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Parameters for River Run-Off Measurements Obtained From SAR Interferometry

H Runge (1), S Suchandt (1), T Eiglsperger (2)

(1) German Aerospace Center, DLR, 82234 Wessling, Germany, (2) University of Erlangen-Nürnberg

For a long time Synthetic Aperture Radar (SAR) data have been used to measure the width of rivers and the extension of flooding. However, advanced multi-channel and interferometric SAR sensors do also allow for the measurement of the river surface velocity (with Along Track Interferometry, ATI) and the water level (with Across Track Interferometry). First results will be shown from airborne SAR campaigns and an outlook will be given to the upcoming spaceborne SAR missions TerraSAR-X and Tandem-X.