



## **Short and long term climate variability in Northern Morocco**

**K.Kabidi**(1), O.Baddour(2)

(1) Direction de la Météorologie Nationale, Rabat , Morocco (kabidikhadija@yahoo.fr), (2) World Climate Program-WMO

Statistical analysis is performed on rainfall and temperature at short and long term climate variability scales over Morocco. In particular we prospected the relationship existing between rainfall variability in Morocco and sea surface temperature in both the Atlantic and the Pacific using data sets from various meteorological stations in Northern Morocco. Results indicate moderate correlation for Fall season as well as Spring season. The core of the winter season seems to be uncorrelated with any ocean indices. Spetember-November rainfall shows positive correlation with Pacific SSTs, indicating likely increasing rainfall during Elnino Episodes and decreasing during Lanina Episode. March-April-May rainfall shows opposite trend. At long term, we found pronounced rainfall decline since mid 70s along with increasing temperature at different period of the year.