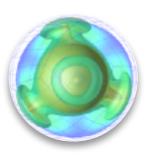


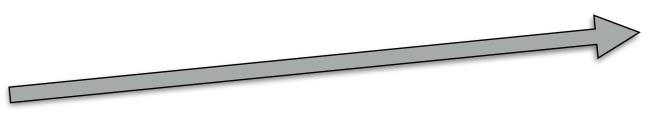
Salles et al. (2016, 2017)

 hillslope: simple creep law rivers: transport/detachment limited flexural isostasy orographic rain

## Our Experimental Virtual Earth with SPM



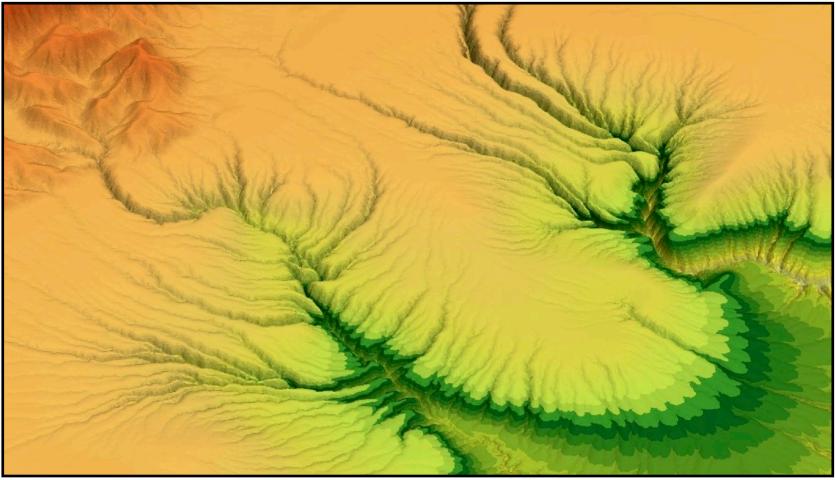


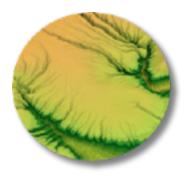


 time-dependent interaction of plate motion with mantle downwellings and broad pattern of margin highlands uplift upwellings

phases

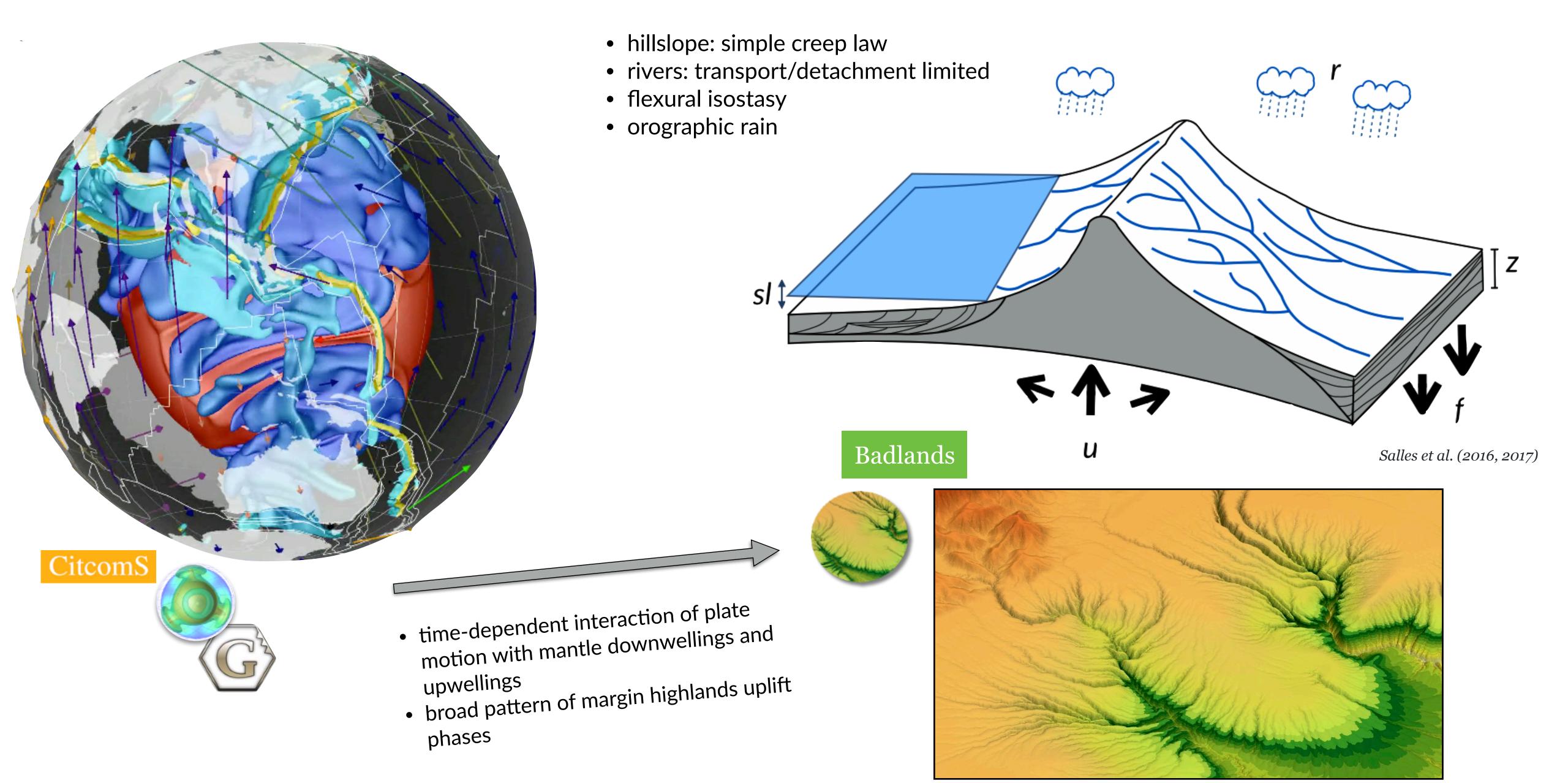








## Our Experimental Virtual Earth with SPM



## Dynamic topography, erosion & landscape response

- low amplitude & long wavelength very low slopes
- dynamic topography is efficiently eroded by fluvial erosion
- changes in dynamic topography produce an erosional response in the form of increased sediment flux to continental margins
- this response can persist long after the influence of dynamic topography

