

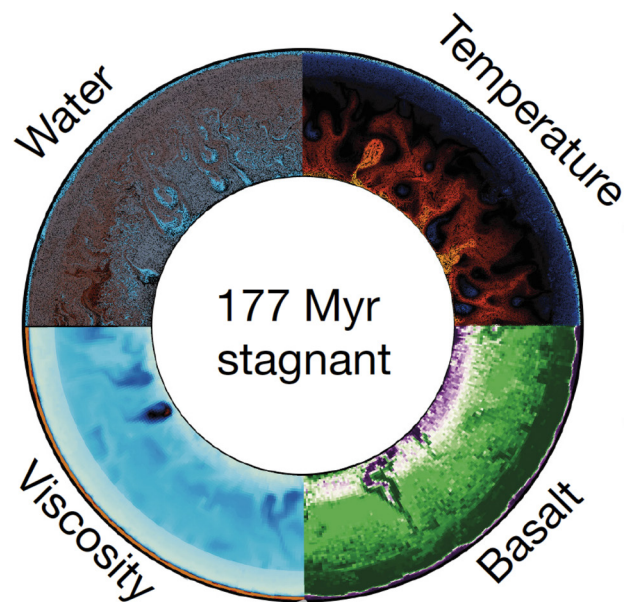
Geowissenschaftliches Kolloquium

Modelling continental crust formation on Archean Earth

Donnerstag, 3. Mai 2018 - 16.15 Uhr

Gregor Golabek
Universität Bayreuth

Here we investigate the creation of primordial TTG-like continental crust using self-consistent numerical models of global thermochemical convection associated with magmatic processes. We show that the volcanism-dominated heat-pipe tectonics model results in cold crustal geotherms and is not able to produce Earth-like primordial continental crust. In contrast, the Plutonic squishy lid tectonics regime dominated by intrusive magmatism results in hotter crustal geotherms and is capable of reproducing the observed proportions of various TTG rocks.



Curriculum vitae (selection):

Since 2015	Associate Professor, Bayerisches Geoinstitut
2013 - 2015	Senior Researcher, ETH Zurich
2012	Researcher, ETH Zurich
2011 - 2012	Post Doc, École Normale Supérieure, Lyon, France
2010	Ph. D., Zurich

Institut für Geologische Wissenschaften

Großer Hörsaal (C.011), Haus C
Malteserstrasse 74-100
12249 Berlin

