Moisture sources in the Mediterranean basin

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Water is the main element for life development on Earth and it is essential on the climatic system due to its absorption spectrum on long and short longwaves.

One of the statements obtained from the analysis of climate change is about the global atmosphere circulation and its changes on the future. This is consequence of climate change on the atmosphere dynamics.

Nowadays, the knowledge of moisture sources in any region is a very important issue, owing to the fact that it is strongly influenced by the following contributions:

a) Moisture sources in the own region
b) Moisture sources attributed to evapotranspiration processes from the same surface
c) Moisture advection from different regions

The most important purpose of this study is to determinate and assess the moisture sources involved in the Mediterranean basin using lagrangian tools as Flexpart model.