EMS Annual Meeting Abstracts
Vol. 13, EMS2016-757, 2016
16th EMS / 11th ECAC

The predictability of the multidecadal component of the Mediterranean SST variability.

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A recent study has identified a Multidecadal Component in the Western Mediterranean Variability..
Here we investigate the relationship between these and other global and regional variability taking place at the same timescales. These are represented in our study for instance by the the Atlantic Multidecadal Oscillation Index, the North Atlantic Oscillation Index, the Souther Oscillation Index, the Pacific North America teleconnection Index, and the North Tropical Atlantic Index among others. The analysed dataset cover at least the period 1900-2013. We use a statistical methodology to identify feedbacks between the Mediterranean anomalous SST variability and other global or regional variability that takes place at the same timescales. Moreover based on these feedbacks we built simple statistical models and test their skill in a series of hindcast experiments. Higher skills scores are obtained with a model which variables includes an ins¡dex that represent the processes that take place in the north-western Atlantic and the North Tropical Atlantic Index, beside the that represents the Multidecadal component itself.

References.

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OrtizBeviá M. J.; RuizdeElvira A., Alvarez-Garc[U+0092]a F. J., Tasambay-Salazar M. The Multidecadal component of the Western Mediterranean Variability (submitted).