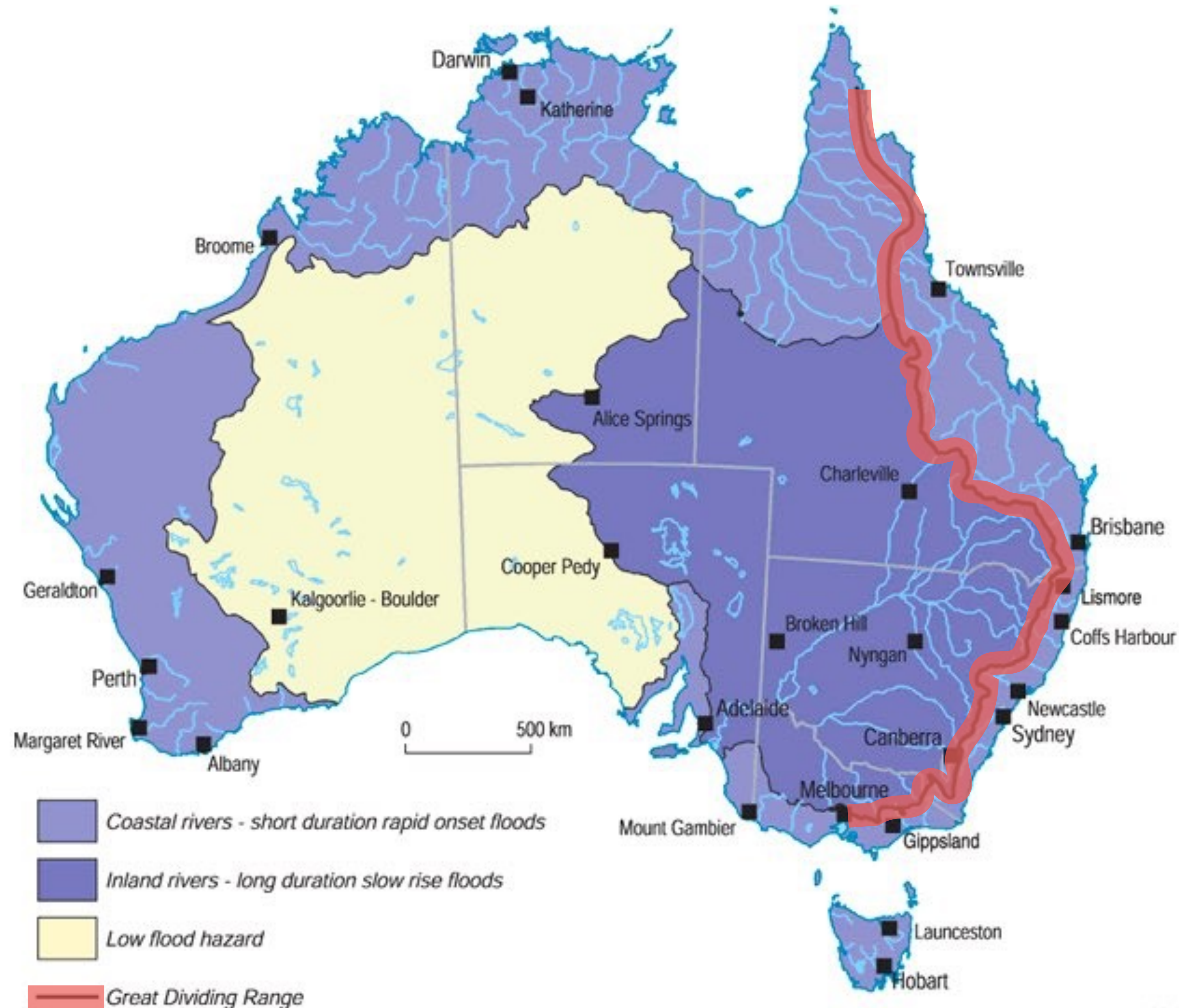


Continental scale model

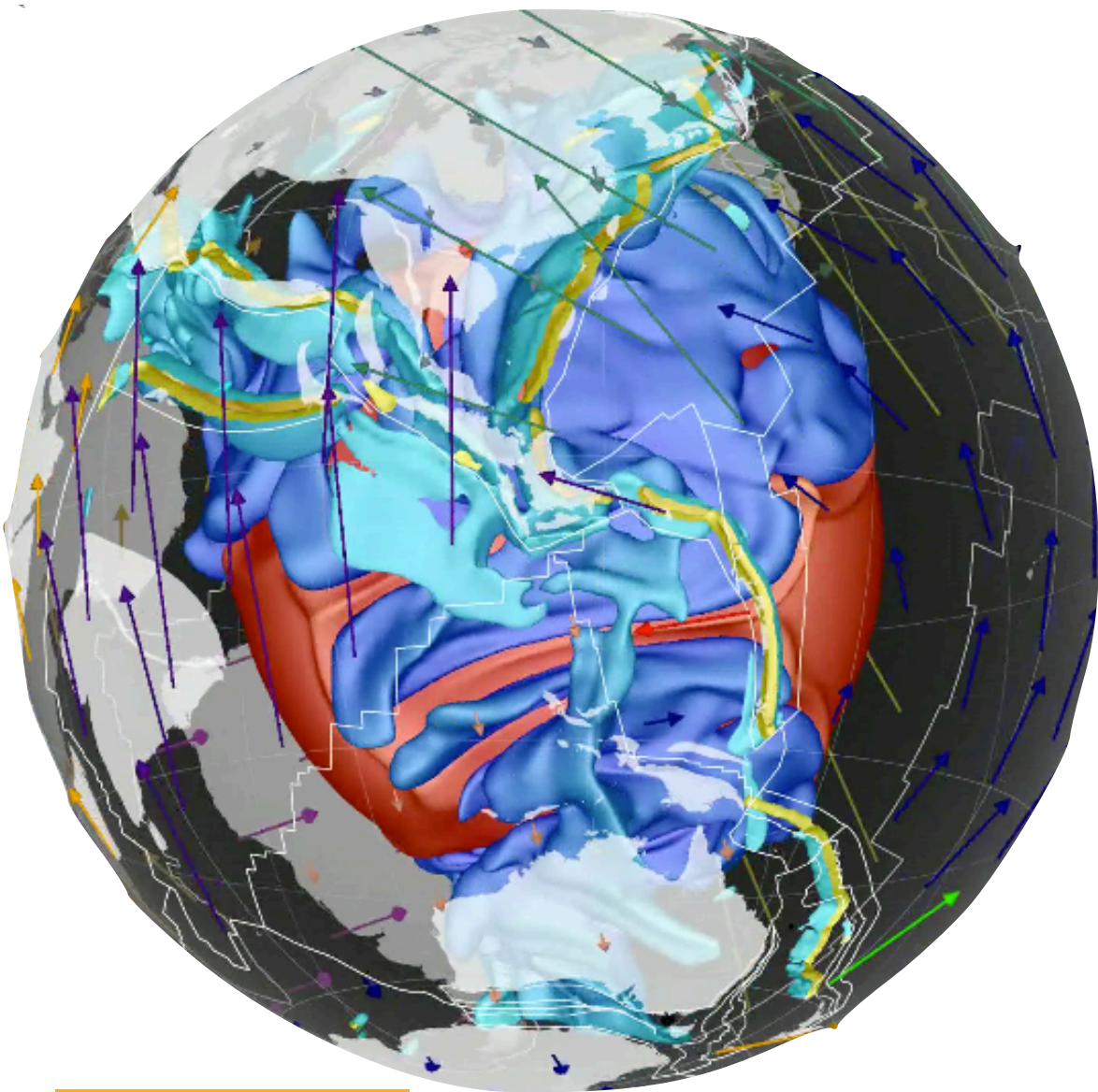
Dynamic topography induced drainage reorganisation of Australian Great Dividing Range



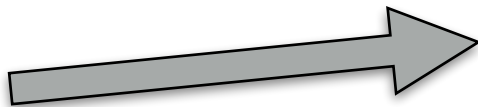
- Can we reproduce the first-order features of the eastern Australian landscape by forward modelling erosion and deposition of sediments over 150 million years?
- Location and geometry of Great Dividing Range
- Coastal rivers
- Inland rivers
- Distribution and geometry of catchments

Our Experimental Virtual Earth with SPM

Mantle convection

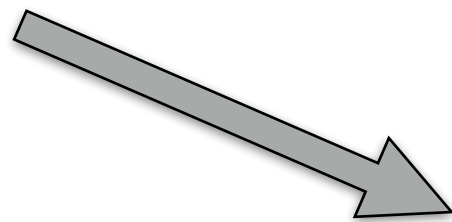
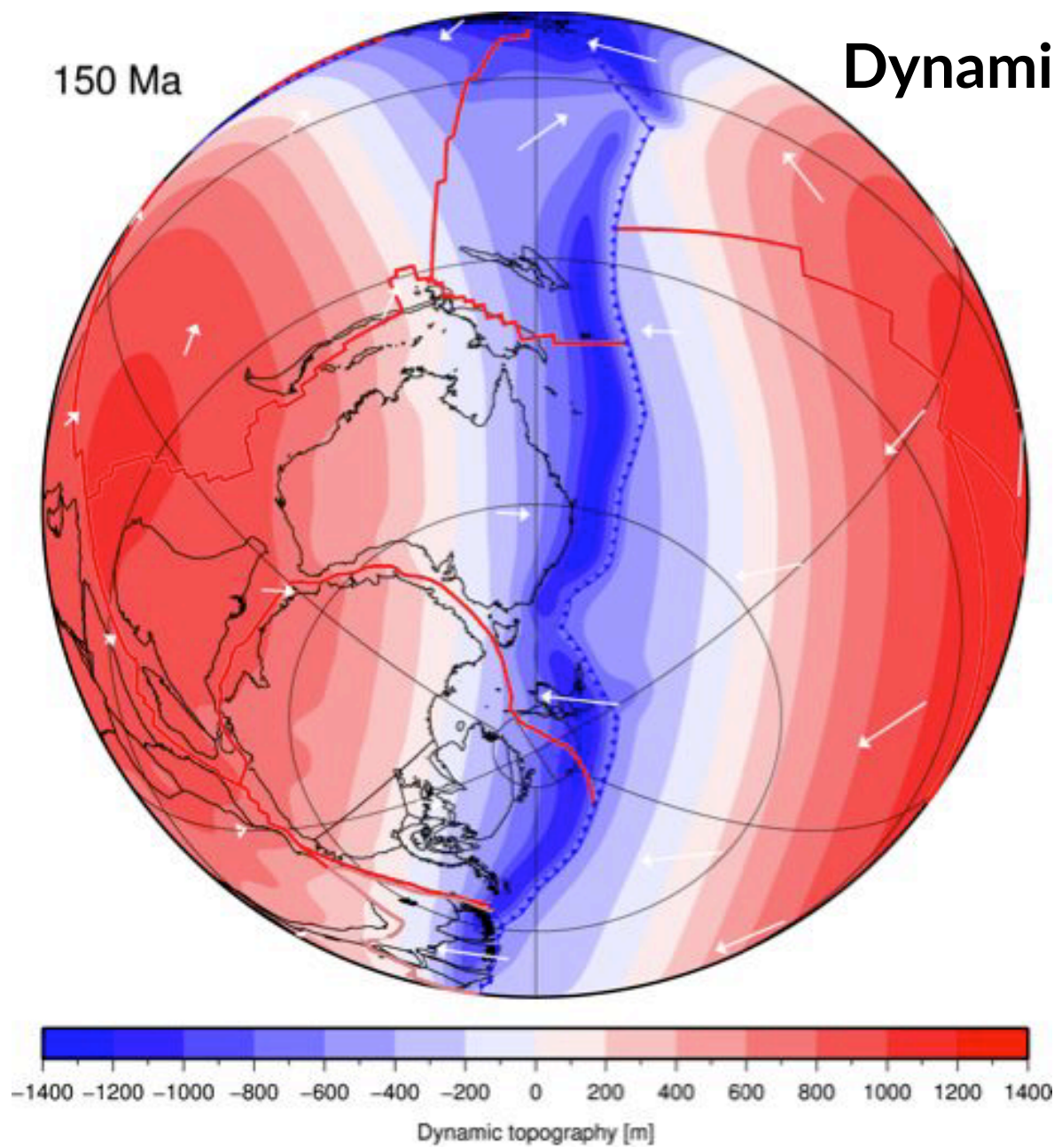


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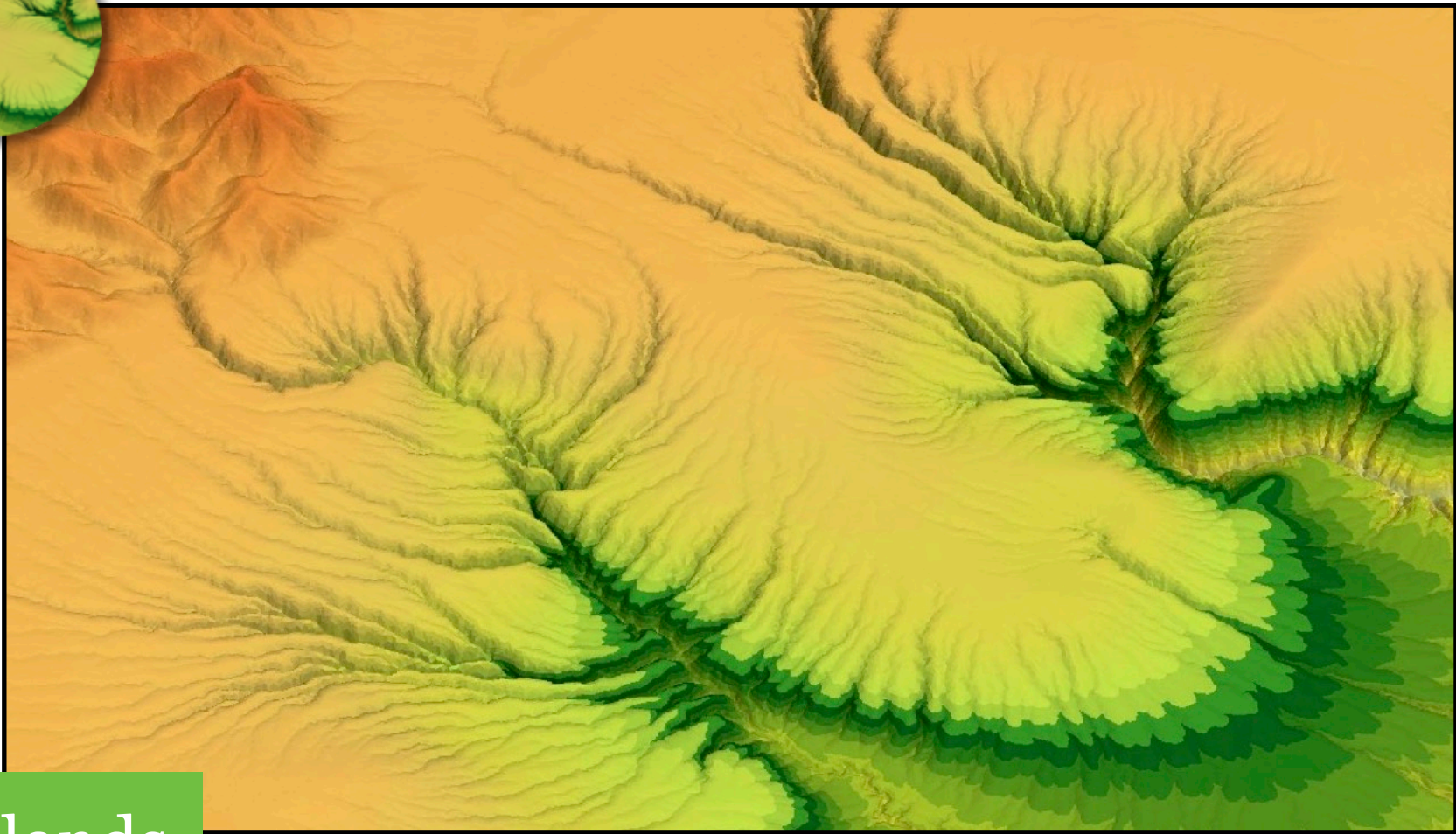
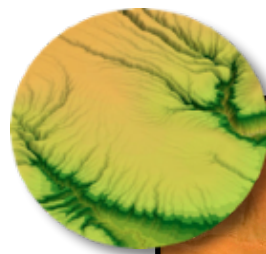


150 Ma

Dynamic topography



Landscape evolution



Badlands