Estimation of Seismogenic layer in Wakasa bay area(2)

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For estimation of seismogenic layer in Wakasa bay area, tomographic imaging of P and S wave velocity structure were conducted. We chose good data of overall accuracy of focus in area of 36.5 degrees from 137 degrees, lat. 33.5 degrees N from long. 134.5 degrees E and, among data of a The Annual Seismological Bulletin of Japan For 2004. The earthquakes magnitude is more than 0.5 are selected. 7528events and 134 observation points is used in tomographic imaging. We used program of Zhao(1992).

The shape of the layer P-wave velocity is 6km/s is correspond to the result of Singu-Maizuru line refraction survey conducted by Special Project for Earthquake Disaster Mitigation in Urban Areas. But the depth of the layer P-wave velocity is 6km/s is deeper from 1.5 to 3km than the result of refraction survey. In Wakasa bay, the depth of P-wave velocity is 6km/s is about 6km from tomographic imaging. By the comparison with refraction survey result, we estimated the depth of the layer P-wave velocity is 6km/s is 6km/s is 6km/s is 4km. The distribution of poisson's ratio form 0.2 to 0.25 is correspond to the seismicity.

We assume seismogenic layer is form 4km to 18km depth by the result of tomographic imaging, array measurements of microtremors and seismic motions and seismicity in Wakasa bay area.