

Influence of the critical radius size on the heterogenous nucleation of 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 beneficently on the precipitations process; it is very important the roll of the critical radius size to the cloud drops formation and its posterior evolution. In the seeding operations programs, is fundamental to determinate the critical radius in order to obtain efficient results. So, we must take in account the critical radius size necessary in order to get the better results; and also the atmospheric conditions that determine it. This information permit us to establish the seeding nuclei size to use each day in seeding clouds operations, in order to get the better possible efficiency results.

We had worked searching and developed a methodology in order to can calculate the critical radius from its atmospheric conditions; and with them, to can estimate the nuclei size necessary in order to assure good seeding. We had obtained approximate values that are enough goods to ours goals.