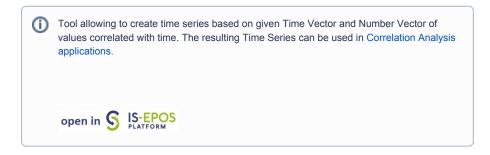
Time Series Builder user guide



CATEGORY Converters

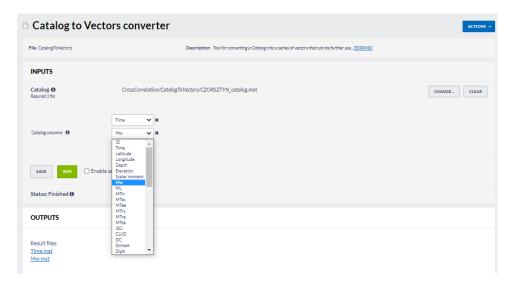
KEYWORDS Data selection, Data filtering, Data reshaping, Data conversion

CITATION Please acknowledge use of this application in your work: IS-EPOS. (2019). *Data Handling Applications* [Web applications]. Retrieved from https://tcs.ah-epos.eu/

Step by Step

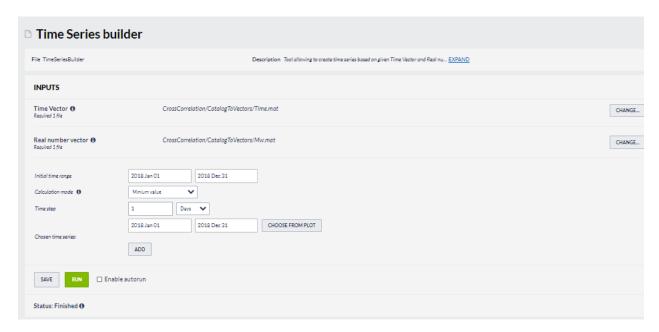
The time series data can be easily created with tools available on the EPISODES Platform, as escribed below:

- 1. Choose a catalog (or extract part of the catalog with Catalog Filter) from a selected episode.
- Add to user's workspace the Catalog to Vector converter application. It allows to extract vectors of time and time—correlated attributes of
 user's choice from the seismic catalog.
 Select the seismic catalog to be used and choose the parameters to be analyzed: a column with time and any parameter from the
 Catalog for which the correlation is to be made (Time and eg. Mw).



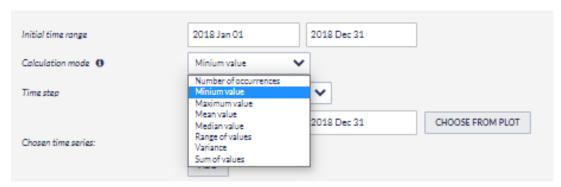
- 3. The application generates two files: Time.mat and [chosen parameter name].mat. These are input files to the Time Series Builder application that user should to use next.
- Add the Time Series Builder to the workspace. This application allows the user to generate data series based on time vector and timecorrelated parameter vector files created in the previous step.

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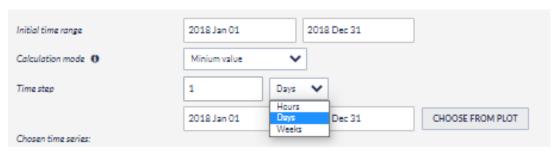


In the following steps the user needs to specify:

- 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)

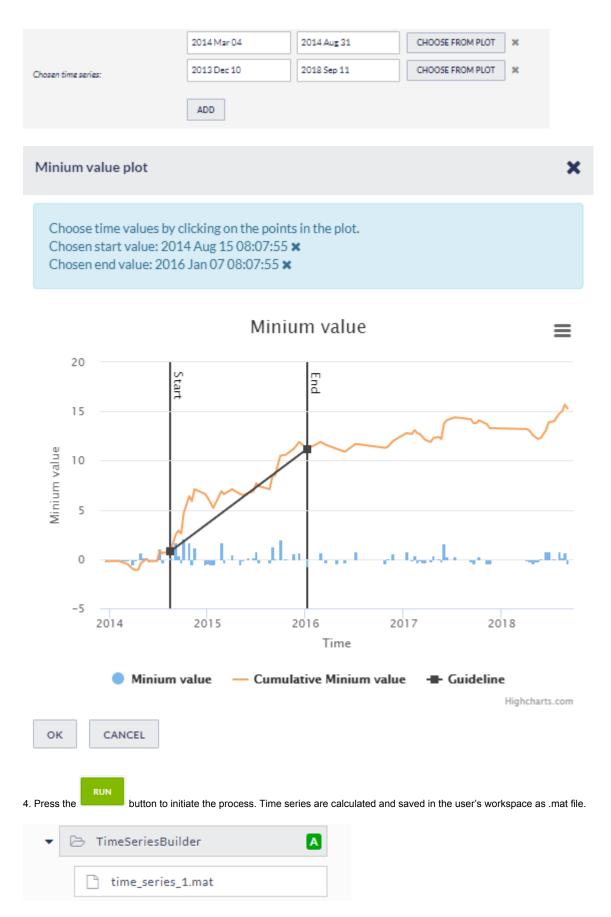


• Time step - time step used for the analysis (see figure below)



• 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)

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

- Autocorrelation
- Cross Correlation
- Coefficient of Radomness
- Priestley-Subba Rao (PSR) test

EPOS Thematic Core Service Anthropogenic Hazards

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- Coefficient of Radomness user guide
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