



Anwendertreffen Delft-FEWS

Aktuelle Entwicklungen

Aachen, 5. Juli 2016

Outline



- Graphical User Interface (GUI)
- Configuration
- IT architecture

Water Quality Samples



Waternet - Hydrobiologische gegevens (ontwikkelversie 22 Sep 2014) (Stand alone)

Bestand Extra Opties Help

5 : Data Viewer

Tijd	Monster ID	Locatie...	Medewerker analyse	Externe r...	Monster ...	X-coördi...	Y-coördi...	Projectco...	Bemonsteringsappa...	Bemonsteringsproto...	Medewer...	Bron	
28-07-2011 01:00:00	3220110895	BKP136	WP_ART_DUL	331411		119042	473715	VASTEWGP	x_Nog_niet_bekend	x_Nog_niet_bekend	WP_ART...	MAC	
31-08-2009 01:00:00	3120090248	PKH103	WP_PKO	270101	Wijde Blik 4	131728	470641	VASTECOL	macrofaunanet	SPV7030	WP_PKO	MAC	
21-09-2009 01:00:00	3120090278	PRH100	WP_PKO	269688	Polder De ...	121402	474741	VASTECOL	macrofaunanet	SPV7030	WP_PKO	MAC	
17-07-2006 01:00:00	2006827	SAP134	WP_EMI_NAT	STANKEV...	mp vegetati	133920	474910	KRWOM	Satakroon	AltenburgWymenga2...	WP_EMI ...	TAB	
07-09-2006 01:00:00	3420060225	PKH381	ATKB_PAT_RUT	20060379	20060379...	131416	471026		Elektrisch schepnet	STOWA_HB_vis	ATKB_PAT...	Visda	
27-10-2011 01:00:00	3320110139	SBP050	EBOKX	329278		132688	476023		Planktonnet	SPV7070	EBOKX	1489	
10-03-2008 00:00:00	2008392	SAP010	EBOKX	BRACHION...	mp zoopl	134170	475850	VASTECOL	x_Nog_niet_bekend	x_Nog_niet_bekend	EBOKX	TAB	
07-06-2006 01:00:00	3720060001	SBI100	KLINK	SL1		116187	486061		x_Nog_niet_bekend	klink_2006		199 t	
15-04-2010 01:00:00	3610041512	SAP010	WATERPROEF	298670	SAP010	134778	475612	KRWOM	x_Nog_niet_bekend	x_Nog_niet_bekend	WATERPR...	DIAT	
10-08-2012 01:00:00	3420120013	GHC106	ATKB_MAT_KOO	20120244	20120244...	125830	463698		Elektrisch schepnet	STOWA_HB_vis	ATKB_MA...	Visda	
10-08-2011 01:00:00	3520110060	MBP045	KenB_IB	322014	NVT	134395	464536		x_Nog_niet_bekend	x_Nog_niet_bekend	KenB_IB	FYTP	
09-08-2012 01:00:00	3420120094	ANG121	ATKB_JOC_HOP	20120244	20120244...	128079	474003		Elektrisch schepnet	STOWA_HB_vis	ATKB_JOC...	Visda	
18-06-2009 01:00:00	2009689	AVO150	WP_WIL_LEU	WATERPR...	mp vegeta...	131360	478000	VASTECOL	Hark	SPV7050A	WP_WIL ...	TAB	
25-08-2009 01:00:00	3520090200	MBP045		wqxe020	mp fytopl...	134395	464536	VASTECOL	x_Nog_niet_bekend	x_Nog_niet_bekend		fytoplz	
12-08-2008 01:00:00	3520080104	PKH020		AQS-01\...	E	224820	134075	470101	259313	x_Nog_niet_bekend	x_Nog_niet_bekend	AST	2593
14-04-2009 01:00:00	20091068	PMW052	EBOKX	BRACHION...	mp zoopl	136640	463830	VASTECOL	x_Nog_niet_bekend	x_Nog_niet_bekend	EBOKX	TAB	
04-10-2012 01:00:00	3420120210	SAP194	ATKB_MAT_KOO	20120244	20120244...	133875	475997		Zegen	STOWA_HB_vis	ATKB_MA...	Visda	
10-08-2012 01:00:00	3420120104	AAA106	ATKB_MAT_KOO	20120244	20120244...	127195	466764		Zegen	STOWA_HB_vis	ATKB_MA...	Visda	
05-09-2011 01:00:00	3120110098	NAP235	WP_CAS_ZUY	339817	NAP103	136297	478153		x_Nog_niet_bekend	SPV7030	WP_CAS...	1466	

6 : Logs

Onno van den Akker Huidige systeemtijd:01-01-2013 00:00 MET 18:32:40 CET Stand alone -38214 , 339018 0.0 MB/s 96 MB

5 : Data Viewer

Vissoort NL

- Abramis brama
- Alburnus alburnus
- Anguilla anguilla
- Blicca bjoerkna
- Ciliata
- Cobitis taenia
- Cottus gobio
- Cyprinus carpio
- Esox lucius
- Gasterosteus aculeatus
- Gobio gobio
- Gymnocephalus cernuus
- Leuciscus delineatus

6 : Logs

Sibren Loos Huidige systeemtijd:16-07-2012 01:00 MEST 16:03:43 CET Stand alone -144266 , 342185 0.0 MB/s 104 MB

Graphs Spatial Display Run Task Monsters

6 : Logs

Graphs Spatial Display Run Task Samples (hydrobiology)

217
200
188
178
155
118
95
72
56
35
18
1

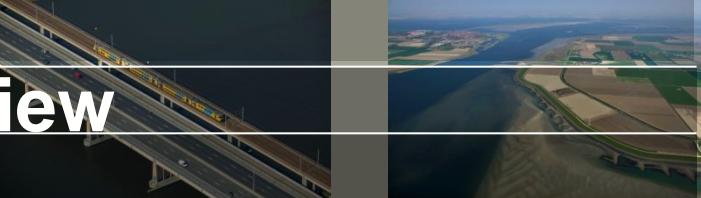
01-05-2012 00:00:00 01-08-2012 00:00:00 01-11-2012 00:00:00

TimeSeriesDisplay – Day/Week/Month view



- Besides ‘normal’ TimeSeriesDisplay Table View also ordered by
 - Day
 - Week
 - Month
- View period updated after time adjustments in chart;
- (Time) Navigation buttons will update view period;
- All statistics also work for the new views.

TimeSeriesDisplay – Normal view



BOS Regge en Dinkel (versie 1.10, 15 januari 2007) (Operator Client)

File Tools Options Help

Data Viewer

Overzicht
Waterstanden
Neerslag
Meetlocaties
Deelgebieden

Validation Ctrl+Shift+J
Users Ctrl+Shift+K
Comments Ctrl+Shift+L

Units

Location Ids Ctrl+Alt+Shift+L
Modules Ctrl+Shift+M

Normal Ctrl+Alt+N
Days Ctrl+Alt+D
Weeks Ctrl+Alt+W
Months Ctrl+Alt+M

Gemeten waterstand
Gesimuleerde voorspelde waters

Logs

```
12-06-2014 14:34:14 INFO - SynchManager has been created for profile Full
12-06-2014 14:34:14 INFO - Login.Finished: Successfully logged in to Master Controller: RDREMC00, Session ID RDREMC00:000156737
12-06-2014 14:34:13 INFO - Login.Started: Login to Master Controller
12-06-2014 14:33:52 INFO - Rolling barrel completed in 0.8 s
12-06-2014 14:33:51 INFO - Rolling barrel started
12-06-2014 14:33:51 INFO - Retrieving configuration from system resources.
12-06-2014 14:33:49 INFO - Application.Startup.Finished: The application finished starting up. (26)
12-06-2014 14:33:49 INFO - Gui.Initialized: Graphical user interface initialized.
```

6 : Logs

Current system time: 12-06-2014 14:00 (GMT+1) 15:38:40 CEST RDREMC00 193747, 450444 75 MB

Date	Water Level
30-05-2014 05:40:00	7.288
30-05-2014 06:00:00	7.287
30-05-2014 06:20:00	7.286
30-05-2014 06:40:00	7.285
30-05-2014 07:00:00	7.282
30-05-2014 07:20:00	7.280

Map Graph X

TimeSeriesDisplay – Day view

BOS Regge en Dinkel (versie 1.10, 15 januari 2007) (Operator Client)

File Tools Options Help

Data Viewer

Overzichten
Waterstanden
Neerslag
Meetstations
Deelgebieden

5 : Data Viewer

Date	29-05-2014	30-05-2014	31-05-2014	01-06-2014	02-06-2014	03-06-2014	04-06-2014	05-06-2014	06-06-2014	07-06-2014	08-06-2014	09-06-2014	10-06-2014	11-06-2014	12-06-2014
Day	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
10:00:00	7.285	7.251	7.289	7.310	7.301	7.310	7.294	7.318	7.242	7.270	7.273	7.273	7.280	7.278	7.278
10:40:00	7.278	7.243	7.298	7.299	7.306	7.311	7.294	7.322	7.254	7.273	7.267	7.279	7.280	7.280	7.280
11:00:00	7.265	7.235	7.306	7.286	7.310	7.312	7.294	7.322	7.276	7.279	7.264	7.280	7.279	7.280	7.280
11:20:00	7.255	7.227	7.313	7.277	7.314	7.312	7.294	7.313	7.306	7.280	7.267	7.276	7.278	7.278	7.278
11:40:00	7.246	7.219	7.318	7.274	7.318	7.312	7.293	7.303	7.339	7.277	7.275	7.270	7.279	7.278	7.278
12:00:00	7.239	7.217	7.309	7.275	7.319	7.312	7.293	7.293	7.363	7.272	7.280	7.269	7.281	7.280	7.280
12:20:00	7.230	7.275	7.292	7.282	7.315	7.312	7.293	7.285	7.373	7.271	7.280	7.275	7.286	7.281	7.281
12:40:00	7.222	7.338	7.271	7.289	7.309	7.312	7.293	7.279	7.365	7.276	7.277	7.279	7.289	7.283	7.283
13:00:00	7.215	7.397	7.262	7.296	7.303	7.311	7.292	7.277	7.339	7.280	7.274	7.279	7.280	7.285	7.285
13:20:00	7.208	7.418	7.261	7.303	7.298	7.309	7.290	7.280	7.302	7.279	7.276	7.274	7.266	7.286	7.286
14:00:00	7.201	7.409	7.269	7.306	7.293	7.305	7.286	7.285	7.264	7.276	7.279	7.273	7.260	7.288	7.288
14:20:00	7.195	7.369	7.283	7.309	7.282	7.300	7.273	7.290	7.240	7.273	7.280	7.274	7.265	7.289	7.289
14:40:00	7.191	7.326	7.296	7.304	7.265	7.296	7.261	7.297	7.231	7.276	7.278	7.279	7.276	7.290	7.290
14:40:00	7.213	7.293	7.307	7.292	7.257	7.293	7.253	7.302	7.234	7.279	7.274	7.280	7.279	7.292	7.292
15:00:00	7.262	7.271	7.317	7.281	7.256	7.291	7.248	7.306	7.245	7.279	7.271	7.281	7.275	7.293	7.293
15:20:00	7.317	7.261	7.320	7.276	7.260	7.289	7.244	7.311	7.259	7.274	7.270	7.275	7.268	7.293	7.293
15:40:00	7.364	7.262	7.316	7.274	7.269	7.288	7.240	7.314	7.274	7.272	7.272	7.275	7.263	7.294	7.294
16:00:00	7.391	7.274	7.307	7.277	7.279	7.287	7.239	7.316	7.289	7.272	7.277	7.285	7.267	7.294	7.294
16:20:00	7.395	7.289	7.299	7.285	7.292	7.287	7.259	7.314	7.304	7.278	7.280	7.281	7.277	7.294	7.294
16:40:00	7.379	7.303	7.291	7.294	7.311	7.287	7.292	7.307	7.321	7.279	7.279	7.270	7.279	7.295	7.295
17:00:00	7.345	7.314	7.285	7.306	7.337	7.286	7.324	7.301	7.334	7.278	7.275	7.250	7.277	7.295	7.295
17:20:00	7.313	7.321	7.281	7.320	7.360	7.286	7.347	7.295	7.341	7.273	7.272	7.232	7.273	7.287	7.287
17:40:00	7.287	7.323	7.283	7.333	7.369	7.286	7.359	7.292	7.342	7.272	7.273	7.199	7.272	7.279	7.279
18:00:00	7.263	7.321	7.287	7.338	7.363	7.286	7.355	7.288	7.336	7.275	7.277	7.187	7.278	7.269	7.269
18:20:00	7.245	7.314	7.294	7.337	7.342	7.287	7.333	7.283	7.323	7.281	7.280	7.188	7.280	7.269	7.269
18:40:00	7.239	7.305	7.296	7.328	7.316	7.287	7.305	7.272	7.310	7.288	7.279	7.191	7.277	7.273	7.273
19:00:00	7.241	7.297	7.288	7.313	7.290	7.287	7.280	7.263	7.299	7.295	7.275	7.194	7.272	7.280	7.280
19:20:00	7.254	7.289	7.271	7.298	7.268	7.287	7.262	7.262	7.289	7.302	7.274	7.197	7.268	7.280	7.280
19:40:00	7.272	7.261	7.281	7.286	7.275	7.248	7.288	7.250	7.276	7.282	7.306	7.274	7.205	7.268	7.276
20:00:00	7.290	7.278	7.261	7.275	7.275	7.248	7.288	7.250	7.276	7.282	7.306	7.274	7.205	7.268	7.276
20:20:00	7.305	7.272	7.284	7.271	7.242	7.289	7.250	7.344	7.281	7.314	7.280	7.249	7.275	7.274	7.274
20:40:00	7.318	7.265	7.324	7.273	7.255	7.289	7.257	7.376	7.280	7.317	7.279	7.285	7.280	7.279	7.279
21:00:00	7.274	7.263	7.351	7.270	7.268	7.289	7.266	7.390	7.280	7.317	7.276	7.326	7.279	7.279	7.279
21:20:00	7.326	7.271	7.362	7.289	7.283	7.289	7.275	7.381	7.278	7.317	7.275	7.360	7.277	7.277	7.277
21:40:00	7.326	7.285	7.359	7.298	7.287	7.290	7.284	7.346	7.279	7.317	7.277	7.380	7.278	7.273	7.273
22:00:00	7.322	7.299	7.342	7.305	7.276	7.290	7.292	7.303	7.279	7.317	7.280	7.380	7.280	7.275	7.275
22:20:00	7.314	7.312	7.315	7.311	7.260	7.291	7.301	7.260	7.278	7.318	7.279	7.360	7.279	7.282	7.282
22:40:00	7.306	7.314	7.290	7.317	7.249	7.291	7.312	7.230	7.279	7.318	7.275	7.330	7.279	7.289	7.289
23:00:00	7.298	7.294	7.272	7.316	7.249	7.291	7.325	7.220	7.279	7.319	7.271	7.281	7.276	7.296	7.296
23:20:00	7.290	7.272	7.264	7.306	7.257	7.292	7.336	7.226	7.278	7.320	7.268	7.244	7.277	7.303	7.303

H.meting 023-Verdeelwerk Vroomshoop Zwolskekanaal boven ST_08_0.07_boven ImportATIS

Map Graph X

Logs

```
12-06-2014 14:34:14 INFO - SyncManager has been created for profile Full
12-06-2014 14:34:14 INFO - Login.Finished: Successfully logged in to Master Controller: RDREMC00. Session ID RDREMC00:000156737
12-06-2014 14:34:13 INFO - Login.Started: Login to Master Controller
12-06-2014 14:33:52 INFO - Rolling barrel completed in 0.8 s
12-06-2014 14:33:51 INFO - Rolling barrel started
12-06-2014 14:33:50 INFO - Retrieving configuration from system resources.
12-06-2014 14:33:49 INFO - Application.Startup.Finished: The application finished starting up. (26s)
12-06-2014 14:33:49 INFO - Gui.Initialized: Graphical user interface initialized.
```

6 : Logs

Current system time: 12-06-2014 14:00 (GMT+1)

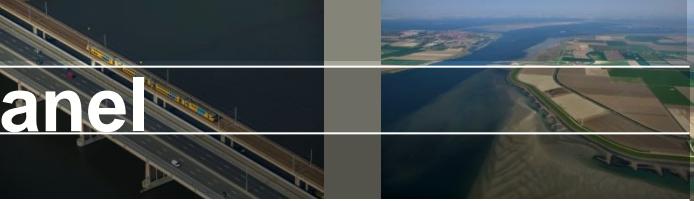
15:39:14 CEST

RDREMC00

193747 , 450444

75 MB

TimeSeriesDisplay – ButtonsPanel



The screenshot displays the BPA-HERMES Data Management Framework (Stand alone) interface, featuring several windows and toolbars:

- Top Bar:** File, Tools, Options, Help.
- Left Sidebar:** Forecasts, Data Preparation, Real-Time, RTC Tools, Reports, Short Term, Data Viewer, Forecast Notes, Logs.
- Central Area:**
 - Forecasts Window:** Shows a grid of data for 'TW_Obs (FT)', 'FB_Obs (FT)', and 'FB_Sim (FT)' across various locations like Grand Coulee, GCL, etc., with time steps from 11-08-2013 03:00:00 to 11-10-2013 06:00:00.
 - Buttons Window:** A grid of buttons for RTC, RW, BLK, GCL, CHJ, MidC, LWG, LGS, LMN, IHR, MCN, JDA, TDA, BON, ALL, BPA, and LoadAdj.
 - 3 : Thumbnails and 4 : Buttons:** Two panels showing historical data trends.
- Bottom Bar:** Map, Data, Forecast Management, System Monitor, Log, Current system time: 11-13-2013 03:00 PST, Forecast length: 4, edit run options, Ivo Mitenburg, Aachen, 5. Juli 2016, 14:31:56 GMT, 16:31:56 CEST, Stand alone, -131.502, 41.409, EN, 53 MB, 16:31.

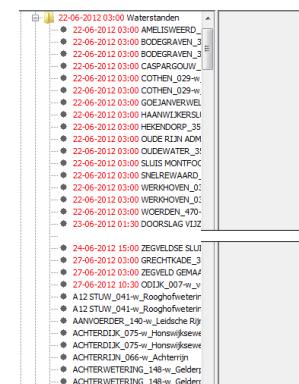
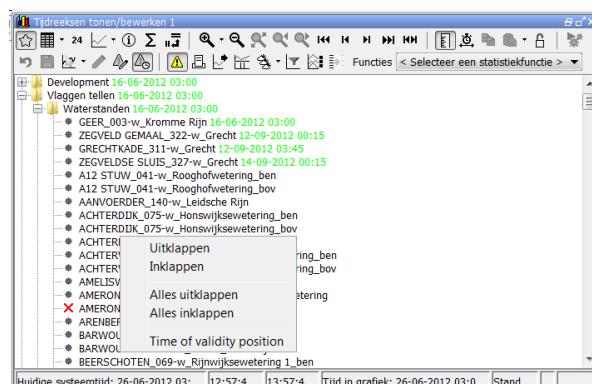
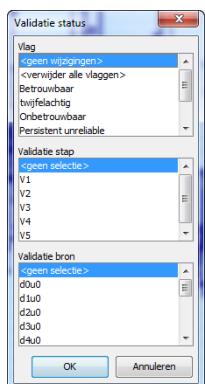
Validation Status



- Supports the users in their specific validation practices and allow the users to confirm that the data has been adequately validated;
- Validation practices: sequence of validation steps (prim/sec validation);
- Validation Status keeps track on the order and output of those steps;
- Validation Status may prevent data to be used in data-operations

The screenshot shows a software interface with a toolbar at the top and a main panel below. The main panel displays a table with columns labeled V1 through V7. Each row contains data values and validation status indicators (OK or NOK). A legend on the right defines the colors: green for OK, yellow for warning, and red for error.

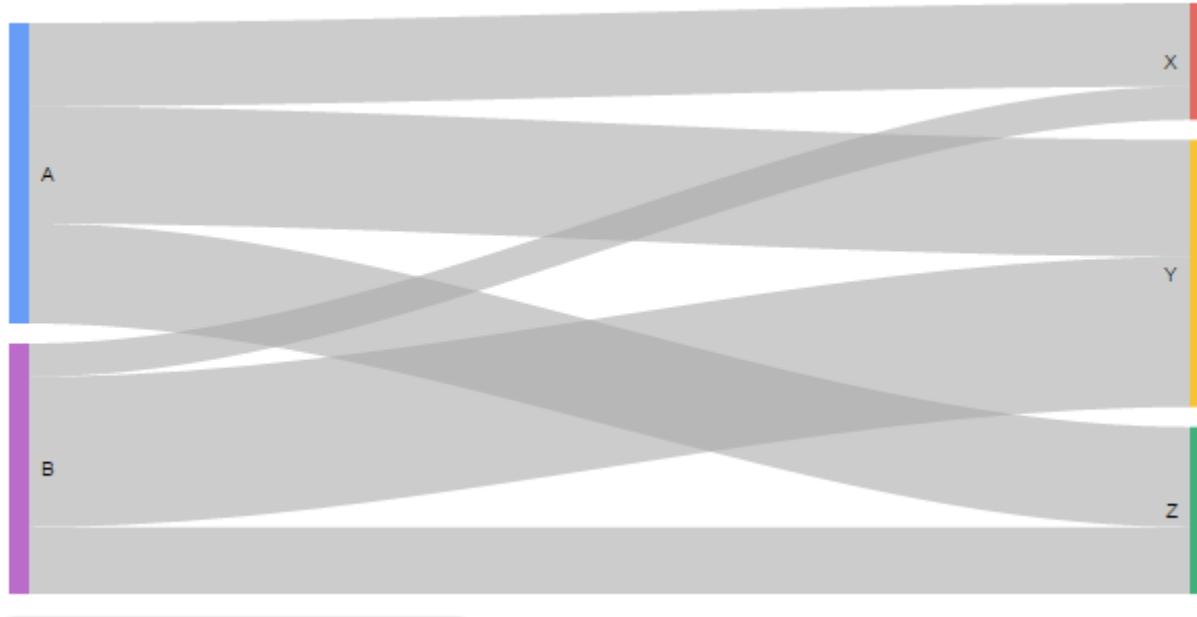
	V1	V2	V3	V4	V5	V6	V7
25-06-2012 17:15	0.593	OK	OK				
25-06-2012 17:30	0.590	OK	OK				
25-06-2012 17:45	0.581	OK					



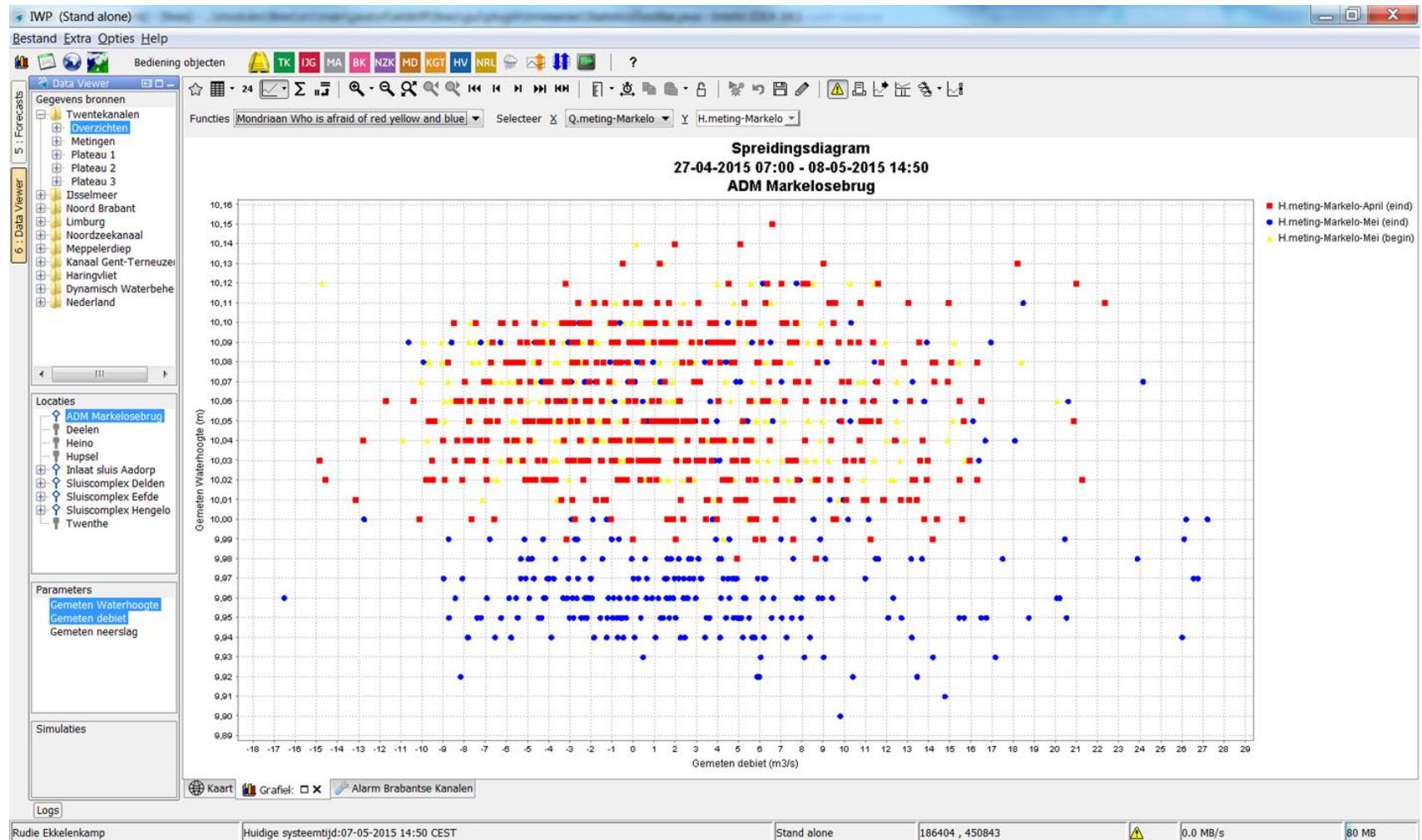
Sankey Diagram in SSD



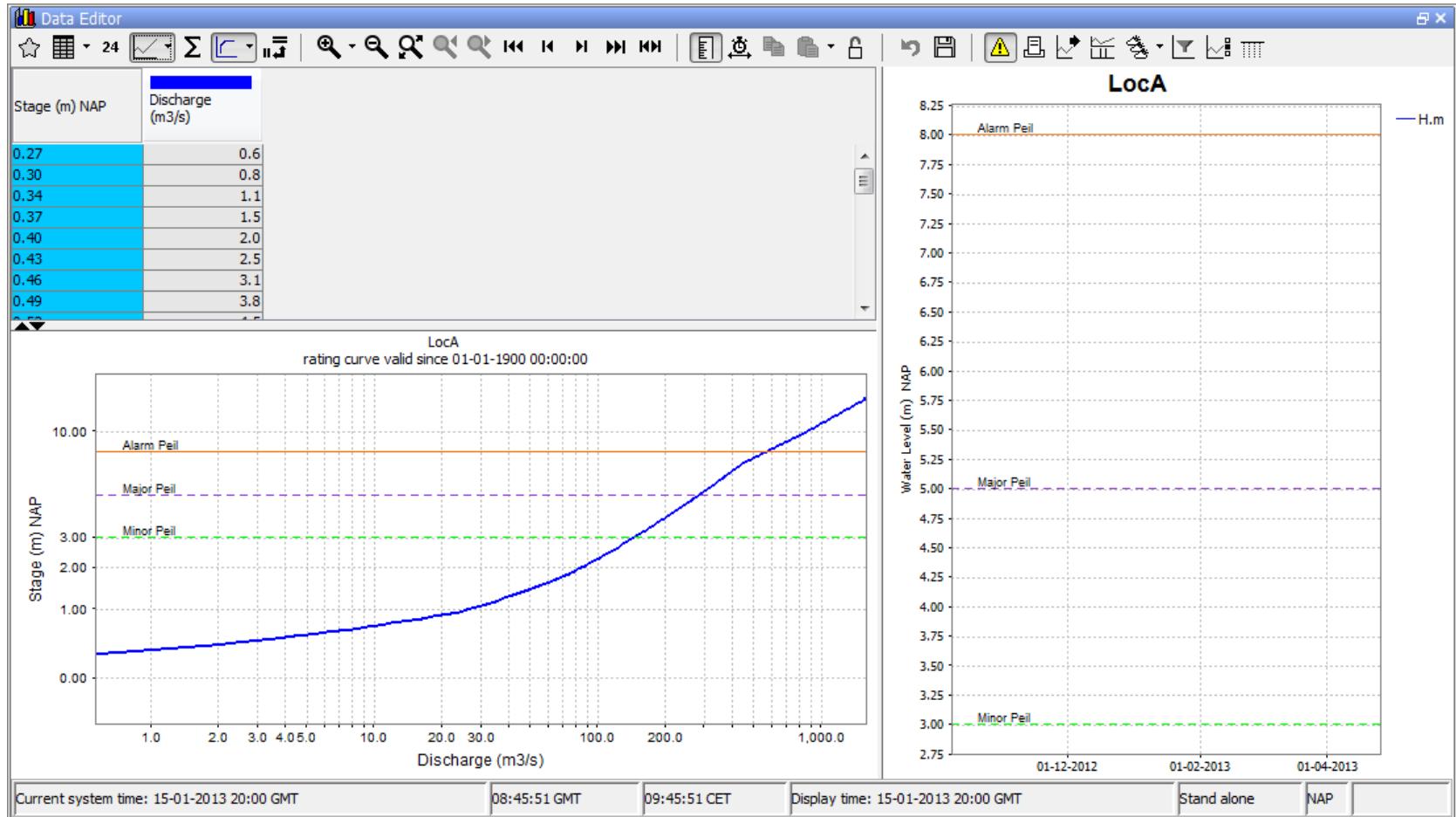
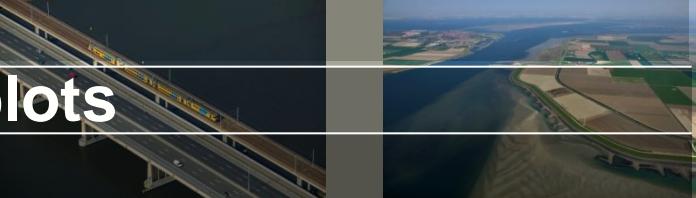
to visualize flows and their magnitude through the reservoir system ...



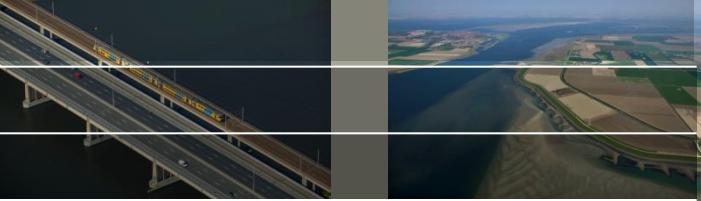
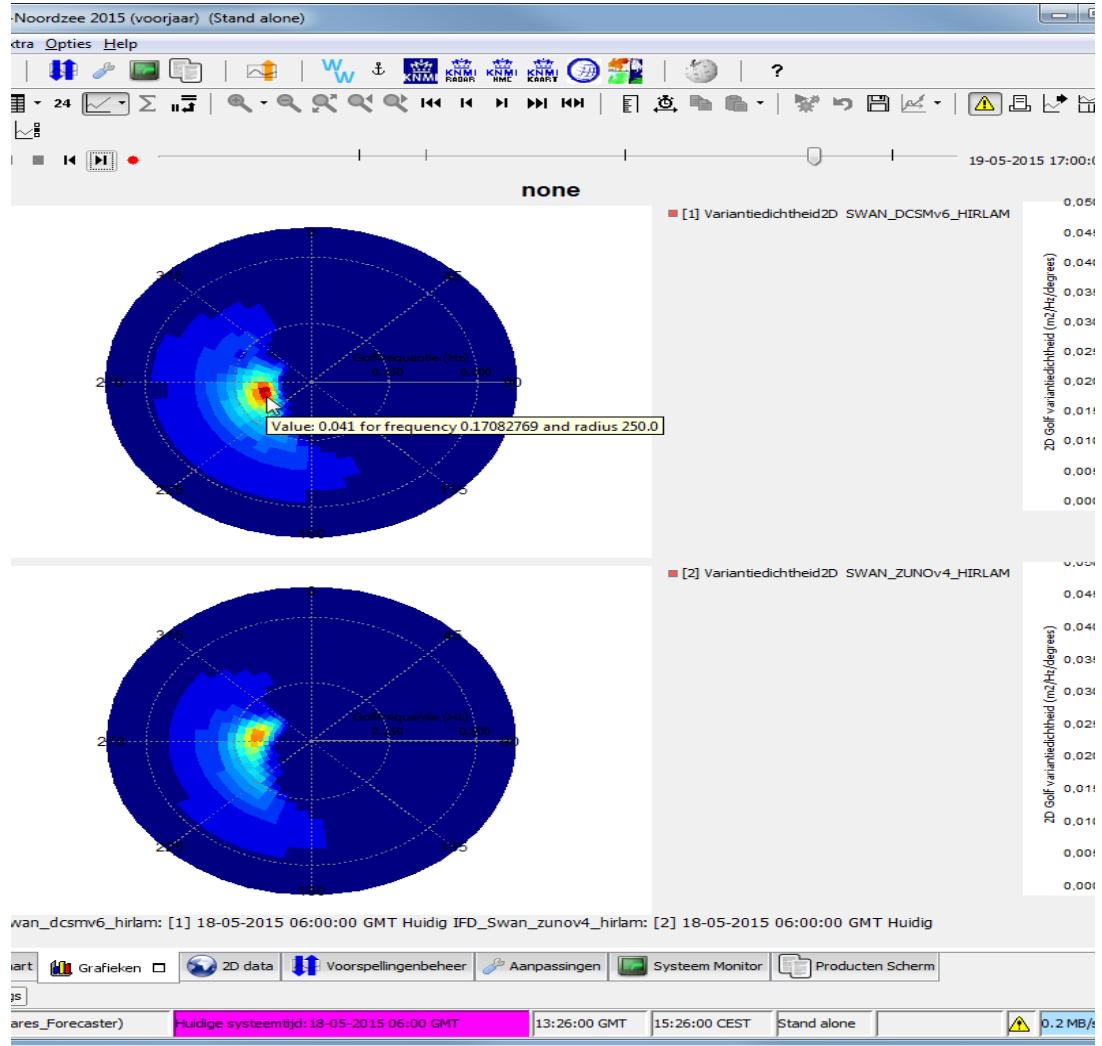
TimeSeries Display – Scatter plot coloured periods



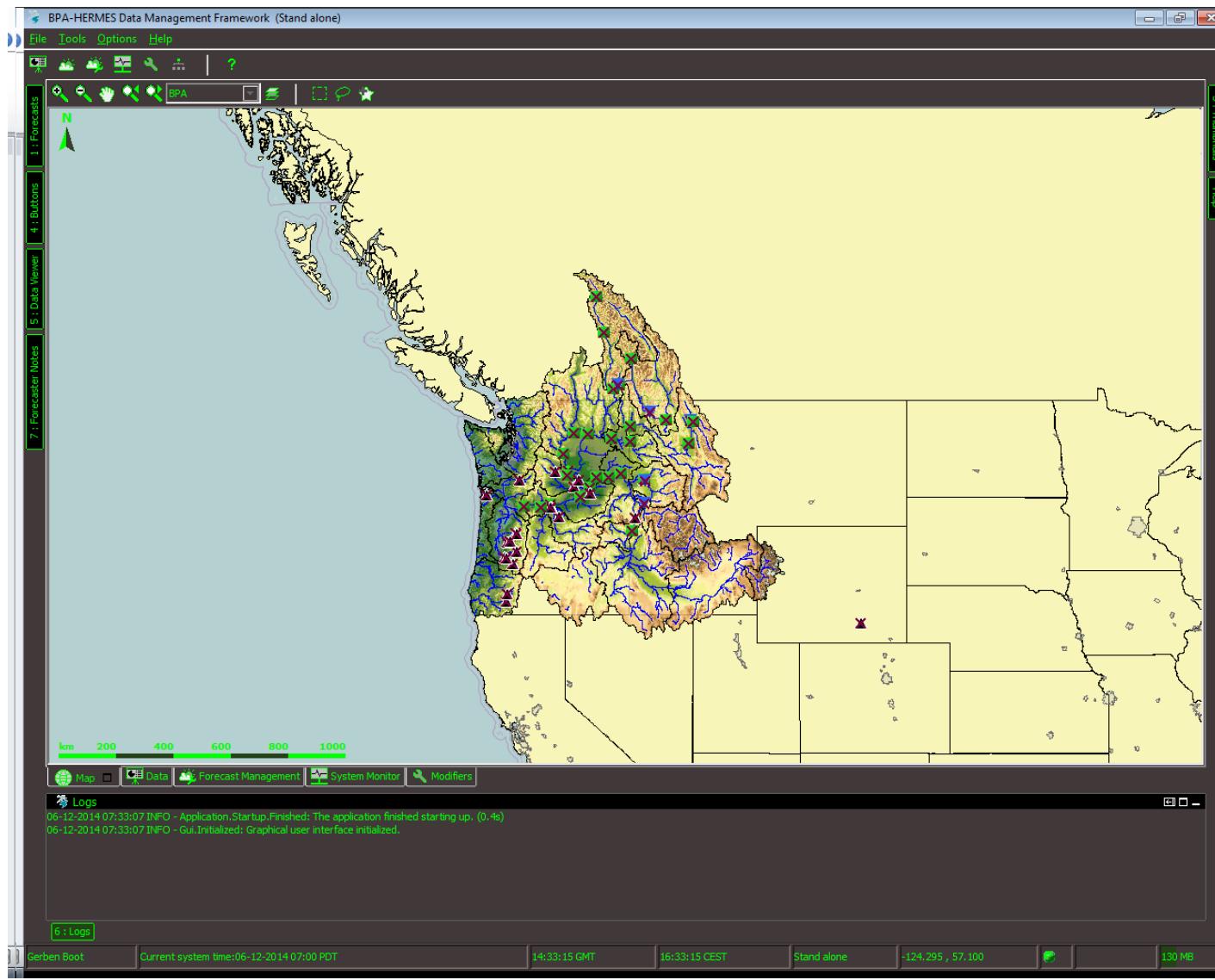
TimeSeries Display – rating curve plots



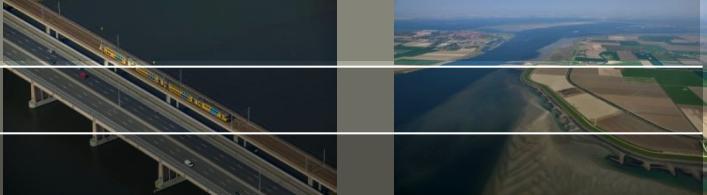
2D Spectra Data



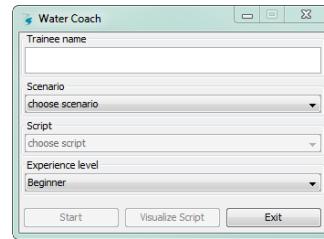
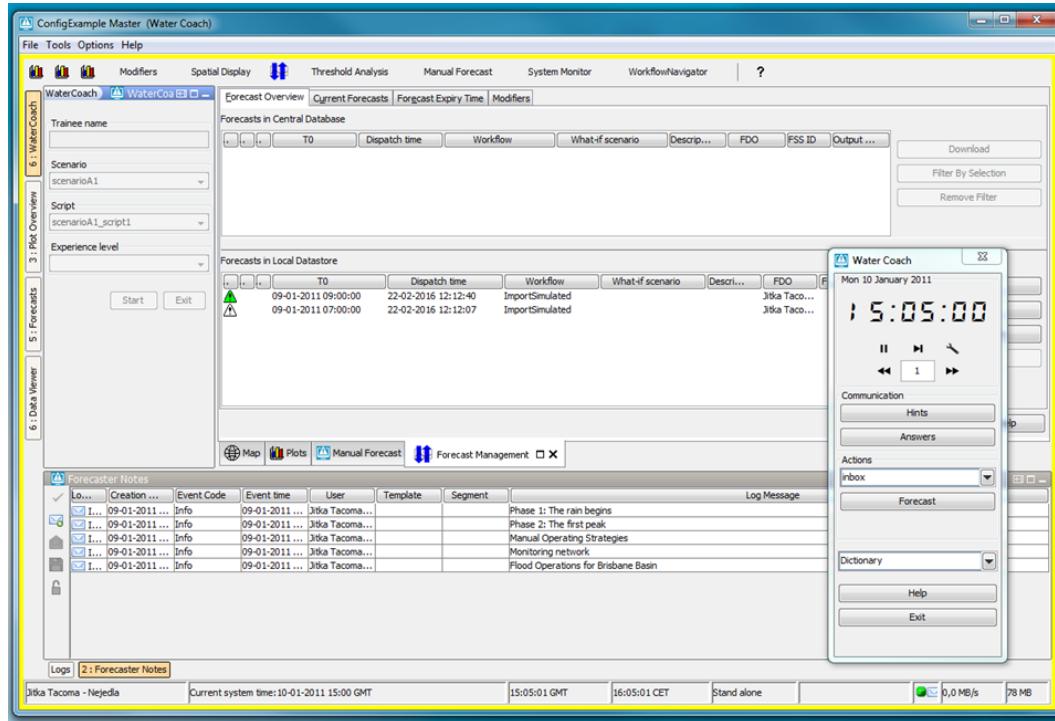
Explorer – Color Schemes



Embedded Water Coach



Water Coach Training tool now embedded in Delft-FEWS



Outline



- Graphical User Interface (GUI)
- Configuration
- IT architecture

Outline



- Use of location constraints to filter locationSet in General Adapter
- Run a workflow for complete locationSet using ‘looping’ principle
- Loop in DisplayGroups to generate similar sets of graphs easily
- Configuration Template ‘tokens’ (key-value) pairs to replace e.g. moduleInstanceId, locationId, parameterId, timestepId

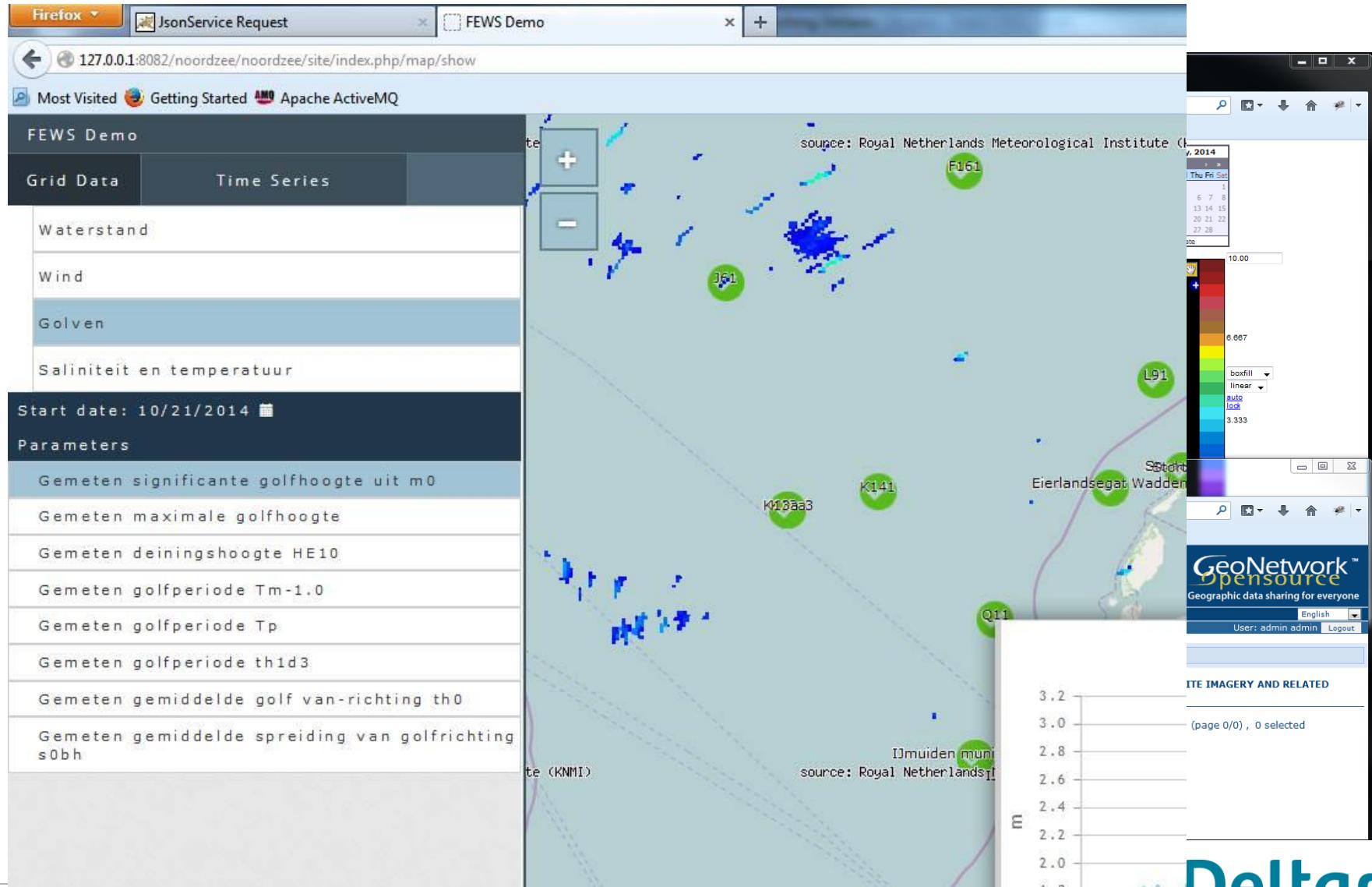
```
<timeSeriesSet>
    <moduleInstanceId>import</moduleInstanceId>
    <valueType>scalar</valueType>
    <parameterId>H.obs</parameterId>
    <locationId>H-2001</locationId>
    <timeSeriesType>$TIME_SERIES_TYPE$</timeSeriesType>
    <timestep unit="day"/>
    <relativeViewPeriod unit="day" start="$START_DAYS$" end="1"/>
    <readWriteMode>read only</readWriteMode>
</timeSeriesSet>
```

Outline



- Graphical User Interface (GUI)
- Configuration
- IT architecture

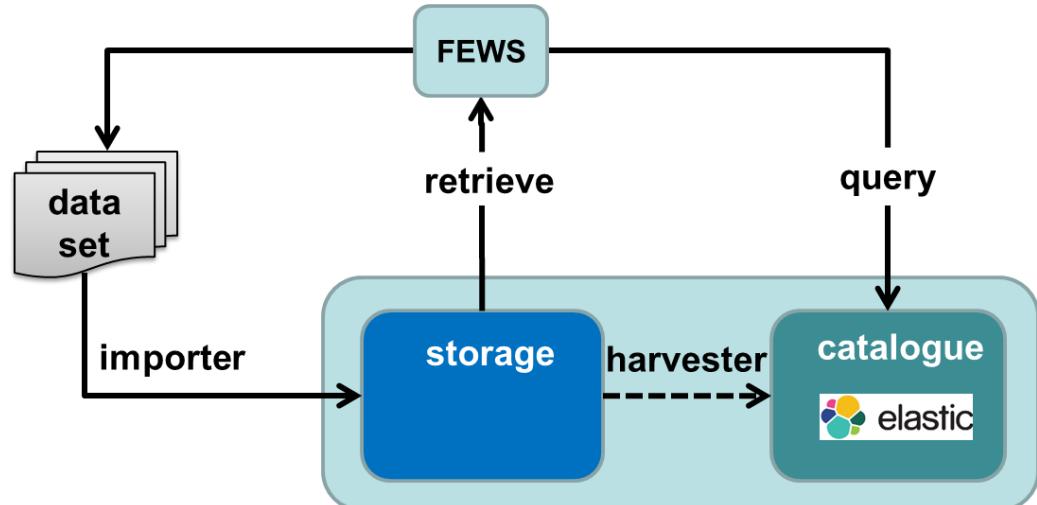
Webservices etc ...



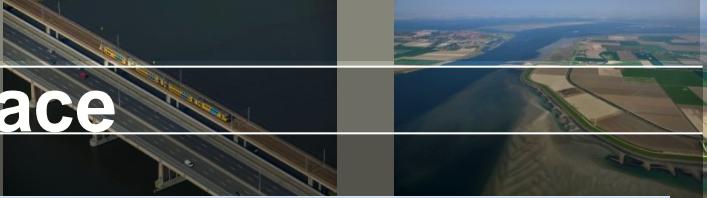
Open Data Archive



- Open (readable);
- Accessible;
- Queryable (metadata);
- OPeNDAP / NetCDF based;
- Thredds and GeoNetwork (technology);
- FEWS is **one** client which can connect'
 - Production of Archives;
 - Querying/downloading;
 - Event 'tagging'
- Web client



Trend Analysis – Admin Interface



Deltarès

Enabling Delta Life



Delft Hydraulics

Delft FEWS - Regge MC00

Main menu

- » System Status
- » Files
- » Forecast Tasks
- » Workflows and FSSs
- » User Administration
- » System Control
- » Database Analysis
- » Database Trends
- » Time Series
- » Time Series with Multiple SynchLevels
- » Warm States
- » Cold States
- » Map Layers
- » Module Instance Data Sets
- » Module Instance Configurations

Running on RDREMC00

Logged on as ADMIN
» Log Off

Database Analysis

Database Trends

Custom Period

Date from

Date to

Number of rows (records) added to the database

element	total	custom period	last year	last 6 months	last 2 months	last month	last two weeks	7 days ago	6 days ago
All (*)	66155	66155	66134	50276	44748	40993	31847	2264	1642
TimeSeries	28362	28362	28362	20546	17663	16398	10808	598	127
ThresholdEvents	14206	14206	14206	6166	3524	1987	437	7	0
SystemStatusDigests	10412	10412	10412	10412	10412	10412	10412	1437	1299
LogEntries	7350	7350	7350	7350	7350	7350	7311	1	18
RecordsPendingUpdateExpiry	2892	2892	2892	2892	2892	1939	0	0	0
TaskRuns	1678	1678	1678	1678	1678	1678	1668	209	190
Reports	1128	1128	1128	1128	1128	1128	1128	0	0
Tasks	72	72	63	61	59	59	57	11	8

Trend Analysis – Admin Interface



How many records (and bytes) have been added to the database?

1. Number of records added to relevant database tables since 1 year, x-number of months, weeks, days...
2. Estimate of memory usage of relevant database tables since 1 year, x-number of months, weeks, days...

How many records (and bytes) will be removed (shortly)?

3. Number of records which will be removed from relevant database tables within x-number of days, weeks, months, 1 year...
4. Estimate of memory to become available in relevant database tables within x-number of days, weeks, months, 1 year...

Option to configure a custom period

Trend Analysis – Admin Interface

Number of rows (records) added to the database

<u>element</u>	<u>total</u>	<u>custom period</u>	<u>last year</u>	<u>last 6 months</u>	<u>last 2 months</u>	<u>last month</u>	<u>last two weeks</u>	<u>7 days ago</u>	<u>6 days ago</u>
All (*)	66155	66155	66134	50276	44748	40993	31847	2284	1642
TimeSeries	28362	28362	28362	20546	17663	16398	10808	598	127
ThresholdEvents	14206	14206	14206	6166	3524	1987	437	7	0
SystemStatusDigests	10412	10412	10412	10412	10412	10412	10412	1437	1299
LogEntries	7350	7350	7350	7350	7350	7350	7311	1	18
RecordsPendingUpdateExpiry	2892	2892	2892	2892	2892	1939	0	0	0
TaskRuns	1678	1678	1678	1678	1678	1678	1668	209	190
Reports	1128	1128	1128	1128	1128	1128	1128	0	0
Tasks	72	72	63	61	59	59	57	11	8

Number of rows (records) expiring from the database

<u>element</u>	<u>total</u>	<u>custom period</u>	<u>today</u>	<u>tomorrow</u>	<u>3rd day</u>	<u>4th day</u>	<u>5th day</u>	<u>6th day</u>	<u>7th day</u>	<u>within two weeks</u>
All (*)	66155	66108	3293	4467	4389	7218	3803	969	6	31637
TimeSeries	28362	28362	711	2214	2628	1246	81	18	6	10620
ThresholdEvents	14206	14206	30	67	96	85	77	32	0	435
SystemStatusDigests	10412	10390	1563	1439	1435	1438	1308	0	0	10390
LogEntries	7350	7339	3	5	5	4225	2140	919	0	7316
RecordsPendingUpdateExpiry	2892	2892	0	0	0	0	0	0	0	0
TaskRuns	1678	1678	231	351	211	209	189	0	0	1664
Reports	1128	1128	752	376	0	0	0	0	0	1128
Tasks	72	58	3	10	9	12	8	0	0	57

Admin Interface with FSS groups



Grouping of Forecasting Shell Servers (FSS)

- Windows
- Linux
- Model X (licensed)
- Model Y (disk space)

Map workflow to FSS Group

- through webpage (Admin Interface)
- upload from file
- download mappings for editing

Main menu

- > System Status
- > Files
- > Forecast Tasks
- > Workflows and FSSs
 - > Workflows
 - > Create Workflow FSS Mappings
 - > FSS Groups
 - > Forecast Shell Servers
 - > Event and Action Configuration
 - > Event Action Mappings
 - > User Administration
 - > System Control
 - > Database Analysis
- > Running on SEPAMC00
- > Logged on as ADMIN
- > Log Off

Workflows and FSSs

Create Workflow FSS Mapping

Workflow ID: -- please select --

FSS ID: -- please select --
Windows
Linux
Model1
[all]
FS00
FS01
[System Reporter]
[Synchroniser]

Scheduling Options:

- please select --
[all simultaneous]
[all staggered]
[all one-at-a-time]
[all most-recent-only]

Submit Cancel

Map to Groups:

Map all un-mapped workflows to FSS:
-- please select --
Windows
Linux
Model1
*all

Admin Interface with FSS groups (2)



Delft FEWS - Scotland

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Workflows and FSSs

Workflow FSS Mapping Matrix

Workflow ID	Run Options	Linux	Windows	Model 1	FSS01	FSS02	FSS03	FSS04	FSS05	FSS06	FSS07	FSS08	FSS09	FSS10	FSS11	FSS12
AireFlow_FastResponse_Forecast		X			X	X										
AireFlow_SlowResponse_Forecast		X												X	X	
ArchiveForecast																
Archive_Configuration																
Archive_Forecast																
Archive_LogEntries	*all				X	X	X	X	X	X	X	X	X	X	X	X
Archive_Scheduled																
Archive_Thresholds																
Archive_TimeSeries																
CalderFlow_FastResponse_Forecast																
CalderFlow_SlowResponse_Forecast																
Database_Maintenance																
DerwentFlow_FastResponse_Forecast																
DerwentFlow_SlowResponse_Forecast																
DonFlow_FastResponse_Forecast																
DonFlow_SlowResponse_Forecast																
Historical_Aire_Lower																
Historical_Aire_Upper																
Historical_Derwent																
Historical_Don																
Historical_Don_Reservoirs																
Historical_Gauless																
Historical_Ouse																
Historical_Swale																
Historical_Tees																
Historical_Tyne_Ouseburn																
Import_Archive_Forecast																
Import_Archive_Thresholds																
Import_Archive_TimeSeries																
Manual_18hr_OuseTidal_Forecast																

Security & Traceability Improvements



- Traceability of changes in application
- Replace Jboss 4 with new component
- Connect with Https also for ActiveMQ
- Traceability changes scheduling Admin Interface





From Delft-FEWS2020 vision document aiming at:

- Delft-FEWS in the cloud(s)
- Simplify install and upgrade
- Scalability (of FSSs)
- Improve and extend (PI) Webservices
- Continue improving seamless integration also with open archive (grids)
- Configurable ‘dashboard’ (multiple existing FEWS displays in one overview)
- Much more...