Ground Penetrating Radar survey of the large-scale landslide structures by the 2004 Niigataken-Tyuetsu Earthquake

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After the 2004 Niigata-Tyuetsu Earthquake (Mw 6.9), many landslides occurred in Yamakoshi-mura, located on south of Niigata prefecture. We surveyed the biggest of them called Kazikane landslide (about 300000m² in square) with using a ground penetrating radar(GPR). GPR unite(SIR-3000)and antennas of 100 MHz frequency were used. Three survey lines were carried out along the slide direction. GPR image of these survey lines clearly imaged the slip surface, displaced block, open clack, landslide graben. We will discuss about the efficiency of GPR survey for landslide survey.