

The Multidecadal component of the Western Mediterranean Variability and its global connections.

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The present study focuses on the important multidecadal component of the observed Western Mediterranean summer variability, its origin and impacts. The multidecadal component of the Western Mediterranean variability is characterized by an Index, the Western Mediterranean Index, obtained through an average of sea surface temperatures in the region. Lag-correlations between this index and global reanalyzed data fields allow for the identification of the relevant interactions at multidecadal time scales. These interactions are introduced in a feedback model, and in this way predictability issues at multidecadal time scales are assessed.