extrapolateBase

Extrapolate base

Input

- inputVariable

Options

- maxGapLength

Base value

- baseValue

Window

- window

Output

- outputVariable

Description

This transformation will extrapolate by adding future values that start at the last data value and linearly approach a given base value. Optional maxGapLength is in number of time steps. Gaps equal to or smaller than maxGapLength will be filled with interpolated values. Gaps larger than maxGapLength will not be filled. If maxGapLength is not defined, then all gaps will be filled with interpolated values.

Configuration example

```xml
<?xml version="1.0" encoding="UTF-8"?>
<transformationModule version="1.0" xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001
/XMLSchema-instance" xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0
/transformationModule.xsd">
        <!--Input time series-->
        <variable>
                <variableId>Input</variableId>
                <timeSeriesSet>
                        <moduleInstanceId>ImportDatabase</moduleInstanceId>
                        <valueType>scalar</valueType>
                        <parameterId>P.obs.6</parameterId>
                        <locationSetId>RainGauges_HuangChuan</locationSetId>
                        <timeSeriesType>external historical</timeSeriesType>
                        <timeStep unit="hour" multiplier="6"/>
                        <relativeViewPeriod unit="day" start="-16" end="0"/>
                        <readWriteMode>add originals</readWriteMode>
                </timeSeriesSet>
        </variable>
        <!--Output time series-->
        <variable>
                <variableId>Output</variableId>
                <timeSeriesSet>
                        <moduleInstanceId>HuangChuan_Update_Pre</moduleInstanceId>
                        <valueType>scalar</valueType>
                        <parameterId>P.obs.6</parameterId>
                        <locationSetId>RainGauges_HuangChuan</locationSetId>
                        <timeSeriesType>external historical</timeSeriesType>
                        <timeStep unit="hour" multiplier="6"/>
                        <relativeViewPeriod unit="day" start="-16" end="0"/>
                        <readWriteMode>add originals</readWriteMode>
                </timeSeriesSet>
        </variable>
        <!--Transformations-->
        <transformation id="extrapolateBase">
                <interpolationSerial>
                        <extrapolateBase>
                                <inputVariable>
                                        <variableId>Input</variableId>
                                </inputVariable>
                                <maxGapLength>10</maxGapLength>
                                <baseValue>6</baseValue>
                                <window unit="day" multiplier="2"/>
                                <outputVariable>
                                        <variableId>Output</variableId>
                                </outputVariable>
                        </extrapolateBase>
                </interpolationSerial>
        </transformation>
</transformationModule>
```

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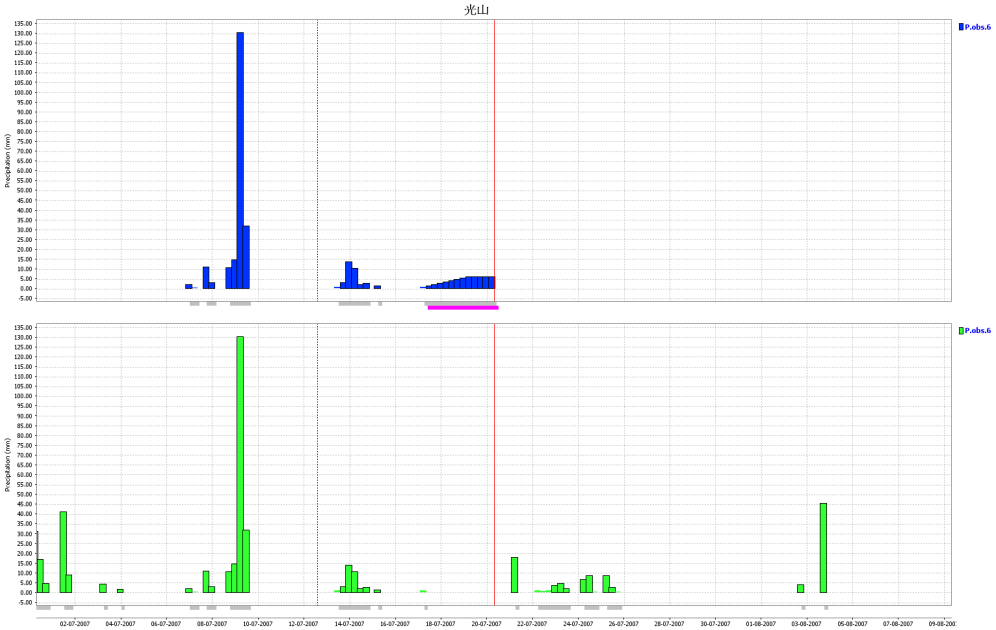
P.obs.6
Precipitation (mm)
P.obs.6
Precipitation (mm)
02-07-2007
04-07-2007
06-07-2007
08-07-2007
10-07-2007
12-07-2007
14-07-2007
16-07-2007
18-07-2007
20-07-2007
22-07-2007
24-07-2007
26-07-2007
28-07-2007
30-07-2007
01-08-2007
03-08-2007
05-08-2007
07-08-2007
09-08-200