



## **Inhomogeneity of b values of Tangshan and Xingtai earthquakes**

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We revise and analyse the catalogues of Tangshan and Xingtai earthquakes to get their completeness using statistic software, and quantitatively show the inhomogeneity of b values (G-R relation) by scanning the fault planes. We find: (1) The variation model of b values is a kind of time series, the earlier after an earthquake, the more inhomogeneous of b values. (2) The b values in depth change with time. (3) Cross-section b values along the fault planes show inhomogeneity also, and may indicate some hints to later larger aftershocks. (4) Different earthquakes have different features in b value inhomogeneity.