



## **Dynamic rupture simulations of the 1970 Tonghai earthquake and its' implications**

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The 1970 Ms 7.5 Tonghai earthquake, that has caused heavy casualty and economic loss, occurred in the Qujiang fault in southwestern China, which is located at the southeastern tip of the Sichuan-Yunnan block and still active nowadays. With detailed velocity model and topography data, we conducted the dynamic rupture simulation on the Qujiang fault using the curved-grid finite difference method. Different parameters are tested to construct the relatively reasonable source model. The preliminary results revealed the complexity of Tonghai earthquake, and the comparison between our modeling results and the geological field investigations are in good agreement. And the topography effect can be also observed.