



Fingerprinting the Atlantic Meridional Overturning Circulation on decadal to millennial time scales

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In order to identify the climatic fingerprint of the Atlantic Meridional Overturning Circulation (AMOC), we analyze a suite of climate model experiments which differ in continental ice cover, green house gas concentration, freshwater forcing, solar forcing and ocean basin geometry. Ultimately this shall be used to separate AMOC variations from other superimposing influences and to define and evaluate proxies which potentially reconstruct AMOC variations indirectly from observed climate patterns.