

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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ACC028-12

Room:102

Time:May 24 11:30-11:45

Snow accumulation observation in Shiretoko Peninsula by GPR

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Snow accumulation observations by GPR (Ground Penetrating Radar) has been done along a national road transvsal in Shiretoko Peninsula every March since 2005. Since the road is colsed in winter, the GPR on a sledge was pulled by a snow vehicle. The antenna of GPR was 800 MHz and data was logged ever second.

The snow accumulation was measured from a roud-trip time of reflection signal from a road surface. Since the velocity of electro-magnetic wave depends on snow density, the observation of snow density of snow accumulation or the interval measurements of snow depth by a sonde pole were necessary.

Snow accumulation was constant, about 1-2 m, along a raod in the forest area, small in ridge area by snow blown out, and large in valley area by snow drift.

Keywords: Shiretoko Peninsula, Trans Siretoko Road, Snow accumulation, GPR