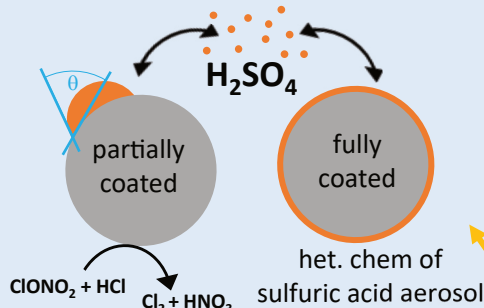


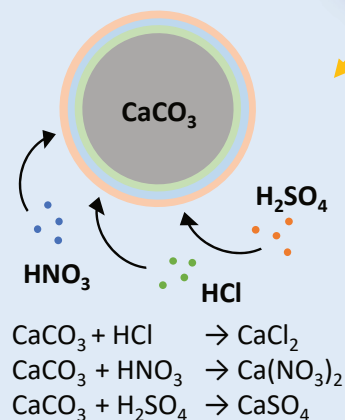
Alumina Particles

Condensation / Evaporation



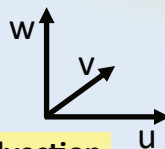
Heterogeneous Chemistry

Calcite Particles



Heterogeneous Chemistry

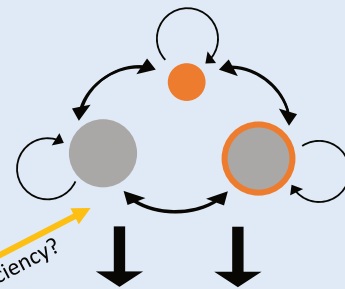
Advection



SW scattering and absorption

Heating from LW absorption

Agglomeration via coagulation



Scattering Efficiency?

Sedimentation

Ozone alteration?

Strat.-Trop. dynamical response?

Tropopause



Δ Wind?
 Δ Precipitation?
 Δ Temperature?

Wet deposition

Dry deposition

Ocean vs. land vs. ice response?

••• Gaseous H_2SO_4 / HNO_3 / HCl molecules

● Polydisperse H_2SO_4 - H_2O background aerosol

● Monodisperse solid particles

●● Solid agglomerates (dimers, 4-mers, i -mers, ... 512-mers)

● CaCO_3 with CaCl_2 , $\text{Ca(NO}_3)_2$ and CaSO_4 layers

● H_2SO_4 -coated monomers and agglomerates

● Shortwave (blue) and longwave (red) radiation

↻ Feedbacks between processes