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An Episodic Crustal Deformation Which Occured in the Western Part of Iwate Volocano during 1999

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To monitor the recent crustal deformations around Iwate volcano which has been active since the begining of 1998, we analyzed dual frequency GPS permanent measurement array data.

It is revealed that an episodic event of crustal deformation started at May 1999 at least until the end of 1999 in the western part of the volcano.

By combining two observations; one is the change of pattern of vertical deformation and the other is unchanged pattern of horizontal deformation which means radial expansion centered at Mt Mitsuishi, it is suggested that the mechanism of deformation changed from Mogi-type inflation to dike intrusion in May 1999.