

$$\Delta \hat{I}_{\partial m(H_2O)/\partial t}^{(CAM)} = \int \frac{\partial}{\partial t} \left[ \rho^{(d)} \overline{\hat{m}}^{(H_2O)} \right] \left( \overline{K} + \overline{\Phi}_s + c_p^{(d)} \overline{T} \right) dz$$