

Atmospheric Diffusion Equation (ADE)

- ADE* represents mass balance in which emissions, transport, diffusion, chemical reaction and removal processes are represented by:

$$\frac{\partial C_i}{\partial t} + \frac{\partial(uC_i)}{\partial x} + \frac{\partial(vC_i)}{\partial y} + \frac{\partial(wC_i)}{\partial z} =$$

$$\frac{\partial}{\partial x} \left(K_H \frac{\partial C_i}{\partial x} \right) + \frac{\partial}{\partial y} \left(K_H \frac{\partial C_i}{\partial y} \right) + \frac{\partial}{\partial z} \left(K_V \frac{\partial C_i}{\partial z} \right) + R_i + S + L_i$$

* Several assumptions included above

Atmospheric Diffusion

G Psacharopoulos



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