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Seismic Scatterer Distribution Estimated from Seismic Array Observations in Ou Backbone Range of Tohoku

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In order to investigate the heterogeneity structure within the crust and upper mantle, intensified observations were carried out in and around Ou Backbone Range, northeastern Japan, from July to November 1998. Seismic wave from eleven explosions were recorded at thirteen small-aperture seismic arrays we deployed in this area. We estimated locations of seismic wave scatterers by a semblance analysis taking account of scattered wave amplitudes. Remarkable scatterers are located around the fault planes of Senya and Kitakami active faults and that of 1998 Shizukuishi earthquake of M6.2. Moreover, we found some scatterers close to the S-wave reflectors i