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Room: Poster

Characteristics of process zone accompanying an intermediate-size fault: The Usukidani Fault, Southwest Japan

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A fault is accompanied with the zone composed of fault rocks and a process zone is extensively developed outside the fault-rock zone. The pro cess zone must be related to the formation of the fault. In order to clari fy characteristics of the process zone accompanying an intermediate-size fau lt, field mapping, investigation of fault outcrops and observations by an op tical microscope were performed for the Usukidani fault in western Shimane P refecture of southwest Japan. The process zone of the Usukidani fault show s a spindle form and is distributed symmetrically with the respect to the fa ult surface. It is pointed out that the maximum width of the process zone is one-order larger that the fault-rock zone. The maximum width is two-order smaller than the length of the fault.