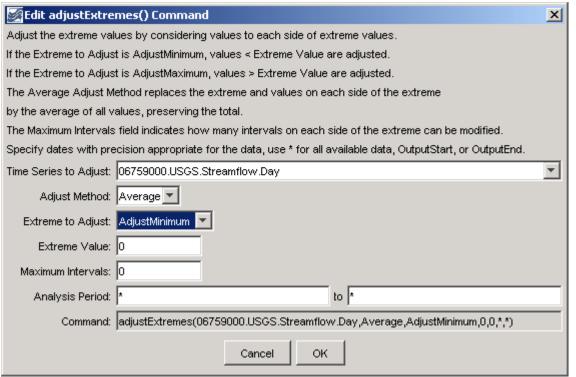
Command Reference: adjustExtremes()

Adjust the Extreme Values in Time Series Data

Version 06.08.02, 2004-08-02, Color, Acrobat Distille

The adjustExtremes () command adjusts extreme values in time series (e.g., to remove negative values from a time series that can only have zero or positive values), while preserving "mass". The following dialog is used to edit the command and illustrates the syntax of the command.



adjustExtremes() Command Editor

adjustExtremes

The command syntax is as follows:

adjustExtremes(TSID,AdjustMethod,ExtremeToAdjust,ExtremeValue, MaxIntervals,AnalysisStart,AnalysisEnd)

Command Parameters

Parameter	Description	Default
TSID	The time series identifier or alias for the time series to	None – must be
	be modified.	specified.
AdjustMethod	Currently only the Average adjust method is	None – must be
	implemented, in which adjusted data values are set to	specified.
	the average over the adjusted period, necessary to	
	maintain the total/mass of the original values. This	
	method adjusts extreme values by considering	
	neighboring values equally on each side of the point in	
	question. When adjusting minimum values,	
	neighboring values are added until the average is above	
	the allowed extreme value, and all values that make up	
	the sum are then set to the average value. Missing	
	values remain missing and therefore this command	
	should only be applied to filled data. If a satisfactory	
	result cannot be reached within this limit, then the	
	original values are not changed. Changed values are	
	listed in the time series history, which is viewed with	
	the time series properties. Applying the command will	
	result in the time series having periods of constant	
	value, with the length of the period being controlled by	
	the magnitude of the extreme value.	
ExtremeToAdjust	Indicate whether minimum (AdjustMinimum) or	None – must be
_	maximum (AdjustMaximum) values to be adjusted.	specified.
ExtremeValue	The extreme value that is the limit of acceptable values.	None – must be
		specified.
MaxIntervals	Indicates how many values on each side of a point are	
	allowed to be examined. A value of zero indicates no	
	limit on the number of points that can be examined.	
AnalysisStart	The date/time to start analyzing data.	Full period if * is
		specified.
AnalysisEnd	The date/time to end analyzing data.	Full period if * is
		specified.

A sample commands file is as follows:

```
# 06759000 - BIJOU CREEK NEAR WIGGINS, CO. 06759000.USGS.Streamflow.Day~HydroBase adjustExtremes(06759000.USGS.Streamflow.Day,Average,AdjustMinimum,0,0,*,*)
```