

A scanning method of detecting an earthquake

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We proposed a scanning method of detecting and locating an earthquake. We assumed 3-D and time grid points in the studied area. To detect an earthquake, we calculated a semblance of observed waveforms about all the grid points. A resolution of an hypocenter of an earthquake detected by this method depends on a size of spacing. This method is applicable for a detection of a foreshock activity by watching a specified area and a separation of earthquakes such as swarm earthquakes or an aftershock activity.