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Persistent Behavior in SPOT-VEGETATION NDVI data for Mediterranean Ecosystems of Southern Italy

A. Lanorte (1), R. Lasaponara, L. Telesca (1)

(1) Istituto di Metodologie per l'Analisi Ambientale, CNR, C.da S. Loja, 85050 Tito (PZ) Italy

Multitemporal series of satellite SPOT-VEGETATION Normalized Difference of Vegetation Index (NDVI) data from 1998 to 2005 were exploited for studying persistence in Mediterranean ecosystems of southern Italy. We used Multiple Segmenting Method (MSM), which is well suited to analyze scaling behavior in short time series, and the Detrended Fluctuation Analysis (DFA), which permits the detection of persistent properties in nonstationary signal fluctuations. Our findings point out to the characterization of Mediterranean ecosystems as governed by persistent mechanisms.