

Parameterizations of Depositional Growth of Cloud Ice in a Bulk Microphysical Scheme

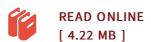
NASA Technical Reports Server (NTRS), et al., Scott A. Braun



Parameterizations of Depositional Growth of Cloud Ice in a Bulk Microphysical Scheme

By Scott A. Braun

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.The conversion of cloud ice to snow by depositional growth, designated P(sub SFI), in the Goddard Cumulus Ensemble Model cloud physics parameterization is examined. The original formulation of P(sub SFI) is shown to produce excessive conversion of cloud ice to snow because of an implicit assumption that the relative humidity is 100 with respect to water even though the air may actually be quite less humid. Two possible corrections to this problem are proposed, the first involving application of a relative humidity dependent correction factor to the original formulation of P(sub SFI), and the second involving a new formulation of P(sub SFI) based on the equation for depositional growth of cloud ice. This item ships from La Vergne,TN. Paperback.



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