

$$P_{qflux} = q_{tend_all} * dz * rho \quad (a)$$

$$P_{qflux} = w_{k+1} * rho_{k+1} * q_{k+1} - w_k * rho_k * q_k \quad (b)$$

$$\frac{\partial q}{\partial t} = \frac{1}{\rho} \frac{\partial(\rho w q)}{\partial z}$$

V1: (a) with unit tendencies in one hour bucket, ext_diag on

V2: (b) un-normalized

V3: (b) normornalized

V4: (a) with unit kg/m²/second, ext_diag on

V5: (a) with unit kg/m²/second, ext_diag off

V6/7: same as V1 except , ext_diag off