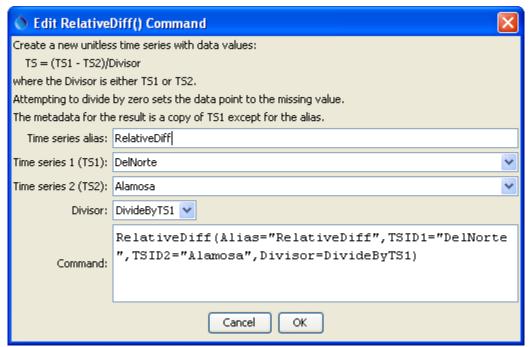
Command Reference: RelativeDiff()

Create a relative difference time series

Version 10.00.00, 2011-03-25

A RelativeDiff() command creates a new relative difference time series, computed by subtracting the time series and then dividing by one of the time series. This is useful when analyzing the relative magnitudes of two time series over time. Most of the properties for the new time series are the same as the first time series. The alias for the result can be referenced by other commands. The divisor can be either of the time series. The result is set to missing if either time series value is missing or the divisor is zero.

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



RelativeDiff

RelativeDiff() Command Editor

The command syntax is as follows:

```
RelativeDiff(Parameter=Value,...)
```

The following older command syntax is updated to the above syntax when a command file is read:

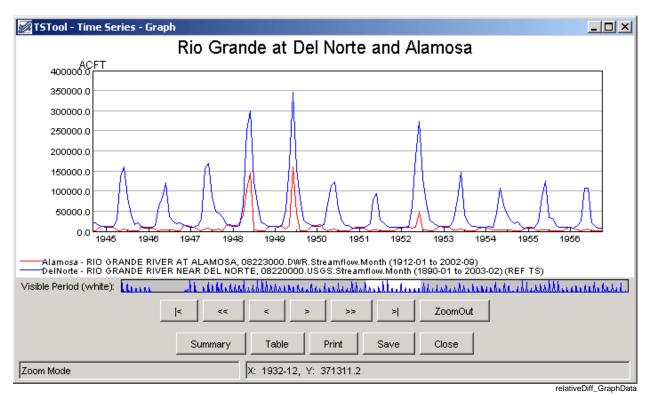
```
TS Alias = RelativeDiff(Parameter=Value,...)
```

Command Parameters

Parameter	Description	Default
Alias	The alias to assign to the time series, as a literal string or using	None – must be
	the special formatting characters listed by the command editor.	specified.
	The alias is a short identifier used by other commands to	
	locate time series for processing, as an alternative to the time	
	series identifier (TSID).	
TSID1	The time series identifier or alias for the first time series.	None – must be
		specified.
TSID2	The time series identifier or alias for the second time series	None – must be
	(subtracted from the first).	specified.
Divisor	Indicates whether the first time series is the divisor	None – must be
	(DivideByTS1) or the second time series is the divisor	specified.
	(DivideByTS2).	

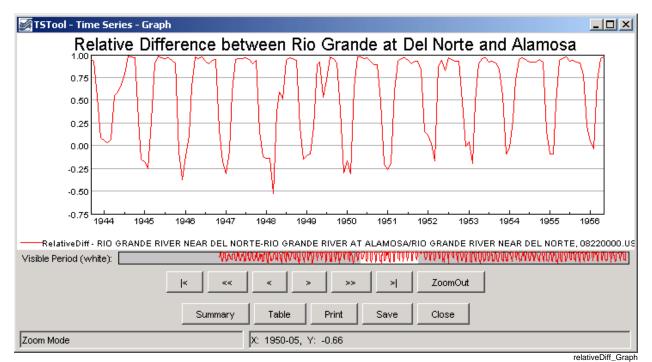
A sample command file to process data from the State of Colorado's HydroBase database is as follows:

The input time series for the command are shown in the following figure:



Data for the RelativeDiff() Command

The results of processing the commands are shown in the following figure:



Results of the RelativeDiff() Command