Decayf of first motion of seismic wave from the explosion in the southern part of Akita Prefecture

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Seismic refraction survey was carried out along the EW profile in the Tohoku District in 1997. We observed the explosions along the 20km-long profile in the northern part of Yamagata Prefecture, which was about 50km from the EW profile. A very clear later phase appeared 0.8 sec after the first arrival of the shot L6(detonated at Iwaki), but later phases could not be identified for L5(Ohmagari) which was located about 30km east of L6. We examined amplitude of the first motion of L5 and L6, and found that decay of the first motion for L6 is larger than L5. Small first motion may be one of the reasons why arrivals of the later phase were clear for L6.