



Climate Sensitivity of the Atlantic Niño impacts to changes in the background ocean state

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Observed impacts of the Atlantic Equatorial mode along the XX century change depending on the decades considered.

In this way, for positive phase of the AMO, as for example during the 1950-1960 years, the Atlantic Equatorial mode appears isolated from the rest of the tropical regions, whereas for negative phases of the AMO, as 1975-1985, the Equatorial mode appears with anomalies in the rest of the tropical basins. How do changes in the background state affect the impacts associated with the Atlantic Niño must be clarified. To this aim, sensitivity experiments with different oceanic background states (1950-1960 and 1975-1985) and the same Equatorial Mode are run using the UCLA and MPI GCMs, analysing the different impacts and associated dynamics.