$$\Delta \mathcal{I}_{m_{t^n}^{(H_2O)}}^{(CAM)} = \int \left[\rho^{(d)} \left(\sum_{\ell \in \mathcal{L}_{cond}} \overline{m}_{t^n}^{(\ell)} \right) \right] \frac{\partial}{\partial t} \left(\overline{K} + \overline{\Phi}_s + c_p^{(d)} \overline{T} \right) dz$$