

$$\frac{\Delta E_R}{\Delta t} = D \cdot L \cdot R$$

$\left[\frac{\text{J}}{\text{m}^2 \cdot \text{s}} \right]$

$$\frac{\Delta E_W}{\Delta t} = D \cdot H \cdot W \cdot C_p \Delta T$$

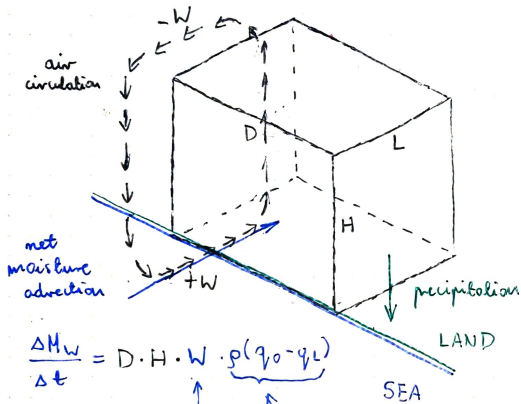
$\left[\frac{\text{m}}{\text{s}} \right] \quad \left[\frac{\text{J}}{\text{m}^3} \right]$

latent heat release

$$\frac{\Delta E_P}{\Delta t} = D \cdot L \cdot L \cdot P$$

$\left[\frac{\text{J}}{\text{kg}} \right] \quad \left[\frac{\text{kg}}{\text{m}^2 \cdot \text{s}} \right]$

$$\frac{\Delta E_R}{\Delta t} - \frac{\Delta E_W}{\Delta t} + \frac{\Delta E_P}{\Delta t} = 0 \quad \Leftrightarrow \quad R - \frac{H}{L} W C_p \Delta T + L P = 0$$



$$\frac{\Delta M_w}{\Delta t} = D \cdot H \cdot W \cdot \underbrace{\rho(q_0 - q_L)}_{\left[\frac{\text{kg}}{\text{m}^3}\right]}$$

\uparrow
 $\left[\frac{\text{m}}{\text{s}}\right]$

$$\frac{\Delta M_w}{\Delta t} - \frac{\Delta M_p}{\Delta t} = 0 \quad \Leftrightarrow$$

$$\frac{\Delta M_p}{\Delta t} = D \cdot L \cdot$$

$$\left[\frac{\text{kg}}{\text{m}^2 \cdot \text{s}}\right]$$

\downarrow
 P

$$\frac{H}{L} W \rho(q_0 - q_L) + P = 0$$