3-D attenuation structure and site amplification based on strong motion data.

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We study 3-D attenuation structure tomograpic inversion method using strong motion spectrum data. Observation stations are classified to 5 groups according to the predominant period on the ground surface and station condition. We considered amplification factor of these groups as unknown parameter of inversion. The result of inversion showed that the Pacific plate tend to show high Q and peak periods of the amplification factors of 5 groups are coincident with the predominant periods.