

# **A hurricane modification process, applying a new technology tested for warm cloud seeding to produce artificial rains**

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A Hurricane Modification Process, with application of a new clean technology, at-tested for seeding warm clouds, with collector pure water droplets of controlled size, to produce artificial rains in warm clouds, is proposed to modify the hurricanes in order to avoid their formation, or to modify the trajectory or to weaken hurricanes in action. The Process is based on the time-dependent effects of cloud droplets micro-physical processes for the formation and growth of the natural water droplets inside the clouds, releasing large volumes of Aeolian energy, to form the strong rotative up-side air movements. A new Paradigm proposed, explain the strong and rotative winds created with the water droplets formation and grow process, releasing the rotative Aeolian Energy in Tornados and Hurricanes. This theory, receive the Gold Medal Award of the Water Science in the 7th International Water Symposium 2005 in France.

Artificial seeding in the Process studies, condensing a specified percentage of the water vapor to liquid water droplets where we observe the release of larges intensity of the Aeolian energy, creates the hurricanes, producing appreciable perturbations. With they rotating, strong wind created by the water droplets releasing Aeolian energy. The Amplitudes of these winds are comparable to natural disasters.

Once this natural thermal process is completely understood, artificial process to modify the hurricanes become scientifically possible, to avoid them to happen or to deviate their trajectory or to weaken the already formed hurricanes. In this work using our knowledge to produce artificial rain with water particles seeded from aircraft, we describe a MODCLIMA project for that mission studies.