Relationship between the Pre-existing Active Kunlun Fault and Co-seismic Surface Ruptures Produced by the 2001 Mw 7. 8 Central Kunlun Earthquake, China

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摘要 Field investigations allow to constrain the co-seismic surface rupture zone of \sim 400km with a strike-slip up to 16. 3 m associated with the 2001Mw 7. 8 Central Kunlun earthquake that occurred along the western segment of the Kunlun fault, northern Tibet. The co-seismic rupture structures are almost duplicated on the pre-existing fault traces of the Kunlun fault. The deformational characteristics of the co-seismic surface ruptures reveal that the earthquake had a nearly pure strike-slip mechanism. Theg eologic and topographice vidence clearly shows that spatial distributions of the co-seismic surface ruptures are re-stricted by the pre-existing geological structures of the Kunlun fault.

关键词 <u>Earthquake</u>; <u>Co-seiemic surface rupture</u>; <u>Active fault</u>; <u>Pre-existing fault</u>; <u>Seismogenic fault zone</u>

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