Geophysical Research Abstracts, Vol. 9, 03189, 2007
SRef-ID: 1607-7962/gra/EGU2007-A-03189

Time dynamical characterization of fire sequences

L. Telesca (1), R. Lasaponara (1) and A. Lanorte (1)
(1) Istituto di Metodologie per l'Analisi Ambientale, CNR, C.da S.Loja, Tito (PZ), Italy

Investigating the time dynamics of forest-fires is a challenge in the environmental sciences, and different methods are necessary to completely and deeply identify, quantify and characterize the several features of a fire sequence. Focusing on a region of central Italy, the fire temporal regime from 1997 to 2005 has been analysed. Methods based on a interevent-time representation and a count-based representation of the fire series, have been applied in order to evidence possible non-Poissonian patterns, time-clustering behaviours, size-dependent and time-dependent time-scaling properties.