

Analog model of basement structure below the Osaka Plain

Masaki Takahashi^{1*}

¹Geological Survey of Japan, AIST

It is commonly discussed the difficulties on promoting the geologic results for the students as well as citizens. To solve this problem, I made three-dimensional analog model of basement structure below the Osaka Plain. The horizontal scale of model is 1/100,000 but vertical scale is emphasized as 500%. Because the model was painted by gradations in color from yellow (Shallow) to dark blue (deep), it can be easily recognized the contrast between subsurface steep precipice and gentle slope of basement structure. Among them, the Uemachi Active Fault is characterized by sharp drop of basement depth below the Osaka Plain. Thus the analog model of basement structure below sedimentary basin would be helpful to understand why long-period ground motion is amplified in the sedimentary plain such as the Osaka Plain.

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