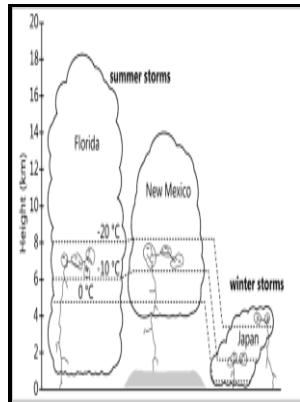


# Charge separation associated with the collision of supercooled droplets on ice surfaces.

-- Mechanism for electric charge separation by ejection of charged particles from an ice particle growing by riming



Description: -

- Physics Theses Charge separation associated with the collision of supercooled droplets on ice surfaces.

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Notes: Thesis (M.Sc), Dept. of Physics, University of Toronto  
This edition was published in 1971



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Tags: #AMT

## Electric Charge Transfer Associated with Temperature Gradients in Ice on JSTOR

Enhancement of rain is of special importance in countries suffering from water shortage for agriculture and other human activities. As nucleation is , many droplets are needed so that statistics for the nucleation events can be obtained. All hydrophobic coatings were highly conformal and Oh.

## Rain Enhancement and Fog Elimination by Seeding with Charged Droplets. Part I: Theory and Numerical Simulations in: Journal of Applied Meteorology and Climatology Volume 43 Issue 10 (2004)

The distributions were verified using a 10-  $\mu\text{m}$  resolution Particle Measuring System PMS Two-Dimensional Cloud Particle Greyscale Probe 2DCG;

AMT

Ionisation in the atmosphere is caused by a variety of sources, but the contribution from cosmic rays is always present and is modulated by the solar cycle.

## Cloud Formation and the Possible Significance of Charge for Atmospheric Condensation and Ice Nuclei

Heterogeneous freezing in supercooled droplets also agrees well with literature data. These facts will be important for the physical interpretation of charging effects.

## Electric Charge Transfer Associated with Temperature Gradients in Ice on JSTOR

Viscous to inertial crossover in liquid drop coalescence. Nucleation is often found to be very sensitive to impurities in the system.



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