

DJF (D80–F10)

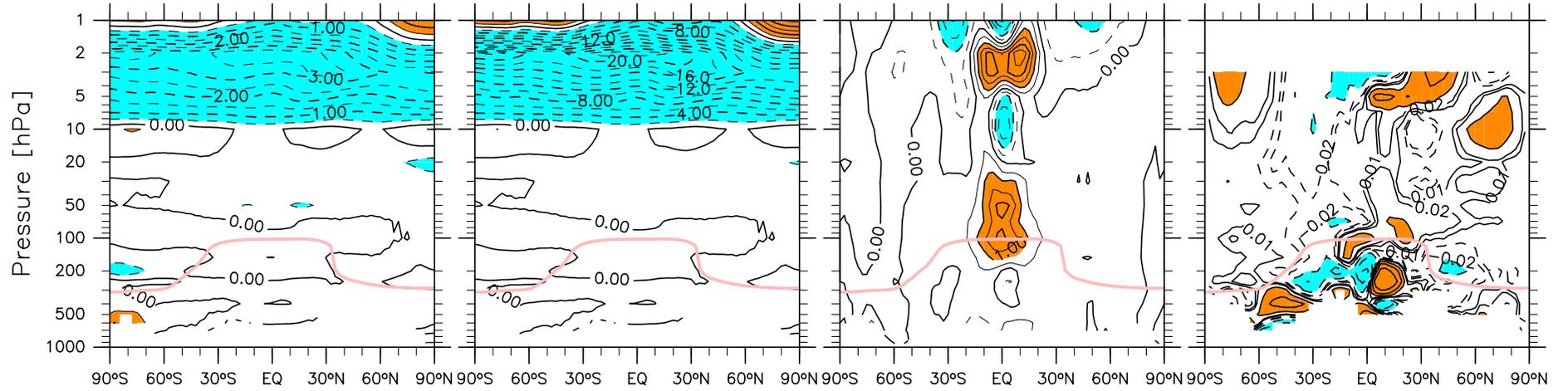
JRA-55 – REM

(a) T [K]

(b) θ [K]

(c) u [m/s]

(d) v_{res} [m/s]

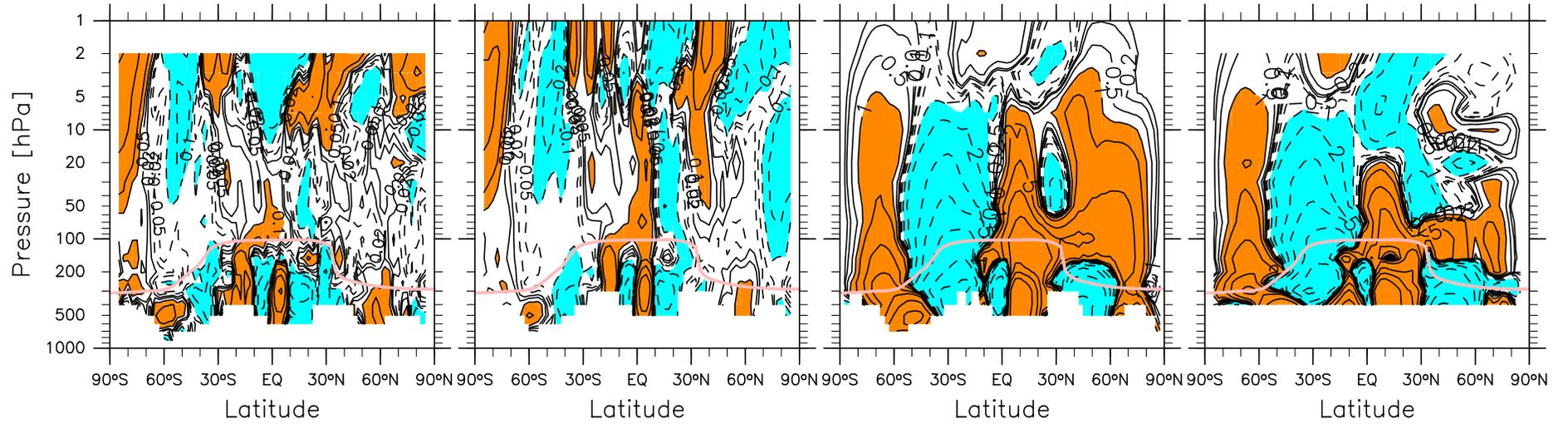


(e) w_{res} [mm/s]

(f) w_{res} from ψ_{vres} [mm/s]

(g) ψ_{vres} [kg/m/s]

(h) ψ_{wres} [kg/m/s]



DJF (D80–F10)

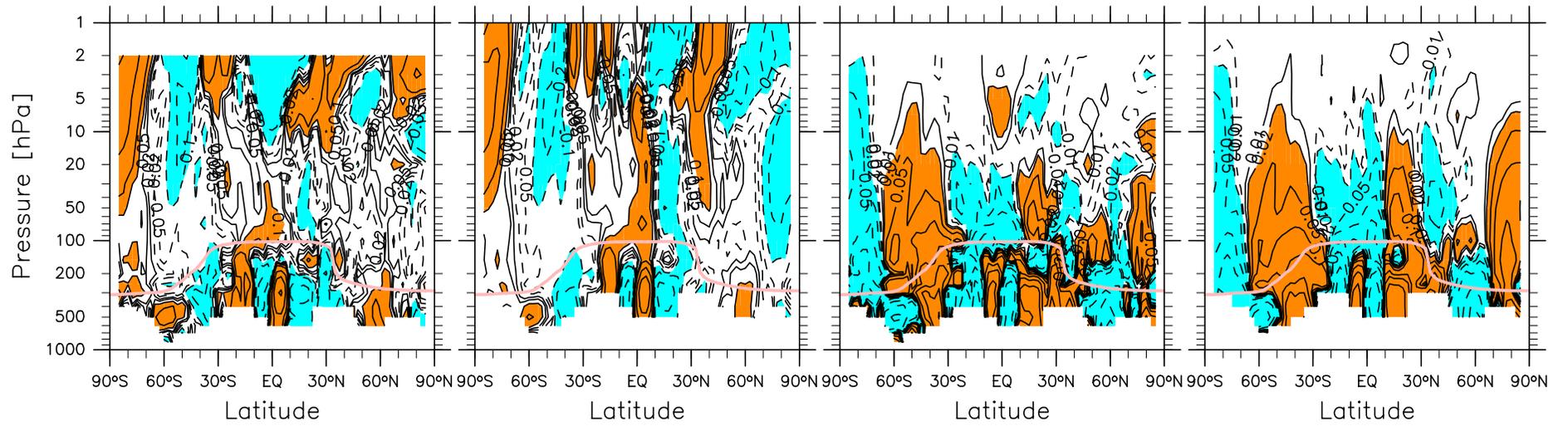
JRA-55 – REM

(a) w_{res} [mm/s]

(b) w_{res} from ψ_{vres} [mm/s]

(c) ω_{res} [mPa/s]

(d) ω_{res} from ψ_{vres} [mPa/s]



DJF (D80–F10)

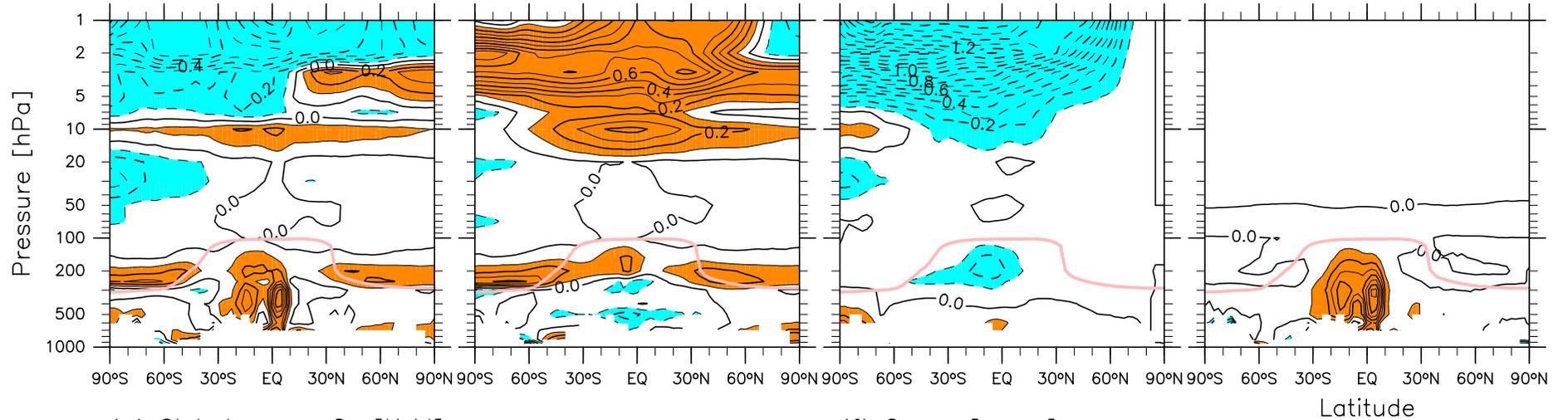
JRA-55 – REM

(a) Q_{total} [K/d]

(b) $Q_{longwave}$ [K/d]

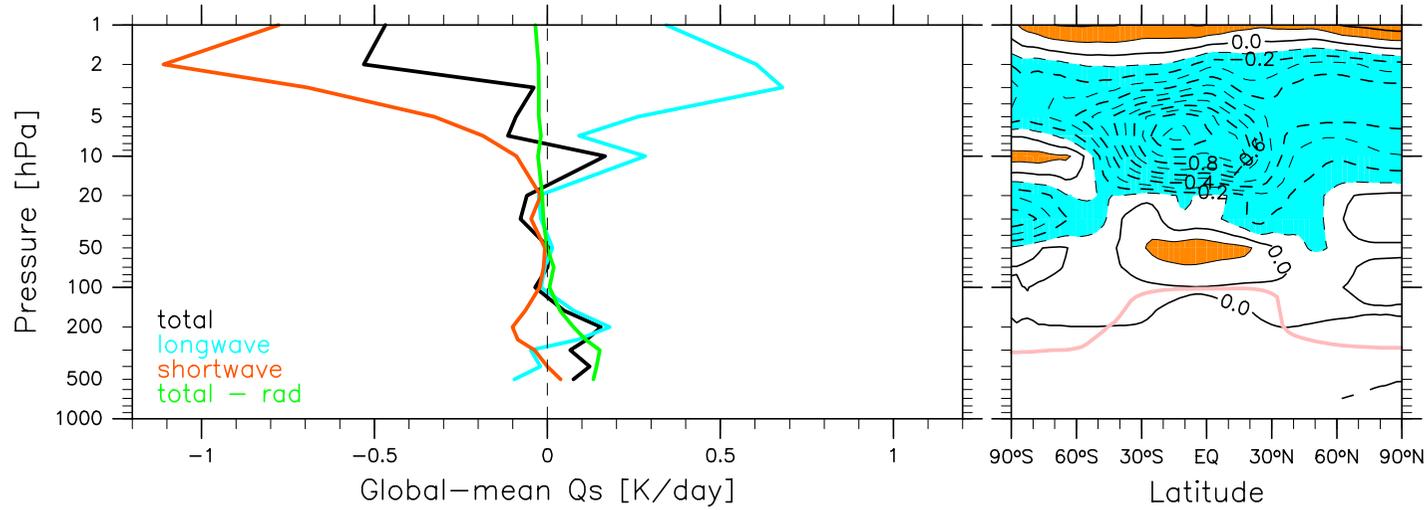
(c) $Q_{shortwave}$ [K/d]

(d) $Q_{total} - Q_{rad}$ [K/d]



(e) Global-mean Q_s [K/d]

(f) Ozone [ppmv]



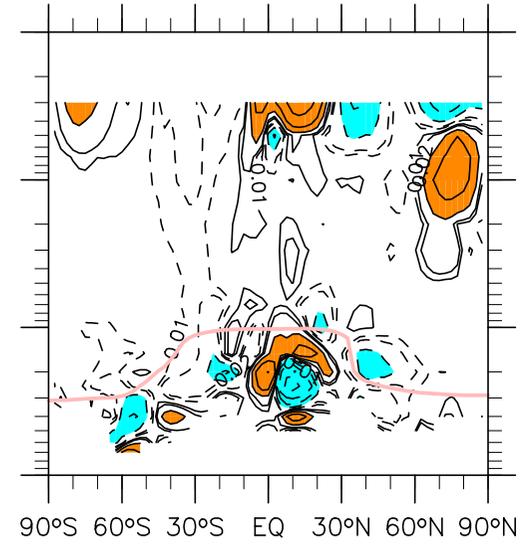
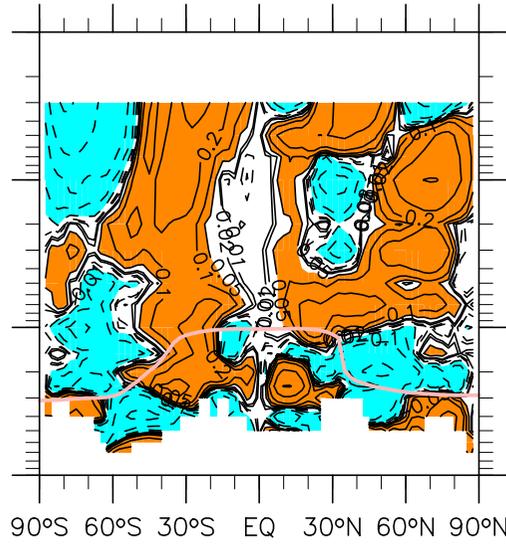
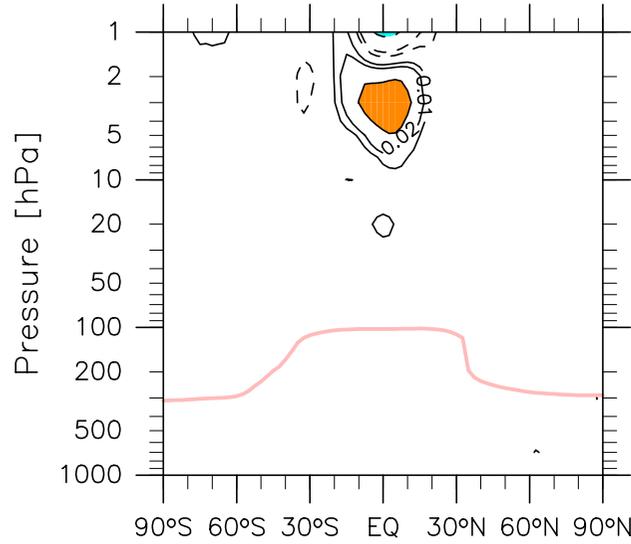
DJF (D80-F10)

JRA-55 - REM

(a) $\partial u/\partial t$

(b) $+fv^*$

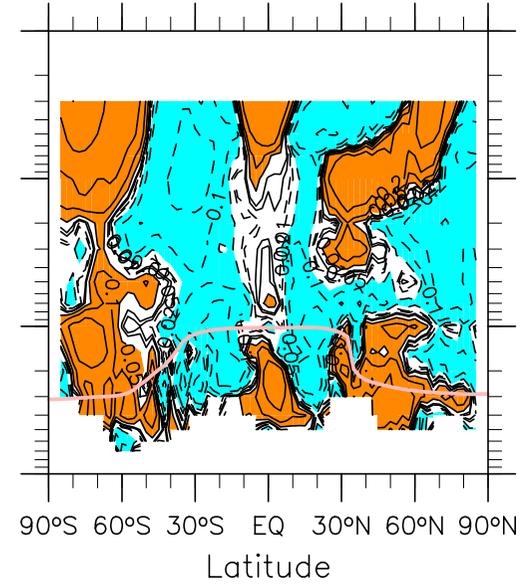
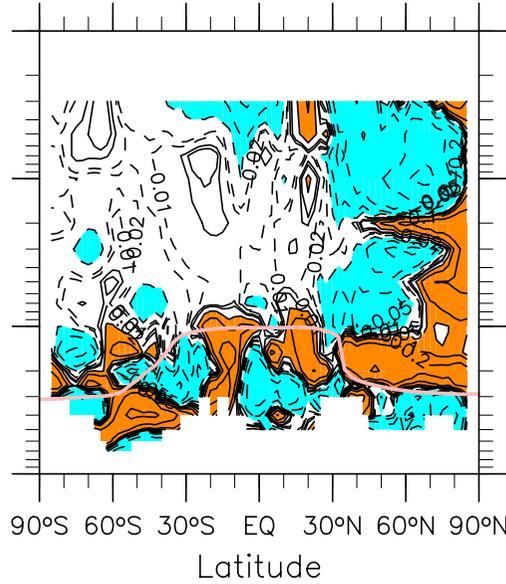
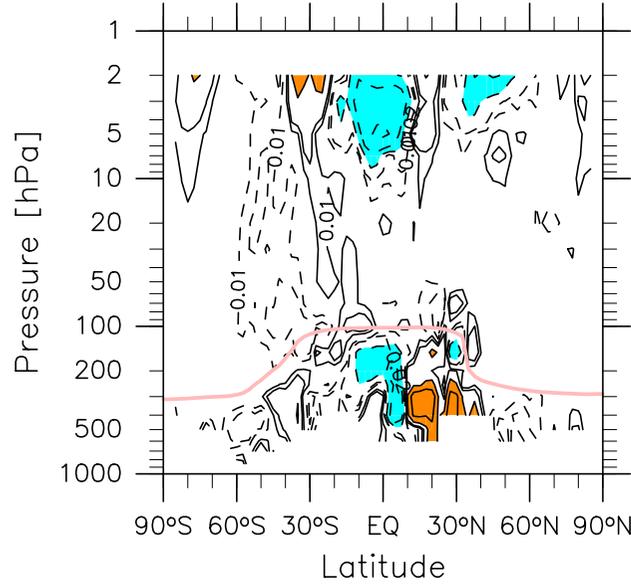
(c) $-v^* \partial u/\partial y$



(d) $-\omega^* \partial u/\partial p$

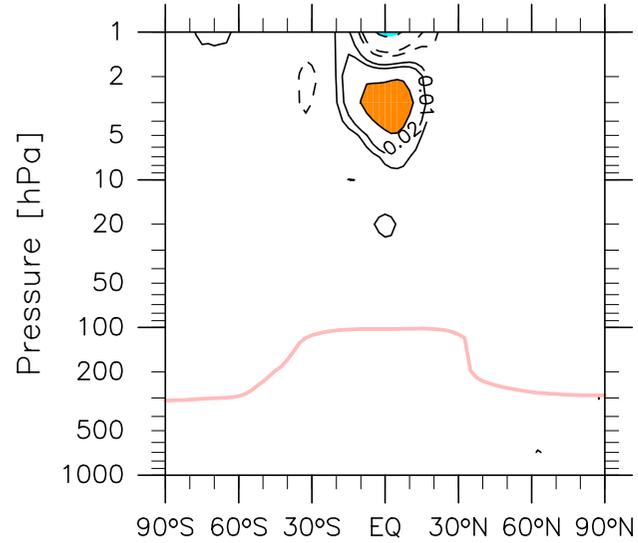
(e) EPFD

(f) Residual_u



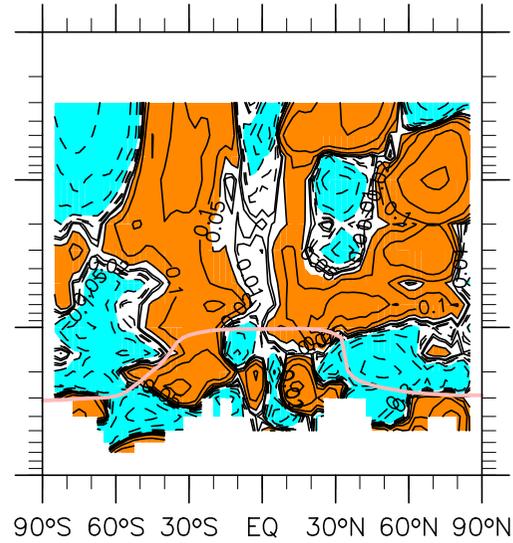
DJF (D80-F10)

(a) $\partial u / \partial t$

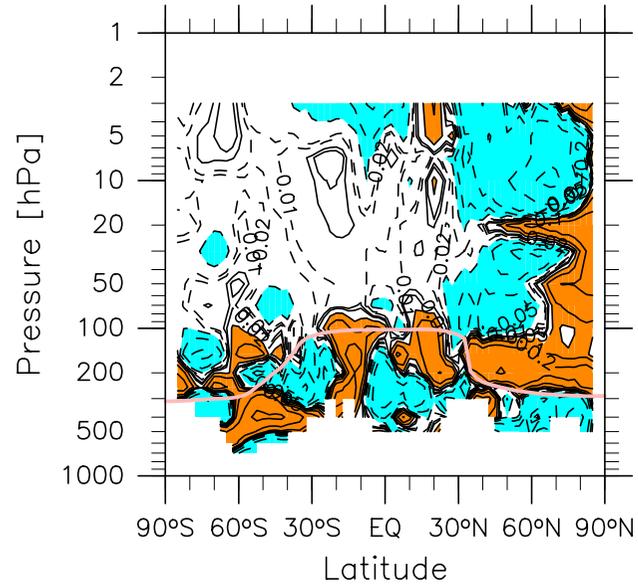


JRA-55 - REM

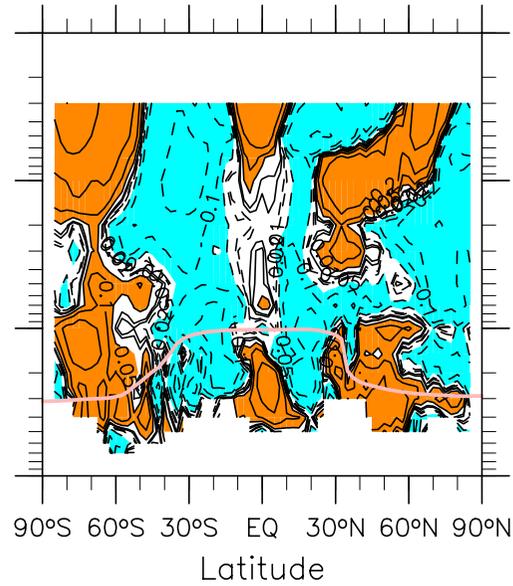
(b) $+fv^* - v^* \partial u / \partial y - \omega^* \partial u / \partial p$



(c) EPFD

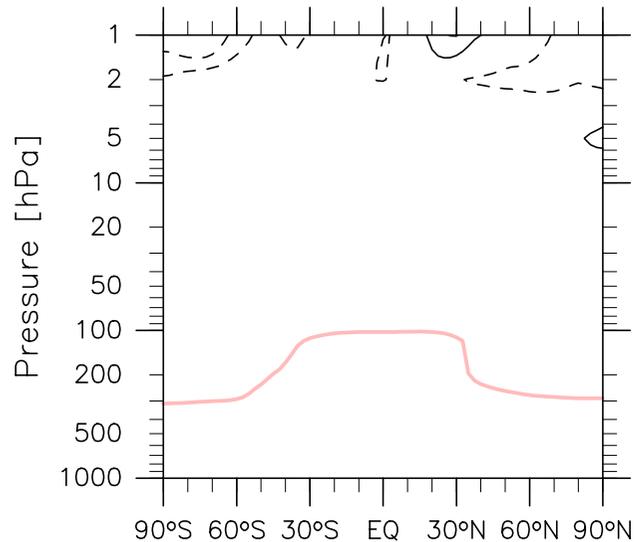


(d) Residual_u

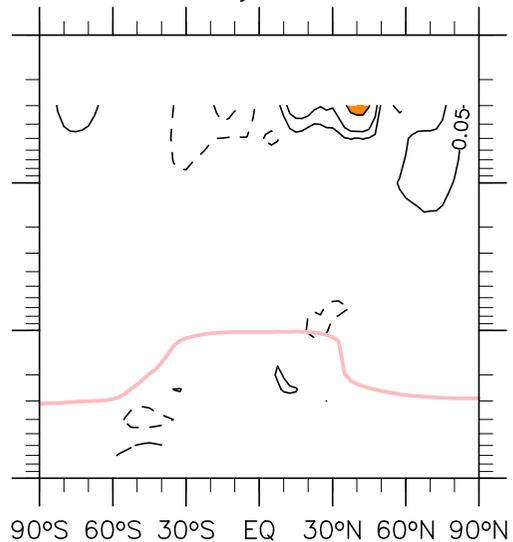


DJF (D80–F10)

(a) $\partial\theta/\partial t$

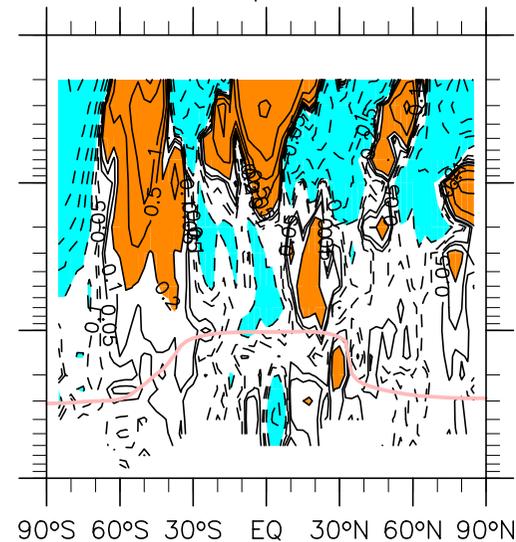


(b) $-v^* \partial\theta/\partial y$

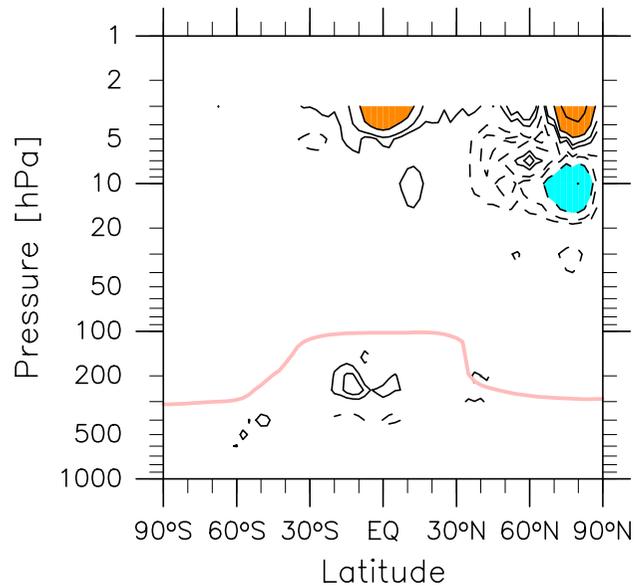


JRA-55 – REM

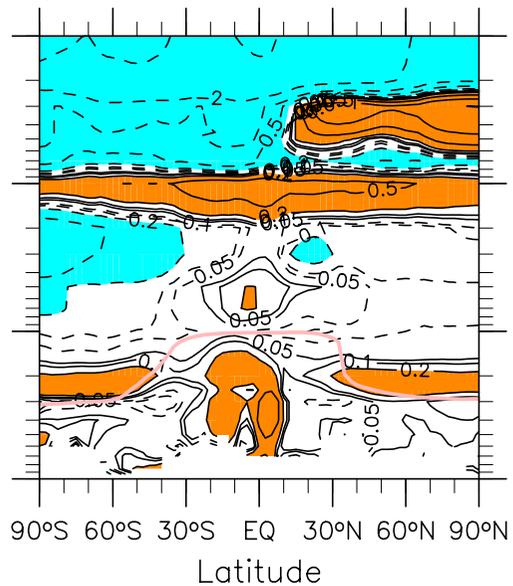
(c) $-\omega^* \partial\theta/\partial p$



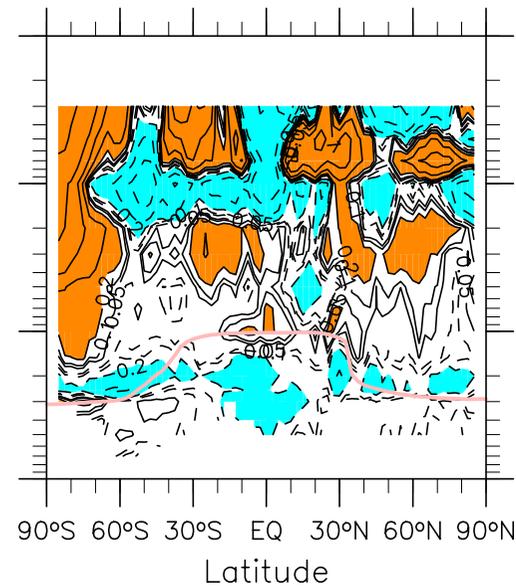
(d) TEM–thermo flux term



(e) Q_{total}

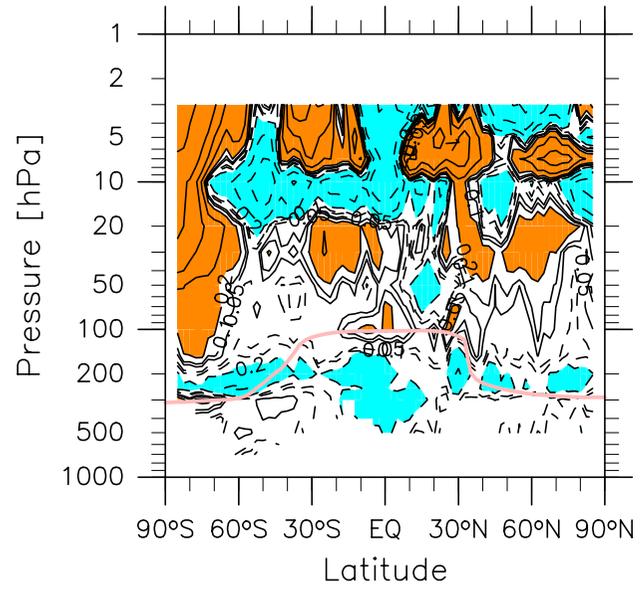


(f) Residual_θ

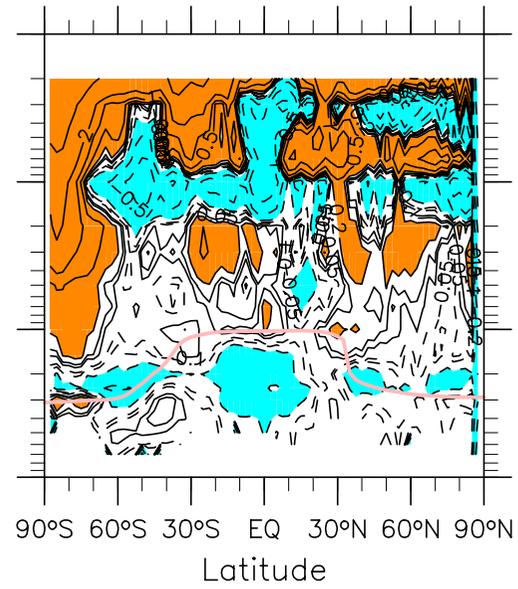


DJF (D80–F10)

(a) Residual_θ (TEM)



(b) Residual_θ (EM)



JRA-55 – REM

(c) difference (TEM minus EM)

