



## **Energy and Mass Transfer of Chemical Reactive Compounds Above and Inside Tall Vegetation**

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The exchange of energy and matter above and inside tall vegetation is characterized by nonlocal features in the turbulent flow field. The relative importance of ejections and sweeps on second and third moments are analyzed using methods similar to Nakagawa and Nezu (1977) and Cava et al. (2006). This analysis is performed as well for momentum and sensible heat as for trace substances like isoprene, MVK+MACR, OH and HO<sub>2</sub> based on data from the ECHO Experiments (Siese, Hofzumahaus 2006).

Cava, D. et al., 2006: BLM 118, 217 - 240

Nakagawa, H and Nezu, I., 1977: J. Fluid Mech. 80, 99-128

Siese, M and Hofzumahaus, A., 2006: priv. Communications and ECHO-Database