

Mantle convection modeling

mercredi 5 juillet 2023 14:25 (25 minutes)

I will give an overview over key aspects of geodynamic numerical modelling of the solid Earth following our review paper (van Zelst et al. 2022) and the annual EGU short course titled “Geodynamics 101: Numerical modelling”. Numerical modelling aims to gain scientific understanding of a certain real-Earth observation. It consists of a physical and numerical model, a numerical code, a specific model setup, in-depth model validation, production runs and their analysis, and finally the fair communication of findings and software and data management. The presentation will provide do’s and don’ts for any modeller, but also any non-modeller to better collaborate on and/or review numerical modelling research.

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Classification de Session: Open questions in the study of Earth’s mantle and core