

Systematic attribution of observed circulation trends to external forcing and internal variability

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The atmospheric circulation can be efficiently described by just a few regime states or teleconnection patterns. For the systematic identification of these regime states a novel space-time clustering method has been developed (FEM-BV-VARX). This method identifies persistent regime states which are important for predictions. In my presentation I will discuss the use of this method for the attribution of circulation trends and extreme events.

Keywords: Regime States, Circulation Trends, Extreme Events, Clustering Method