



云南西北部强震前地震活动空间关联维的降维过程

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The reduction process of space correlation dimension of seismic activity before large earthquake in northwest of Yunnan

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- 摘要
- 参考文献
- 相关文章

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摘要 采用标度变换法,对云南省西北部地区地震活动空间分布的关联维进行了计算,得到了云南西北部不同时段的地震活动空间分布关联维的等值线图.讨论了强震发生后震中地区关联维演变过程和空间分布特征随时间变化,结果显示, $M \geq 6.0$ 强震发生前存在不同形式的降维过程.

关键词: 地震活动 关联维 无标度区 标度变换法 云南西北部

Abstract: The correlation dimension of space distribution of seismic activity in northwest of Yunnan is calculated by means of scale transformation. The contour map of spatial correlation dimension distribution at different periods in northwest of Yunnan are obtained. The evolving process of correlation dimension and the characteristics of space distribution variation with time before and after strong earthquakes are discussed. The results showed that there is a phenomenon of fractal dimension dropping before the occurring of $M \geq 6.0$ earthquakes.

Key words: seismic activity correlation dimension no-scale region scale transformation northwest of Yunnan

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