

Active fault in Aso area formed at the Kumamoto Earthquake and its relationship with neotectonics in the Southwestern Japan

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I conducted geological survey in the Aso area about the faults that appear at the Kumamoto Earthquakes. I found 10 grabens in Akamizu - Uchinomaki area, which are bounded by ENE-WSW trending normal faults. Lengths of faults are about 100 m and the maximum displacement is ca. 2 m. These grabens compose NNE-SSW trending two segments with an echelon arrangement. Also, ENE-WSW trending grabens are found between the segments.

The arrangement of these grabens shows typical right-lateral strike slip displacement as a whole. It is most likely that these grabens are active fault that activated on the Earthquake. In this presentation, I discuss tectonic background of these a series of fault activities.

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