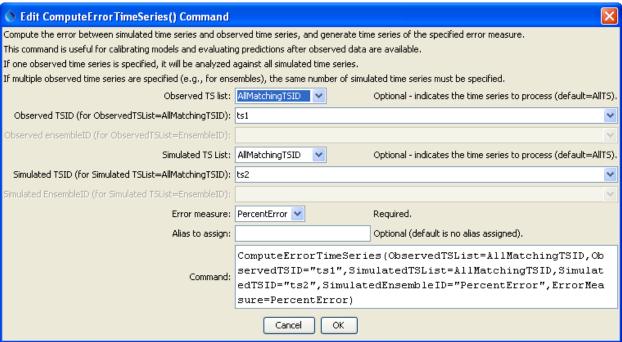
Command Reference: ComputeErrorTimeSeries()

Compute the error between time series and create new time series for the results

ersion 09.10.01, 2010-11-18

The ComputeErrorTimeSeries () command computes the error between two time series as absolute value or percent, creating a new time series for each pair of time series that is compared. This is useful for comparing observed and simulated time series. The time series that are created have the simulated time series' metadata but an alias can be assigned. The command can be used to process multiple pairs of time series, each determined using the appropriate *TSList parameter.

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



ComputeErrorTimeSeries() Command Editor

ComputeErrorTimeSeries

The command syntax is as follows:

ComputeErrorTimeSeries (Parameter=Value,...)

Command Parameters

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

Parameter	Description	Default
	 compared. LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards) will be compared. SelectedTS – the time series are those selected with the SelectTimeSeries () command. 	
Observed TSID	The time series identifier or alias for the observed time series, using the * wildcard character to match multiple time series.	Use when ObservedTSList= *MatchingTSID.
Observed EnsembleID	The observed ensemble to be compared, if processing an ensemble.	Use when ObservedTSList= EnsembleID.
Simulated TSList	Indicates how to determine the list of simulated time series (see the explanation of ObservedTSList).	AllTS
Simulated TSID	The time series identifier or alias for the simulated time series (see the explanation of ObservedTSID).	Use when SimulatedTSList= *MatchingTSID.
Simulated EnsembleID	The ensemble identifier for the simulated time series (see the explanation of SimulatedEnsembleID).	Use when SimulateddTSList= EnsembleID
ErrorMeasure	 The error measure to compute, one of: PercentError – Simulated minus observed, divided by observed. AbsoluteError – not yet implemented. 	
Alias	 The alias to be assigned to each trace in the ensemble. The string can include: % specifiers from the LegendFormat property (see the TSView Time Series Viewing Tools appendix). \${Property} strings, where Property is a value set internally by the command processor (more documentation will be provided in the future) or with the SetProperty() command. This approach is useful if the TSTool command file is dynamically created with a script. Any literal characters. 	None.

A sample command file is as follows (in this case using contrived data):