









Yutong Cui, Benoit Semin, Philippe Claudin PMMH, ESPCI

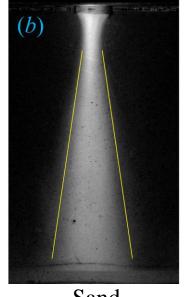
Atmosphere	Experiment
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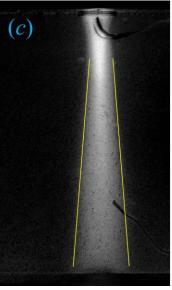
Air Water

Rain droplet Salt particle

Water vapor Dissolved salt

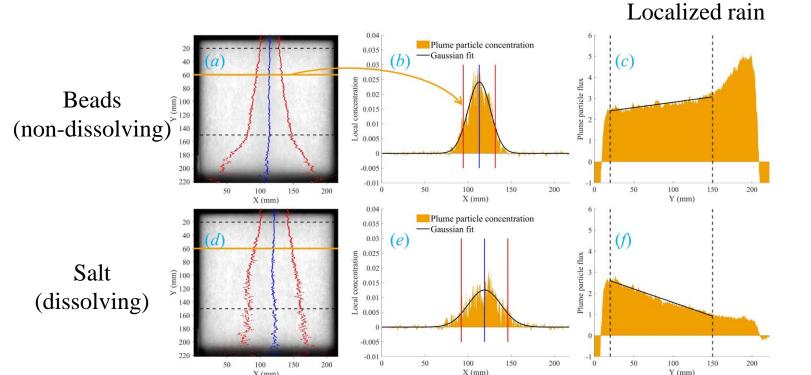






Sand (non-dissolving)

NaCl (dissolving)



Model for non-dissolving particle:

Half width $b \sim \frac{Q^2}{M} \sim \alpha z$ Vertical velocity $w_p \sim \frac{M}{Q} \sim \text{constant}$ Reduced gravity $g_p' \sim \frac{F}{Q} \sim z^{-1}$