

DJF (D80–F10)

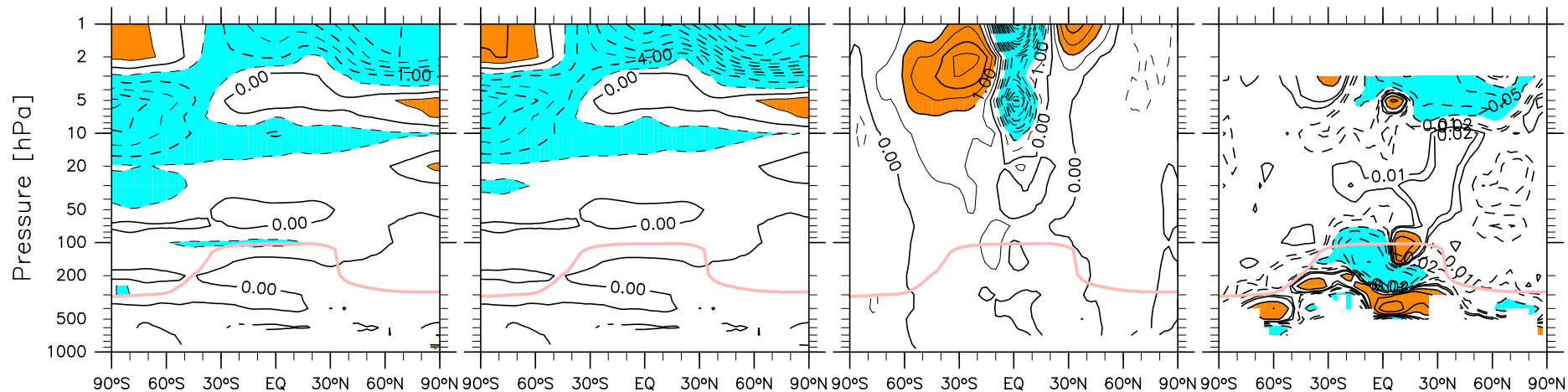
ERA–Int – REM

(a) T [K]

(b) Θ [K]

(c) u [m/s]

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

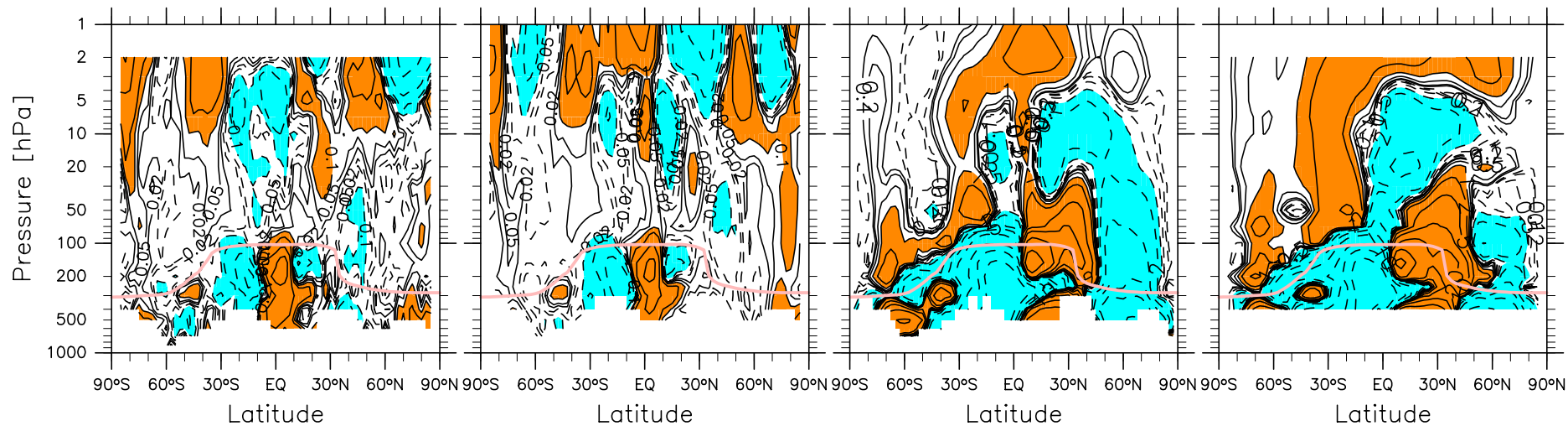


(e) w_{res} [mm/s]

(f) w_{res} from Ψ_{vres} [mm/s]

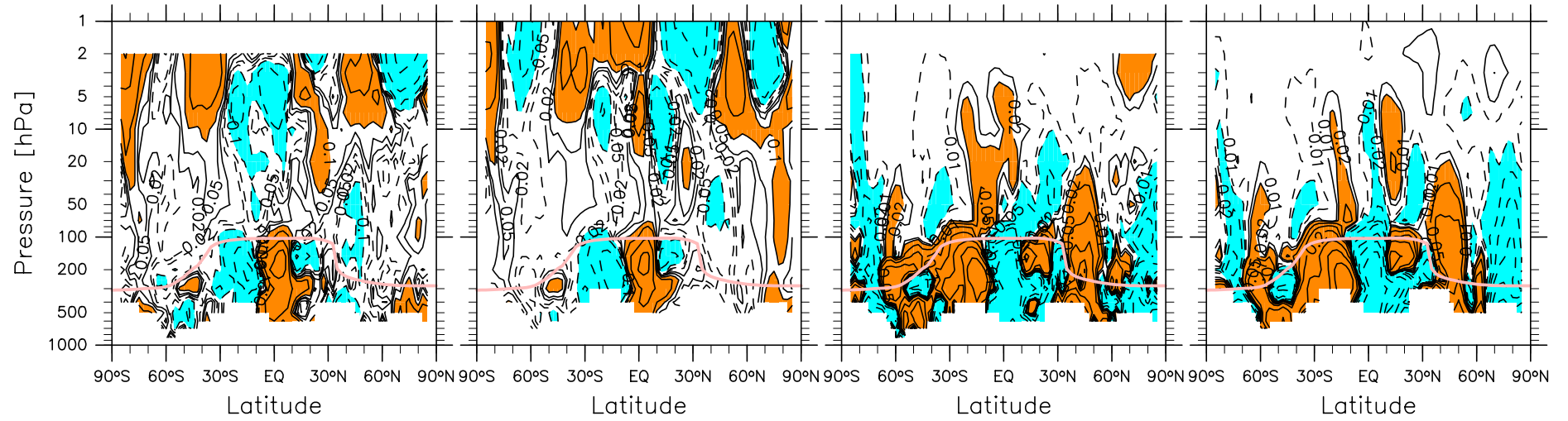
(g) Ψ_{vres} [kg/m/s]

(h) Ψ_{wres} [kg/m/s]



ERA-Int - REM

(d) ω_{res} from ψ_{vres} [mPa/s]



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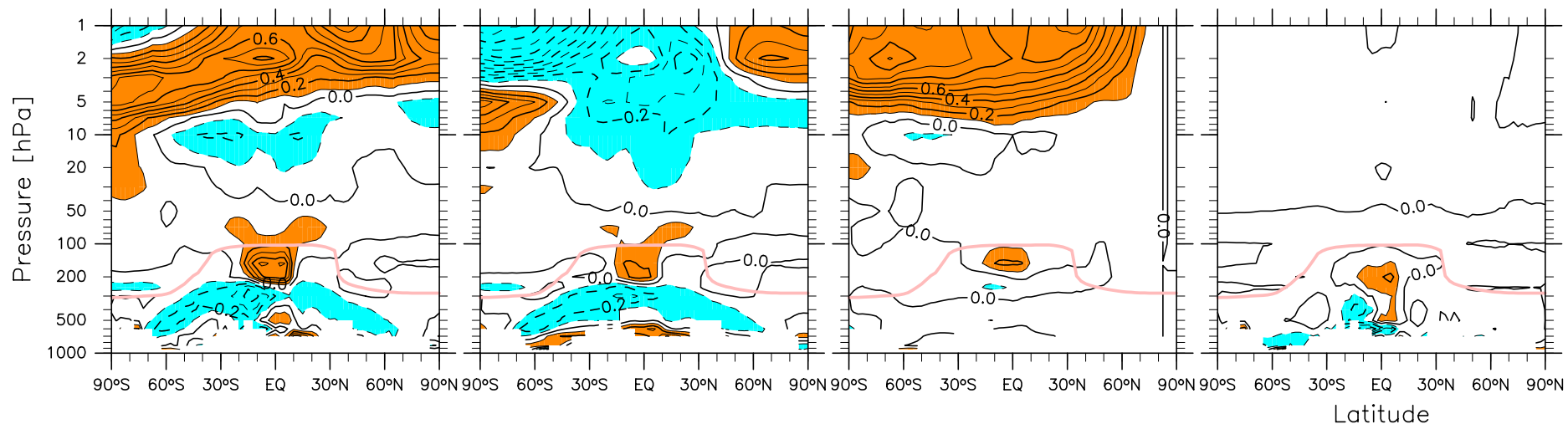
ERA–Int – REM

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

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

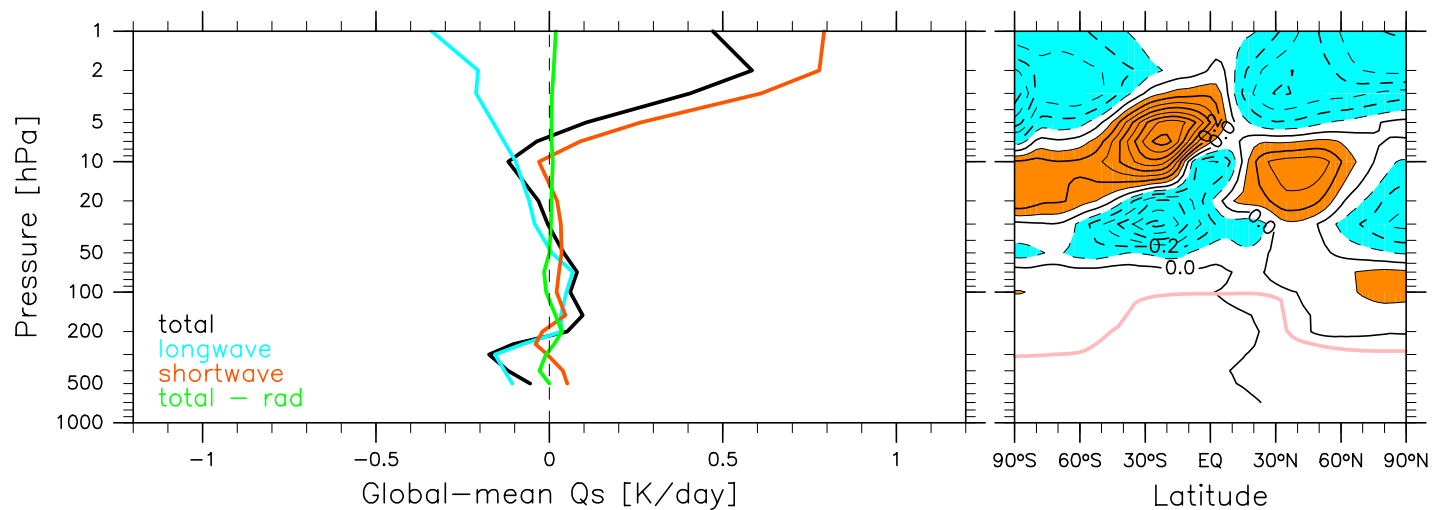
(c) $Q_{\text{shortwave}}$ [K/d]

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



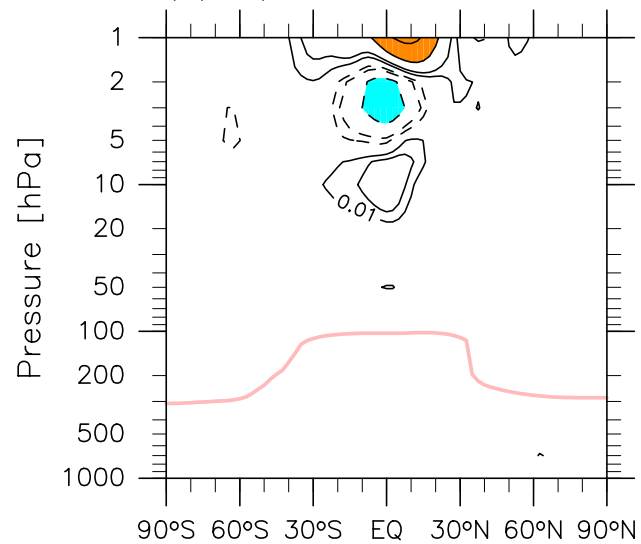
(e) Global–mean Q_s [K/d]

(f) Ozone [ppmv]

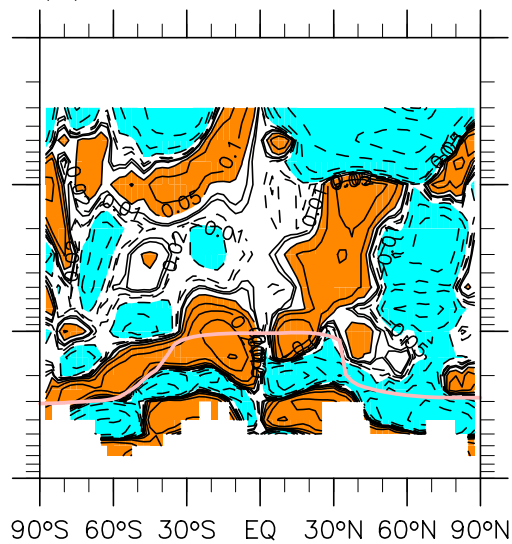


DJF (D80–F10)

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

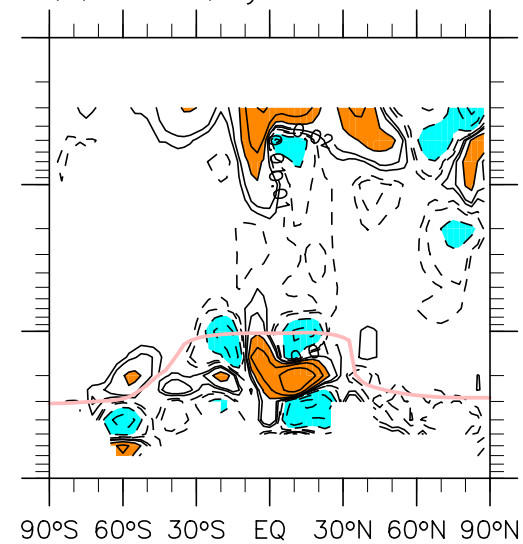


(b) $+fv^*$

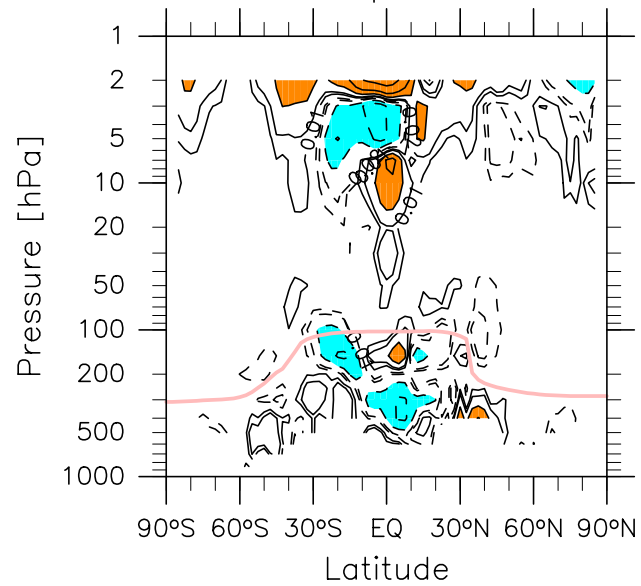


ERA–Int – REM

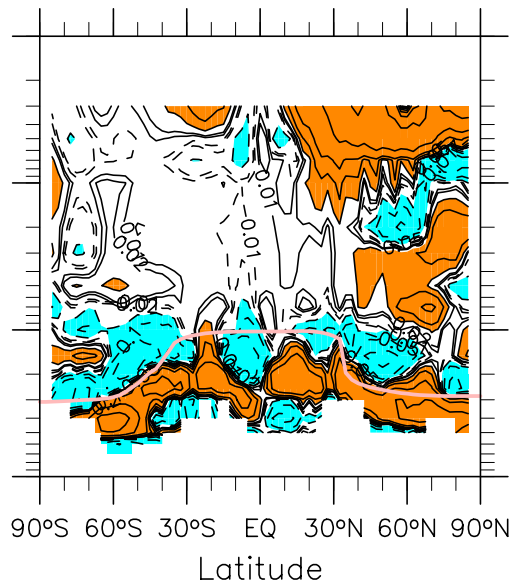
(c) $-v^* \partial u / \partial y$



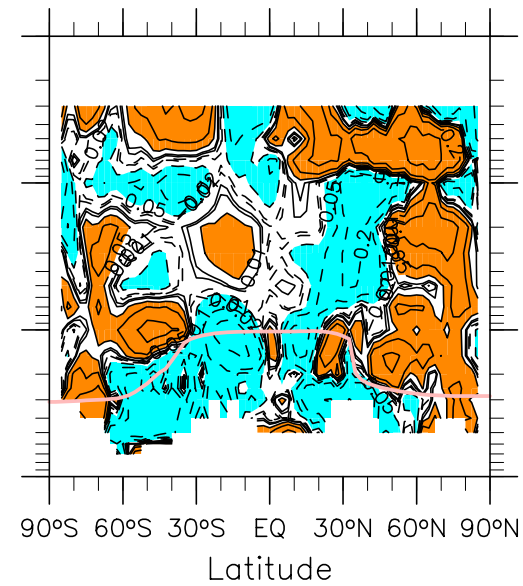
(d) $-\omega^* \partial u / \partial p$



(e) EPFD

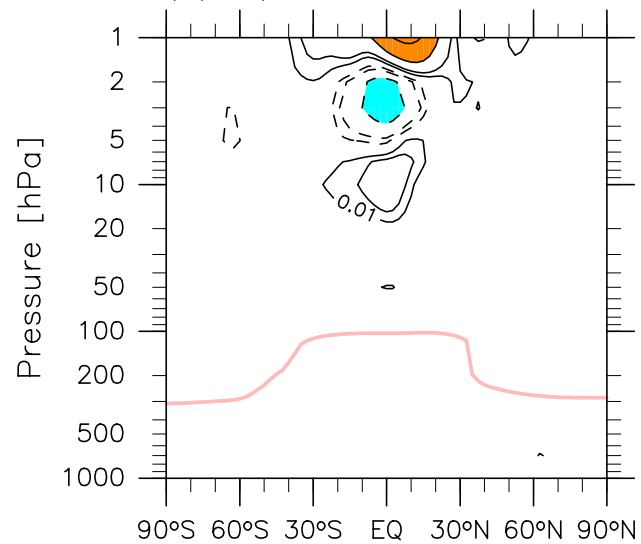


(f) Residual_u



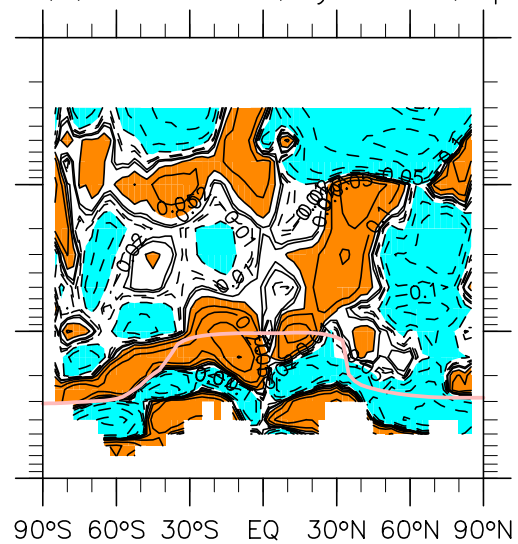
DJF (D80–F10)

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

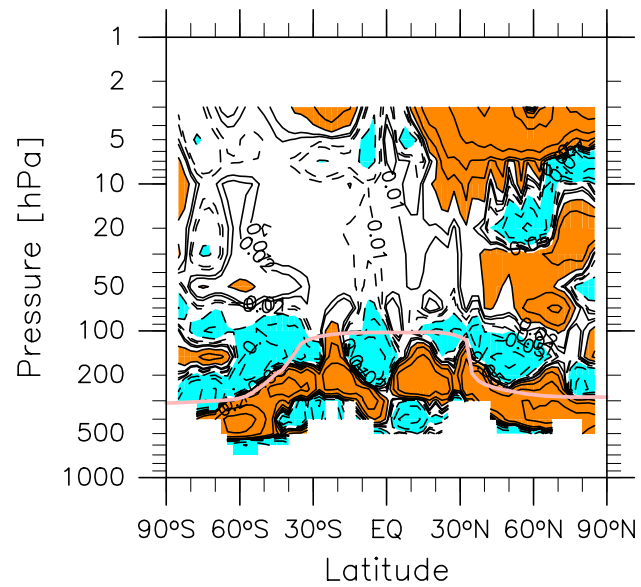


ERA–Int – REM

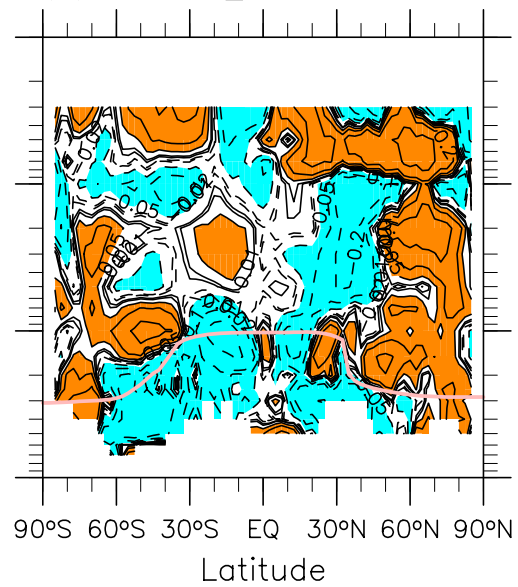
(b) $+fv^* - v^* \partial u / \partial y - \omega^* \partial u / \partial p$



(c) EPFD

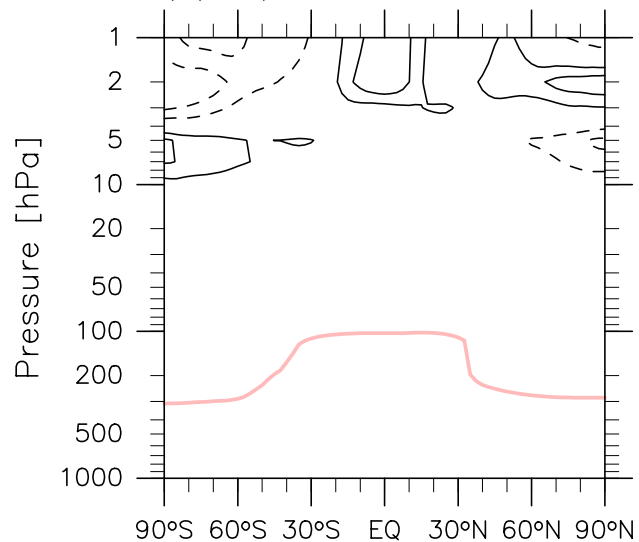


(d) Residual_u

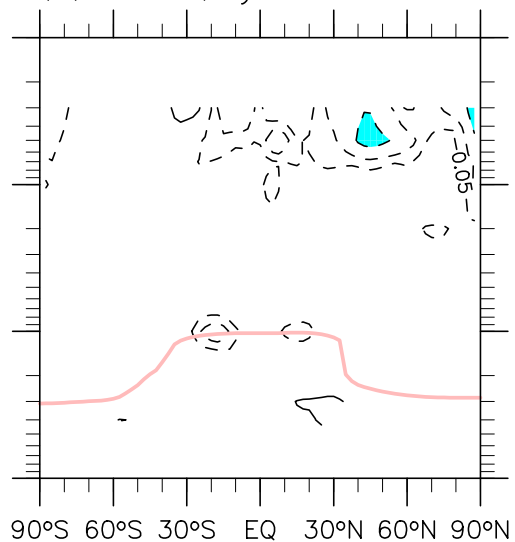


DJF (D80–F10)

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

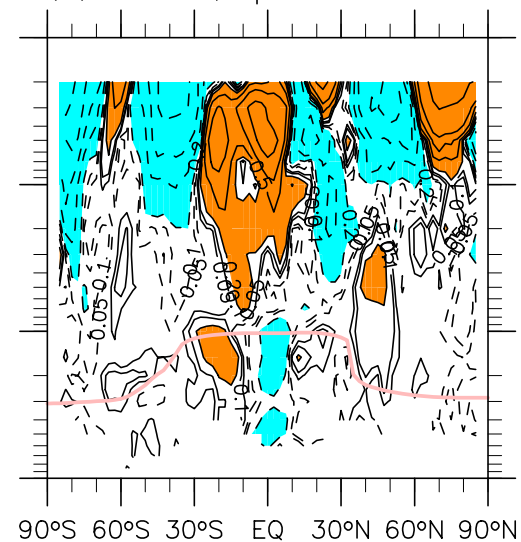


(b) $-v^* \partial\theta/\partial y$

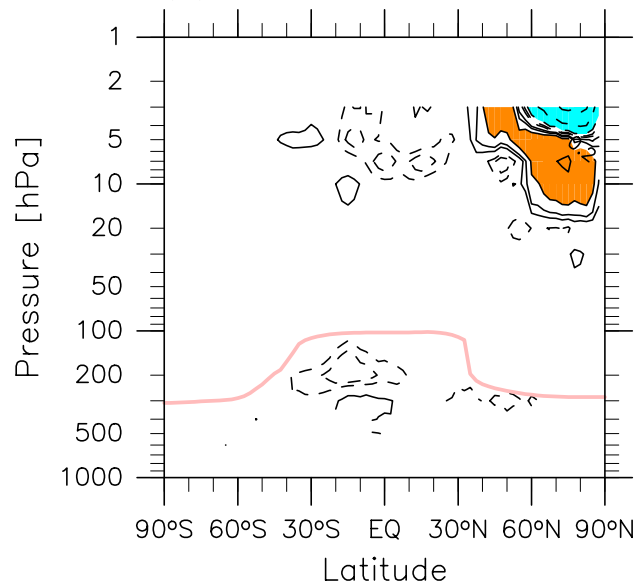


ERA–Int – REM

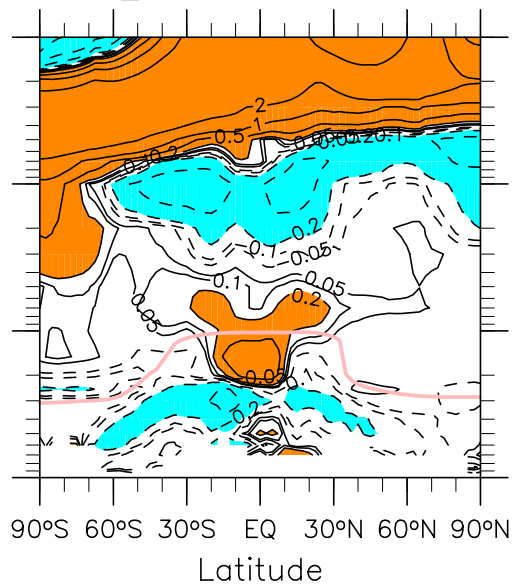
(c) $-\omega^* \partial\theta/\partial p$



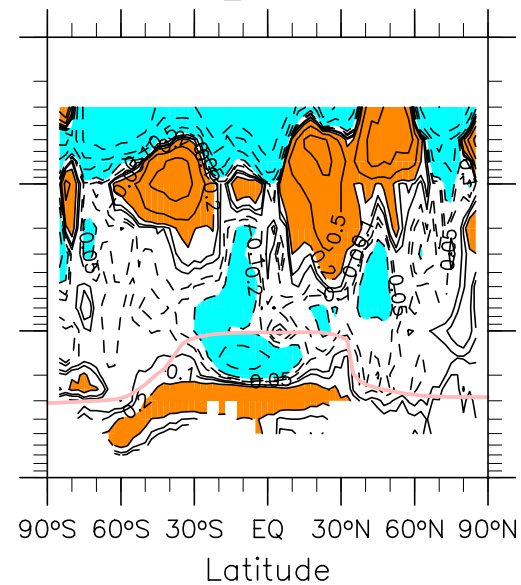
(d) TEM–thermo flux term



(e) Q_{total}

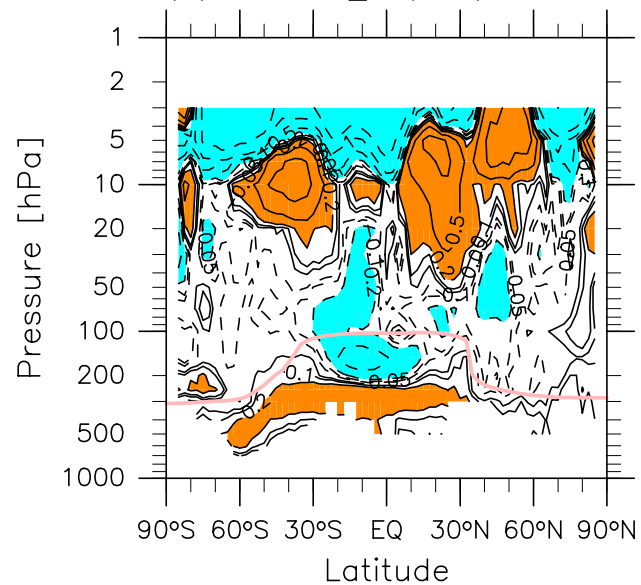


(f) Residual_θ

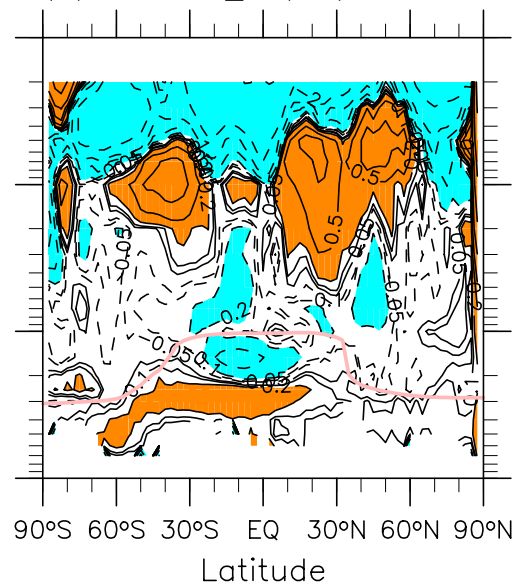


DJF (D80–F10)

(a) Residual_θ (TEM)



(b) Residual_θ (EM)



ERA–Int – REM

(c) difference (TEM minus EM)

