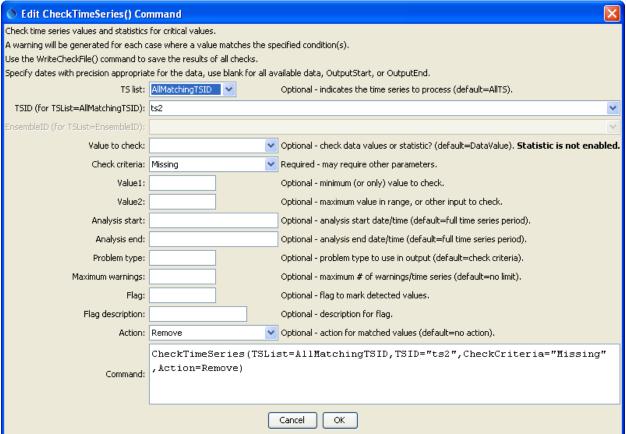
Command Reference: CheckTimeSeries()

Check time series data values against criteria

/ersion 09.07.01, 2010-08-18

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. Matched values can also be removed (if irregular interval), or set to missing. The WriteCheckFile() command can be used to write a summary of the warnings. See also the Delta() command, which creates new time series as the change between each value — this command may be necessary in cases where data reset, prior to using a performing a Change> check, for example.

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



CheckTimeSeries() Command Editor

CheckTimeSeries

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:	AllTS
	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	
	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	Required if
	be processed, using the * wildcard character to match	TSList=*TSID.
	multiple time series.	
EnsembleID	The ensemble to be modified, if processing an ensemble.	Required if
		TSList= EnsembleID.
ValueToCheck	One of the following:	DataValue.
Varacrociicon	 DataValue to indicate that raw data values should 	Datavarue.
	be checked.	
	Statistic to indicate that a statistic computed	
	from data values should be checked (future	
	enhancement).	
CheckCriteria	The criteria that is checked, one of:	None – must be
	AbsChange> – check for absolute change from	specified.
	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 < Value 1.	
	• 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.	

Parameter	Description	Default
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.
Action	 Action to take for matched values, in addition to generating warnings: Remove – remove the values. For irregular interval time series the values will be removed. For regular interval time series the values will be set to missing. 	No action is taken.
	• SetMissing – set the values to missing.	

CheckTimeSeries() Command
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TSTool Documentation

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