Session Title: Global Geodynamics

**Conveners:** Julian Lowman\(^1\), Claire Currie\(^2\)

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**Session Description**

This session invites the presentation of research investigating the character and evolution of the Solid Earth and other rocky planets in response to forces owing to internal or external energy sources. Research discussing all aspects of geodynamic modelling and observation are encouraged, from advances investigating changes to planetary figure to studies of the deep interior enabled by the implementation of laboratory or modelling methods. Relevant topics include: observational approaches for describing Solid Earth processes in both plate boundary and intra-plate settings; laboratory measurements and modelling studies that investigate the composition, structure and dynamics of the crust, mantle and core; comparative planetology and studies placing the Earth’s evolution in the context of other rocky bodies; the unravelling of early Earth history including the history of continental growth and movement; and the dynamic processes that govern the topography of the Earth and other terrestrial bodies.

**Primary Affiliation:** CGU, Solid Earth

**Joint Session Partner:** CGU, Earth Surface Processes