12 Thresholds Display and TRITON Display

Thresholds Display & TRITON Display

Information about thresholds crossings is of prime importance in a forecasting system. If and when a threshold crossing occurs, a log message is generated and the location icon is updated in the FEWS Explorer. The log message can be viewed in the system monitor and in reports.

The Thresholds display provides an additional means to view and analyse threshold crossings. The module provides a number of different ways to obtain an overview of all threshold crossings. The TRITON display is a specific version of the Threshold display.

For a selected forecast, the Thresholds display presents information in three different views:

- *Threshold status view*
  A general overview of thresholds, for a group of location and individual locations. Multiple threshold status views may be configured, for example to view the threshold status over a certain length of time, at precise times or per hour.

- *Alarm summary view*
  The Alarm summary view presents a table of all threshold crossings.

- *Site data view*
  For a selected time series the Site data view will present any number of time series that may be of importance

### Selecting a Workflow for Display

The workflow for which data should be displayed in the Threshold display can be selected at the top of the screen. Place your cursor on the workflow you would like to display and click [Open]. The selected workflow is shown in bold above the tabs.
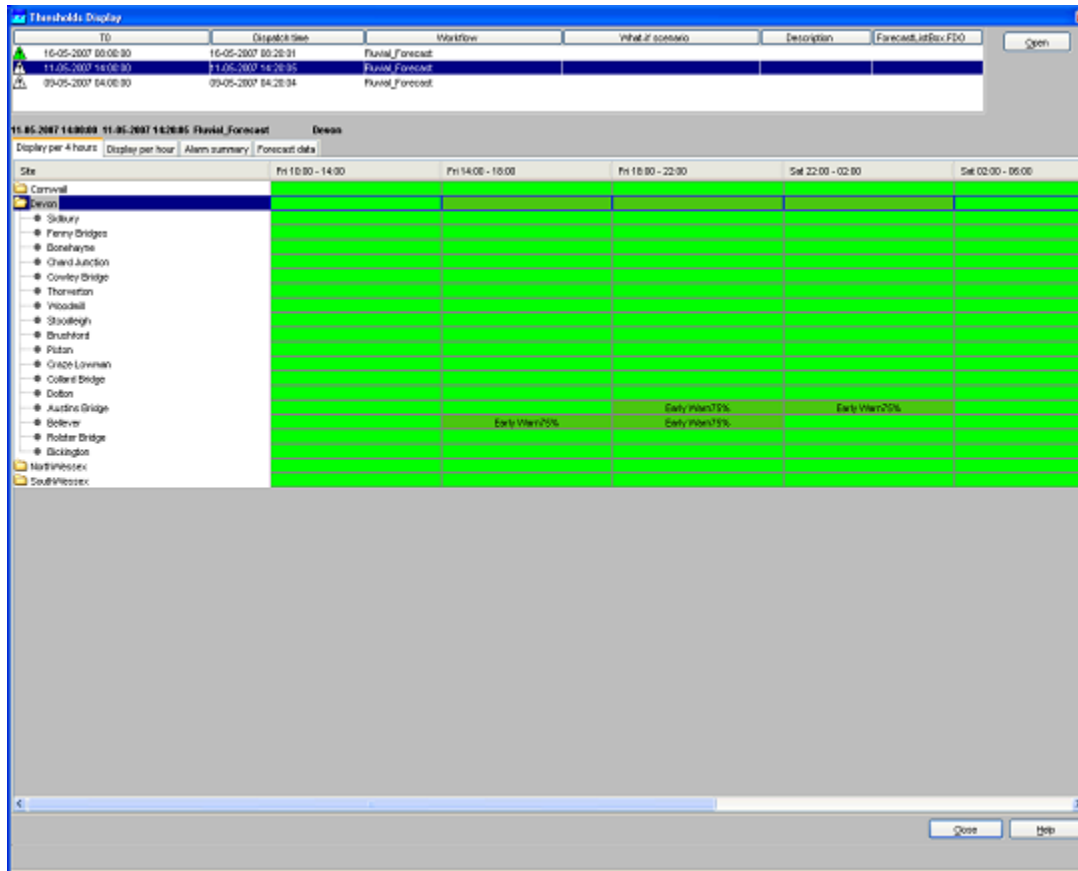
Threshold Status View

The threshold status view can be configured to display the threshold status of any number of time series over a period of time. Examples of frequently used settings are:

- For coastal forecasting the threshold status at high tide. The input data is non-equidistant and all values are shown. See the example below, where Triton results are shown at high tide.
- For coastal forecasting the threshold status per hour. This shows how the threshold status develops in a 24 hour period over successive high tides.
- For fluvial forecasting over any duration. The example given provides an overview over 4 hour durations.
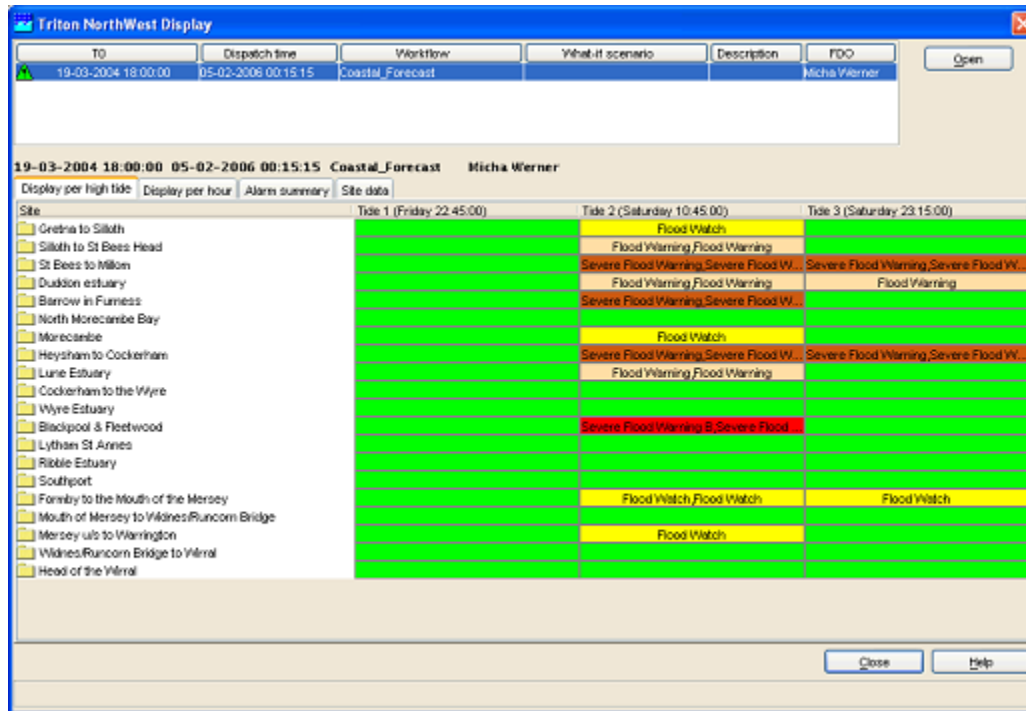
Coastal forecasting example: thresholds at high tides

Coastal forecasting example: thresholds per hour. High tide as in the previous example is at 10:45.

Fluvial forecasting example: threshold status over a 4 hour period

Alarm Summary View

The alarm summary view will present a table of all alarms for the selection of location(s) made in the Threshold Status View.

T0	Dispatch time	Workflow	What-if scenario	Description	FDO	Open
19-03-2004 18:00:00	05-02-2006 00:15:15	Coastal_Forecast			Micha Werner	

19-03-2004 18:00:00 05-02-2006 00:15:15 Coastal_Forecast   Micha Werner   Whitehaven

Display per high tide | Display per hour | Alarm summary | Site data

Location Id	Location name	Nearshore Site Ti...	Parameter	Value	Threshold value	Threshold	Action
NW_SI_N2_3	Whitehaven	20-03-2004 11:45:00	Peak Overtopping Ra...	0.293	0.200	Flood Warning	
NW_SI_N2_3	Whitehaven	20-03-2004 11:30:00	Mean Overtopping R...	0.000	0.000	Flood Warning	
NW_SI_N2_3	Whitehaven	20-03-2004 11:30:00	Peak Overtopping Ra...	0.900	0.200	Flood Warning	
NW_SI_N2_3	Whitehaven	20-03-2004 11:15:00	Peak Overtopping Ra...	1.283	0.200	Flood Warning	
NW_SI_N2_3	Whitehaven	20-03-2004 11:15:00	Mean Overtopping R...	0.000	0.000	Flood Warning	
NW_SI_N2_3	Whitehaven	20-03-2004 11:00:00	Peak Overtopping Ra...	1.247	0.200	Flood Warning	
NW_SI_N2_3	Whitehaven	20-03-2004 11:00:00	Mean Overtopping R...	0.000	0.000	Flood Warning	
NW_SI_N2_3	Whitehaven	20-03-2004 10:45:00	Peak Overtopping Ra...	0.729	0.200	Flood Warning	
NW_SI_N2_3	Whitehaven	20-03-2004 10:45:00	Mean Overtopping R...	0.000	0.000	Flood Watch	
NW_SI_N2_3	Whitehaven	20-03-2004 10:30:00	Peak Overtopping Ra...	0.076	0.050	Flood Watch	

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Site Data View

The site data view will present a table of data for the selected location.

T0	Dispatch time	Workflow	What-if scenario	Description	FDO	Open
19-03-2004 18:00:00	05-02-2006 00:15:15	Coastal_Forecast			Micha Werner	

19-03-2004 18:00:00 05-02-2006 00:15:15 Coastal_Forecast   Micha Werner   Whitehaven

Display per high tide | Display per hour | Alarm summary | Site data

Nearshore Site Time	Calculated Tide Level (m)	Overtop Mean Forecast (m2/s)	Overtop Peak Forec... (m2/s)	Overtop Volume Forecast (m3)	Nearshore Wave Height (m)	Nearshore Wave Period (s)	Nearshore Wave Direction (degrees)	Offshore Site Used (-)	Offshore Wind Speed (m/s)	Offshore Wind Direct... (degrees)
20-03-2004 09:45:00	3.681	0.000	0.000	0.000	1.691	4.764	240.836	BIOM	35.269	241.000
20-03-2004 10:00:00	4.026	0.000	0.000	0.000	1.697	4.772	240.682	BIOM	35.269	241.000
20-03-2004 10:15:00	4.305	0.000	0.000	0.000	1.702	4.778	240.559	BIOM	35.269	241.000
20-03-2004 10:15:00	4.305	0.000	0.000	0.000	2.508	5.509	245.855	BIOM	37.974	238.000
20-03-2004 10:30:00	4.526	0.000	0.076	0.000	2.516	5.512	245.751	BIOM	37.974	238.000
20-03-2004 10:45:00	4.681	0.000	0.729	0.000	2.521	5.514	245.678	BIOM	37.974	238.000
20-03-2004 11:00:00	4.769	0.000	1.247	0.000	2.525	5.515	245.623	BIOM	37.974	238.000
20-03-2004 11:15:00	4.775	0.000	1.283	0.000	2.525	5.515	245.618	BIOM	37.974	238.000
20-03-2004 11:30:00	4.713	0.000	0.900	0.000	2.522	5.515	245.663	BIOM	37.974	238.000
20-03-2004 11:45:00	4.586	0.000	0.293	0.000	2.516	5.513	245.722	BIOM	37.974	238.000
20-03-2004 12:00:00	4.402	0.000	0.000	0.000	2.512	5.510	245.809	BIOM	37.974	238.000
20-03-2004 12:15:00	4.204	0.000	0.000	0.000	2.505	5.507	245.903	BIOM	37.974	238.000
20-03-2004 12:30:00	3.961	0.000	0.000	0.000	2.496	5.504	246.017	BIOM	37.974	238.000
20-03-2004 12:45:00	3.682	0.000	0.000	0.000	2.486	5.500	246.154	BIOM	37.974	238.000
20-03-2004 13:00:00	3.374	0.000	0.000	0.000	2.475	5.493	246.323	BIOM	37.974	238.000
20-03-2004 13:15:00	3.037	0.000	0.000	0.000	2.110	5.422	243.822	BIOM	37.273	246.000
20-03-2004 13:30:00	2.684	0.000	0.000	0.000	2.099	5.416	244.020	BIOM	37.273	246.000
20-03-2004 13:45:00	2.318	0.000	0.000	0.000	2.083	5.421	244.240	BIOM	37.273	246.000
20-03-2004 14:00:00	1.944	0.000	0.000	0.000	2.068	5.427	244.465	BIOM	37.273	246.000

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