
The Atlas-M5 Atmospheric Research Station

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Résumé

Atmospheric pollution and climate change are complex problems that require in-situ atmospheric measurements, laboratory studies and multiscale modeling. In-situ measurements is a very important component that helps to understand and characterize air composition in different regions of the world at different latitudes and altitudes. Africa, as a continent; is lacking measurements with a very limited number of stations that are able to provide the scientific community and decision making accurate and continuous atmospheric parameters such as gas pollutants concentrations and aerosol loading and their chemical composition. This type of work requires international collaboration and a sharing of resources and expertise.

Recently, we have set up an Atmospheric Research Station within the frame of a project supported by Marie Skłodowska-Curie Actions (MSCA) Research and Innovation Staff Exchange (RISE) H2020-MSCA-RISE-2015. This newly developed Station (Atlas-M5 Atmospheric Research Station) is operated by Rabat Mohammed V University, the National Center for Scientific Research (CNRS-ICARE, Orleans) and the University of Orleans with the support for TROPOS-Leipzig and Fudan University (Shanghai). It is located in the Middle Atlas of Morocco (33.4018N; 5.10489E; 2076m) situated in the high peaks of the Michlifén, about 19 km south from downtown of the Ifrane city. It is in operation since July 2017. This is the first Atmospheric Research Station of this type in North Africa.

The present poster will describe the station and achievements after almost 10 months of continuous measurements and the future developments.

Mots-Clés: Atlas, M5, Atmospheric pollution, Atmospheric research, Michlifén

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