Geophysical Research Abstracts Vol. 17, EGU2015-14118, 2015 EGU General Assembly 2015 © Author(s) 2015. CC Attribution 3.0 License.



Non-Lithostatic Pressure and Transformation-Induced Boudinage

Yury Podladchikov (1) and Marcin Dabrowski (2,3)

(1) University of Lausanne, Institute of Earth Sciences, Lausanne, Switzerland (yury.podladchikov@unil.ch), (2) Computational Geology Lab, Polish Geological Institute - National Research Institute, Wroclaw, Poland, (3) University of Oslo, Physics of Geological Processes, Oslo, Norway

(Ultra) high pressure rocks often found as competent boudanes within lower pressure less competent rocks. Competent layer parallel extension would cause underpressure. We explore densification as the reason for boudinage, monitor related evolution of the pressure field and discuss its geodynamic implications.