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THEORETICAL STUDY OF THE SCAVENGING AND REDISTRIBUTION OF AEROSOL PARTICLES DURING THE CONDENSATION AND COLLISION-COALESCENCE GROWTH OF CLOUD DROPS. (Conference Paper)

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Abstract

A theoretical model has been formulated with which the scavenging of aerosol particles and the re-distribution of the scavenged aerosol particle mass can be followed during the process of condensation and the subsequent collision-coalescence growth of the formed drops. For this purpose a parcel-model with entrainment was formulated for describing the condensation growth and the nucleation-scavenging of aerosol particles. Added to it was a stochastic collision-coalescence model. Coupled with these models was a stochastic model which allowed to follow the aerosol particle mass which entered the drops as a result of nucleation scavenging, impaction scavenging, and as a result of collision between the drops.

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VAPORS - Condensation

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ABSTRACT ONLY

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COLLISION-COALESCENCE GROWTH

PARCEL MODEL WITH ENTRAINMENT AND STOCHASTIC MODEL

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
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