

Modification and verification of applying Seismicity Simulator using Nonlinear Oscillators System

Yuta Abe[1]

[1] Earth and Planetary Sci., Hokkaido Univ

Maeda and Yokomori(1999) constructed a simulator made of nonlinear oscillators for seismic activity. It could reproduce not only statistical characters of seismic activity but also time series of actual seismic activity. Because simulation of time series in this model depend on its recurrence nature,it is necessary to verify the recurrence nature of the model in detail. In this study,we examine the dependency of recurrence nature to the calculation time of model and obtain the necessary calculation time by the time this model demonstrate the recurrence nature.