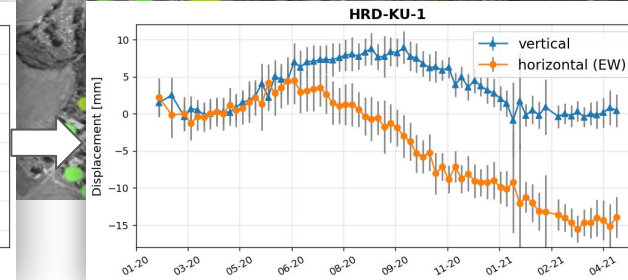
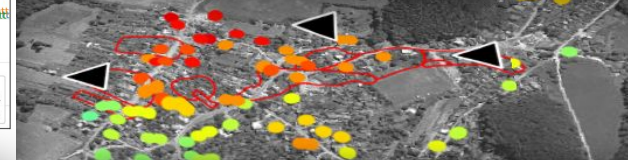
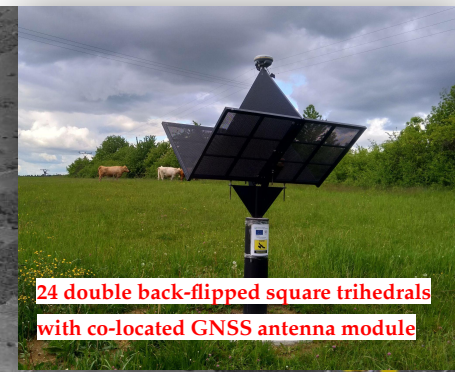
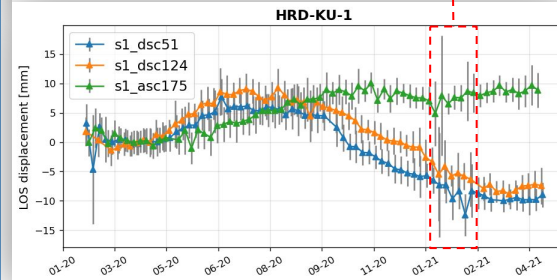
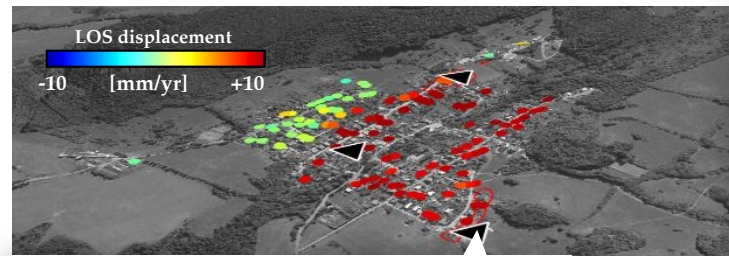


Corner Reflector Network as a Geodetic Reference for Landslide Monitoring via InSAR Time Series

(Czikhardt et al.)

CR = “a costly PS”, but...

- A reliable PS with:
 - RCS-based outlier detection
e.g., snow cover
 - quality control
SCR > 20 dB, displacement time series
RMSE: ~ 0.6 - 0.9 mm for 3 SNT-1 tracks
⇒ early-warning potential
- Double-CR & GNSS co-location
⇒ assumption-less LOS decomposition
in an absolute geodetic reference frame
- Improved 3D positioning accuracy of nearby PS
“differential corrections” with RMSE on
independent CR and DSM for SNT-1:
~ 0.2 m range, 0.9 m azimuth, 4.1 m cross-range



Article

GECORIS: An Open-Source Toolbox for Analyzing Time Series of Corner Reflectors in InSAR Geodesy

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