

Geowissenschaftliches Kolloquium

From seismotectonics to geodesy - What is (un) correlated in the W-Alps?

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Recent geodetic analyzes in the W-Alps brought new accurate quantification of the vertical and horizontal deformations in the belt. Vertical motions appear about 10 times larger than horizontal ones, which support geodynamic models implying

isostatic adjustments within the Alp's orogeny (intrinsic buoyancy forces). Indeed, still debated deep structures would play a major role in the current dynamics. However, surface processes implying GIA and erosional unloading also play a first role as they directly impact the buoyant equilibrium of the Alps.



Christian Sue is full professor in tectonics and geodynamics at the Franche-Comte University, France. After engineer studies at the Mines High-School of St-Etienne, he has got a PhD in geophysics and structural geology in 1998 in Grenoble. Then, he worked in Neuchatel as assistant professor, and became professor in 2006 in Brest. His works focus on orogen dynamics, tectonics and neotectonics, specifically in the Alps and the Southern Andes.

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