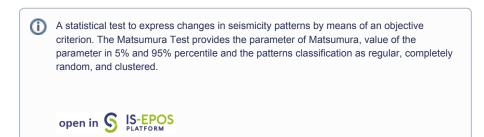
Coefficient of Radomness user guide



Step by Step

In order to use the Coefficient of Radomness application the user must upload a time series data available in the workspace. This is the mandatory input to the application. The time series data can be easily created with other tools available on the EPISODES Platform, as described below

The workflow for Coefficient of Radomness application:

- 1. Choose a catalog (or extract part of the catalog with Catalog Filter) from a selected episode.
- 2. Add to user 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 parameter to be analyze (e.g. Mw).

GDF to Vec	tors converter	ACTIO
File GDFToVectors	Description Tool for converting a GDF file into a series of vectors that can be further us	EXPAN
INPUTS		
GDF with time- correlated parameters Required 1 file Parameter name	GDF_CZORSZTYN_Water_Level.mat	CLEA
SAVE	Enable autorun	

Figure 1. Input of GDF to Vectors converter application.

The application generates two files: time_vector.mat and time_correlated_param_vector.mat. These are input files to the Time Series Builder application that user should use next.

2. 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. Please check detail in the Chapter Time Series Builder user guide.

As a result Time_series.mat appers.

3. Add Coefficient of Radomness application to the workspace. The mandatory input is the time series file generated in the previous step.

button to initiate the process. Press the

4. As a result of the application are:

Matsumura coefficient

REFERENCES Document Repository

CATEGORY Collective Properties of Seismicity

KEYWORDS Statistical analysis, Statistical properties of seismicity

CITATION Please acknowledge use of this application in your work: IS-EPOS. (2017). Coefficient of Randomness [Web application]. Retrieved from https://tcs.ah-epos.eu/

- 95% boundary of Matsumura coefficient
- Probability Type of seismicity pattern cluster pattern for Matsamura coefficient < 0.5, random pattern for Matsamura coefficient = 0.5 and Cyclic/Regular pattern for Matsamura coefficient > 0.5

Back to top

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