

JJA (81-10)

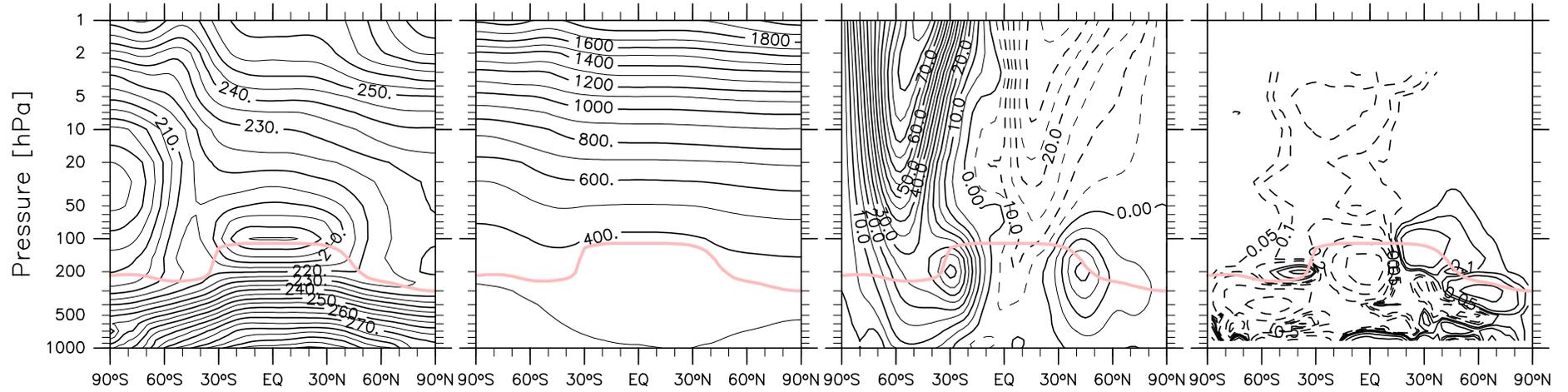
ERA-Int

(a) T [K]

(b)  $\theta$  [K]

(c) u [m/s]

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

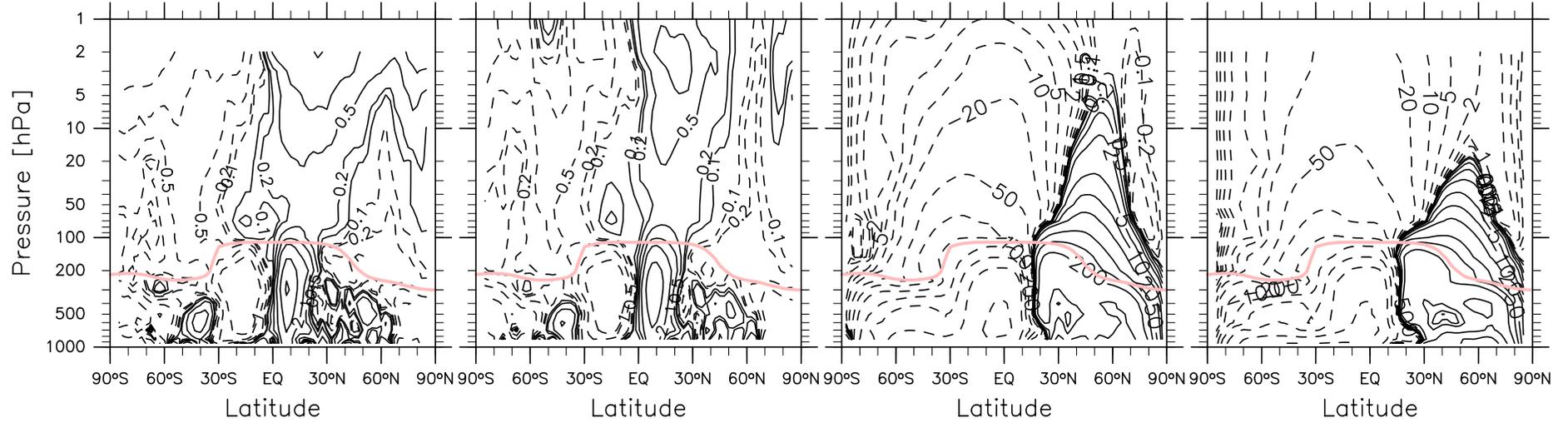


(e)  $w_{res}$  [mm/s]

(f)  $w_{res}$  from  $\psi_{vres}$  [mm/s]

(g)  $\psi_{vres}$  [kg/m/s]

(h)  $\psi_{wres}$  [kg/m/s]



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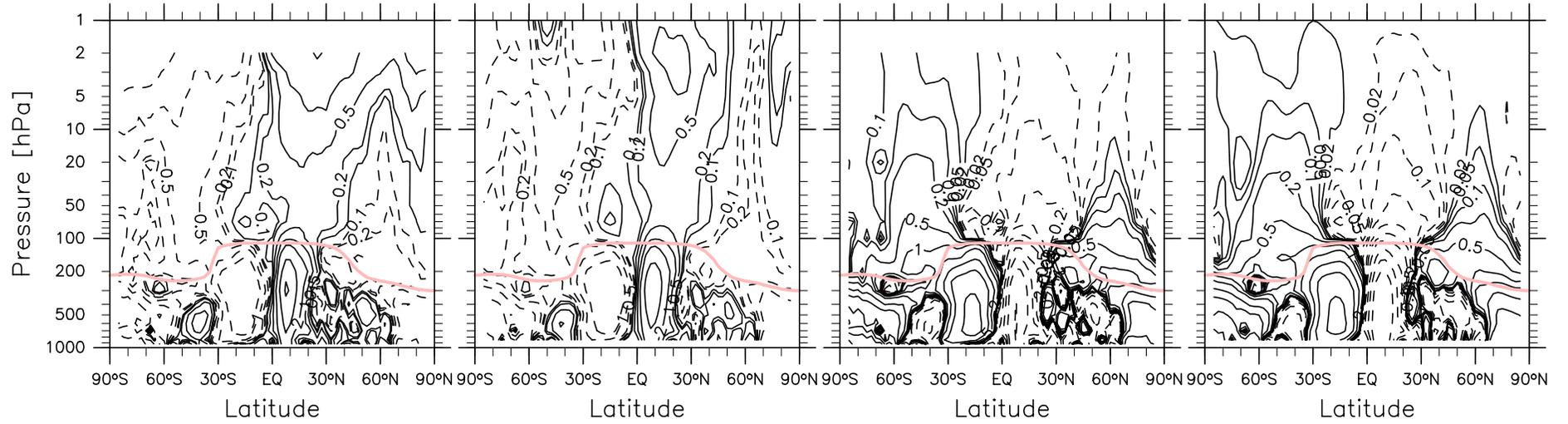
ERA-Int

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

(b)  $w_{res}$  from  $\psi_{vres}$  [mm/s]

(c)  $\omega_{res}$  [mPa/s]

(d)  $\omega_{res}$  from  $\psi_{vres}$  [mPa/s]



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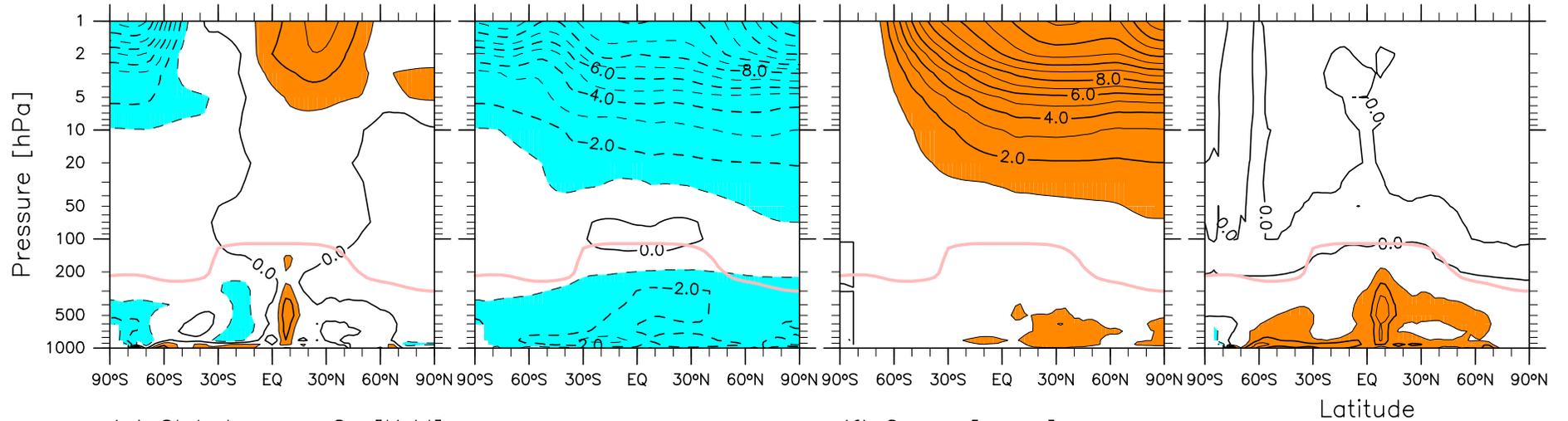
ERA-Int

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

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

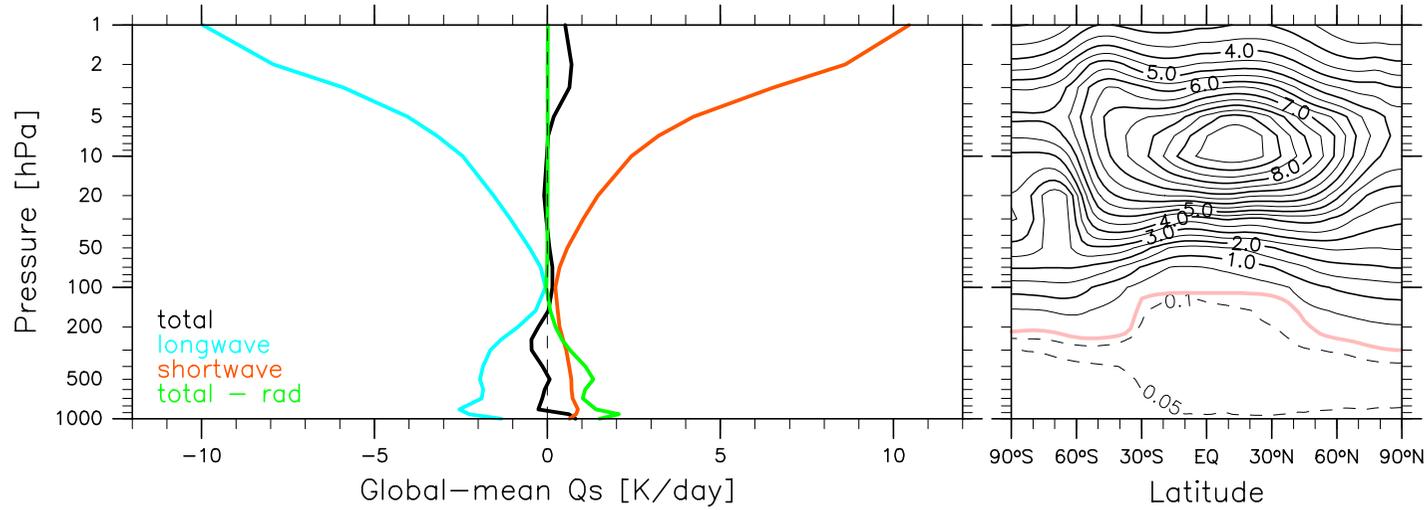
(c)  $Q_{shortwave}$  [K/d]

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



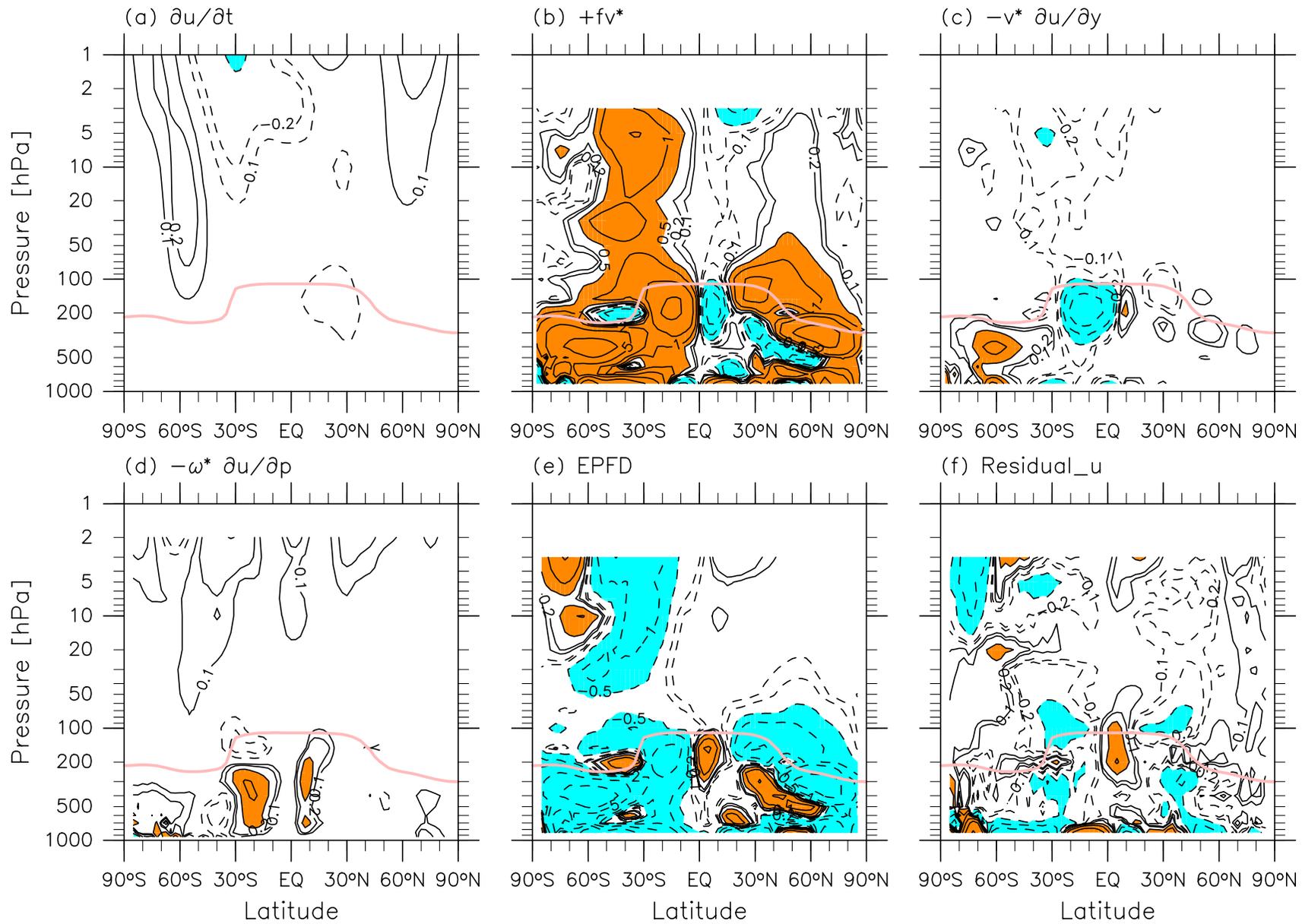
(e) Global-mean  $Q_s$  [K/d]

(f) Ozone [ppmv]



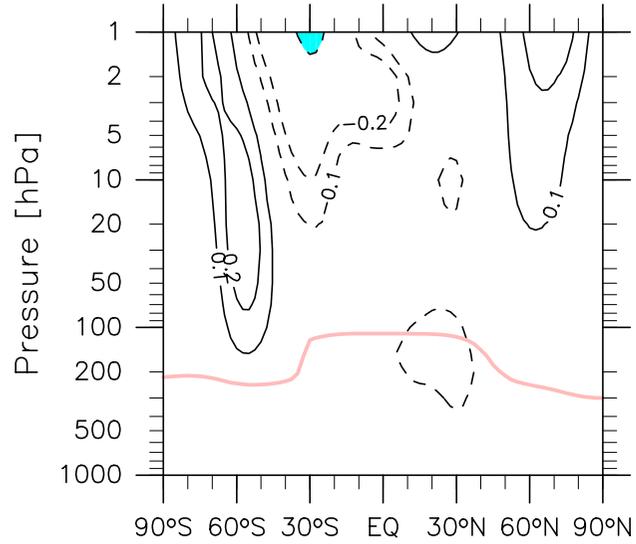
JJA (81-10)

ERA-Int



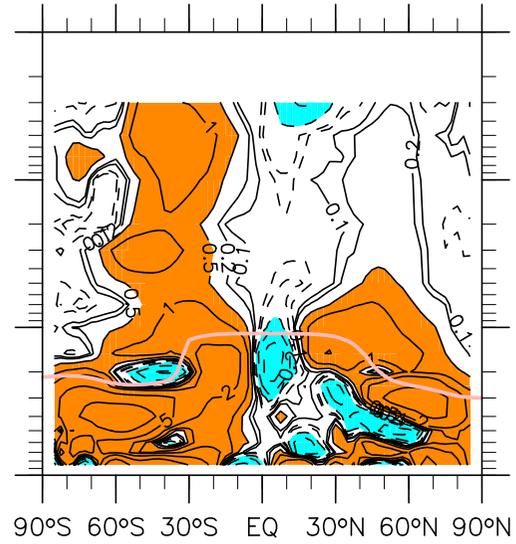
JJA (81-10)

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

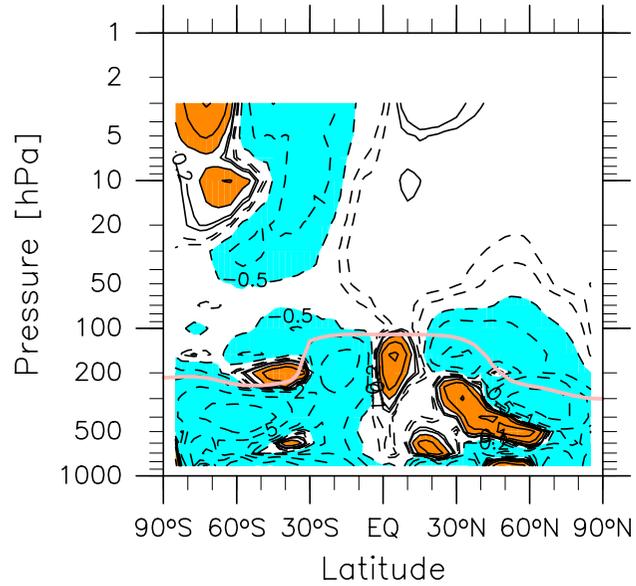


ERA-Int

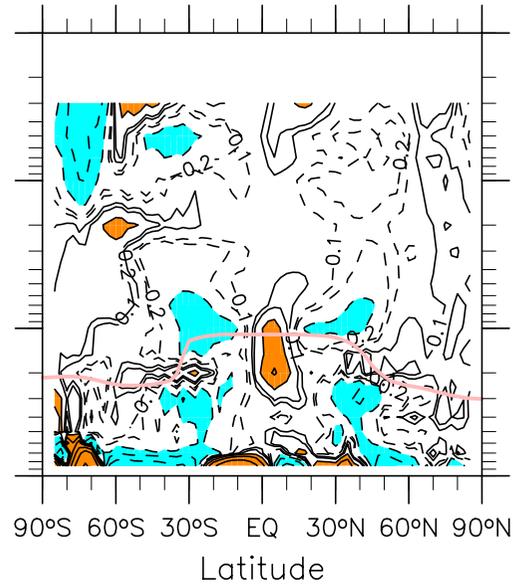
(b)  $+fv^* - v^* \partial u / \partial y - \omega^* \partial u / \partial p$



(c) EPFD



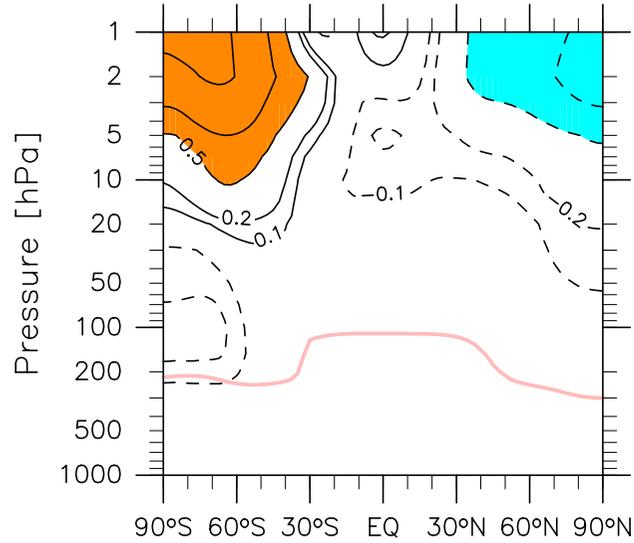
(d) Residual\_u



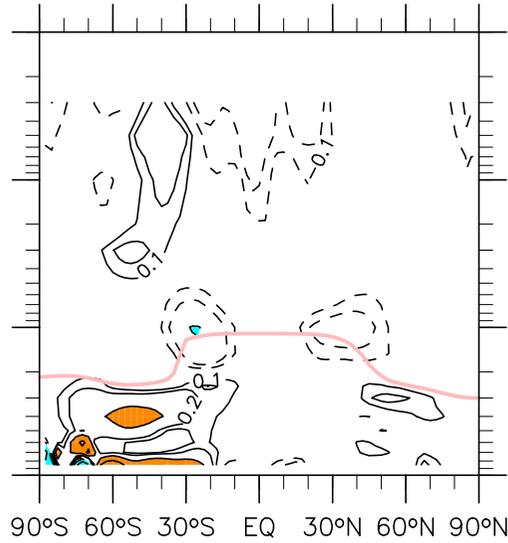
JJA (81-10)

ERA-Int

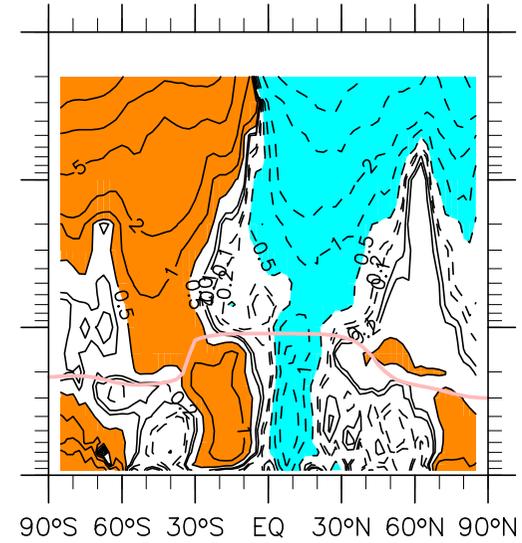
(a)  $\partial\theta/\partial t$



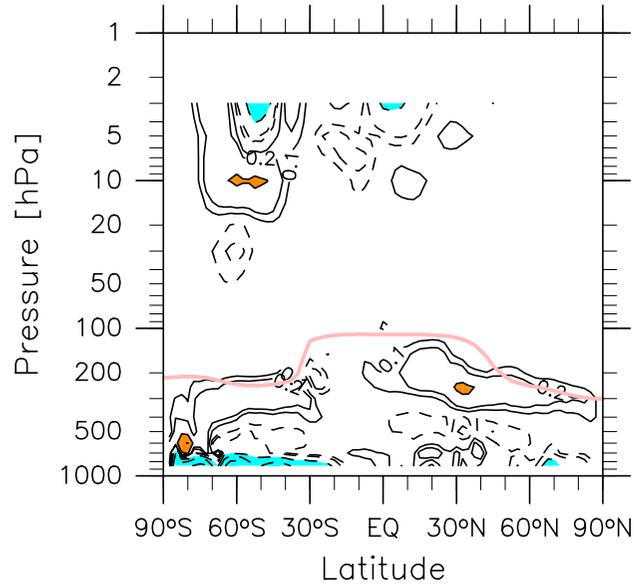
(b)  $-v^* \partial\theta/\partial y$



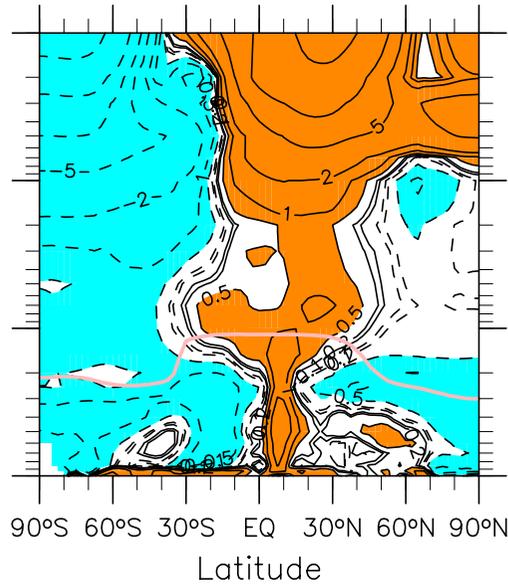
(c)  $-\omega^* \partial\theta/\partial p$



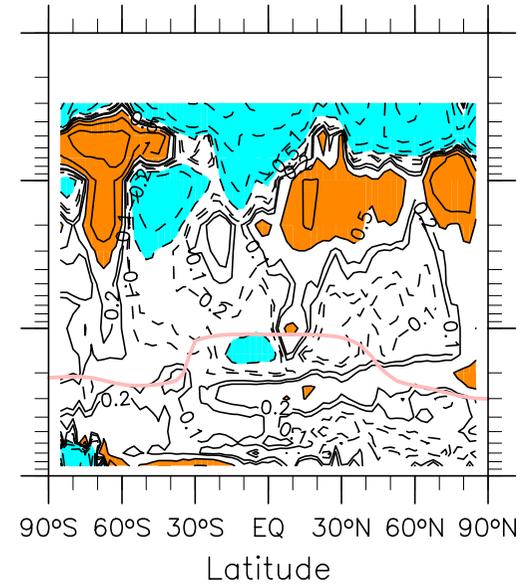
(d) TEM-thermo flux term



(e)  $Q_{total}$

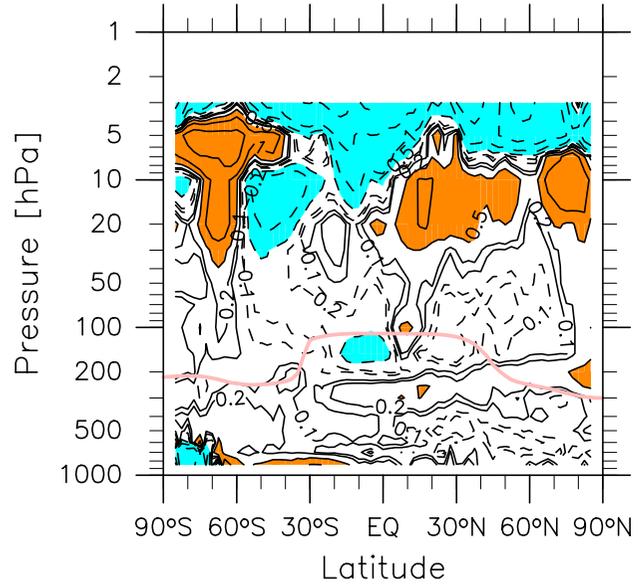


(f) Residual\_θ

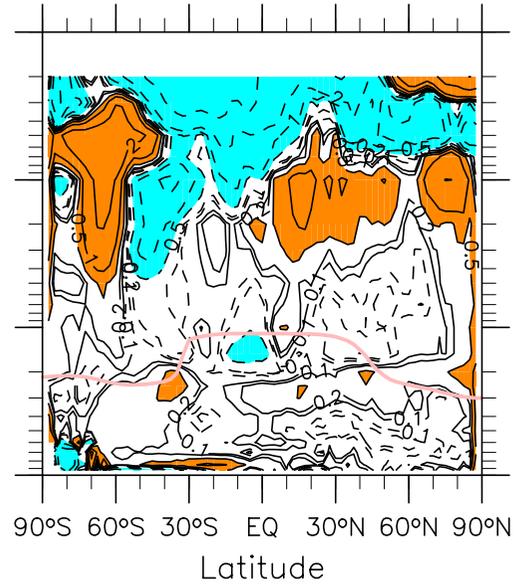


JJA (81–10)

(a) Residual\_θ (TEM)



(b) Residual\_θ (EM)



ERA-Int

(c) difference (TEM minus EM)

