

Trenching study on the southern part of the Hanaore fault at Shugakuin in Kyoto City, central Japan

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The Henaore fault is a right-lateral strike-slip active fault trending NNE-SSW in Shiga and Kyoto Prefecture. We excavated a trench at Shugakuin area in Kyoto City to reveal the paleoseismic activity of the southern part of this fault. Some strands of high-angle fault planes cutting fan deposits were observed on the trench walls. The radiocarbon ages indicate that the timing of the last faulting event was about 2,500 to 1,500 years ago, and the timing of the penultimate event was about 8,000 to 7,000 years ago. The interval between the last two events is estimated to be about 4,500 to 6,500 years.