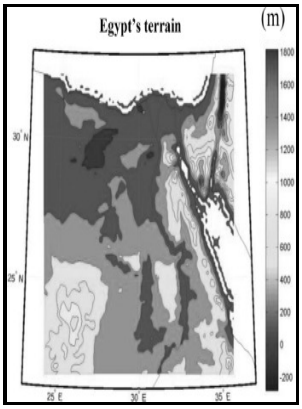
On the distribution and continuity of water substance in atmospheric circulations.

American Meteorological Society - On the Distribution and Continuity of Water Substance in Atmosphere Circulations



Description: -
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Moisture.
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Tags: #On #the #Distribution #and #Continuity #of #Water #Substance #in #Atmosphere #Circulations

The Formation of Lee Reversal Flow and Moisture Distribution Effect on the Characteristics of Precipitation

The Symposium offered the best opportunity for a review of the current studies and technical progress achieved In the various sectors of the Concerted Action since the Fourth Symposium held In Stresa Italy In September 1986. Therefore, the real-particles are not processed as a distribution function.

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In consideration of the above, the collision-coalescence process of super-particles is numerically simulated in a manner of Monte Carlo. The exponential DSD model fits the data reasonably well, especially for the strong convection and stratiform rain cases.

Diagnosing the Intercept Parameter for Exponential Raindrop Size Distribution Based on Video Disdrometer Observations: Model Development in: Journal of Applied Meteorology and Climatology Volume 47 Issue 11 (2008)

As shown in Table 1 of , the relative errors of the moments: M 0, M 2, M 3, M 4, and M 6 are 10.

Number size distribution of atmospheric aerosols during ACE

We chose to minimize the errors on both axes, yielding the results shown in as straight lines.

US20070250296A1

Discussions focus on water balance studies of lakes, isotopic fractionations during evaporation of water, study of hailstone growth mechanisms by means of isotopic analyses, isotopic effects during growth of individual elements, and models and their hydrological significance.

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When the coefficients a and b in the relation are determined from a set of DSD data, we have a diagnostic relation between the water content W and the intercept parameter N 0. Maximum observed U omax is located at the end of the section and at about 300-m height. Next, a calculator calculates, based on the input initial variables, the group of attributes, the velocity, the position coordinates, and a multiplicity of the super-particle and the total number of the super-particles after the super-particles collide with one another, the multiplicity which is the arbitrary number of the real-particles represented by the super-particle changing when the super-particle collides with another super-particle by a probability which is specified based on the certain probability by which the real-particles collide with one another within the volume in the predetermined time interval and the multiplicity of the super-particle, using a time evolution equation of attributes which determines a motion of the real-particle over the time by the group of attributes in accordance with the volume, the velocity, the position coordinates, and the fluid field variables, a time evolution equation of position coordinates which determines relationship between the velocity and the position coordinates of the real-particle, and a Monte Carlo calculation in which the super-particles collide with one another by the probability in the predetermined time interval.

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Then, the expectation value of the total number of collision-coalescences in the divided space is reproduced by EXPRESSION 8 shown below. We only summarize here the main characteristics of its physical parameterizations and of the treatment of boundary layer conditions. These forcings allow for identification of each of the physical processes acting simultaneously on the ageostrophic circulation in the boundary layer.

Modeling and Analysis of Ageostrophic Circulation over the Azores Oceanic Front during the SEMAPHORE Experiment in: Monthly Weather Review Volume 128 Issue 7 (2000)

The data storage 5 a includes a general memory, a hard disk, and so on. And this is all the more important since models are increasingly being used at higher horizontal and vertical resolutions. The wind directions are indicated by the wind rose at the top of the figure with the superimposed direction of the aircraft section.

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