$$\frac{dD}{dt} = -\frac{1}{2\tau_e}$$

## $\tau_e = \frac{1}{84.76\Delta\Theta \left(1 + 0.27Re^{1/2}\right)}$

 $\tau_e$  = Evaporation time scale of the droplet  $\Delta\Theta$  = Wet bulb temperature depression

t = Time

$$D = \text{Drop diameter}$$
  
 $Re = \text{Reynolds number}$