Three-dimensional seismic velocity structure of Iwate volcano

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We determined three-dimensional seismic velocity structure of Iwate volcano using tomographic inversion of P and S wave arrival times from local earthquakes. A predominant feature found in P velocity structure on the E-W cross section passing through the summit of the volcano is high velocity bodies obliquely running from the western region at 4 km depth beneath an older volcano to eastern region in 0 - 1 km depths beneath the present crater. And on the same cross section, we can find low velocity bodies located in 0 - 3 km depths adjacent to west of the above high velocity body.