



Study of the critical radius influence on the cloud drops formation in the seeding operations

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In the seeding operations in order to mitigate the climatic changes or to intervene on the atmospheric process of the precipitations in order to can beneficent enhancement it; it is very important the roll that play the critical radius of the cloud formation drops. In the seeding operations is fundamental to determinate the critical radius in order to make more efficient its results; because if the size of the cloud drop formation nuclei in the heterogeneous nucleation is smaller than critical radius, then it is very possible that the precipitation amount decrease when the seeding take a place, and viceversa. So, we must take in account the critical radius that the boundary conditions determine, and with this data, it must to be established the seeding nuclei size to use, in order to get the results whit the wished efficiency.

We had worked is in this way, searching and developed a methodology in order to get to calculate the critical radius to boundary atmospheric conditions, and with this data to can estimate the seeding nuclei size necessary. We had obtained approximate values that are enough to ours goals.