## Japan Geoscience Union Meeting 2015

(May 24th - 28th at Makuhari, Chiba, Japan)

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SSS66-P16

Room:Convention Hall

Time:May 26 18:15-19:30

## Detectability of landslide surface deformation triggered by 2015 Nepal earthquake using ALOS-2/PALSAR-2 data

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2015 Nepal earthquake ( $M_w$ 7.8; USGS, 2015) caused remarkable crustal deformation in wide area from north to 30 km east from Kathmandu, its maximum amount was 1.2 m in uplift (Geospatial Information Authority of Japan, 2015). Apart from the crustal deformation, JAXA (2015) reported that landslide surface deformation occurred near Langtang Villege in Langtang National Park and surface depression in the city of Kathmandu. Furthermore, interpretation of pre- and post-earthquake satellite imagery in high resolution, shown in Digital Globe Web, revealed many landslide surface deformations triggered by the earthquake. In this study, these deformation sites were overlaid on InSAR images produced from ALOS-2/PALSAR-2 data, and detectability of the landslide surface deformation from the InSAR images will be examined.

## References

Geospatial Information Authority of Japan (2015): http://www.gsi.go.jp/cais/topic150429-index.html JAXA(2015): http://www.eorc.jaxa.jp/ALOS-2/img\_up/jdis\_pal2\_npl-eq\_20150426\_2.htm USGS(2015): http://earthquake.usgs.gov/earthquakes/eqarchives/poster/2015/20150425.php

Keywords: earthquake, landslide, deformation, ALOS-2, PALSAR-2, SAR