

# LUCKY #13: International Workshop on Modelling of Mantle and Lithosphere Dynamics

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## PS 2 Linking surface and deep processes

Barry et al.	Can variations in radial viscosity explain the persistence of Indian MORB mantle in the shallow-most asthenosphere over 100's millions of years?
Bull et al.	The Effect of Plate Motions on the Longevity of Deep Mantle Heterogeneities
Davies	Global Heat Flow Map
Doubrovine	TBA
Flament et al.	Global models of mantle flow and lithospheric stretching since the Jurassic
Kaislaniemi et al.	Sub-lithospheric small scale convection - a mechanism for continental collision magmatism
Li et al.	Effects of a low viscosity post-perovskite on the stability and structures of the primordial dense reservoirs in the lower mantle
Mulyukova et al.	Numerical Modeling of Deep Mantle Flow: Thermochemical Convection and Entrainment
Nakagawa & Tackley	A coupled thermo-chemical evolution of Earth's mantle and core: Effects of a three-component mantle dynamics
Shahraki & Schmeling	Temporal variation of the geoid and dynamic topography inferred from geodynamics modeling
Shahraki & Schmeling	Effects of Post-perovskite phase change on the observed geoid
Steinberger et al.	Possible links between subduction history, generation of mantle plumes, true polar wander, core-mantle-boundary heat flux and core processes
Tackley	Evolution of mantle convection and plate tectonics from a hot/molten initial state on Earth and super-Earths
Fuchs et al.	Numerical models on thermal and rheological sensitivity of deformation pattern at the lithosphere-asthenosphere boundary
Golabek et al.	Towards coupled giant impact and long term interior evolution models
Plesa et al.	How can we constrain the amount of heat producing elements in the interior of Mars?
Rolf et al.	The timescales of continental drift controlled by the strength of the lithosphere?
Rozel & Tackley	Internal temperature and heat flux in a super-Earth
Torsvik et al.	Linking mantle dynamics to plate tectonics
Trønnes et al.	Chemical geodynamics of the NE Atlantic and Arctic mantle
Werner	The earliest evolution of Moon, Mars and Mercury - How old are their oldest surfaces?