



Weibull Characterization of inter-event lags of Earthquakes occurred in the Pacific Coast of Mexico

A. Ramírez-Rojas (1), E. L. Flores-Marquez (2), and S. Valverde-Esparza (2)

(1) Universidad Autónoma Metropolitana, Ciencias Básicas, México D.F., Mexico (arr@correo.azc.uam.mx), (2) Universidad Ncional Autonoma de Mexico, Circuito Instituto S/N, C.U. 04310 Coyoacan, Mexico

In order to analyze the characteristics of the elapsed time between seismic events and the probability that the lag between events would be greater than a given value (threshold) in a given magnitude class, the Weibull distribution has been applied to seismicity occurred from 1988 to 2010 along the Mexican Pacific coast. We analyzed four different regions, characterized by different subduction patterns assuming that these patterns can be associated to different statistical parameters distribution. Our results show that the statistical parameters are more conditioned to the magnitudes than to the location of the events.