

An experiment on receiving ACROSS signal with a seismic array

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Experiments using seismic array for receiving ACROSS signal are carried out for a week in Mizunami. ACROSS system is a new observation method to monitor the temporal variation in seismic wave velocity. There are some observation systems that are extensometer, borehole strainmeter, borehole seismometer and water gauge. The monitoring will enable us to interpret the cause of the temporal variation especially due to subsurface water. Seismic array has been installed along the extensometer to detect the temporal variation. In this study, we focus on identifying static particular phases in seismic waves before the monitoring. We used semblance method to estimate a propagated direction and an apparent velocity. Direct P wave and some later phase are also found after the P wave arrival.