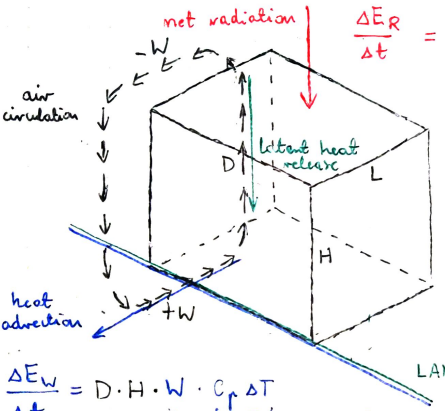
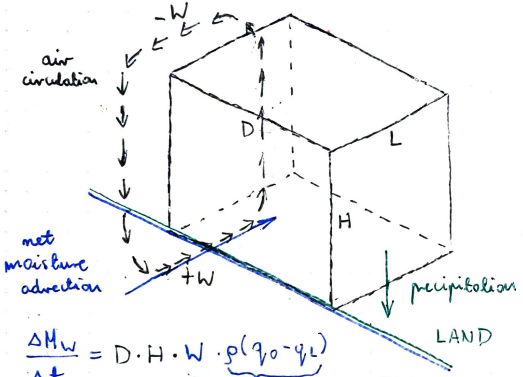


$$\frac{\Delta E_R}{\Delta t} = D \cdot L \cdot R \qquad \left[\frac{J}{m^2 \cdot s}\right]$$

$$\frac{\Delta E_W}{\Delta t} = D \cdot H \cdot W \cdot C_p \Delta T \qquad \left[\frac{m}{s}\right] \quad \left[\frac{J}{m^3}\right]$$

$$\text{latent heat release} \quad \frac{\Delta E_P}{\Delta t} = D \cdot L \cdot \mathcal{L} \cdot P \qquad \left[\frac{J}{kg}\right] \quad \left[\frac{kg}{m^2 \cdot s}\right]$$

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



$$\frac{\Delta M_W}{\Delta t} = D \cdot H \cdot W \cdot \rho (q_0 - q_L)$$

$\left[\frac{m}{s}\right]$ $\left[\frac{kg}{m^3}\right]$

$$\frac{\Delta M_P}{\Delta t} = D \cdot L \cdot P \qquad \left[\frac{kg}{m^2 \cdot s}\right]$$

$$\frac{\Delta M_W}{\Delta t} - \frac{\Delta M_P}{\Delta t} = 0 \quad \Leftrightarrow \quad \frac{H}{L} W \rho (q_0 - q_L) - P = 0$$