



A climatological network for regional climate monitoring in Sardinia.

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In recent years the Region of Sardinia has been working to set-up a Regional Climatological Network of surface stations, in order to monitor climate (either stationary or changing) at sub-synoptic scale and in order to make robust climatological information available to researchers and to local stake-holders.

In order to do that, an analysis of long climatological time series has been performed on the different historical networks of meteorological stations that existed over the past two centuries. A set of some hundreds of stations, with about a century of observations of daily precipitation, was identified. An important subset of them was also defined, having long series of observations of temperature, wind, pressure and other quantities.

Specific investments were made on important stations sites where observations had been carried for decades, but where the climatological stations did not exist anymore.

In the present talk, the Regional Climatological Network of Sardinia will be presented and its consistency discussed. Specific attention will be given to the most important climatological stations which have got more than a century of observations of meteorological quantities.

Critical issues of the Regional Climatological Network, like relocation of stations and inhomogeneity of data due to instrumental changes or environmental modifications, will be discussed.