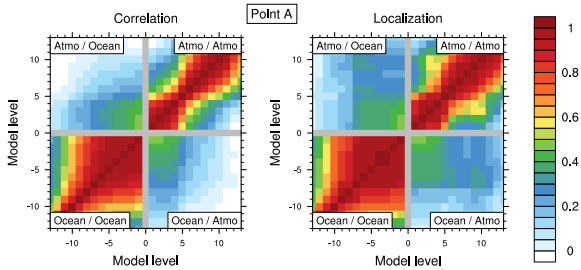


Optimized localization to filter ensemble-based covariances, applied to a coupled system

Benjamin Ménétrier (CNRM, Météo-France / CNRS)

- Objective method to **diagnose localization functions** using data from the ensemble only, successfully applied to several atmospheric and oceanic models. **Open-source code available.**
- Tested with data from the ECMWF global coupled reanalysis CERA-20C (Laloyaux *et al.*, 2016).
- Relevant global and local diagnostics of vertical correlation and localization across the ocean-atmosphere interface.



Vertical correlation and localization for temperature, local average