



Interaction between the Land Surface and Atmosphere

By Song-Lak Kang

VDM Verlag Apr 2009, 2009. Taschenbuch. Book Condition: Neu. 219x149x23 mm. Neuware - New insight is obtained into the structure of the convective atmospheric boundary layer (CBL) over surface heat flux variation on a scale of the order of 10 km. Aircraft data collected during the International H2O Project (IHOP_2002) and large eddy simulation (LES) are used. The new insight includes the followings: First, the CBL changes from a quasi-stationary state to a non-stationary state when forced by a high-amplitude surface heat flux variation. Second, the structure of the CBL in a non-stationary state cannot be described with the mixed-layer similarity. Third, moisture advection by the surface-heterogeneity-induced mesoscale horizontal flows plays a significant role in initiating moist convection. 232 pp. Englisch.



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