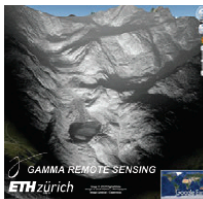


Area of interest on the campaign day. On the lower right, the local GNSS reference station is situated to obtain a highly precise post-processed kinematic GNSS solution of the UAV position.

Google Earth (GE) view of UAV-borne L-band SAR backscatter intensity image with UAV flight trajectories in the foreground.

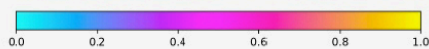
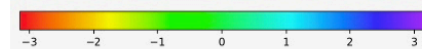
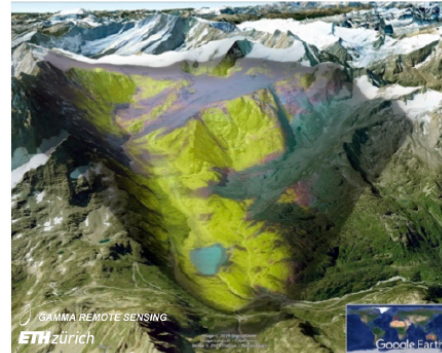
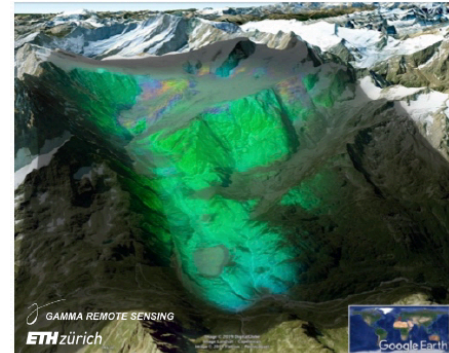
Google Earth view of UAV-borne L-band differential interferometric phase (left) and coherence (right) for nominally zero spatial baseline and a temporal baseline of 3 minutes. The flight tube of these two repeat-tracks are within 1m radius. With the exception of forested areas in the near range and areas with severe foreshortening a very high coherence is obtained and the interferometric phase is also stable.

Google Earth view of UAV-borne L-band differential interferometric phase (left) and coherence (right) for nominally zero spatial baseline and a temporal baseline of 3 minutes. The flight tube of these two repeat-tracks are within 1m radius. With the exception of forested areas in the near range and areas with severe foreshortening a very high coherence is obtained and the interferometric phase is also stable.



Car-borne setup of the L-band SAR system with one transmit and three receive antennas. Repeated SAR data acquisitions of the Stein Glacier were made while driving on a slightly curved section of mountain road.

Google Earth view (left) of the Stein Glacier test site (CH). Geocoded intensity image (right) overlaid to Google Earth view as obtained from a car-borne L-band SAR acquisition.



Differential interferogram (left) and coherence magnitude (right)—each blended with a multi-look intensity image—with a temporal baseline of 1020 min (17h) of the Stein Glacier and surrounding area in a 3-D view. The view position of the visualization is above the road section where the car-borne acquisition took place, otherwise looking roughly in the main line-of-sight direction of the radar.

If you are interested in more details, feel free to get in touch:

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