12 Thresholds Display and TRITON Display

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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.

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16-05-2007 B0/0E B0	16-05-2807 80:28:31	FAMAL Forecast			
A 11.05-2007 14:00:00	11.05.2007 54:28:05	Funiel Forecast			
A 09-05-2007 54:0E 00	09-05-2007 04:22:04	Fluvial_Parecast			
	Devial Francest Device				
15-05-2007 14-06-00 11-05-2007 14-2005 1	navial rocesses been	PA			
Display per 4 hours Display per hour Ala	rm summary Forecast data				
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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.

🚟 Triton NorthWest Displa	ıy					
TO	Dispatch time	Workflow	What-If scenario	Description	100	Oren
A 19-03-2004 18:00:00	05-02-2006 00:15:15	Coastal_Forecast			Micha Werner	- Sherr
19-03-2004 18:00:00 05-0 Display per high tide Display per	02-2006 00:15:15 C	oastal_Forecast Micha W	ferner			
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Controp to Sillette		Tide T (Friday 22.45.00)	Flooring Flooring	Uatrie	Tide 5 (secondary	23.15.00)
Siloth to St Base Head			Eload Warning	Floori Maroine		
St Base to Millow			Severe Final Marries	Severe Flood M	Severe Flood Mar	ming Severe Flood W
Duddon estuary			Flood Warning J	Rood Warning	Filos	d Warning
Barrow in Furness			Severe Flood Warning	a Severe Flood W.		
North Morecambe Bay						
Morecambe			Flood V	Vatch		
Heysham to Cockerham			Severe Flood Warnin	g Severe Flood W.	Severe Flood We	ming Severe Flood W
Lune Estuary			Flood Warning J	Flood Warning		
Cockerham to the Wyre						
Wyre Estuary						
Binckpool & Fleetwood			Severe Flood Warnin	g B,Severe Flood		
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Ribble Estuary						
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Head of the Ward						
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Coastal forecasting example: thresholds at high tides

🚟 Triton NorthW	est Display																					×
TO	De	Dispatch time Workflow			What-If scenario Description				1 700				014									
A 19-03-2004 18	100.00 05-02-3	2006-00:15:15	Constal,	Forec	ast											Micha	Wern	tr		<u>Obe</u>		
19-03-2004 18:00	0:00 05-02-20	06 00:15:15 (castal.	Fore	cast	Mic	ha W	erner	r													
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Duddon extuary																		_	-			
Barrow in Furnes	5																					
North Morecambe	Bay																					
Morecambe																						
Heysham to Cocke	erham																					
Lune Estuary																						
🚞 Cockerham to the	Уйуте																					
🚞 Wyre Estuary																						
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Lythan St Annes																						
Ribble Estuary																						
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Coastal forecasting example: thresholds per hour. High tide as in the previous example is at 10:45.

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ption ForecastList	0000
	A
Karel Heynert	
14.00 - 18.00	Fri 18.00 - 22.00
Early Warn75%	Early Warn75
Flood Warring	Early Warn75
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No forecast evaluate	No forecast ava
No forecast available	No forecast ava
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No forecast available	No forecast ava
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No forecast available	No forecast ava
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Severe Flood Warning MP	Flood Warning Pr
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100 (Co. U.) 201	2
	Floor Western

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.

🚰 Triton NorthWe	ist Display							X			
T0	Dispatch time V			Aloristicuer	What it scenario	EDO					
A 19.03.2004 18:00:00 05:02.2006 00:15:14		00:15:15 Cor	antal For	recard	White-In occinities	, beschjach	Micha Wenner	Spen			
19-03-2004 18:00:00 05-02-2006 00:15:15 Coastal_Forecast Micha Werner Whitehaven											
19-03-2004 18:00	00 05-02-2006	00:15:15 Coa	stal_Fo	recast Micha W	erner Whiteh	aren					
Unspray per regnitibe	Depary per nour me	16	e cara								
Location Id	Location name	Nearshore Ste	11	Parameter	Value	Threshold value	Threshold	Action			
NW_SI_N2_3	Whitehoven	20-03-2004 11	:45:00	Peak Overtopping Ra	0.293	0.200	Flood Warning				
NW_SI_N2_3	Whitehoven	20-03-2004 11	:30:00	Mean Overtopping R	0.000	0.000	Flood Warning				
NVV_SI_N2_3	Whitehoven	20-03-2004 11	30.00	Peak Overtopping Ha	0.900	0.200	Flood Warning				
NWV_SI_N2_3	Pendehaven	20-03-2004 11	15:00	Peak Overtopping Ra	1,253	0.200	Plood sverning				
NWV_SI_N2_3	Pentenaven	20-03-2004 11	15:00	sean Overtopping K	0.000	0.000	Flood sveming				
NW_SI_N2_3	Printenaven	20-03-2004 11	00:00	Peak Overtopping Ra	1.2%	0.200	Flood sverning				
NWV_SI_N2_3	Whitehaven	20-03-2004 11	100:00	Rean Overtopping K	0.000	0.000	Flood Warning				
HWV_OL_N2_0	Whitehouse	20-03-2004 10	45:00	Heat Overtopping Ka	0.020	0.200	Flood Maning Elevel Materia				
NAME STEND 3	Whitehouse	20-03-2004 10	190:00	Peak Cuertonoine Re	0.076	0.050	Flood Match				
							Quee	Help			

Site Data View

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

🚰 Triton NorthWest Dis	play										X	
TO	Dispato	htime	Workflow		What-I	fscenario	Description	Son FDO Cours				
A 19-03-2004 18:00:00	05-02-2006	00.15.15 k	losstal_Forecast		1			Micha Y	Verner	Shee	J	
19-03-2004 18:00:00 0'	5-02-2006 (00:15:15 Co	astal_Fore cas	t Micha	llerner	Whitehaver	1					
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	Tide Level	Magaz	Peak Enrec	Volume	Mahara	Malaura	Manua	Stelled	Wood Scenari	Mind Direct		
	(m)	Encart	(m2h)	Eccent	Height	Derind	Direction	63	(m/r)	(decrear)	-	
	0.9	(m2/s)	(11275)	(m3)	(n)	(1)	(degrees)	0	(1110)	(0000000)		
20-03-2004 08:45:00	3.681	0.000	0.000	0.000	1.691	4.764	240.836	BOM	35.269	241.000	~	
20-03-2004 10:00:00	4.026	0.000	0.000	0.000	1.697	4.772	240.682	BOM	35.269	241.000		
20-03-2004 10:15:00	4.305	0.000	0.000	0.000	1.702	4.778	240.559	BOM	35.269	241.000		
20-03-2004 10:15:00	4.305	0.000	0.000	0.000	2.508	5.509	245.855	BOM	37.974	238.000		
20-03-2004 10:30:00	4.526	0.000	0.076	0.000	2.516	5.512	245.751	BOM	37.974	238.000		
20-03-2004 10:45:00	4.681	0.000	0.729	0.000	2.521	5.514	245.678	BOM	37.974	238.000		
20-03-2004 11:00:00	4.769	0.000	1.247	0.000	2.525	5.515	245.623	BOM	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	2.518	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	245.009	BOM	37.974	238.000		
20-03-2004 12:15:00	4.204	0.000	0.000	0.000	2.505	5.507	245,903	BOM	37.974	238.000		
20-03-2004 12:30:00	3.961	0.000	0.000	0.000	2.495	5.504	246.017	BIOM	37.974	238.000		
20-03-2004 12:45:00	3.682	0.000	0.000	0.000	2.485	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	5.418	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	BOM	37.273	246.000		
20.03.2004 \$4:00.00	1 0.44	0.000	0.000	0.000	2.068	5 417	244.485	FICM	97 079	346.000		
									Close	Help	-	