

Estimation of spectral amplification using the H/V spectrum ratio of microtremor and geomorphological land classification

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The amplification rate of the shallow structure that can be used in the whole country multiplies the amplification magnification at the maximum velocity by average V_s velocity among the amplification rates used for a present Strong Motion. In this study, the relational expression that was able to be used in the whole country was presumed.

We measured microtremor in the beginning in almost all of the site of K-NET and the KiK-net. The Strong motion data of K-NET and KiK-net was used with K-NET corresponding to the attenuation relation of the response spectrum. (kanno.et.al(2006))

As the future research, about the H/V spectrum of the microtremor data, a part of minute geographical features division is always subdivided (Matsuoka(2005)), decentralization is reduced by the H/V spectrum piling match of each division as much as possible, and estimate the amplification spectrum shape at each best division is studied with the minute geographical features division.