28 Interval Statistics Dialog

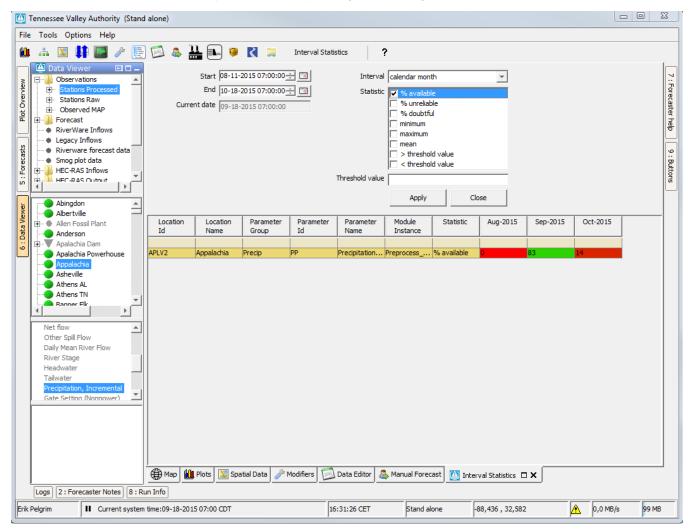
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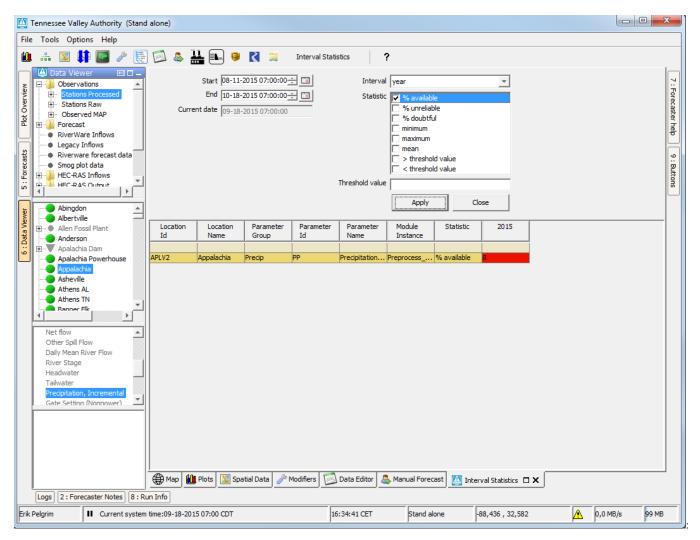
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Overview

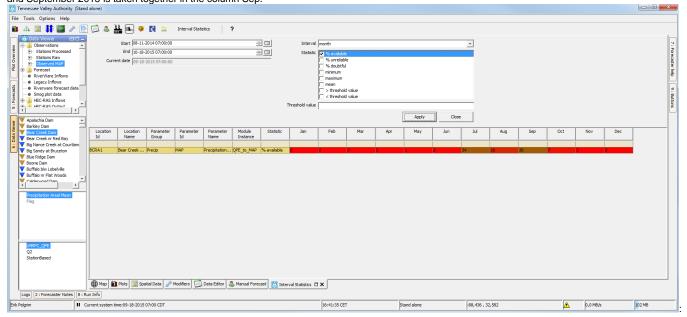
The interval statistics dialog is a predefined display that needs to be configured as an ExplorerTask in Explorer.xml:

This dialog will enable the user to divide the selected time series from the data viewer into intervals between a specific start and end date and calculates statistical values for those intervals. The example below shows the percentage of non missing values for each calendar month between start and end date:

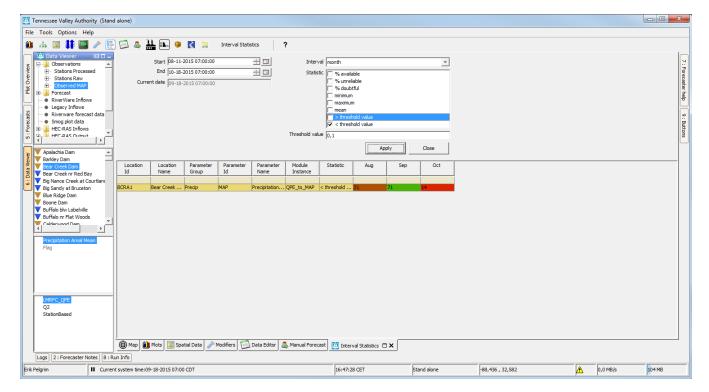




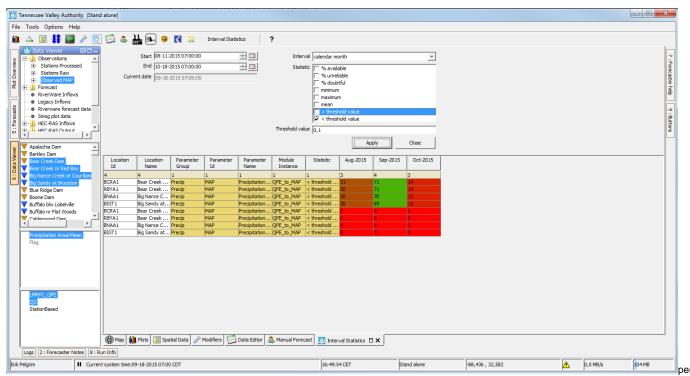
By selecting the interval month, the intervals will be divided over the 12 months within a year. This means for example that the data from September 2014 and September 2015 is taken together in the column Sep.



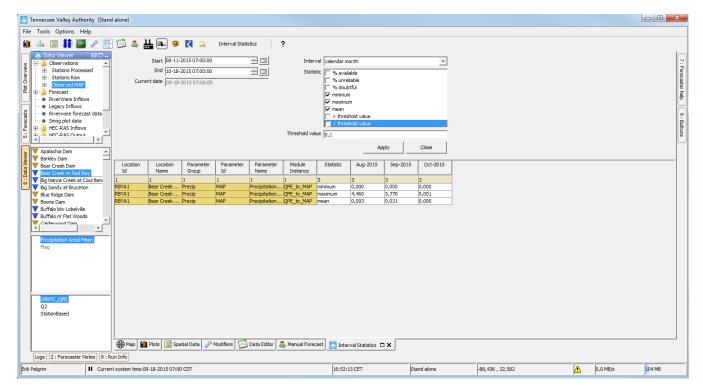
The threshold value field can be filled and will be used when calculating the percentage of values above or below a threshold.



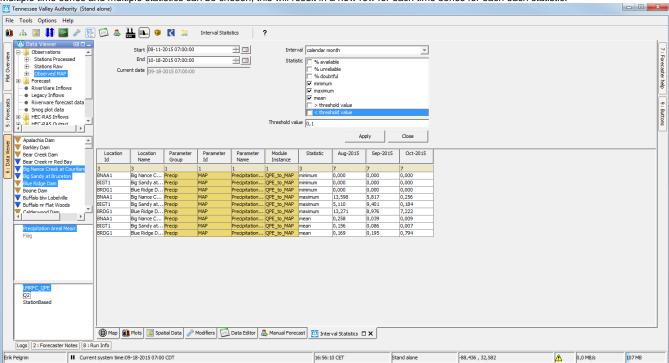
Multiple time series can be selected at once, this will result in multiple rows:



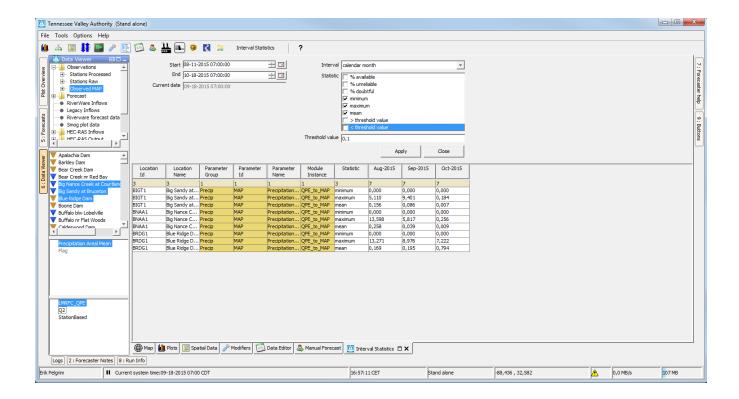
time serie. This is shown below for just 1 time serie, Multiple statistics can be chosen as well for example minimum, maximum and mean:



Multiple time series and multiple statistics can be chosen, this will result in a new row for each time series for each each statistic:



The rows can be oredered by clicking on the table header, for example Location Id:



2019.02 extensions

Extra statistics have been added:

- % Soft Min
- % Hard Min
- % Soft Max
- % Hard Max
- % Rate of Change
- % Same Reading
- Number of periods Same Reading

The colors have been updated to fixed intervals:

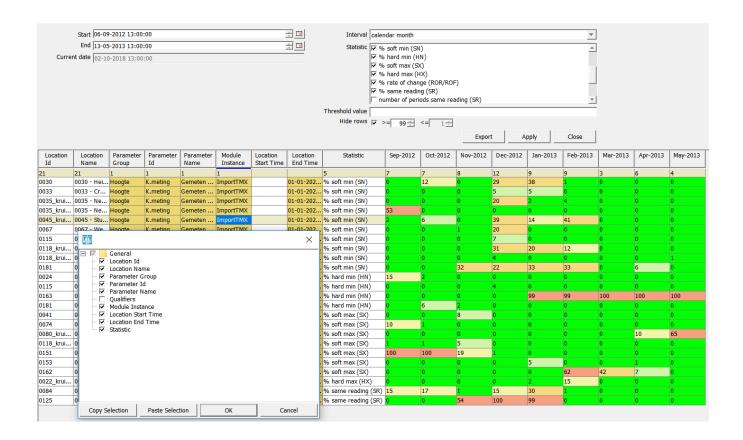
- 95%-100% green (00FF00)
- 90%-95% light green (D0F5A9)
- 80%-90% orange (F2F5A9)
- 50%-80% light red (F5DA81)
- 0% -50% red (F79F81)

Start and end date columns have been added

Columns can be hidden

Rows which are close to perfect / green can be hidden by specifying a percentage. See "hide rows".

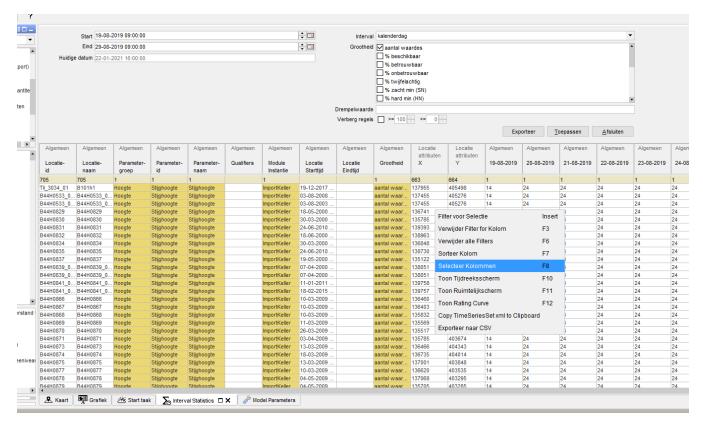
Start time & end time (relative to system time), selected interval, selected statistics, threshold value, hide rows checkbox and value and hidden columns are now all stored in the user settings.



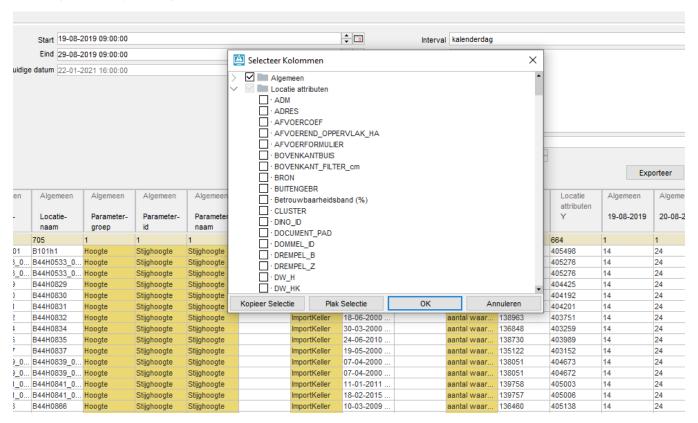
And export to Excel button has been added. Excel sheet will include all columns in display (so extra added location attribute column too)

	А	U	U	U	L	1	U	- 11	1	J.	IX.	L	IVI
1	Interval Statist	ics FEWS											
2													
3	Filters	Ruwe data											
4	Statistic	% soft min (SN),% hard	d min (HN),% soft ma	x (SX),% hard max	(HX),% ra	te of chang	ge (ROR/RO	DF),% same	e reading (SR)			
5	Interval	calendar month		-									
6	Period	20120906 - 20130513											
7	Parameters	Gemeten klephoogte											
8	Threshold value												
9													
10													
11	Class colors												
12	100%-95%												
13	95%-90%												
14	90%-80%												
15	80%-50%												
16	50%-0%												
17													
18	Location Name	Parameter Name	Location End_Time	Statistic	Sep-2012	Oct-2012	Nov-2012	Dec-2012	Jan-2013	Feb-2013	Mar-2013	Apr-2013	May-2013
19	0030 - Heikant	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	0	12	0	29	38	1	0	0	(
20	0033 - Cromvoirt	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	0	0	0	5	5	0	0	0	(
21	0035 - Nemelaer, ki	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	0	0	0	20	2	4	0	0	(
22	0035 - Nemelaer, ki	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	53	0	0	0	0	0	0	0	(
23	0045 - Stuw Loonde	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	2	6	0	39	14	41	0	0	(
24	0067 - Westelbeers	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	0	0	1	20	0	0	0	0	(
25	0115 - Stuw Gender	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	0	0	0	7	0	0	0	0	(
26	0118 - Waterhoef-s	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	0	0	0	31	20	12	0	0	(
27	0118 - Waterhoef-s	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	0	0	0	4	0	0	0	0	1
28	0181 - Run12 Steve	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft min (SN)	0	0	32	22	33	33	0	6	(
29	0024 - Hondsberg	Gemeten klephoogte	Wed Jan 01 00:59:59	% hard min (HN)	15	2	0	0	0	0	0	0	(
30	0115 - Stuw Gender	Gemeten klephoogte	Wed Jan 01 00:59:59	% hard min (HN)	0	0	0	4	0	0	0	0	(
31	0163 - Retentie stu	Gemeten klephoogte	Wed Jan 01 00:59:59	% hard min (HN)	0	0	0	0	99	99	100	100	100
32	0181 - Run12 Steve	Gemeten klephoogte	Wed Jan 01 00:59:59	% hard min (HN)	0	6	2	0	0	0	0	0	(
33	0041 - Schoorstraat	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft max (SX)	0	0	8	0	0	0	0	0	(
34	0074 - Vughterstuw	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft max (SX)	10	1	0	0	0	0	0	0	(
35	0080 - Afwaterings	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft max (SX)	0	0	0	0	0	0	0	10	65
36	0118 - Waterhoef-s	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft max (SX)	1	1	5	0	0	0	0	0	(
37	0151 - Stuw Mgr. W	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft max (SX)	100	100	19	1	0	0	0	0	(
38	0153 - Stuw Endeke	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft max (SX)	0	0	0	0	5	0	0	1	(
39	0162 - ADM Reusel	Gemeten klephoogte	Wed Jan 01 00:59:59	% soft max (SX)	0	0	0	0	0	62	42	7	(
40	0022 - 3 Esch, kruinl	Gemeten klephoogte	Wed Jan 01 00:59:59	% hard max (HX)	0	0	0	0	2	15	0	0	(
4.4	0084 - De Vliegert	Gemeten klephoogte	Wed Jan 01 00:59:59	0/	15	4.7		15	20	- 1			
41	0004 DC VIICECTE	demeter kiephoogte	Wed Jan 01 00.35.35	% same reading	15	17	1	15	30	1	0	0	

Starting from 2019.02 you can add extra columns based on location attributes to the display. For this, the user needs to right-click on the table and 'Select columns' (or shortcut key F8).

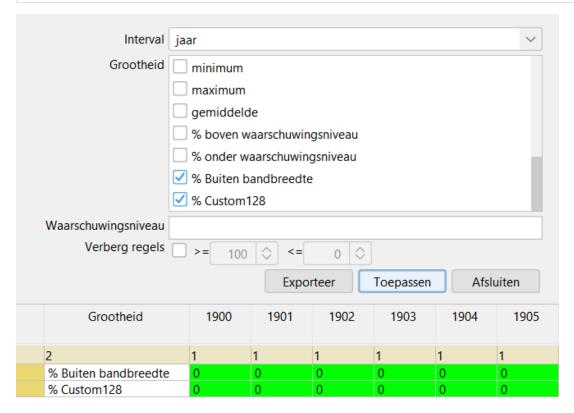


The following dialog will appear. Locations attributes can be selected and are saved per user. The attributes will follow the attribute name and if not defined the id. They are sorted alphabetically.



Custom flag sources added (since 2022.01)

Since 2022.01 also the custom flag sources are available as statistics.



It must be taken into account that this only applies to the custom flag sources used as the normal flag source of time series. The optional and configurable FlagSourceColumns do not apply to this statistic.

Filtering

Since 2023.02 (backported to 2022.02). Rows can be filtered based on their respective percentage or value. Checking the corresponding check boxes will apply the filters to all rows of the associated type, percentage or value. Toggle whether a value range is inclusive or exclusive can be done with the outside checkbox.

