



## **Analysis of teleconnections between tropical SST and the West African monsoon in ensembles of idealized-SST forced AGCM simulations**

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This study focuses on the analysis of the role played by the different oceanic basins in the Tropics on the WAM variability at interannual time scale using coordinated sensitivity experiments based on idealized SST boundary conditions. Anomaly SST patterns correlated with West African rainfall have been defined on the equatorial – southern tropical Atlantic basin, the Pacific-Indian equatorial basin and the Mediterranean basin, based on Lagged Extended Maximum Covariance Analysis. Both respective positive and negative SST anomaly patterns have been used as boundary conditions (with climatology elsewhere) in a set of multi-models ensemble runs performed on ten April-September periods. The different teleconnection patterns over the Tropics are investigated and their robustness is tested within the ensemble simulations.