

安徽寿县新元古界一个滑塌-滑脱软沉积物变形复合构造的发现及地质初探

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引用本文: 王熙,王明镇.2012.安徽寿县新元古界一个滑塌-滑脱软沉积物变形复合构造的发现及地质初探[J].地球学报,33(1):49-56.

DOI: 10.3975/cagsb.2012.01.06

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中文摘要:安徽寿县新元古界四十里长山组底部粉砂岩层中发现了—个滑塌-滑脱软沉积物变形复合构造,剖面观察显示,该沉积变形构造经历了滑塌变形、滑脱变形、震动液化变形等3次以上的变形过程,很好地保存了原始沉积面貌和沉积变形特征;分析该沉积变形构造的成因,发现变形构造属于软沉积物变形构造类型,形成于浅海陆棚边缘斜坡相带。引起软沉积物变形的动力是地震事件产生的多次震动波作用,造成软沉积物滑塌、滑脱褶皱、震动液化泄水等变形作用,形成了具有复杂变形特征的软沉积物变形复合体,是一次地震事件多次地震活动的沉积记录。

中文关键词:滑塌变形 软沉积物变形构造 地震事件 变形复合体 泄水构造

The Discovery and Geological Preliminary Investigation of A Slump-slip Soft-sediment Deformation Multilayer Complex Structure in Neoproterozoic Strata in Shouxian County, Anhui Province

Abstract:A slump-slip soft-sediment deformation multilayer complex structure was found in siltstone layer at the bottom of Neoproterozoic Sishilichangshan Formation in Shouxian County of Anhui Province. An observation of rock profile reveals that the sedimentary deformation structure has experienced three deformation processes, i.e., landslide deformation, slip deformation and seismic liquefaction deformation. The soft-sediment deformation structure is a good presentation of the original sedimentary deformation process and sedimentary features. Based on an analysis of the sedimentary deformation structure, the authors have found that the deformation structure belongs to the soft-sediment deformation structure formed in a shallow slope facies. Multiple seismic waves produced in seismic events caused soft-sediment slumping, fold slip and liquid discharge through the shock and sliding rolling deformation activities, resulting in the formation of the soft-sediment deformation composite structure with complex deformation features. The soft-sediment deformation structure is a record of the multiple seismic activities in one seismic event.


keywords:[landslide deformation](#) [soft-sediment deformation structure](#) [seismic event](#) [deformation complex](#) [sluicing structure](#)

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