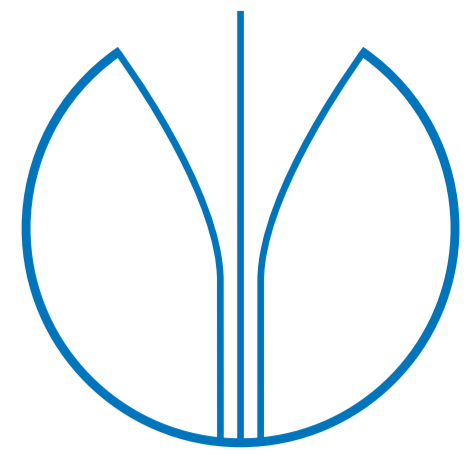


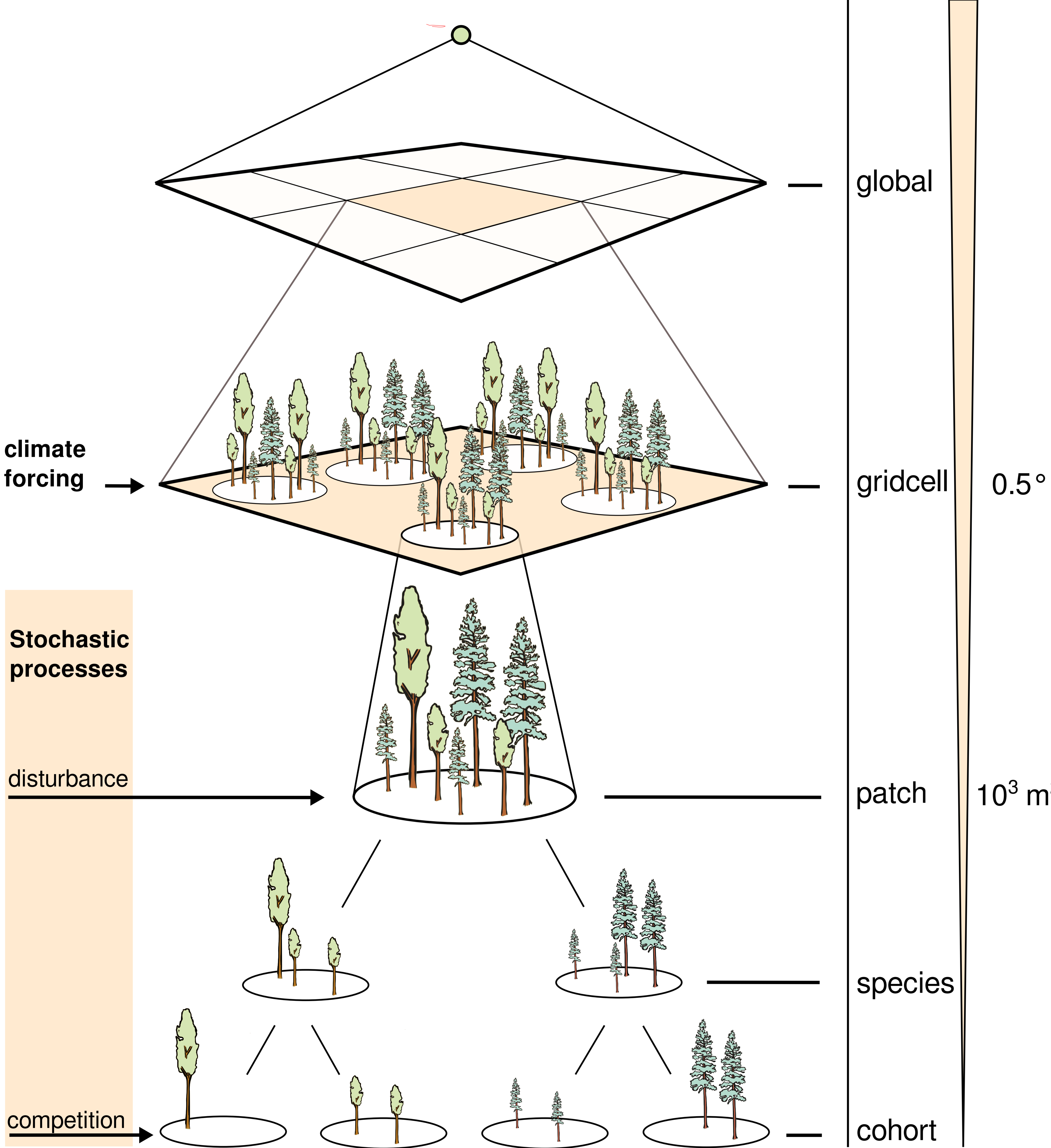
How does stochasticity propagate through the spatial scales of a global dynamic vegetation model?

Lucia S. Layritz ° | Prabha Neupane ° | Anja Rammig °

°TUM School of Life Sciences, Munich, Germany

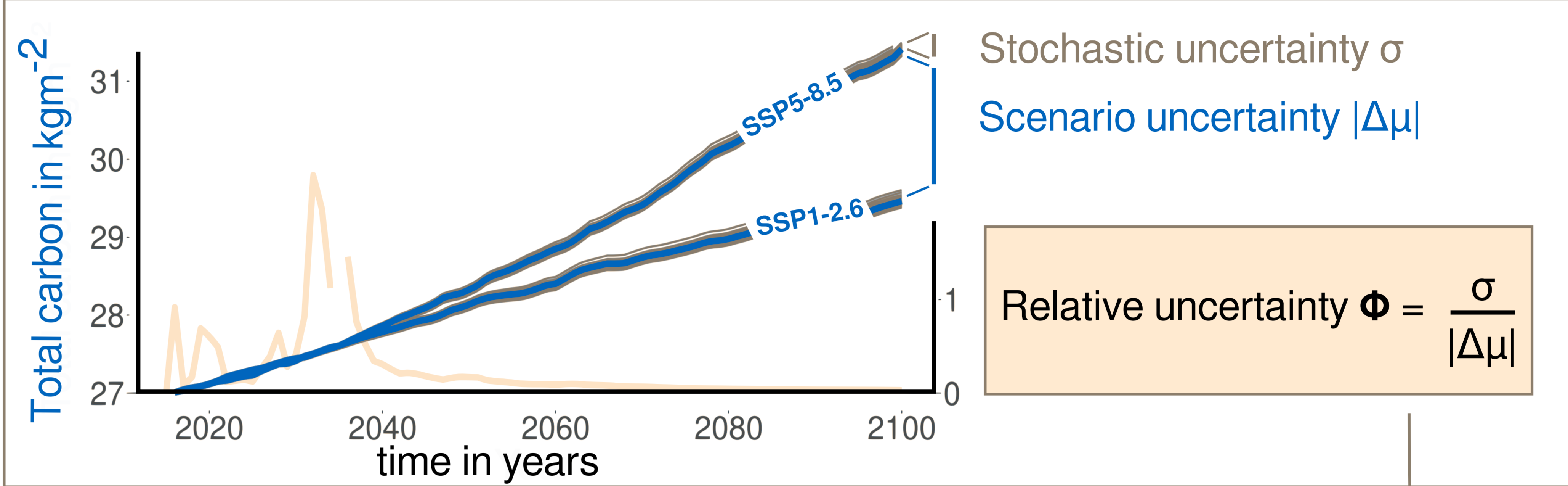


LPJ-GUESS - A multiscale stochastic global dynamic vegetation model

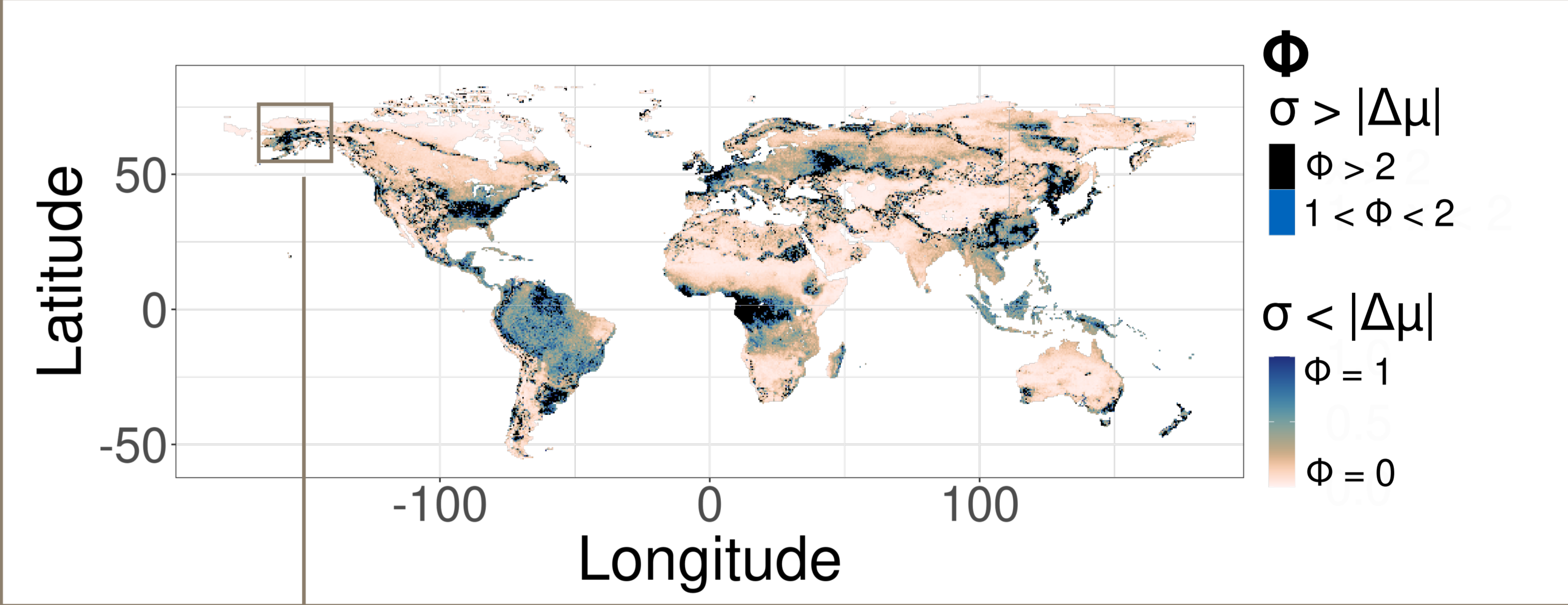


The contribution of stochastic vegetation dynamics to model uncertainty of the terrestrial carbon sink

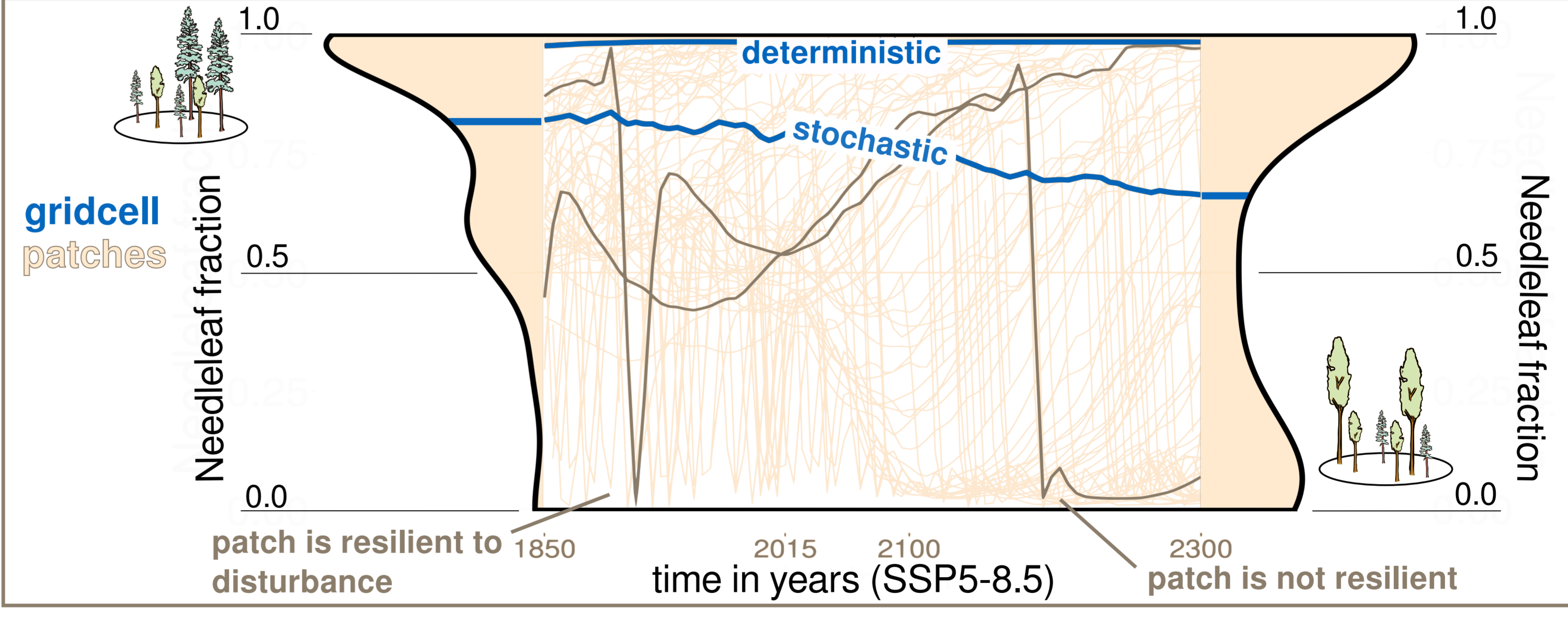
Relative uncertainty is small on the **global scale**



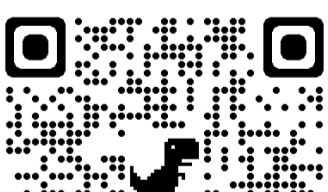
On the grid cell level, areas of high relative uncertainty appear in **tropical regions and ecotones**



Noise-induced transitions appear on the patch scale



Local vegetation dynamics are strongly influenced by stochasticity and not always adequately captured by spatial aggregation.

Contact me 
@lucialayr
lucia.layritz@tum.de

 Scan for abstract!
