Seismic attenuation region beneath Miyake-jima volcano inferred from the waveform analysis with teleseismic events

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In order to detect the seismic attenuation region beneath Miyake-jima volcano which is expected to be the magma reservoir, the seismograms of 10 teleseismic events are classified according to degree of attenuation of the waveform. From the distribution of the paths of seismic rays which are characterized by degree of attenuation, the seismic attenuation region is found beneath south-eastern flank of Miyake-jima volcano at the depth of 3-6km.