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Comparison of the Torigoe and the Katakai faults of the western margin of fault zone of the Nagaoka Plain, Niigata Prefe

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The western margin of the Echigo Plain, central Japan, is marked by a set of reverse faults trending NNE-SSW. The Torigoe and the Katakai faults are part of the western margin fault zone of the Nagaoka Plain, central Japan. These faults are assumed to be active ones, but not clearly in terms of structural geology. The purpose of this study is to celerity the structure characteristic of the Torigoe faults and the Katakai faults.

As a result, fault zone of width, color of the fault and internal structure of fault are differ between the two faults (the Torigoet faults vs. the Katakai faults or the Katakai fault vs. the Katakai fault). It is possibility that the Torigoe and the Katakai faults reflects several stress field.

Keywords: Torigoe fault, Katakai fault, active faults, fault rock, Echigo Plain