

DJF (D80–F10)

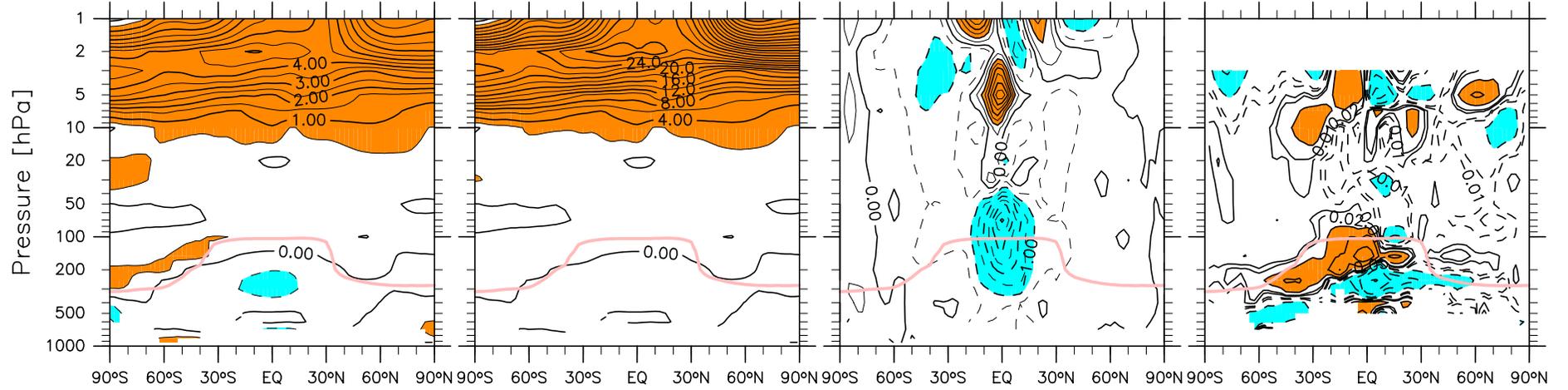
CFSR – REM

(a) T [K]

(b) θ [K]

(c) u [m/s]

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

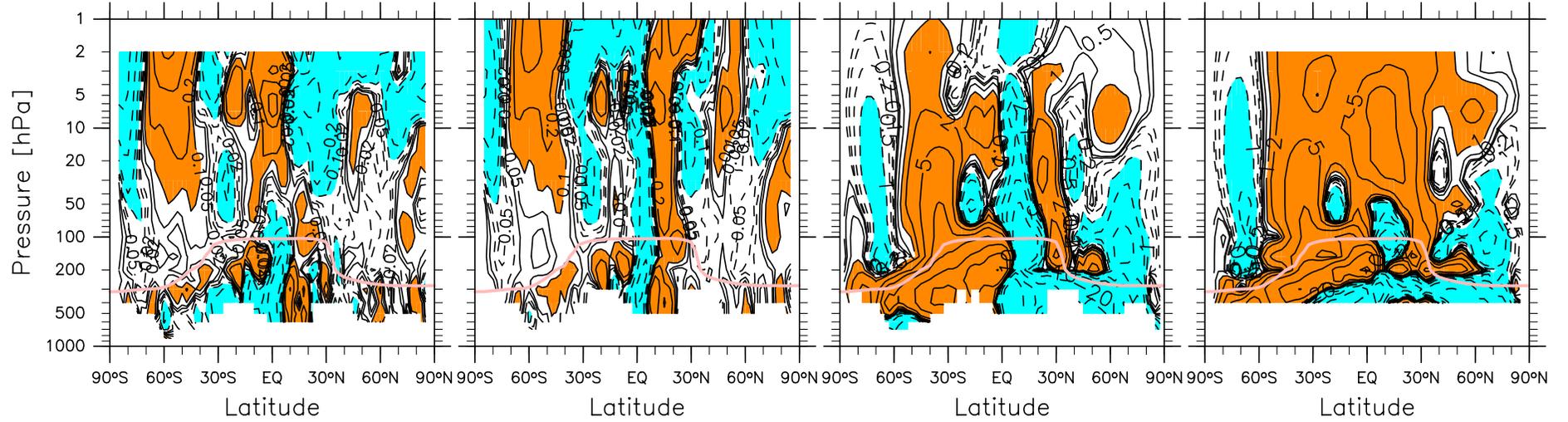


(e) w_{res} [mm/s]

(f) w_{res} from Ψ_{vres} [mm/s]

(g) Ψ_{vres} [kg/m/s]

(h) Ψ_{wres} [kg/m/s]



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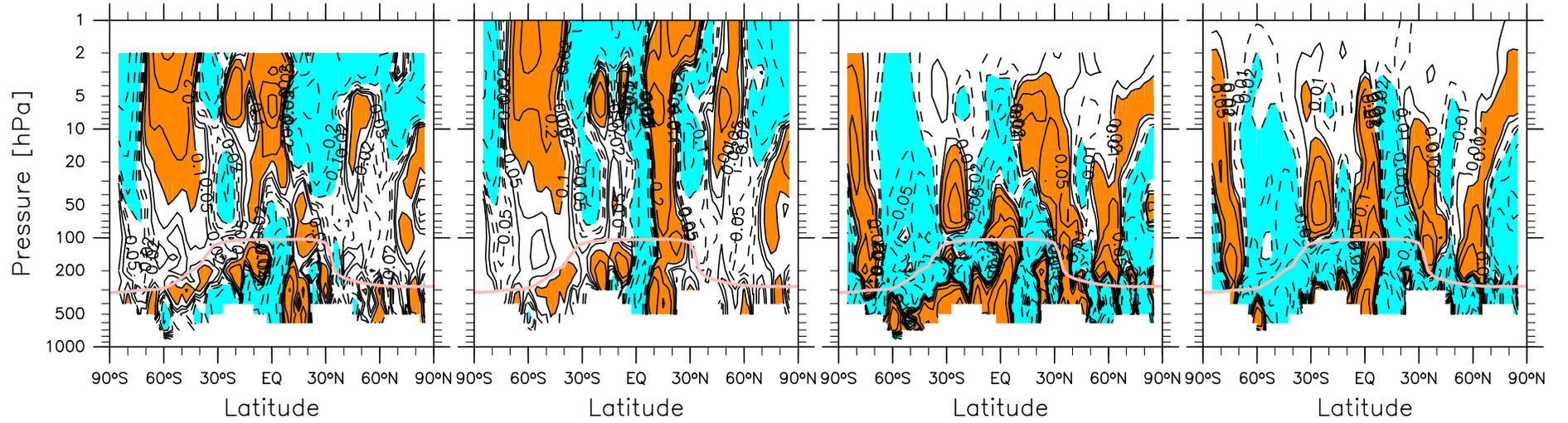
CFSR — REM

(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)

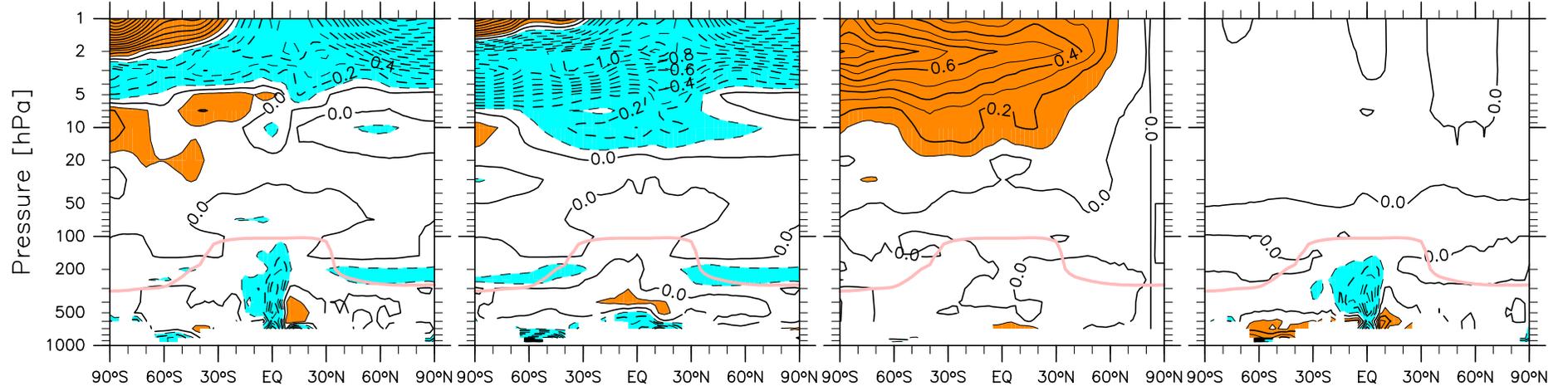
CFSR – REM

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

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

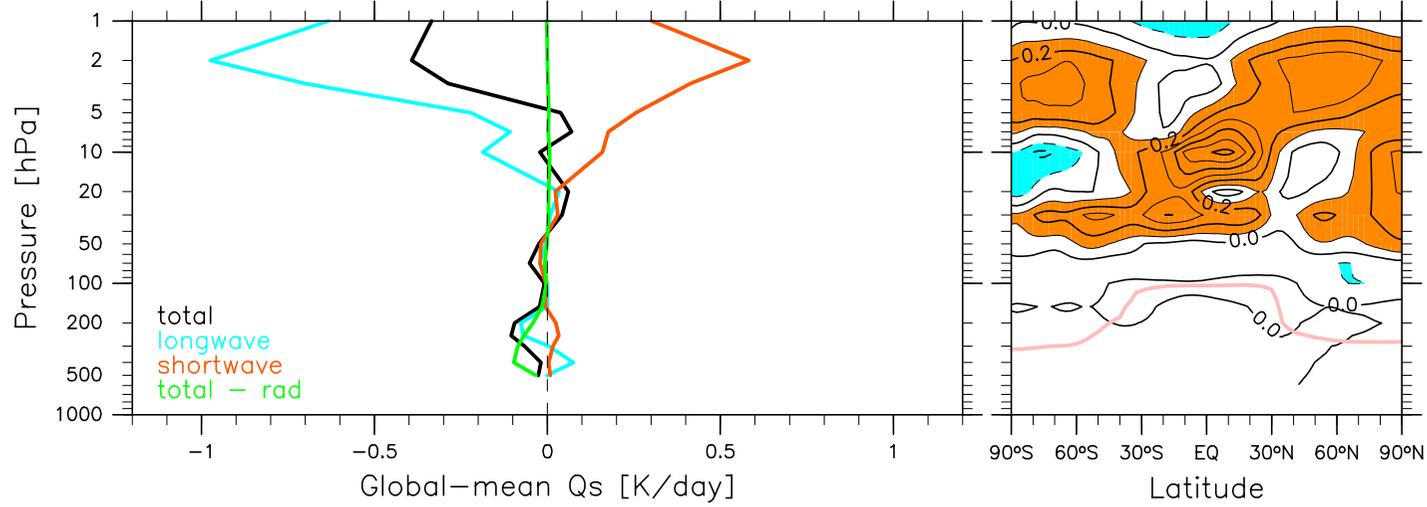
(c) $Q_{shortwave}$ [K/d]

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



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

(f) Ozone [ppmv]



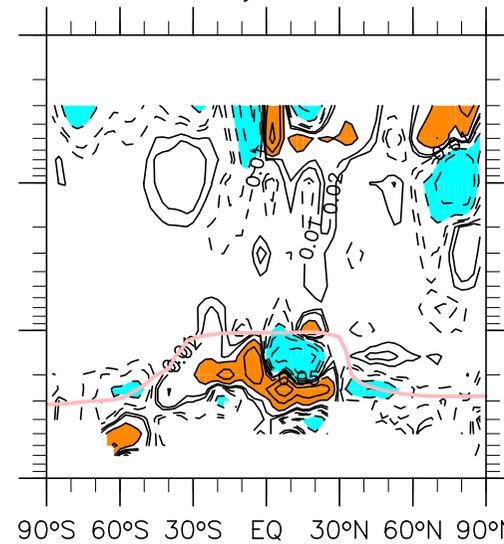
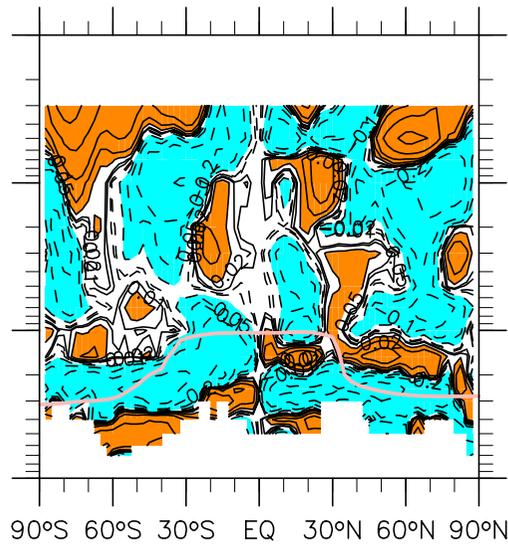
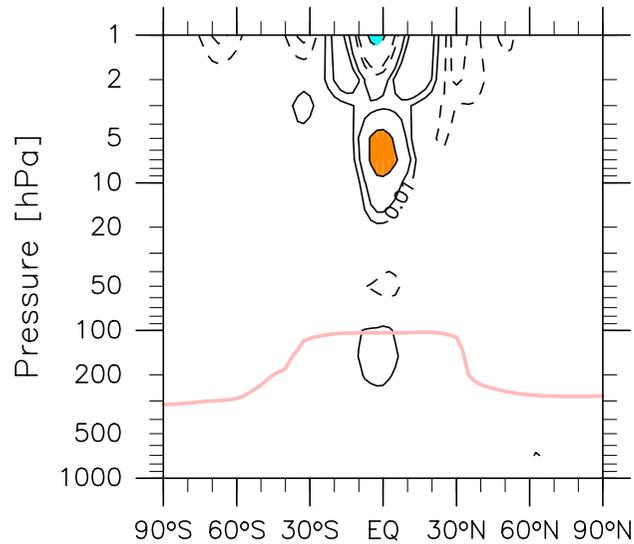
DJF (D80–F10)

CFSR – REM

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

(b) $+fv^*$

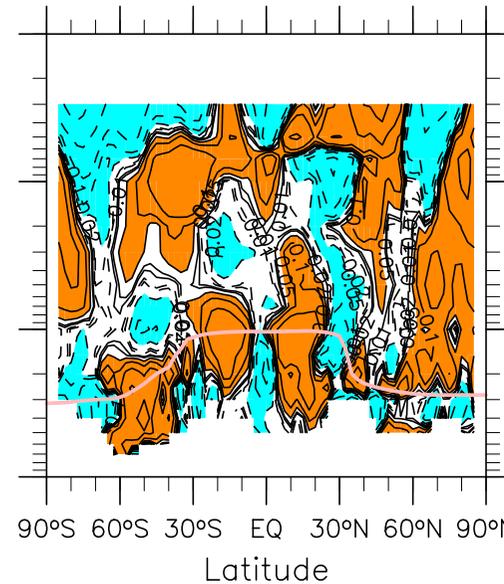
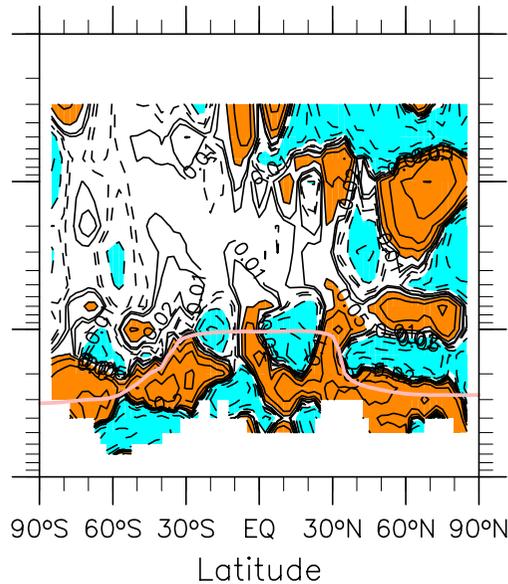
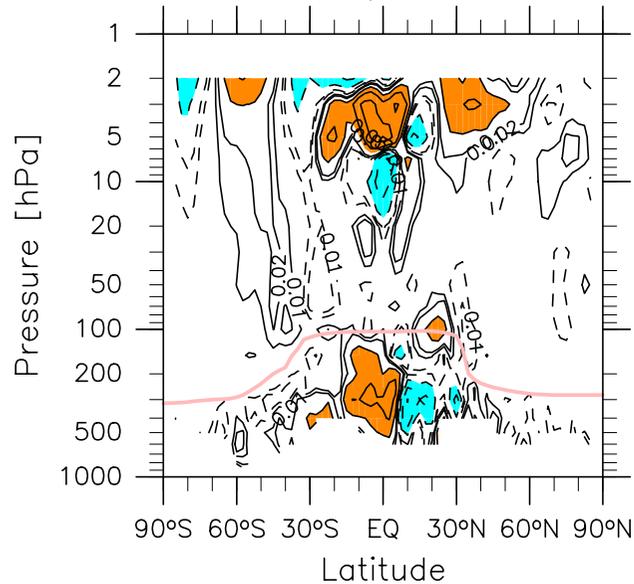
(c) $-v^* \partial u / \partial y$



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

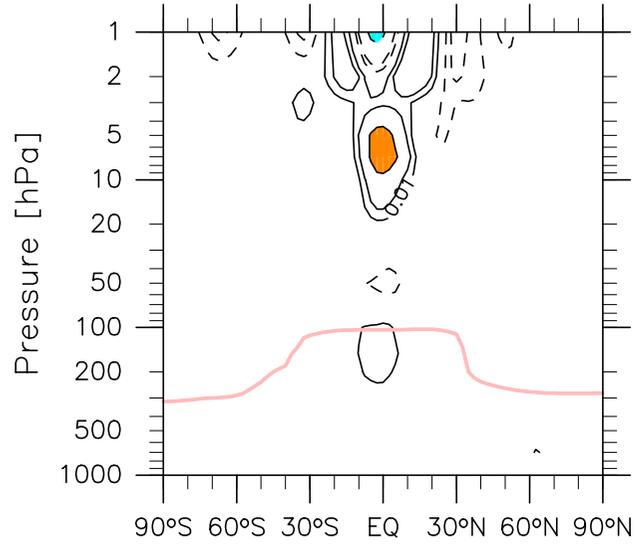
(e) EPFD

(f) Residual_u



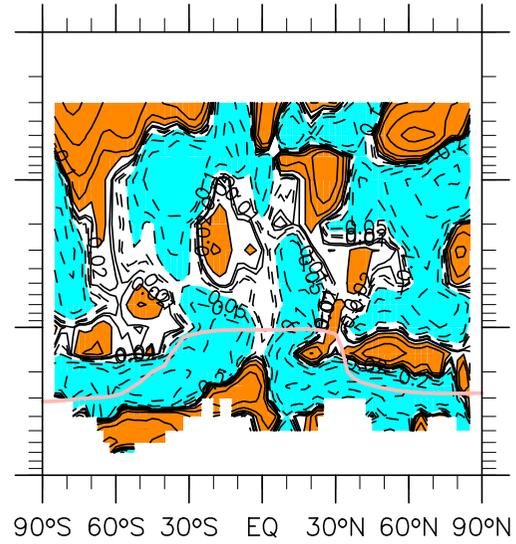
DJF (D80–F10)

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

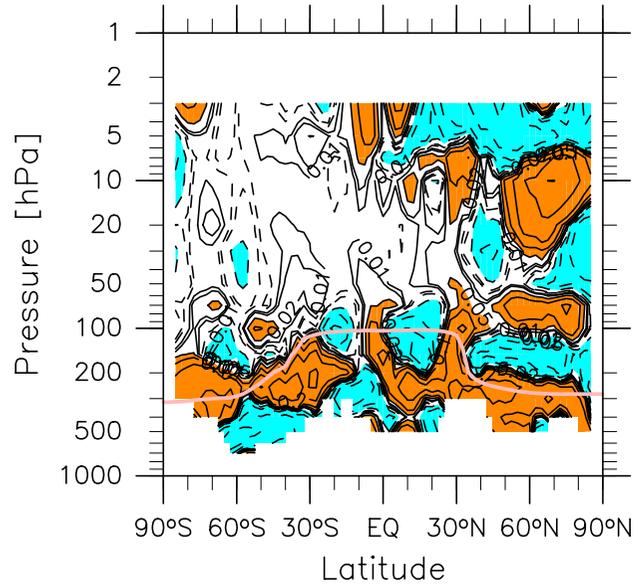


CFSR – REM

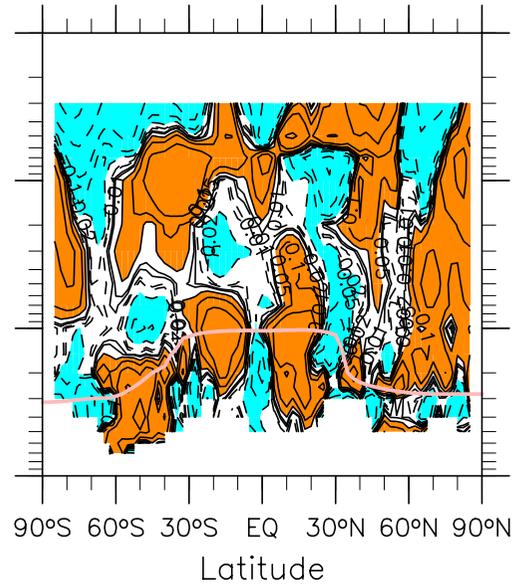
(b) $+fv^* - v^* \partial u / \partial y - \omega^* \partial u / \partial p$



(c) EPFD



(d) Residual_u



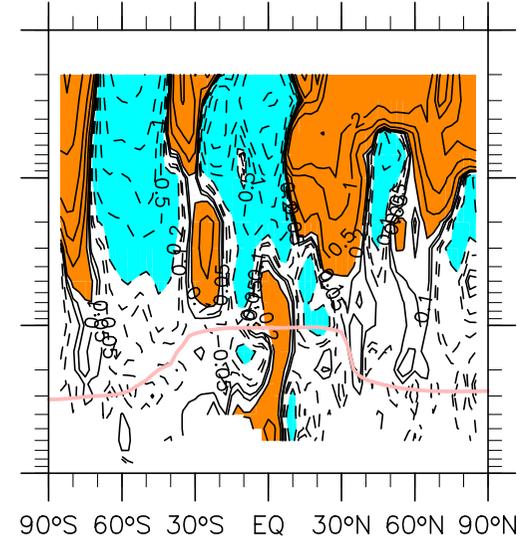
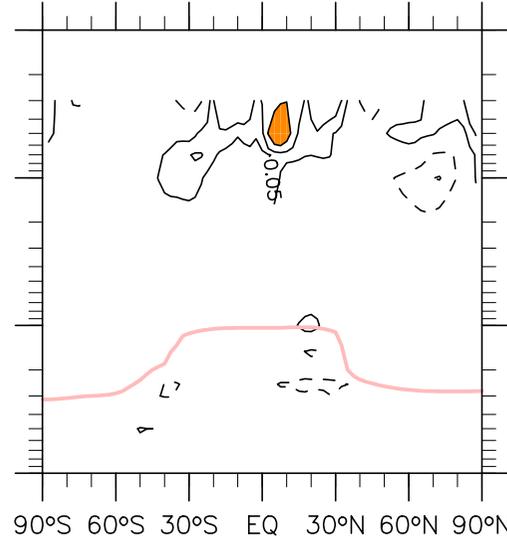
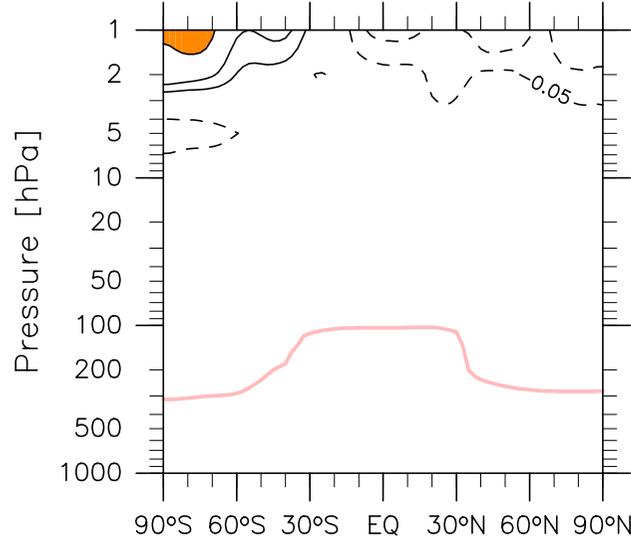
DJF (D80–F10)

CFSR – REM

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

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

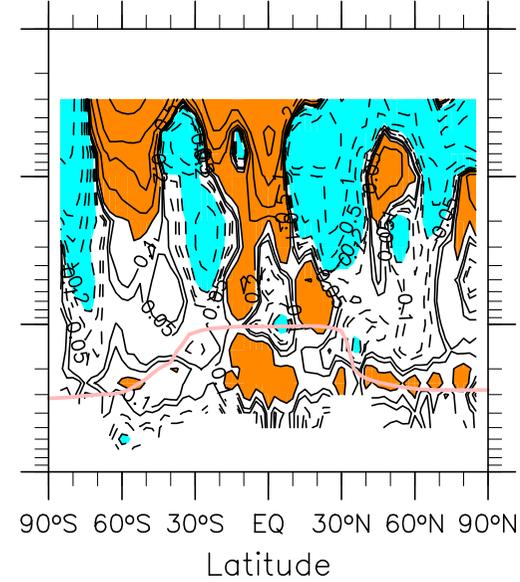
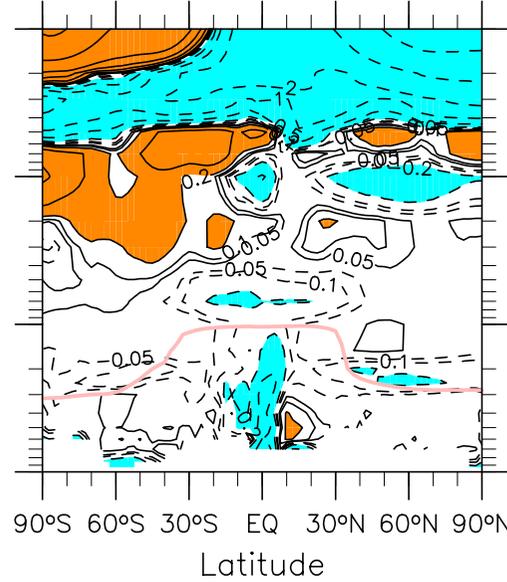
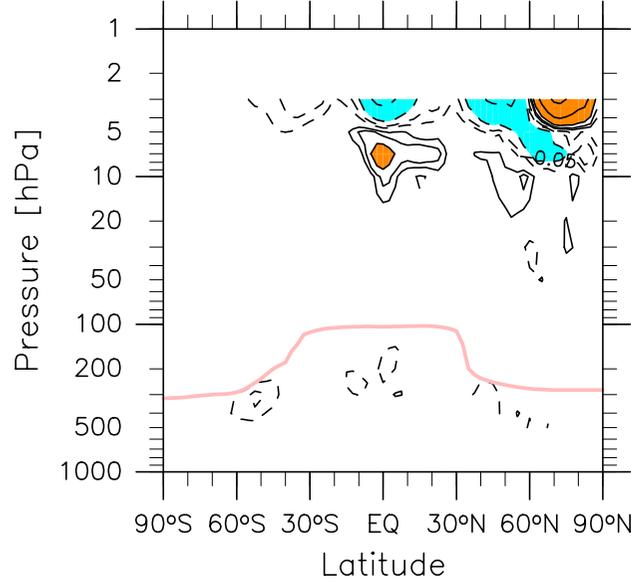
(c) $-\omega^* \partial\theta/\partial p$



(d) TEM–thermo flux term

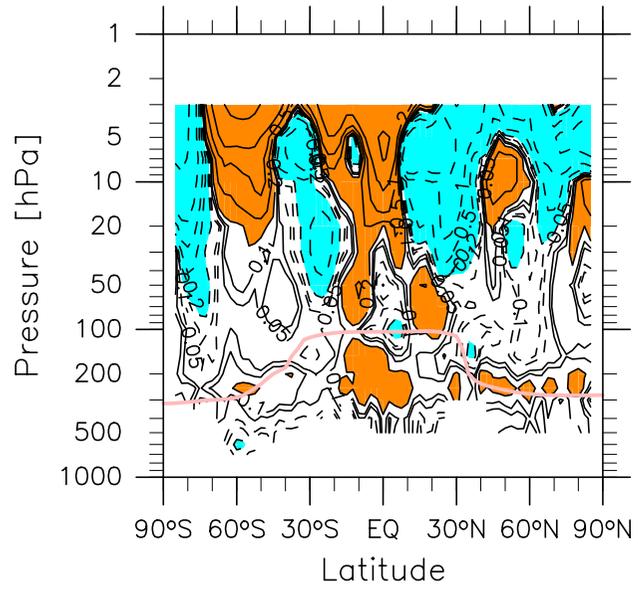
(e) Q_{total}

(f) Residual_ θ

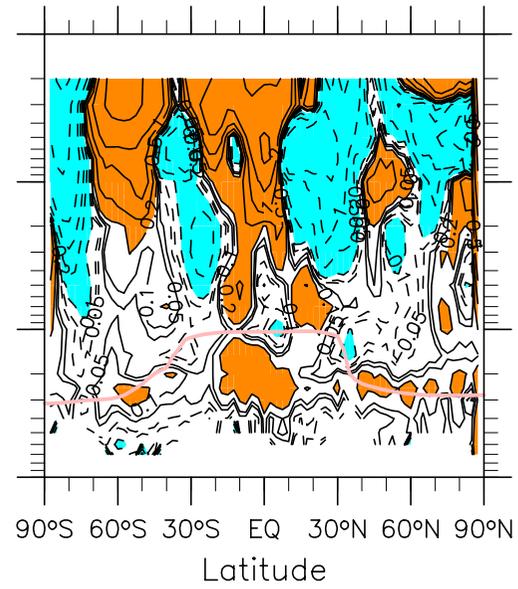


DJF (D80–F10)

(a) Residual_θ (TEM)



(b) Residual_θ (EM)



CFSR – REM

(c) difference (TEM minus EM)

