



Studies on Mass Transfer and Chemical Reactions of VOCs Inside and Above Tall Vegetation

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The fluxes of biogenic VOCs from tall vegetation were determined experimentally for different meteorological, hydrological and plant physiological conditions during field campaigns of BIATEX, BEMA and ECHO by micrometeorological methods.

The interactions between micrometeorological, hydrological, chemical and plant physiological processes were analysed. General features will be presented showing the influences of turbulent and convective mixing and chemical reactions on fluxes and the influences of cloud cover on measured and modelled fluxes. In addition, the influences of hydrological conditions on ABL - entrainment / detrainment and fluxes will be discussed.