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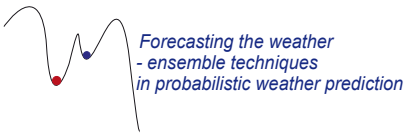

Micrometeorological Measurements near of a surface of a Lysimeter

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A lysimeter is a device that is able to monitor the evaporation of water loss by direct weighing. Other components of the energy transfer, like sensible heat flux, as well as turbulent fluxes of moisture and momentum must be recorded by micrometeorological observations near the surface of such a Lysimeter area. In practice it is often not possible to record the data in the vicinity of the lysimeter surface directly. Using an adaptation of an acoustic measurement system to such an area it would be possible to observe the interaction between the small scale of an area of an lysimeter ($1m^2$ or $2m^2$) and the micrometeorological field in the surroundings. First results are shown for such a measuring system.