



Multifractal Analysis and Statistical of Rainfall Fields

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This work intends to show the important elements of multifractal analysis and nonlinear statistics applied to understanding, describing and modeling spatial and temporal rainfall fields in the study area. The reason for this revision is due to the fact that the invariance properties in precipitation processes on a lot of scales facilitates the understanding of their stronger irregular fluctuations, this fact can not be adequately represented from other descriptions of traditional rainfall fields.

The objective of this work is to use these relationships to find behavior patterns of temporal and spatial variability to facilitate reproduction rainfall fields through a multiplicative process called random cascade.

keywords: Multifractal, Rainfall, Non-linear statistics