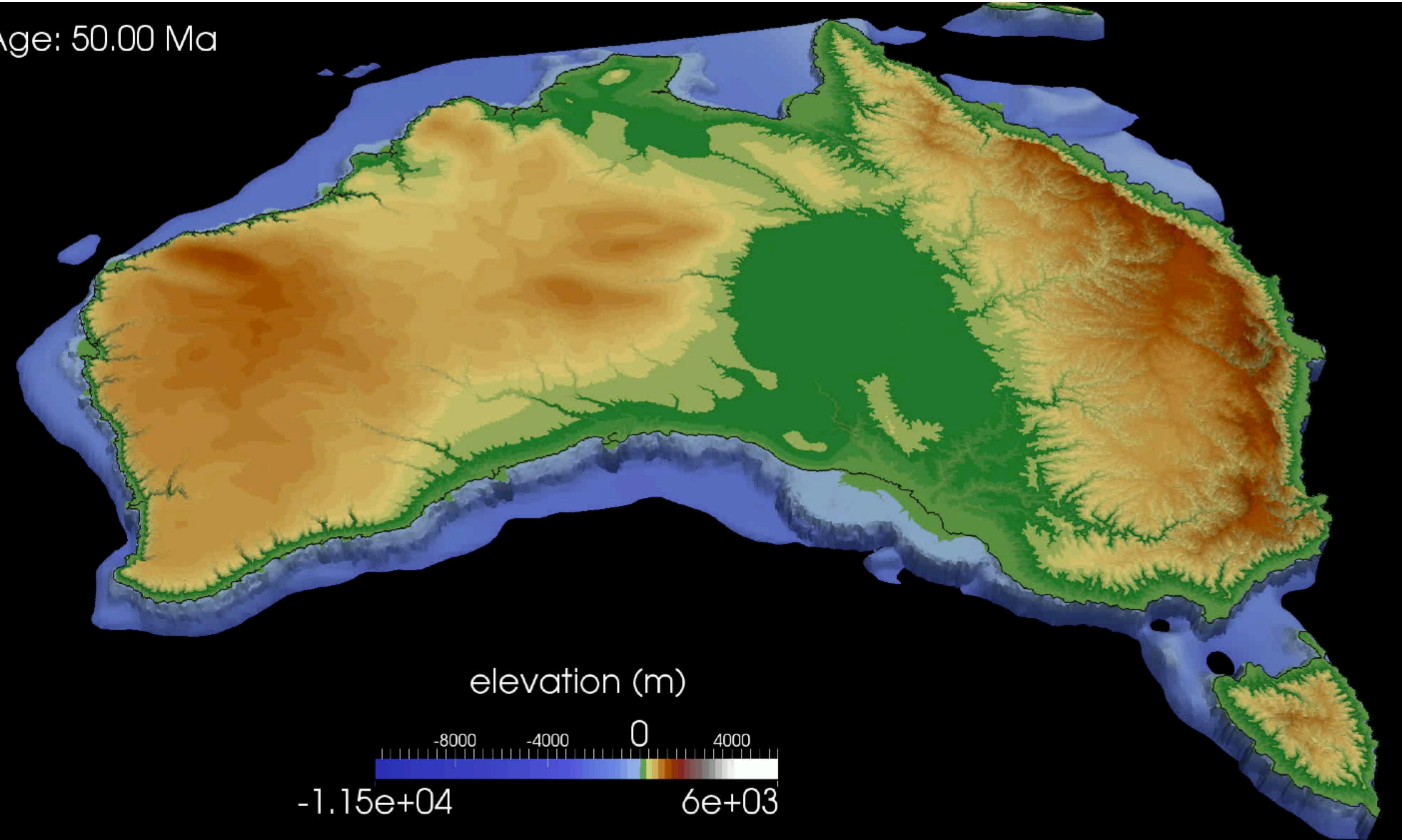
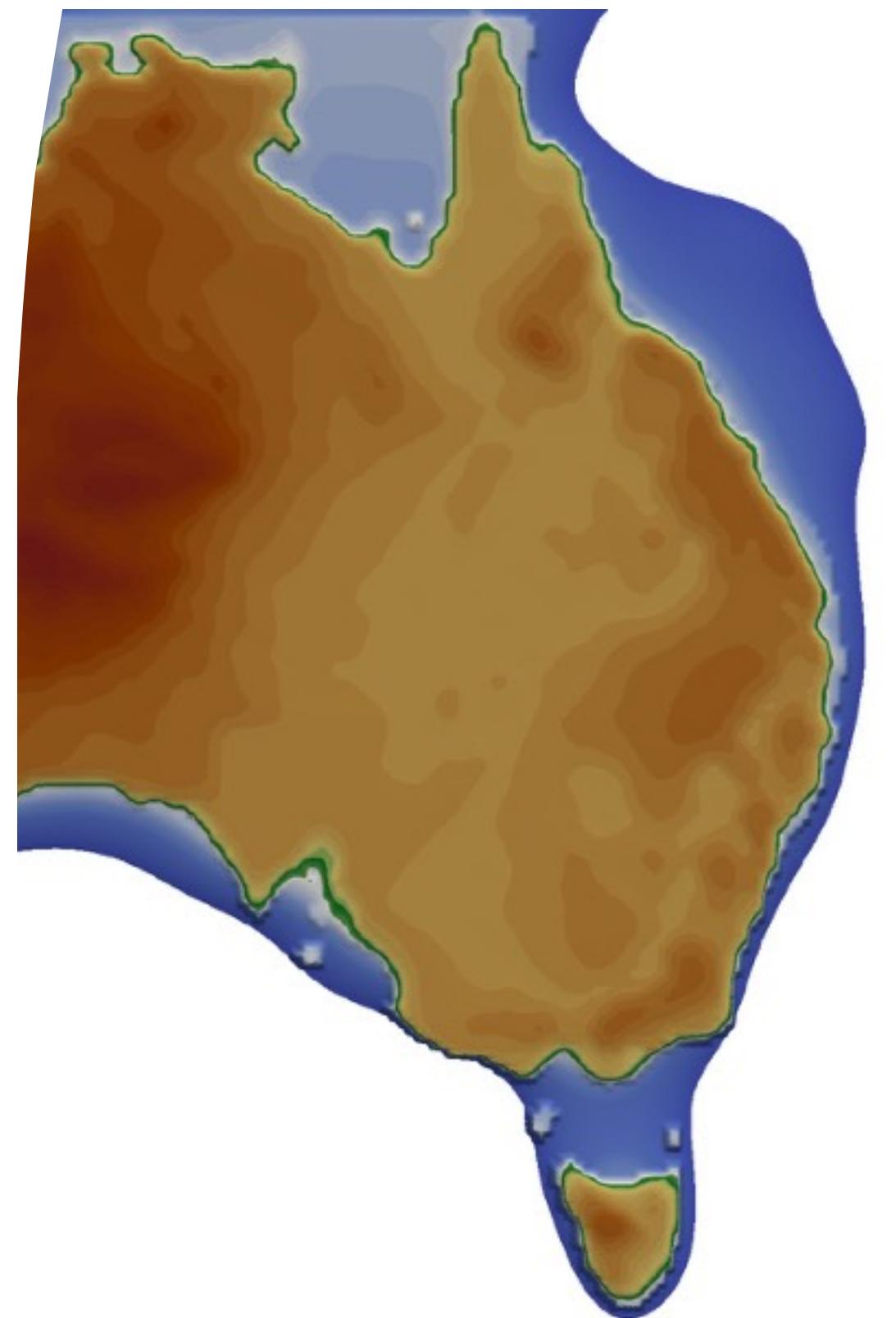


Age: 50.00 Ma



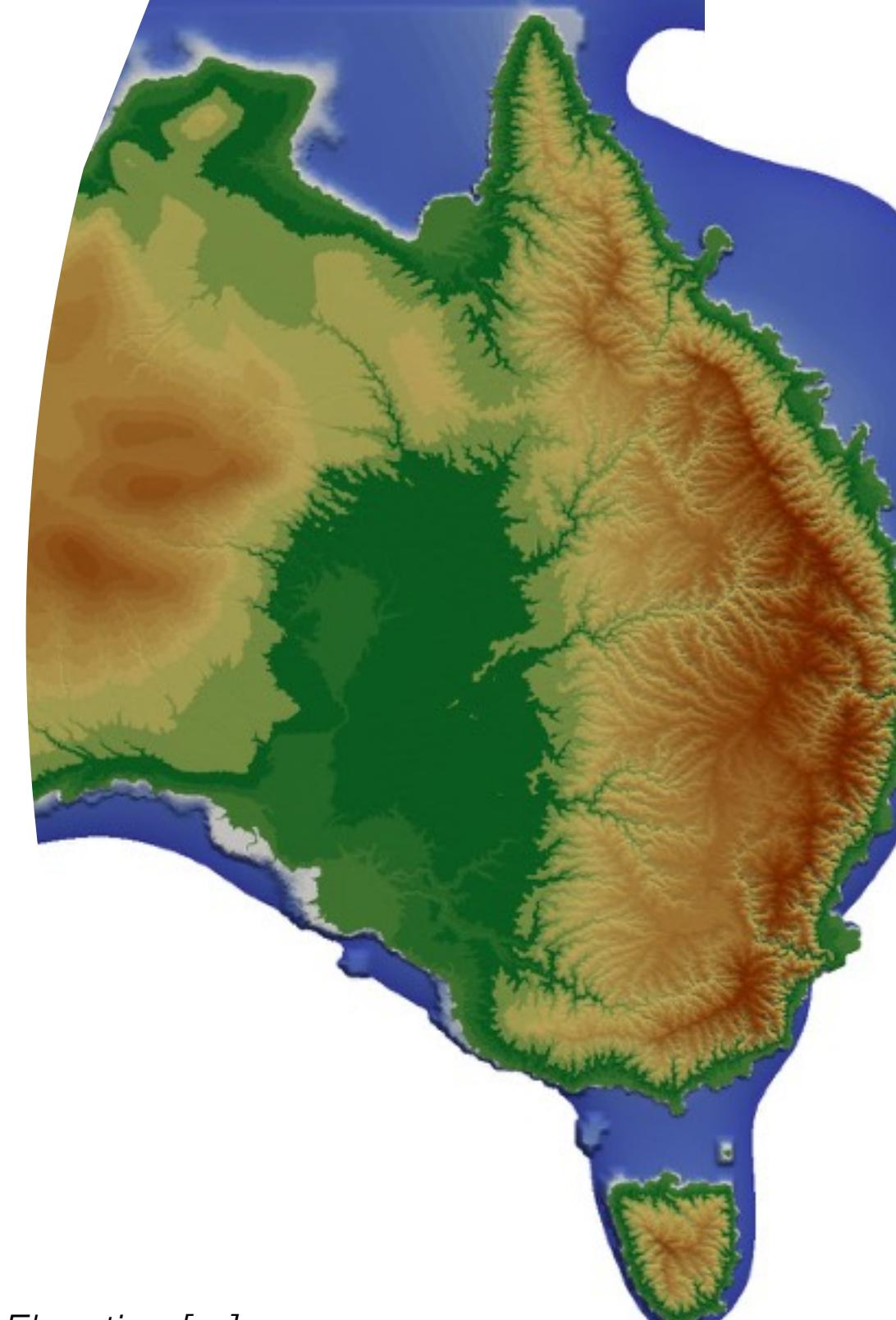
150 Ma



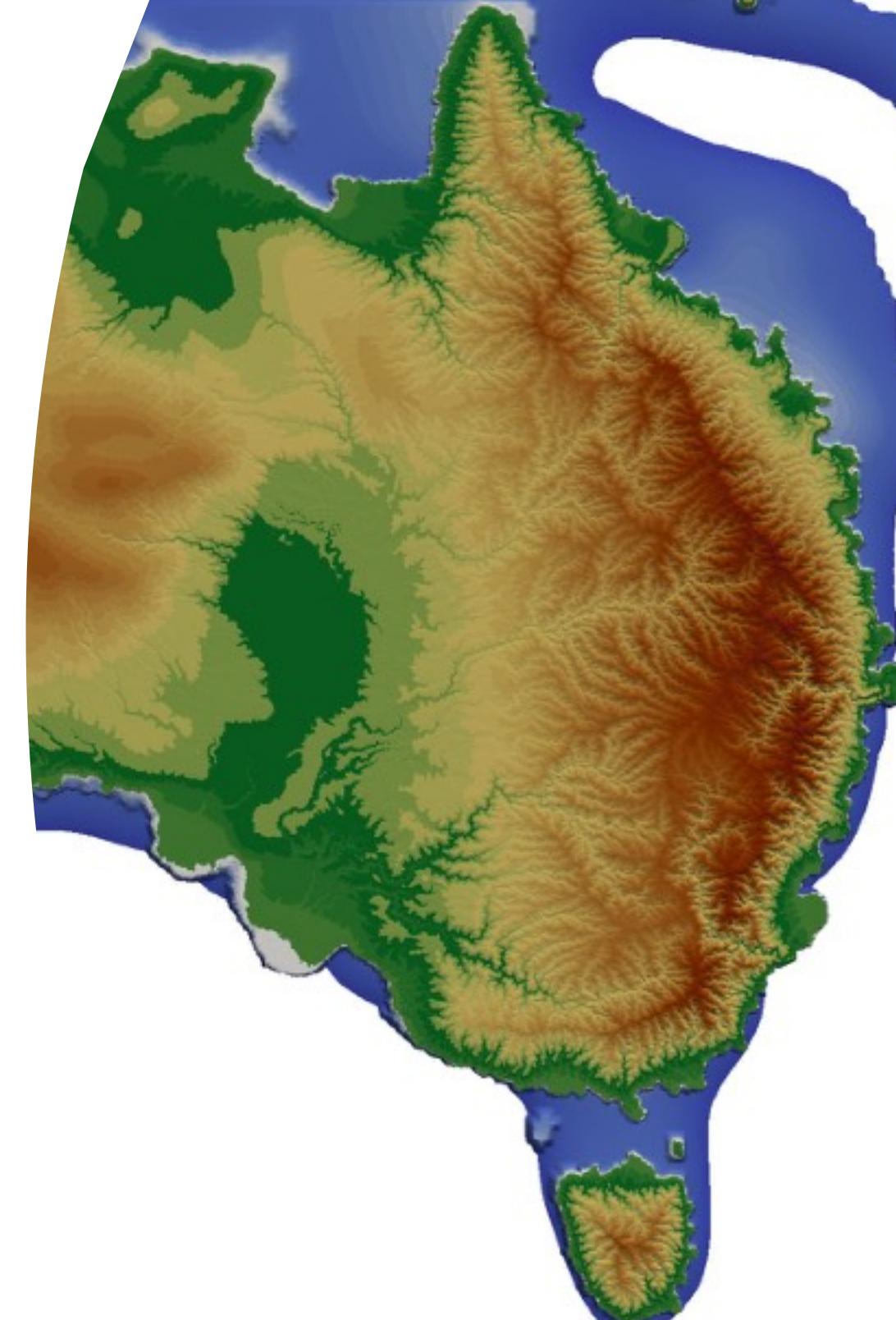
100 Ma



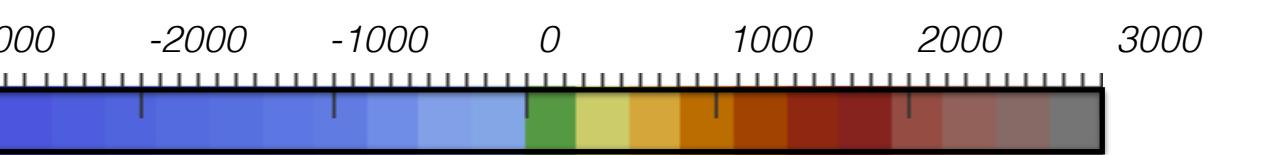
60 Ma



30 Ma



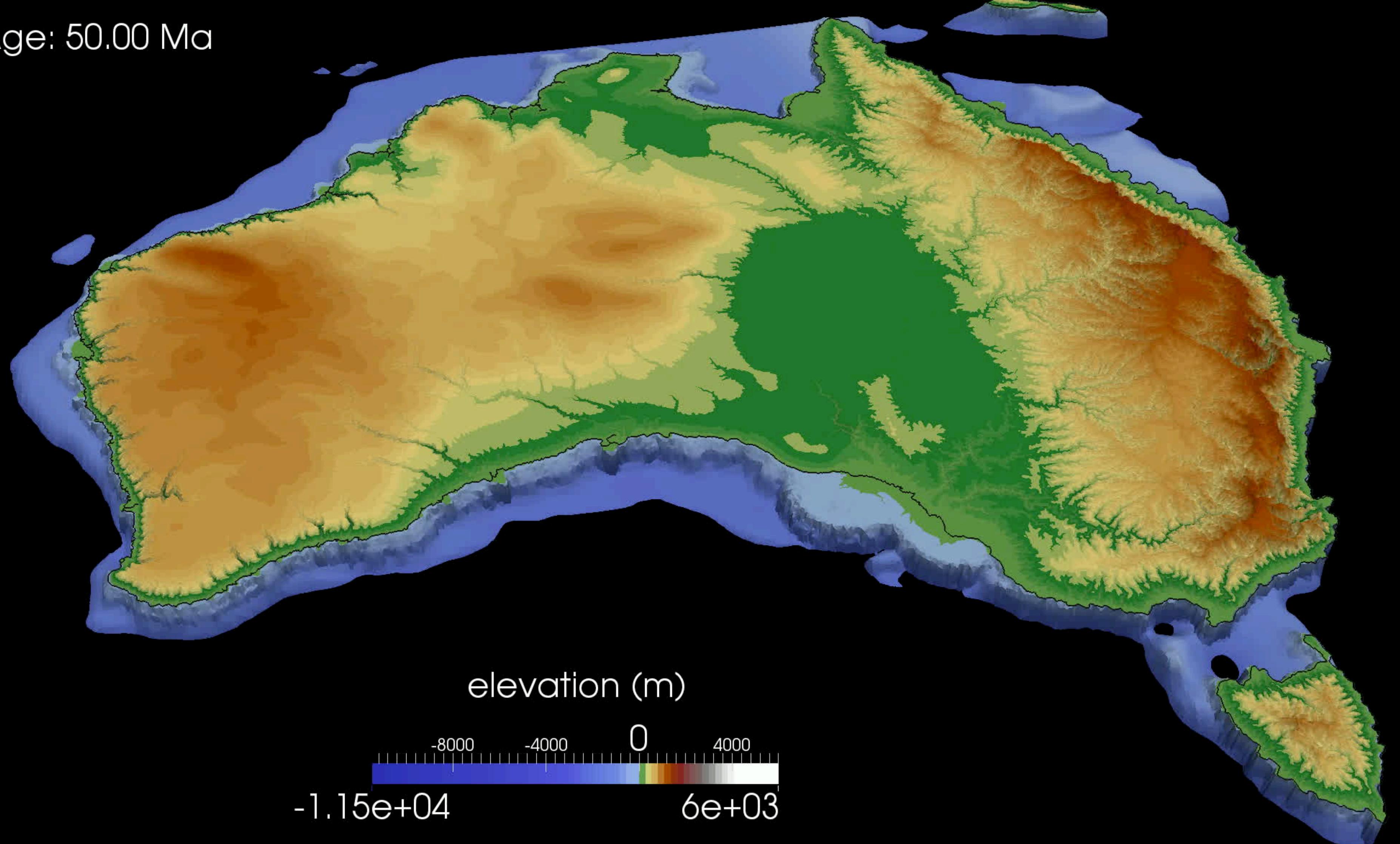
Elevation [m]



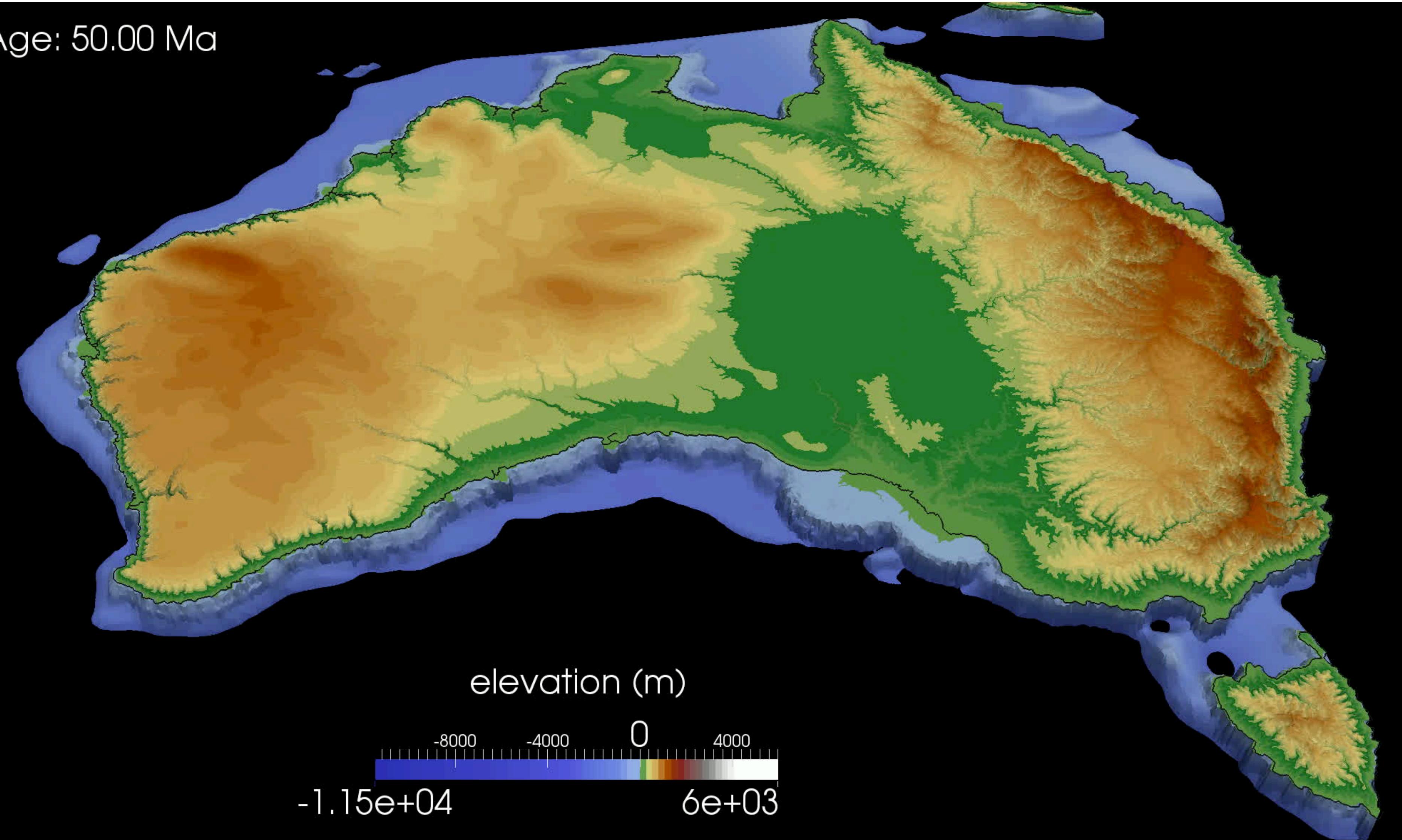
landscapes

Australian photographic exchange at ≈5 km rescale

Age: 50.00 Ma

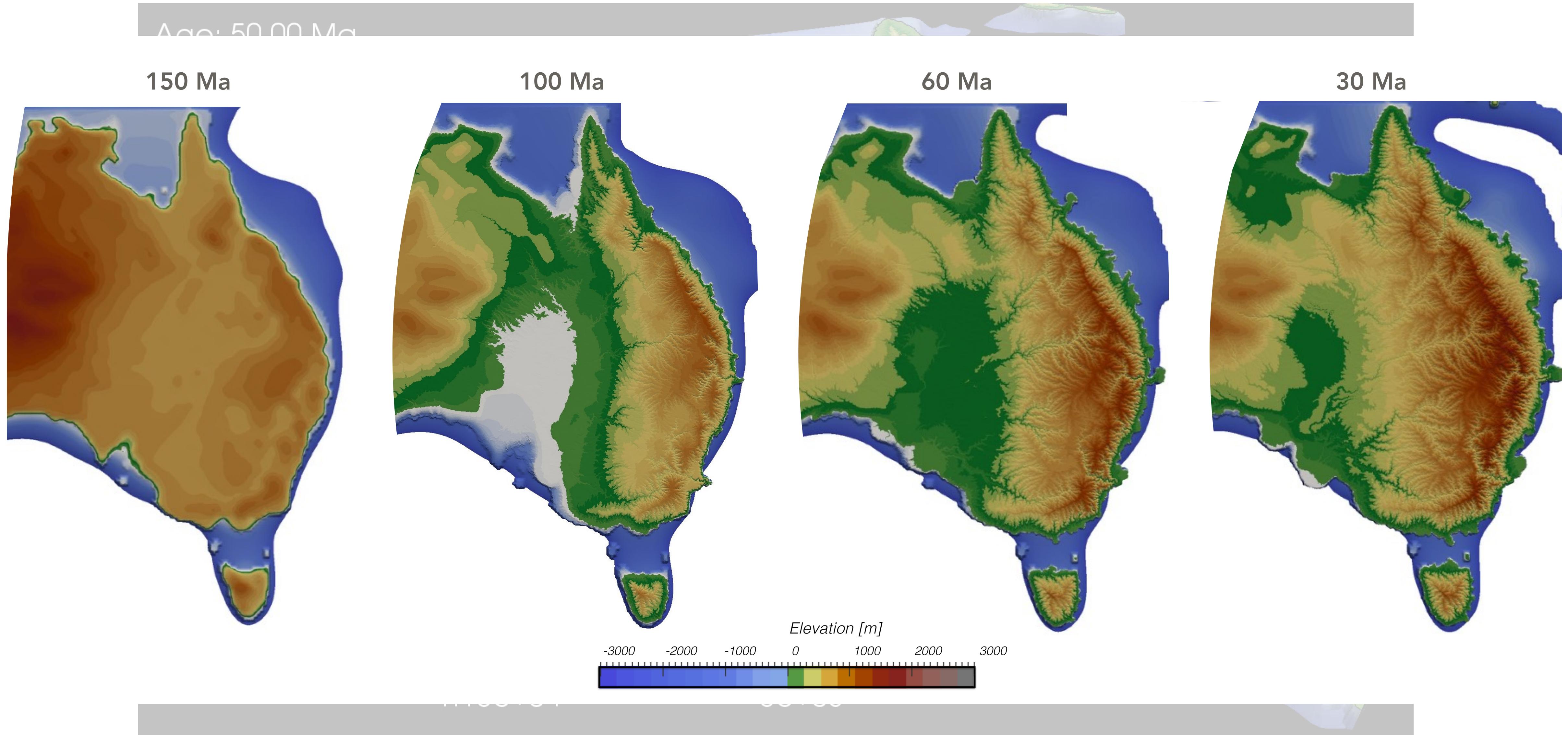


Age: 50.00 Ma

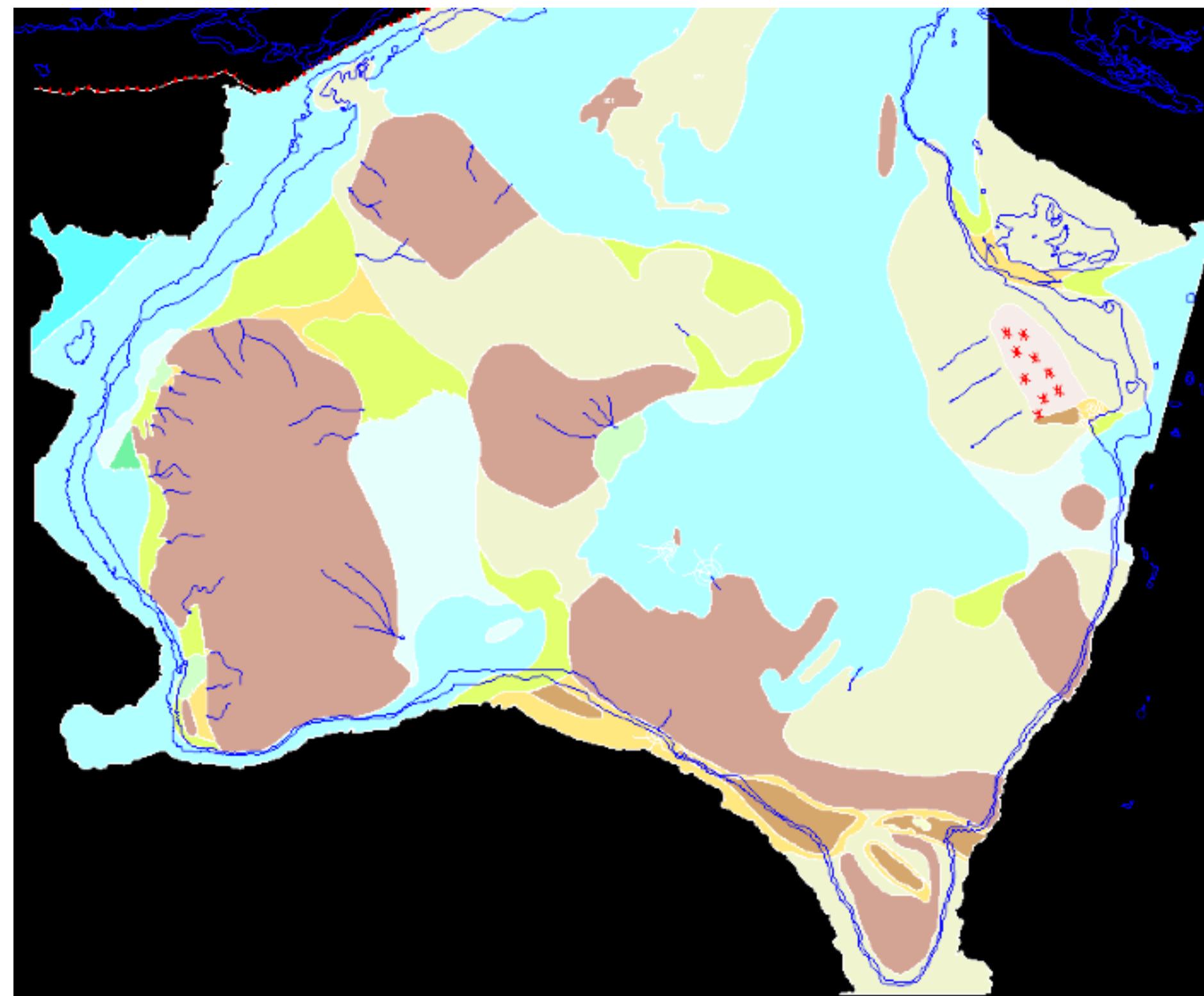


Landscape dynamics

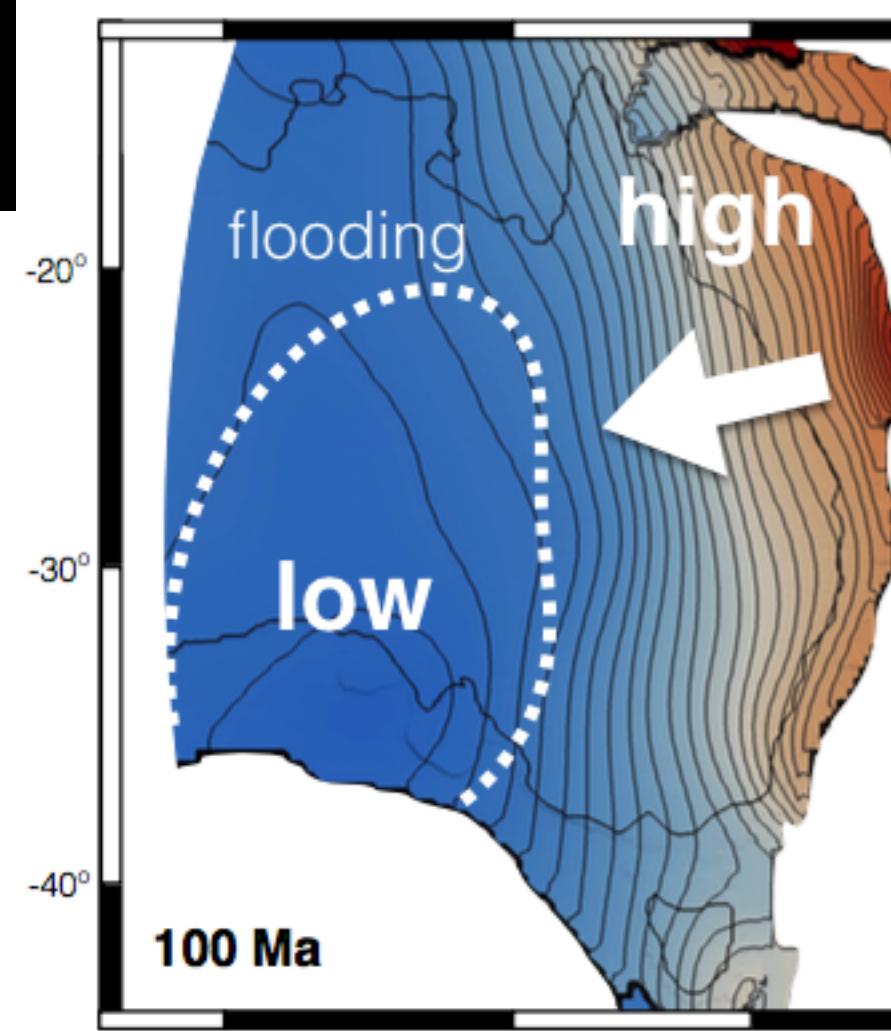
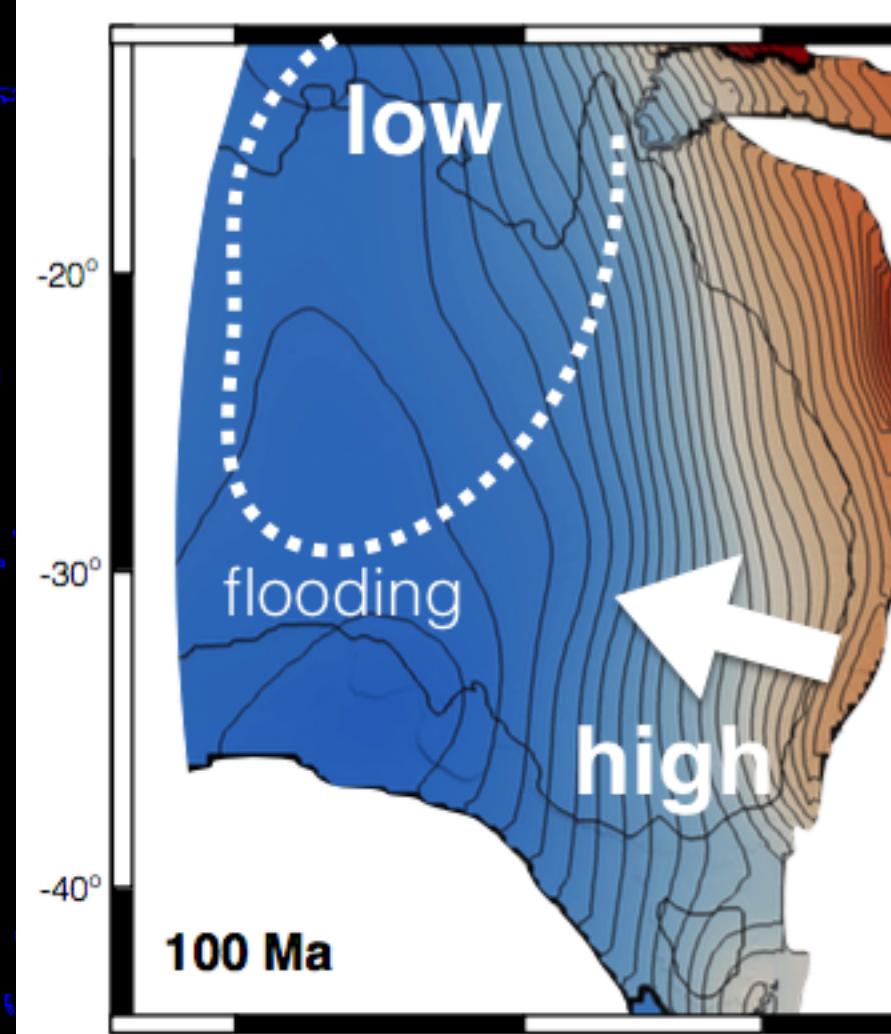
Eastern Australia topographic change at ≈ 5 km resolution



Landscape dynamics – model versus geological data



Paleo-environment map 90 Ma (source: Geoscience Australia)



- It's difficult to get such a model to match paleo-shorelines mapped based on geological data
- Initial topographic condition at model starting time is uncertain
- Difficult to take into account regional crustal/lithospheric deformation, thickening or thinning, resulting in uplift (or subsidence)
- Cretaceous subduction history and mantle structure north of Australia is uncertain

