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The seismicity and the seismic velocity structure in the Northern Kinki District

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Micro-seismicity in the Northern Kinki District is active. However we do not know the cause and the relation between these seismic activities and crustal structure or active faults around there clearly.

In/around the Northern Kinki District, we are carrying out a dense array seismic observation using many temporary stations; 45 stations since November 2008 and additional 37 stations since April 2010.

The average station internal at the center of Tamba plateau is about 5km, so we expect to know the seismic structure beneath this region with higher resolutions than that derived from the permanent stations.

In this study, we estimate high-resolution seismic velocity structure using data from this dense observations. We will show the results of 3D seismic velocity tomography and discuss about the relations between the seismic activities and other geophysical and geological features of this area.

Keywords: the Northern Kinki District, seismic structure, seismic velocity tomography

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