

## Geological structure around the northwest coast of Awaji Island revealed by seismic profiling: When did faults become active?

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We estimate deep geological structure and ages of fault activity around the northwest coast of Awaji Island, by using reflection profiling data. Similar reflection pattern of the Plio-Pleistocene Osaka Group suggests that sedimentation of the Osaka Group started around 0.9Ma in the Harima-nada. Assuming uniform fault activity, activated age of the Nojima fault is estimated to be around 0.8-0.9Ma on the basis of vertical displacement of the bottom of the Miocene Iwaya Formation, and around 0.7-0.9Ma on the basis of similarity between basement undulations and level changes in the lower side of the Nojima fault. These data suggest that activity of many faults in this region may have started around 0.9Ma.