

Shallow S-wave Velocity Sounding using the Microtremors Array Measurements and the Surface Wave Method.

Haruhiko Suzuki[1], Koichi Hayashi[1]

[1] OYO

S-wave velocity structures are very important in many engineering problems, such as earthquake hazard protection. The demands for investigating S-wave velocity models with small survey cost are increasing. We examined the microtremors array measurements and surface wave method and estimated the applicability of these methods to the detection of the shallow S-wave velocity structure. As the results of experiments, we confirm the integrated use of these methods is effective for sounding the shallow S-wave velocity structure.

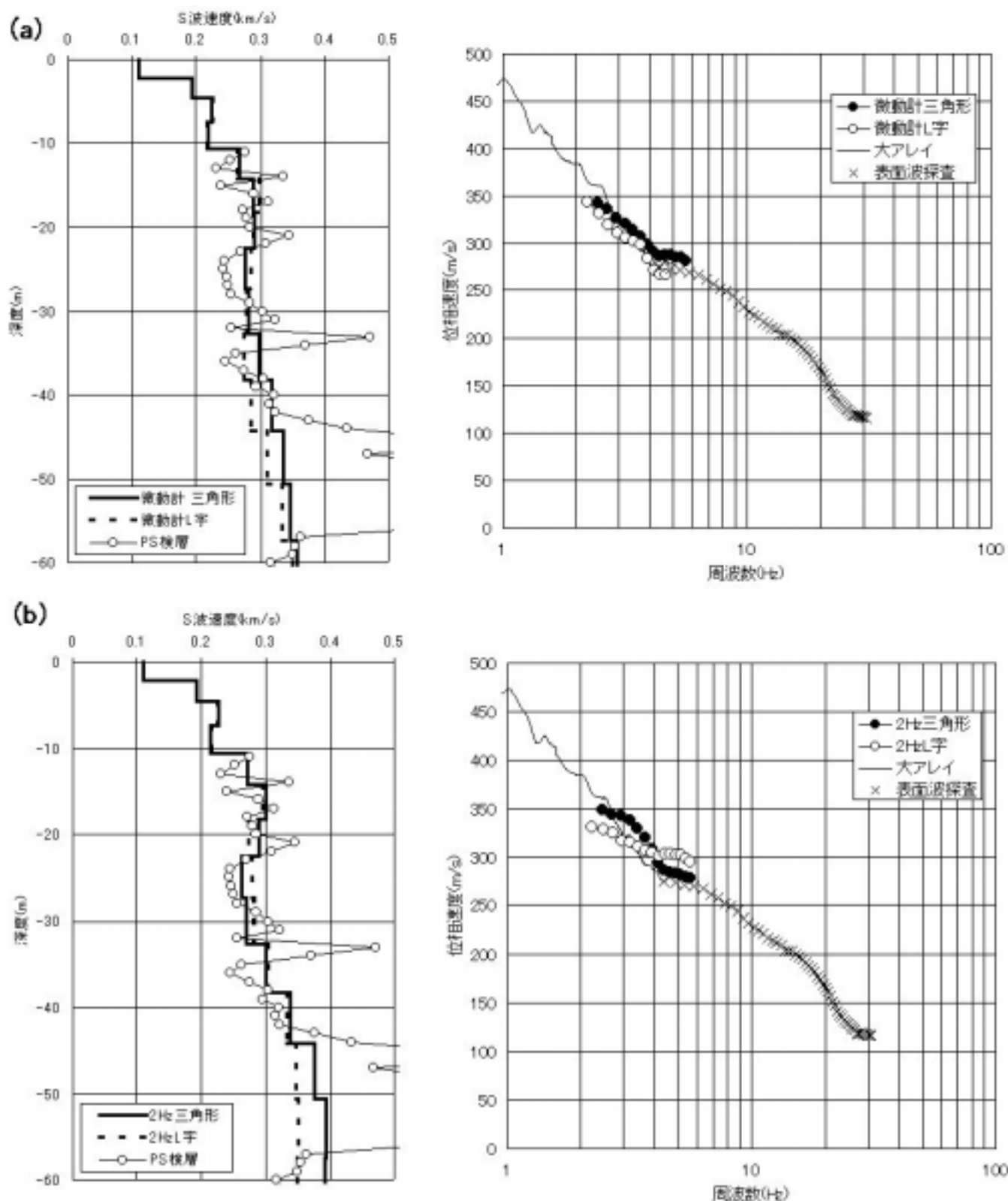


図1 逆解析により求めたS波速度構造(左)と位相速度曲線(右)
 (a)微動計結果 (b)2Hzジオフォン結果