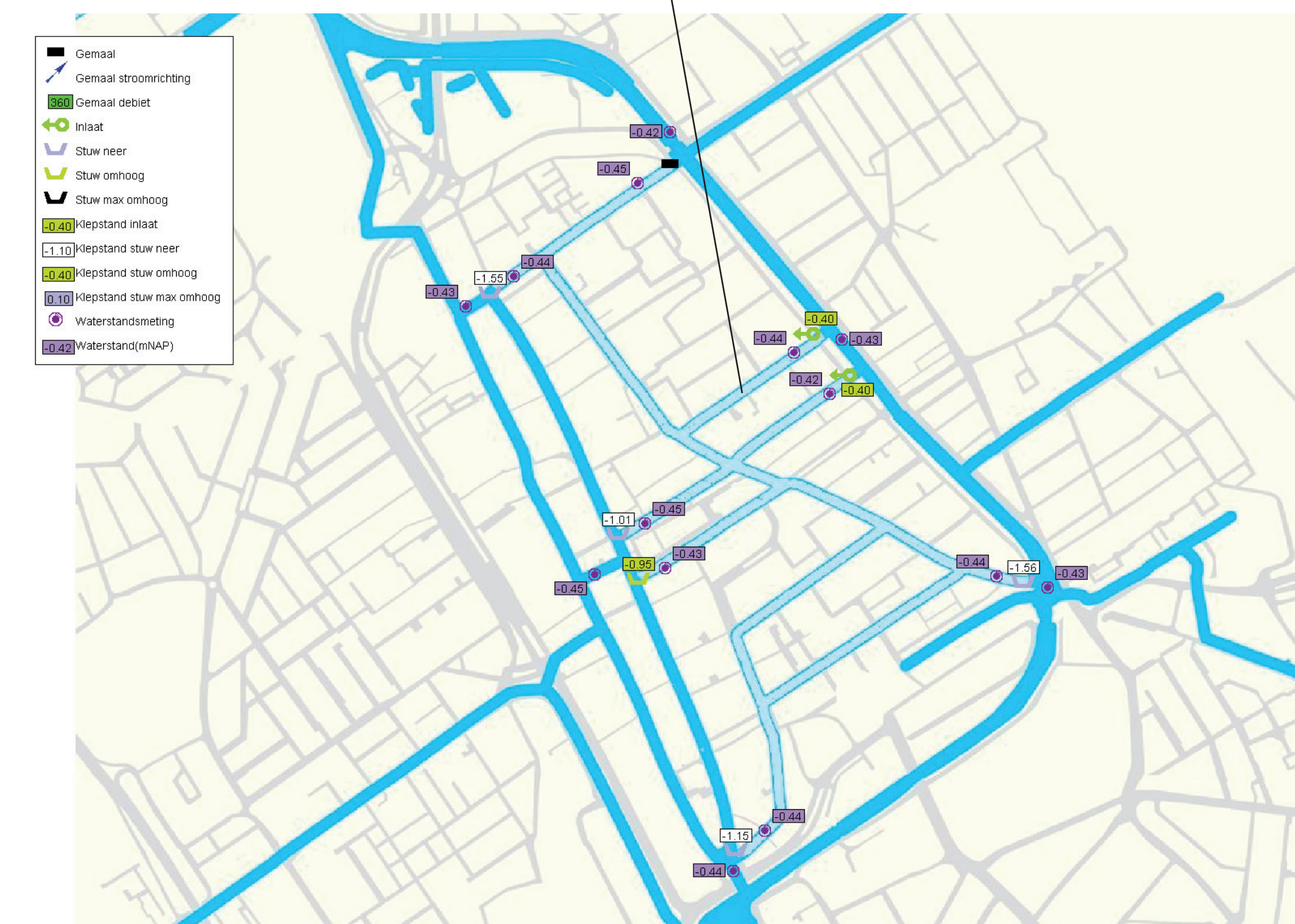
Contribution to SAWA

» Several entries in the waterwiki

» Participation in discussions on how to share experiences and knowledge

» Presentations on the function of waterboards in the Netherlands

» Presentations for several international delegations and groups of students.

DSS managing heavy rainfall 14-15 July 2011 on the Delfland area

Co-Partners

Nelen & Schuurmans

Eneco

HydroLogic

HUMIQ
Advanced Software

vodafone

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