



**Time Series builder**

File: TimeSeriesBuilder Description: Tool allowing to create time series based on given Time Vector and Real nu... [EXPAND](#)

**INPUTS**

Time Vector ⓘ CrossCorrelation/CatalogToVectors/Time.mat [CHANGE...](#)

Real number vector ⓘ CrossCorrelation/CatalogToVectors/Mw.mat [CHANGE...](#)

Initial time range: 2018 Jan 01 2018 Dec 31

Calculation mode ⓘ: Minimum value

Time step: 1 Days

Chosen time series: 2018 Jan 01 2018 Dec 31 [CHOOSE FROM PLOT](#)

[SAVE](#) [RUN](#) ☐ Enable autorun

Status: Finished ⓘ

In the following steps the user needs to specify:

- *Initial time range* – initial time range for analysis
- *Calculation mode* – specifies way of parameter calculation from the time-correlated parameter vector values to compute time series (see figure below)

Initial time range: 2018 Jan 01 2018 Dec 31

Calculation mode ⓘ: Minimum value

Time step: 1 Days

Chosen time series: 2018 Jan 01 2018 Dec 31 [CHOOSE FROM PLOT](#)

- *Time step* - time step used for the analysis (see figure below)

Initial time range: 2018 Jan 01 2018 Dec 31

Calculation mode ⓘ: Minimum value

Time step: 1 Days

Chosen time series: 2018 Jan 01 Dec 31 [CHOOSE FROM PLOT](#)

- *Chosen time series* – select a single or multiple range(s) of time for which time series will be calculated. It can be typed manually or selected from interactive graphs (see figures below)

2014 Mar 04

2014 Aug 31

CHOOSE FROM PLOT ✕

2013 Dec 10

2018 Sep 11

CHOOSE FROM PLOT ✕

ADD

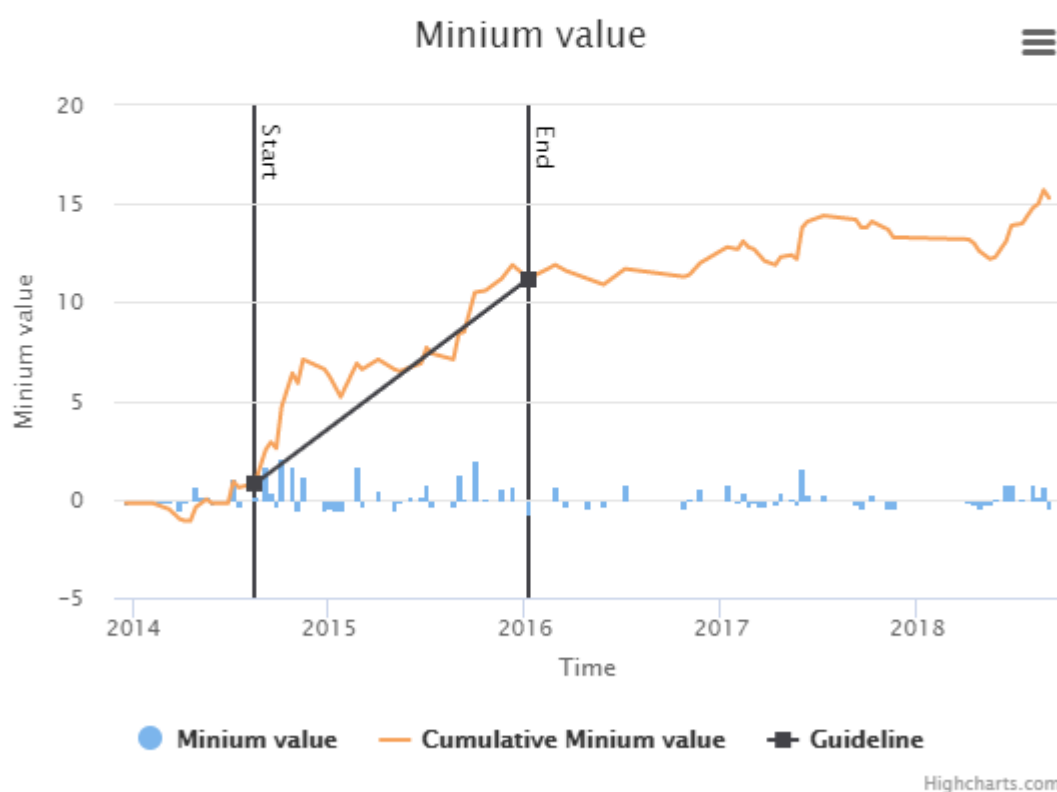
## Minium value plot



Choose time values by clicking on the points in the plot.

Chosen start value: 2014 Aug 15 08:07:55 ✕

Chosen end value: 2016 Jan 07 08:07:55 ✕

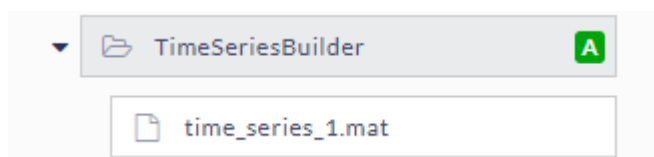


OK

CANCEL

RUN

4. Press the **RUN** button to initiate the process. Time series are calculated and saved in the user's workspace as .mat file.



The time series data is the mandatory input for the following applications:

- [Autocorrelation](#)
- [Cross Correlation](#)
- [Coefficient of Radomness](#)
- [Priestley-Subba Rao \(PSR\) test](#)

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- [Catalog to CSV converter user guide](#)
- [Autocorrelation user guide](#)