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## Forschungsgebiete

Land-Atmosphäre Interaktionen, Mikrometeorologie und Stadtklima

## Organisationszugehörigkeiten

### Wissenschaftliches Personal

Professur für Meteorologie  
Technische Universität Dresden  
1 Okt. 2021 → present

## Publikationen

### Space-scale resolved surface fluxes across a heterogeneous, mid-latitude forested landscape

Paleri, S., Desai, A. R., Metzger, S., Durden, D., Butterworth, B. J., Mauder, M., Kohnert, K., & 1 weitere Serafimovich, A., 22 Nov. 2022, in: Journal of Geophysical Research: Atmospheres. 127, 23, e2022JD037138.

### Incorporating the effect of heterogeneous surface heating into a semi-empirical model of the surface energy balance closure

Wanner, L., Roberti, D. R., Calaf, M. & Mauder, M., 1 Juni 2022, in: PloS one. 17, 6, e0268097.

### A Model of the Energy Balance Gap Based on Atmospheric Stability and Surface Heterogeneity

Wanner, L., Calaf, M., Paleri, S., Kadum, H., Butterworth, B., Desai, A. & Mauder, M., 27 März 2022

### Options to correct local turbulent flux measurements for large-scale fluxes using an approach based on large-eddy simulation

Mauder, M., Ibrom, A., Wanner, L., Roo, F. D., Brugger, P., Kiese, R. & Pilegaard, K., 16 Dez. 2021, in: Atmospheric measurement techniques. 14, 12

### Enteric methane emission estimates for Kenyan cattle in a nighttime enclosure using a backward Lagrangian Stochastic dispersion technique

Wolz, K., Leitner, S., Merbold, L., Wolf, B. & Mauder, M., 29 Nov. 2021, in: Theoretical and applied climatology. 147, 3-4, S. 1091-1103 13 S.

### Novel approach to observing system simulation experiments improves information gain of surface-atmosphere field measurements

Metzger, S., Durden, D., Paleri, S., Sühring, M., Butterworth, B. J., Florian, C., Mauder, M., & 4 weitere Plummer, D. M., Wanner, L., Xu, K. & Desai, A. R., 1 Nov. 2021, in: Atmospheric measurement techniques. 14, 11