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Room:Convention Hall

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Study on Late Pleistocene to Holocene activity of the western part of Shinji Fault

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We investigated the western part of the Shinji Fault to clarify the activity during Late Pleistocene to Holocene by arrayed boring survey at the Sadahongo-Sakoya in Matsue city.

The result of survey shows systematic vertical displacement on the Daisen Matsue Pumice (DMP) layer and the upper layers.

The vertical displacement of key beds is estimated to be 1.3m at about 25,000¹⁴C yBP, 0.8m at about 10,000¹⁴C yBP and 0m at 7,000 to 10,000¹⁴C yBP.

The latest faulting event is presumed to be between 10,000¹⁴C yBP and 25,000¹⁴C yBP.

The degree of activity on the western part of Shinji fault is lower than previous studied sites located at the Minamikoubu, Kashima town along the central part of the Shinji fault.

Keywords: Shinji fault, displacement of fault, arrayed boring