Command Reference: CreateEnsembleFromOneTimeSeries()

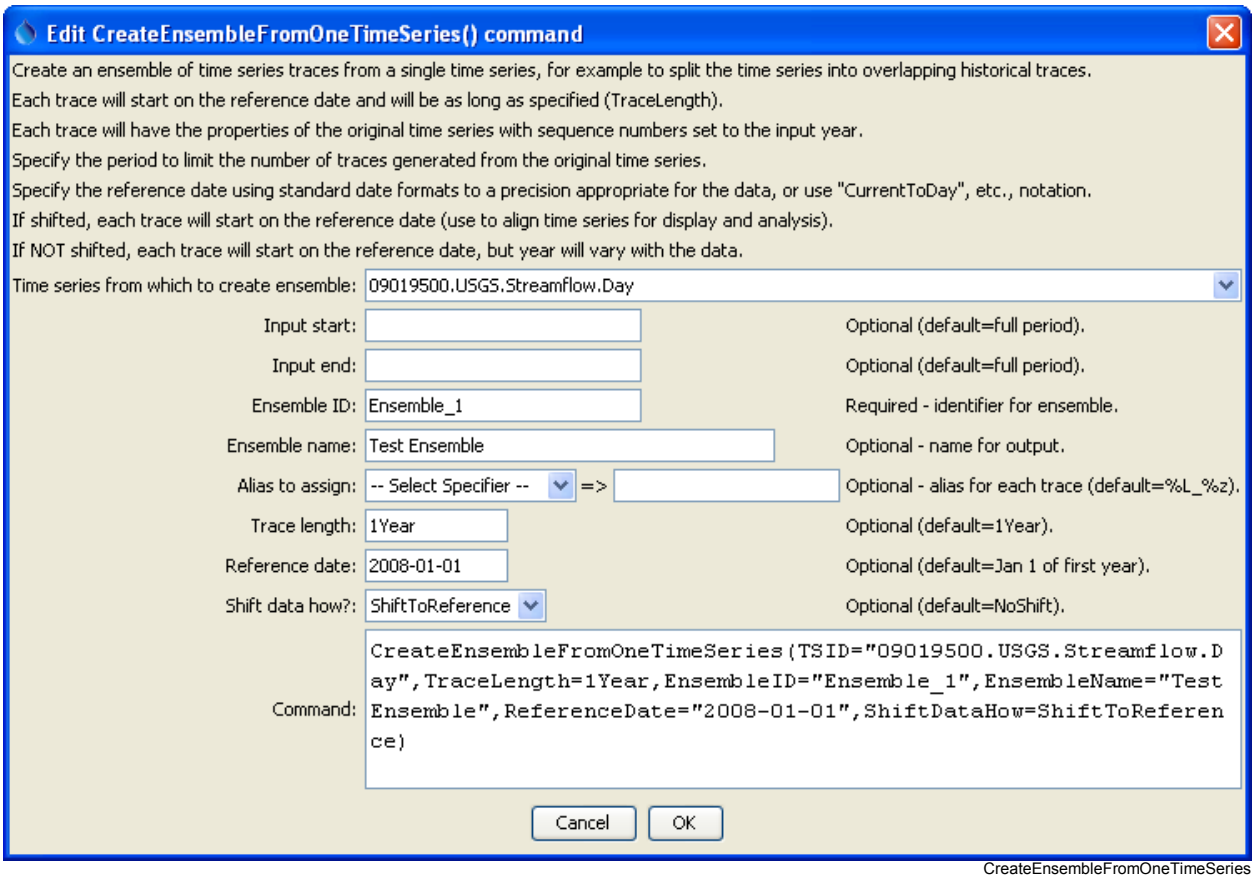
Create a new ensemble from a single time series

Version 10.10.00, 2012-05-28

This command previously was named `CreateEnsemble()`.

The `CreateEnsembleFromOneTimeSeries()` command creates an ensemble by splitting up a single time series into traces. For example, a historical time series can be split into 1-year overlapping traces that are shifted to start in the current year. The sequence number part of the time series identifier for each trace is set to the input starting year.

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



CreateEnsembleFromOneTimeSeries

CreateEnsembleFromOneTimeSeries() Command Editor

The command syntax is as follows:

```
CreateEnsembleFromOneTimeSeries(Parameter=Value,…)
```

Command Parameters

Parameter	Description	Default
TSID	The time series identifier or alias for the time series used to create the ensemble.	None – must be specified.
InputStart	The date/time to start transferring data from the time series.	Use all data.
InputEnd	The date/time to end transferring data from the time series.	Use all data.
EnsembleID	The new ensemble identifier.	None – must be specified.
EnsembleName	The name for the new ensemble.	Blank.
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).	%L_%z (location_ sequence Number)
TraceLength	An interval for the trace length (e.g., 1Year, #Month or, #Day).	1Year
ReferenceDate	The reference date indicates the starting date for each trace. Each trace optionally can be shifted (see ShiftDataHow), in which case the year in the ReferenceDate is used for the common starting date. The reference date can be one of: • Blank, indicating that January 1 of the current year will be used. • A date/time string (use the format 01/01/YYYY or YYYY-MM-DD). • CurrentToYear, CurrentToMonth, CurrentToDay, CurrentToHour, CurrentToMinute, indicating the current date/time to the specified precision. • A Current* value +- an interval, for example: CurrentToMinute - 7Day	January 1 of the first year in the source time series.
ShiftDataHow	Indicates whether the traces should be shifted. Possible values are: • ShiftToReference – each trace will be shifted to the reference date, resulting in overlapping time series. • NoShift – plotting the traces will result in a total line that matches the original time series, except that each trace can be manipulated individually.	NoShift

A sample command file to read a time series from the State of Colorado's HydroBase and create an ensemble from the time series is as follows:

```
# 09019500 - COLORADO RIVER NEAR GRANBY
09019500.USGS.Streamflow.Day~HydroBase
CreateEnsembleFromOneTimeSeries(TSID="09019500.USGS.Streamflow.Day",
  TraceLength=1Year,EnsembleID="Ensemble_1",EnsembleName="Test
Ensemble",ReferenceDate="2008-01-01",ShiftDataHow=ShiftToReference)
```