

SCG010-P10

会場:コンベンションホール

時間:5月25日 10:30-13:00

荒砥沢巨大地すべり山塊の地震に誘発された傾斜、上昇・下降運動 Earthquake-triggered tilts, up and down motions of a huge mass in the Aratozawa Land-slide Area

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The 2008 Iwate-Miyagi Nairiku Earthquake induced a huge landslide at the upper reaches of Aratozawa reservoir. The movement of a huge mass that is 600m*500m in size reached to about 340m in distance. We performed aftershock observations in the Aratozawa area using broad-band strong-motion seismometers. We detected transient long-period horizontal and vertical ground motions in aftershock seismograms. The long-period horizontal and vertical ground motions are due to tilts and up/down motions of the ground triggered by aftershocks, respectively. Site amplification characteristics for the mass show a significant peak at around 1 Hz, suggesting a resonant vibration of the mass due to the incidence of seismic waves. The results obtained in this study indicate instability of the huge mass that has experienced a large landslide.

キーワード: 地すべり, 荒砥沢, 岩手宮城内陸地震, 地震応答, 地盤傾斜, 地盤上昇下降

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