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An exploration of temporal changes of seismic velocity at Iwate volcano: Part 2

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In order to detect temporal variations of velocity structure due to the volcanic activity, we conducted the third active seismic experiment at Iwate volcano on Oct. 19, 2000. We calculate a cross-spectrum for two data sets out of the three experiments. The cross-spectrums calculated from the second and third experiments show very high coherence for a long duration of about 30 seconds, and almost no phase differences, while those calculated from combination including the first experiment show some phase delay. These results suggest, temporal velocity changes could have occurred between the first and second experiments, little has changed after then.