
Command Reference: ReadWaterML()

Read 1+ time series from a WaterML file

Version 10.13.00, 2012-10-31

The `ReadWaterML()` command reads one or more time series from a WaterML XML time series file (see the **WaterML Input Type Appendix**). WaterML version 1.1 is supported. WaterML files can be created using the `ReadUsgsNwisDaily()`, `ReadWaterOneFlow()`, and `WriteWaterML()` commands, and can be saved from web sites that provide WaterML using the `WebGet()` command. This command may be enhanced in the future to read a subset of the time series in the WaterML file (currently all time series in the file are read), and additional WaterML versions may be supported.

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

Edit ReadWaterML Command

Read all the time series from a WaterML file, using information in the file to assign the time series identifier.
Specify a full path or relative path (relative to the working directory) for a WaterML file to read.
The working directory is: C:\Develop\TSTool_SourceBuild\TSTool\test\regression\commands\general\ReadWaterML
Specifying the input period will limit data that are available for fill commands but can increase performance.

WaterML file to read:

Alias to assign: => Optional - use %L for location, etc.

Interval: Required - data interval for data.

Require data to match interval?: ☒ Optional - require data/interval alignment (default=True).

Input start: Optional - overrides the global input start.

Input end: Optional - overrides the global input end.

Command:

```
ReadWaterML (InputFile="Data\03451500_SingleSite_UsgsNwisDaily.waterml",  
Alias="%L.%T", Interval="Day")
```

ReadWaterML

ReadWaterML() Command Editor

The command syntax is as follows:

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

Command Parameters

Parameter	Description	Default
InputFile	The name of the WaterML file to read. The path to the file can be absolute or relative to the working directory.	None – must be specified.
Alias	The alias to assign to the time series, as a literal string or using the special formatting characters listed by the command editor. 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).	No alias is assigned.
Interval	The data interval for the file, necessary because WaterML 1.1 does not have a data element indicating the interval (time step for the data) and using irregular by default would be inefficient for data management. This issue is being further evaluated.	None – must be specified.
RequireData ToMatchInterval	Indicate whether the date/time for each data value must align with the interval: <ul style="list-style-type: none"> True – For example, if Interval=15Min for USGS instantaneous data, then values a warning will be generated. False – Date/times that do not align result in time series values being assigned using a truncated date/time. For example, USGS groundwater web service values read with Interval=Day will be assigned to the nearest day (by ignoring more precise time information). This parameter and the Interval parameter will continue to be evaluated.	True Parameter is not used for irregular data.
InputStart	The start of the period to read data – specify if the period should be different from the global query period.	Use the global query period.
InputEnd	The end of the period to read data – specify if the period should be different from the global query period.	Use the global query period.