

Shear wave polarization anisotropy in and around the focal region of the 2005 West off Fukuoka Prefecture earthquake (2)

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Since the 2005 West off Fukuoka Prefecture earthquake (MJ7.0) occurred in Genkai-nada on March 20, 2005, we have been carrying out aftershock observation with temporary seismic stations around focal region. From the analysis of aftershock records obtained in these temporary observation station and existing permanent observation station, we reported in the 2005 autumn meeting of seismological society of Japan that shear wave polarization anisotropy is in this region. We proceed analysis and tried detect temporal change of shear wave polarization anisotropy.

Analysis was divided into the following four periods and performed. I. Up to March 28 which the seismic activity inside the Hakata-bay activates from main shock occurred, II. Up to April 10 which seismic activity activates directly under the Shikanoshima island from March 28, III. from April 10 to the largest aftershock occurred, IV. From after the largest aftershock occurred to the end of April.

Although we did not detect temporary change of the shear wave polarization anisotropy between each period, if temporal change of shear wave polarization anisotropy is detected, we will be able to monitor the stress state under the ground and obtain important information on transition of aftershock activity.