Command Reference: CheckTimeSeries()
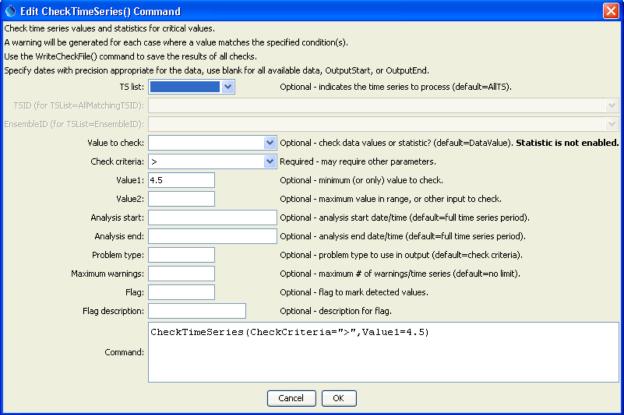
Check time series data values against criteria

The CheckTimeSeries() command checks time series data values against criteria, for example to identify missing, erroneous, or extreme data values. A warning is generated for each match and time series values optionally can be flagged, which allows annotation on graphs and reports. The WriteCheckFile() command can be used to write a summary of the warnings.

The following dialog is used to edit the command and illustrates the command syntax.

CheckTimeSeries() Command Editor

The command syntax is as follows:

CheckTimeSeries(Parameter=Value,…)

Command Parameters

Parameter	Description	Default
TSList	Indicates the list of time series to be processed, one of: • AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be processed. • AllTS – all time series before the command will be	AllTS

Parameter	Description	Default
	processed. • `EnsembleID` – all time series in the ensemble will be processed. • `LastMatchingTSID` – the last time series that matches the `TSID` (single TSID or TSID with wildcards) will be processed. • `SelectedTS` – the time series selected with the `SelectTimeSeries()` command will be processed.	
TSID	The time series identifier or alias for the time series to be processed, using the `*` wildcard character to match multiple time series.	Required if `TSList=*TSID`.
EnsembleID	The ensemble to be modified, if processing an ensemble.	Required if `TSList= EnsembleID`.
ValueToCheck	One of the following: • `DataValue` to indicate that raw data values should be checked. • `Statistic` to indicate that a statistic computed from data values should be checked (future enhancement).	`DataValue`.
CheckCriteria	The criteria that is checked, one of: • `AbsChange>` – check for absolute change from one value to the next value $>$ `Value1` • `AbsChangePercent>` – check for absolute change in percent from one value to the next value $>$ `Value1`. • `Change>` – check for change $>$ `Value1`. • `Change<` – check for change $<$ `Value1`. • `InRange` – check for value $>=$ `Value1` and $<=$ `Value2`. • `OutOfRange` – check for value $<$ `Value1` or $>$ `Value2`. • `Missing` – check for missing values. • `Repeat` – check for values that are the same as the previous value. • `<` – check for values $<$ `Value1`. • `<=` – check for values $<=$ `Value1`. • `>` – check for values $>$ `Value1`. • `>=` – check for values $>=$ `Value1`. • `==` – check for values equal to `Value1`.	None – must be specified.
Value1	A parameter that is used for specific `CheckCriteria` values.	
Value2	A parameter that is used for specific `CheckCriteria` values.	
AnalysisStart	The date/time to start analyzing data.	Analyze full period.
AnalysisEnd	The date/time to end analyzing data.	Analyze full period.
ProblemType	The problem type that will be shown in warning messages.	`CheckCriteria`
MaxWarnings	The maximum number of warnings to list for each time series, useful if analysis results in many warnings.	List all warnings.
Flag	A string to use for a flag on values that are detected during the check, which will be shown in the HTML summary report.	No flag.
FlagDesc	Description for the flag.	No description.