3-D attenuation structure and geometrical spreading factor based on strong motion data.

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The simultaneous inversion of a three-dimensional attenuation structure and the geometrical spreading factor was analyzed by using K-NET and the JMA87 strong motion seismograph record. It was assumed that the geometrical spreading factor was the same in each group classified by the depth of the earthquakes. The result obtained as r=1.32, 1.16, 1.14, 1.04, and 1.01 each geometry attenuation of the earthquake focal depth 0-30km, 30-60km, 60-90km, 90-120km, and >120km, respectively