

## Applicability of microtremor H/V method-Kik-net and Nobi plain-

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In order to verify the applicability of microtremor H/V method, we carried out the microtremor observation for the KiK-net earthquake observation sites (102 points) and the strong motion observation sites in the Nobi Plain (44points). We compared the microtremor H/V spectrum with the earthquake H/V spectrum. The result of research is as follows.

(1) In microtremor H/V, a primary peak appears at a very high rate.

(2) Correspondence with as sufficient primary peak frequency as an earthquake motion is seen, and since variation is also small, applicability of microtremor H/V is high.

(3) As for primary peak amplitude, although correspondence is regarded in general as an earthquake motion, applicability of microtremor H/V is restricted because variation becomes large depend on the frequency,

(4) Since correspondence is bad and becomes large variation about spectrum form, applicability of microtremor H/V is low.