

Some requirements of broadband OBS observation for body waves structure of upper mantle beneath ocean region

Yuka kaiho [1], Brian L. N. Kennett [2]

[1] JAMSTEC, [2] RSES, ANU

We compiled requirements of broadband OBS observation for body waves structure of upper mantle beneath ocean region. 1~10 seconds band of broadband seismograph are important for bodywaves. 1~100 seconds band of broadband seismograph are important for surfacewaves. We show the example of total OBS number-duration estimation to record enough natural earthquakes. Epicentral distribution must curve around observation area which have simple structure.

To raise a resolution of a depth, we need the observation point at ocean bottom if there are short distance suitable for a shallow mantle structure.