

Hypocenter of very long-period seismic events at Mount Iwate ,1998, located by a semblance analysis

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We determined hypocenters of very long-period seismic events observed at Mount Iwate in 1998. Assuming a point source, we calculated the semblance coefficients by using the vertical components of broad-band seismograms recorded at six stations that were deployed around Mount Iwate. The hypocenters, which corresponds to the largest semblance coefficient, were located at a few kilometer depth of the region from Inukura-yama to Ohmatsukura-yama. For each of the very long-period events, the seismic source indicated a migration of about 3 km from east to west during 5 to 10 seconds after its occurrence.