

ULF Magnetic Anomaly Associated with an Earthquake (M=4.5) at Matsushiro Underground Observatory

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ULF magnetic anomaly associated with an earthquake (M=4.5) occurred around Matsushiro underground observatory (distance is about 20km) on July 1, 1998. Induction type magnetometer have been installed there and three components data with 85Hz sampling are recorded. Detailed spectral analysis has been performed. Results indicated that the horizontal magnetic intensity was enhanced one day before and the day of the earthquake and the spectral density ratio between vertical and horizontal components was enhanced a few weeks before earthquake.