

Geowissenschaftliches Kolloquium

Integrated modeling of the surface-deep Earth

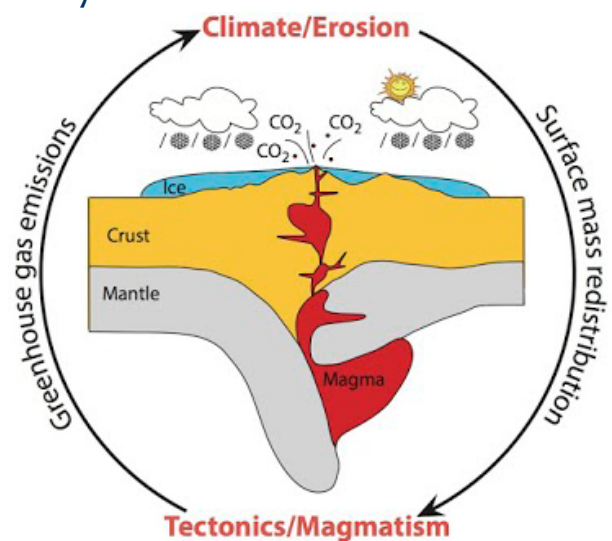
processes coupling: pitfalls and goals

Donnerstag, 16. Januar 2020 - 16.15 Uhr

Pietro Sternai

Università degli Studi di Milano-Bicocca - Italy

The Earth's topography is controlled by interacting deep (e.g. plates motion, mantle convection) and surface (e.g. erosion, ice building/melting) processes. In this talk I will show how numerical modeling constrained by geological observables and experimental/geophysical measurements can be used to better understand these interactions. Discussing natural case studies along the Neo-Tethyan margin, especially the European Alps, I will particularly focus on the current knowledge in the field, the goals to be aimed at and the pitfalls for this research.



Pietro Sternai is a numerical modeler of the surface-deep Earth processes interactions. After a PhD at the ETH-Zurich (2012) and two postdocs at the University of Orléans (2012-2014) and Caltech (2014-2016), he obtained an Ambizione Fellowship (Swiss NSF) and moved to the University of Geneva (2016-2019). He became Assistant Professor at the University of Milano-Bicocca in March 2019.

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