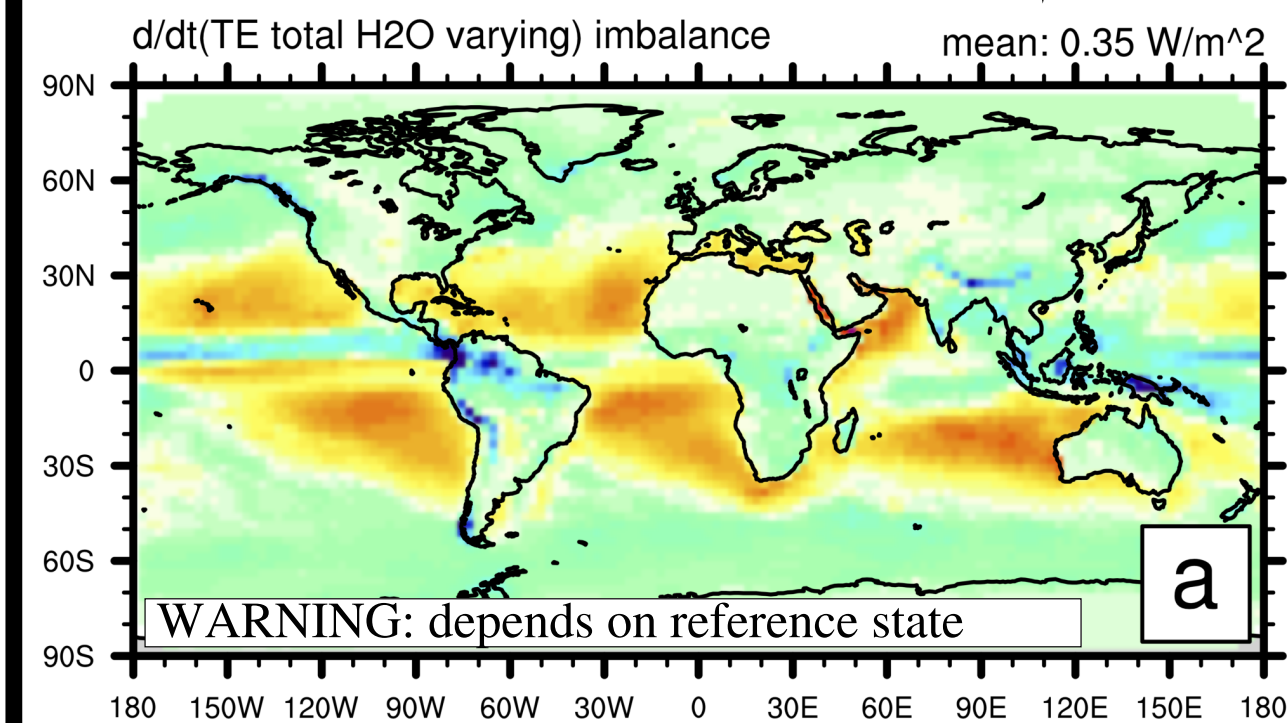


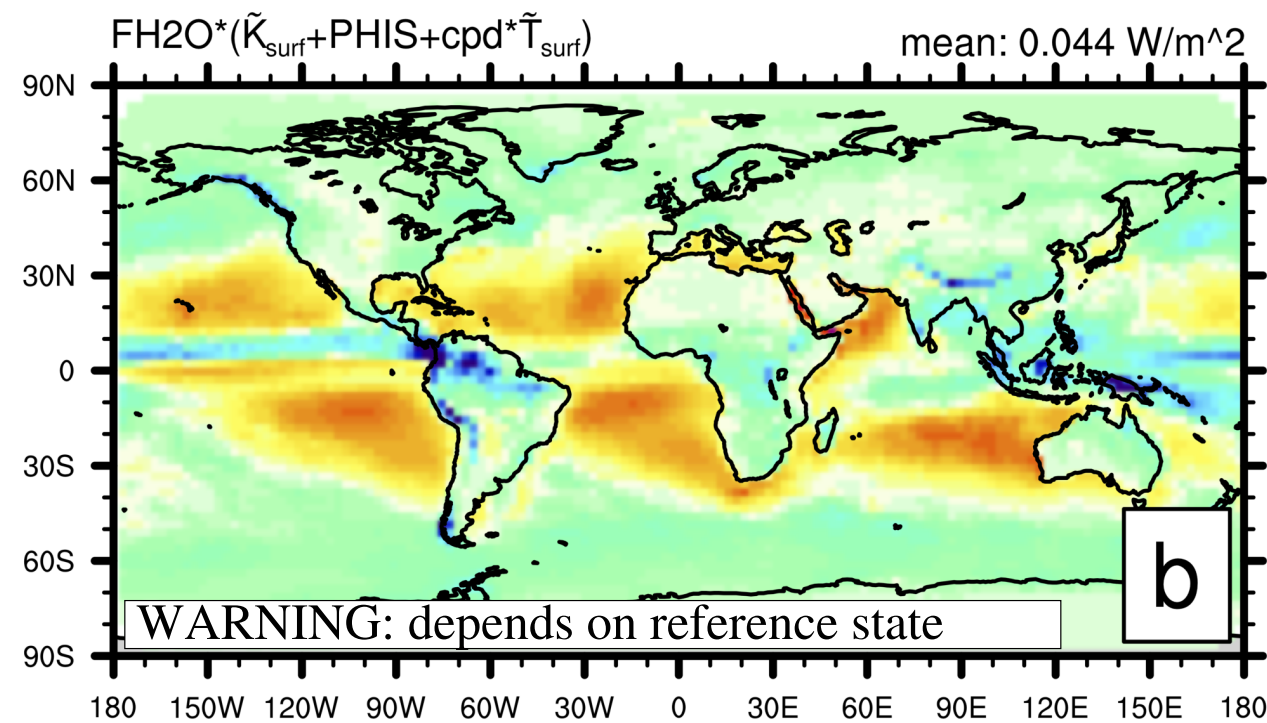
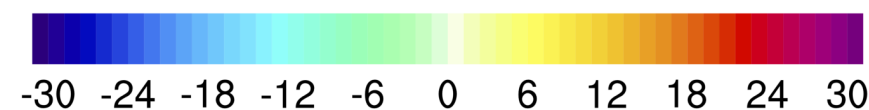
Modified CAM total energy equation incl. missing flux terms

$$\frac{\partial}{\partial t} \int \bar{\rho}^{(d)} \left\{ \left(1 + \bar{m}^{(H_2O)} \right) \left[\bar{K} + \bar{\Phi}_s + c_p^{(d)} (\bar{T} - T_{00}) \right] + \bar{m}^{(wv)} L_{s,00} + \bar{m}^{(liq)} L_{f,00} \right\} dz$$

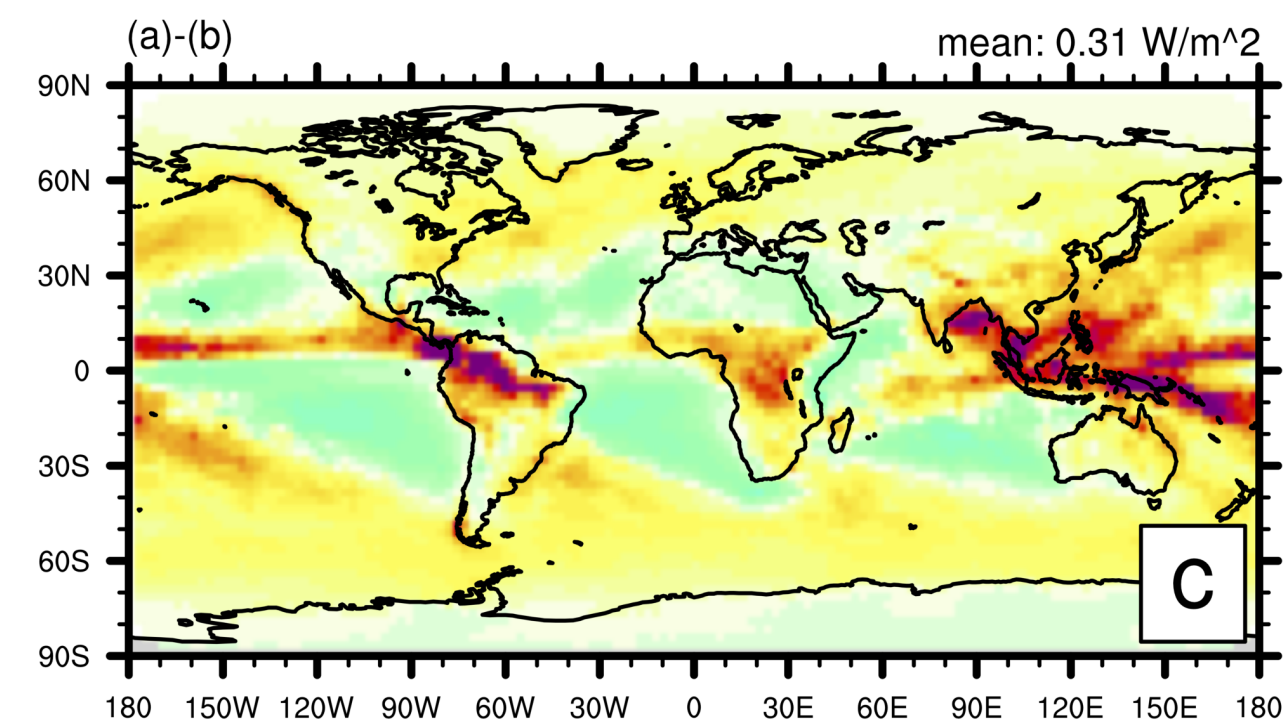
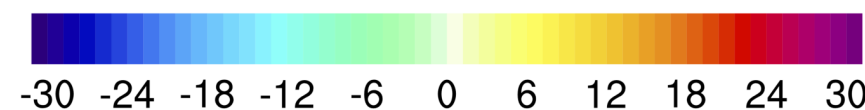
$$- \Delta \hat{\mathcal{I}}_{\partial m^{(H_2O)} / \partial t} - \Delta \mathcal{I}_{m_{tn}^{(H_2O)}} = \overline{F}_{net}^{(H_2O)} \left[c_p^{(d)} (\tilde{T}_s - T_{00}) + \tilde{K}_s + \bar{\Phi}_s \right] + \overline{F}_{net}^{(wv)} L_{s,00} + \overline{F}_{net}^{(liq)} L_{f,00} + \overline{F}_{net}^{(turb,rad)}$$



global min = -89.89 global max = 32.67



global min = -96.14 global max = 33.13



global min = -0.6855 global max = 6.551

