



The ISAC-CNR micrometeorological base and database in Lecce

P. Martano, F. Grasso, and C. Elefante

CNR, ISAC, Lecce, Italy (p.martano@isac.cnr.it, +39 0832 298716)

The micrometeorological base of CNR-ISAC in Lecce, South-East of Italy, is active since 2002, in collecting experimental data about surface-atmosphere transfer of momentum heat and water vapour. It operates in a periurban site inside the Salento University campus and has been improved along the past years in terms of active sensors to give a quite complete description of the soil-atmosphere vertical transfer. It is composed by a 16 m mast with fast response (eddy correlation) instrumentation and an ancillary automatic meteorological station collecting also soil data at 2 levels depth. Fast response data are pre-processed in half-hour averaged statistics.

All collected data are available in a web database (www.basesperimentale.le.isac.cnr.it) where they can be visualized or downloaded. A real time automated connection between the base and the data base is also in progress. At present the Lecce data base is also a pilot reference structure for the Climate Change Section of the CNR-DTA GIIDA project (National Research Council - Earth and Environment Department, Interdisciplinary and Interoperational Management of Environmental Data), aimed to build a spatial data infrastructure between different CNR-DTA structures collecting environmental data. This will allow easier search and availability for a great deal of environmental information in terms of data associated to international quality standards and metadata systems (GEOSS, GMES, INSPIRE).