



The FENNEC aerosol station of In Salah (Algeria) : a first insight on dust surface concentration, size-distribution and composition in June 2012.

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In the framework of the FENNEC French ANR program, an aerosol monitoring station has been deployed at the meteorological station of In Salah, in the middle of Algeria (27°15'N; 2°30'E). The experimental set-up was designed by the LISA and operated by the local technicians of the Algerian National Meteorological Office. It includes a continuous monitoring of the surface dust concentration (Total Suspended Matter inlet), the dust size distribution and local meteorological parameters (wind speed and direction, air temperature and humidity) acquired with a 5-min time step. Automatic samplers allow to collect daily aerosols on filters for the analysis of the chemical and mineralogical composition. The results obtained for the intensive measurement period of June 2012 will be presented. This period can be divided in two contrasted periods both in terms of local meteorological conditions and in terms of dust concentrations. Preliminary results on the dust elementary composition will be presented in relation with the location of their sources.