

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

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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.