

Detailed aftershock activity by urgent joint seismic observation of the 2005 west off Fukuoka earthquake (M7.0)

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On March 20, 2005, a large earthquake with $M=7.0$ (JMA) occurred at west off-Fukuoka City. Many houses had damaged in Genkai-jima island located near the earthquake fault. We carried out temporal seismic observation around the aftershock area of the earthquake just after the occurrence of the main shock. Six online telemetered and 17 offline recorded seismic stations were deployed (Shimizu et al., this meeting). In this study, we analyzed seismograms obtained by the seismic stations in order to determine precise hypocenter distribution and their mechanisms. We determine precise hypocentral distribution by the DD method. There are 3 clusters in aftershock area. Northern part of cluster, azimuth is NW-SE direction, and its length is 5km. Direction of P axis is almost E-W direction. Central part of cluster, the main shock is in it, azimuth is WNW-ESE direction, and its length is 10km. Southern part cluster, azimuth is WNW-ESE direction, and its length is 10km. In this region, the shape of hypocentral distribution is not sharp.