

SON (81–10)

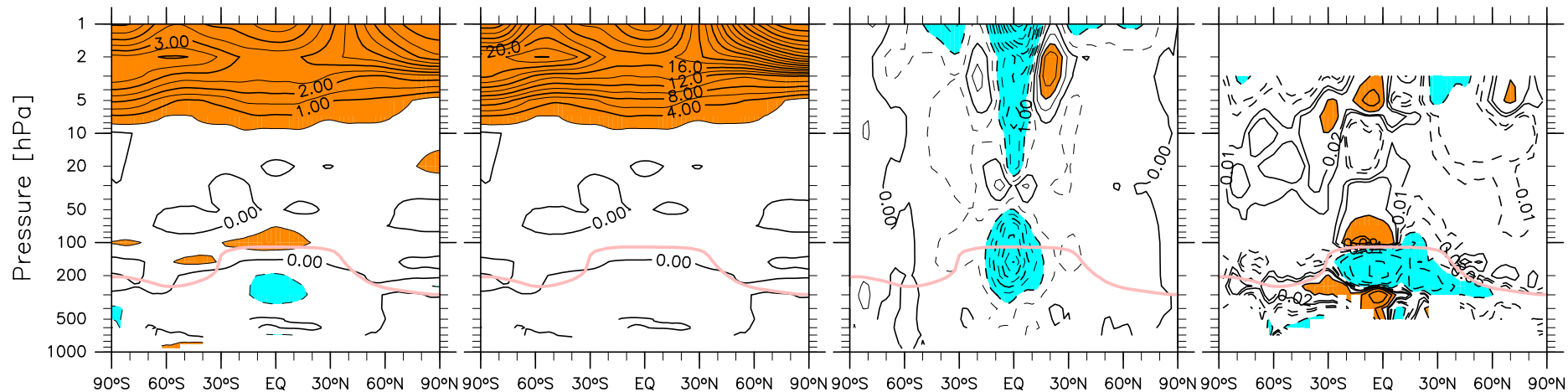
CFSR — REM

(a) T [K]

(b) Θ [K]

(c) u [m/s]

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

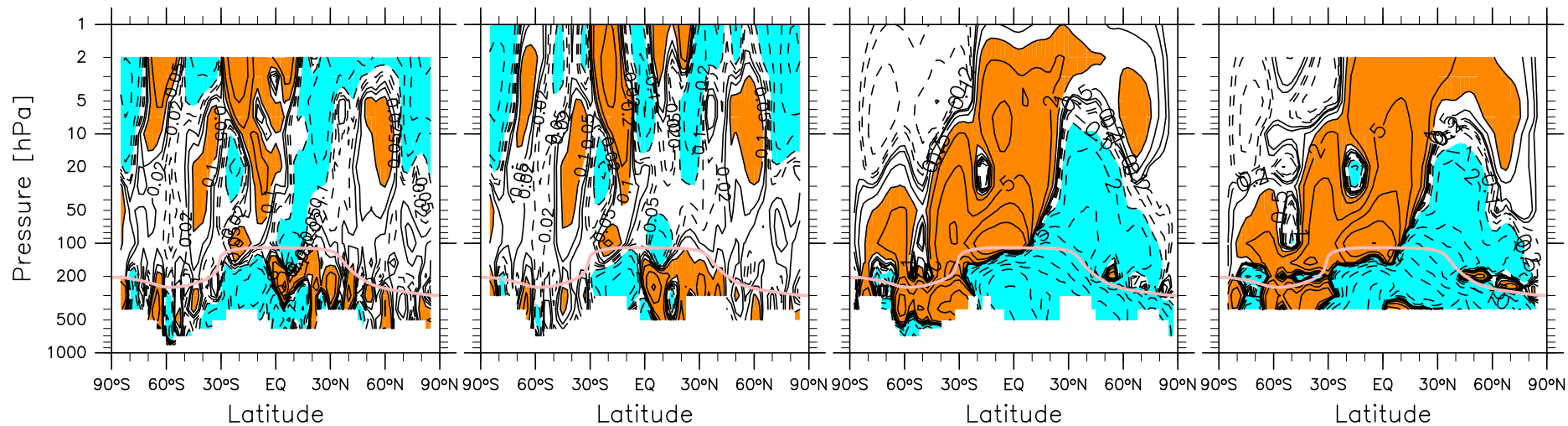


(e) w_{res} [mm/s]

(f) w_{res} from Ψ_{vres} [mm/s]

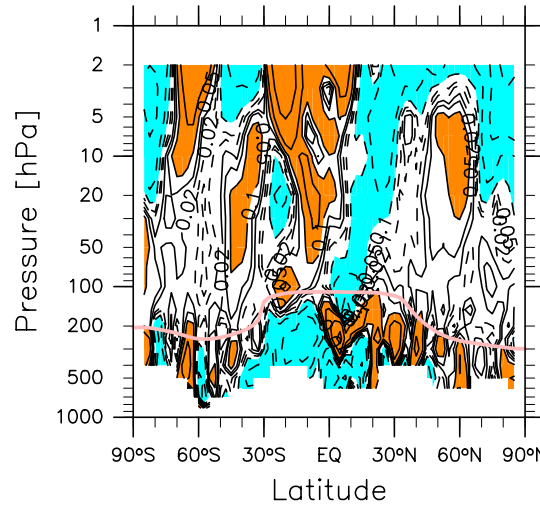
(g) Ψ_{vres} [kg/m/s]

(h) Ψ_{wres} [kg/m/s]

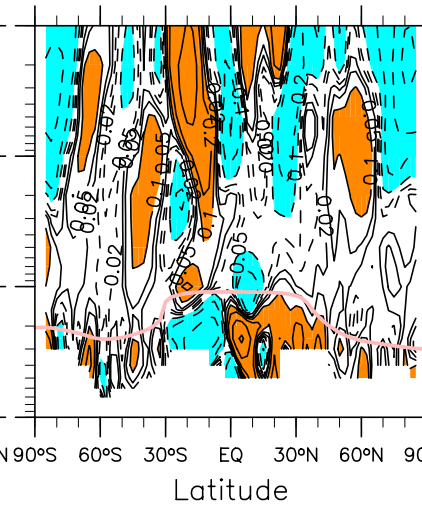


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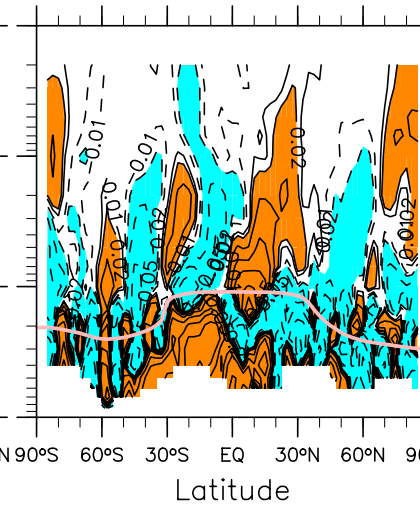
(a) w_{res} [mm/s]



(b) w_{res} from ψ_{vres} [mm/s]

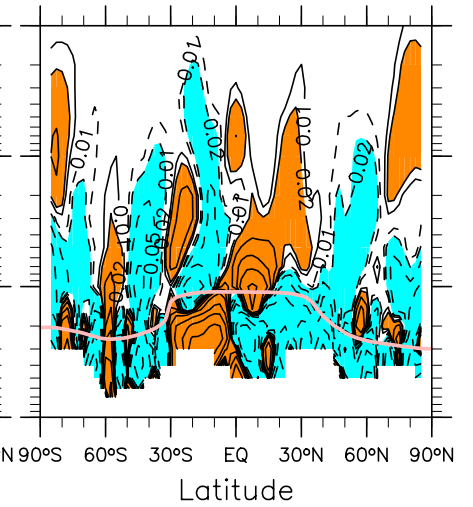


(c) ω_{res} [mPa/s]



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(d) ω_{res} from ψ_{vres} [mPa/s]



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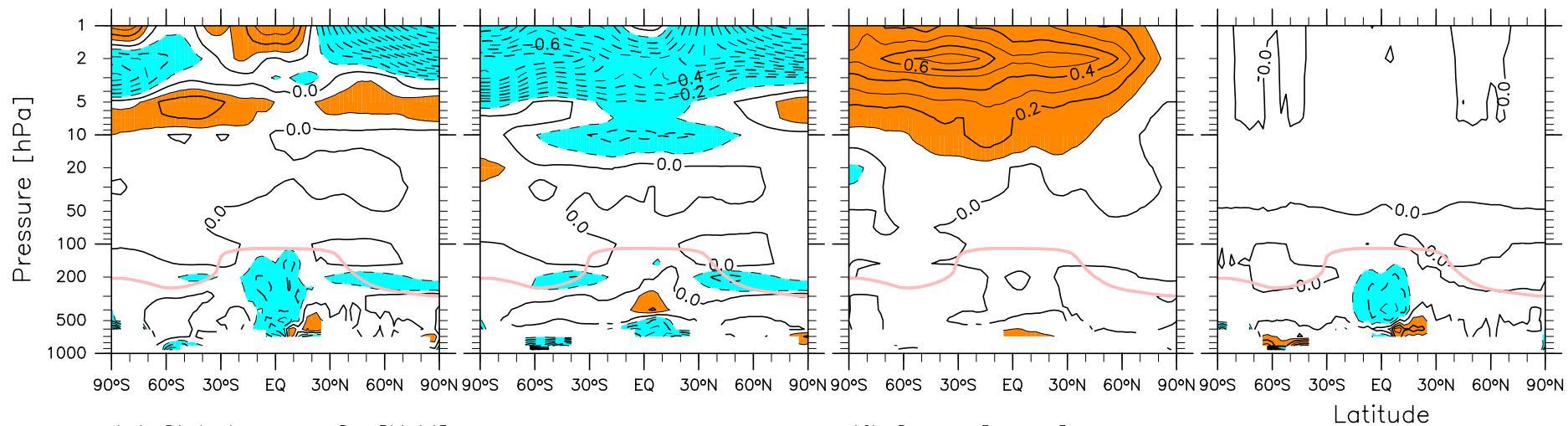
CFSR — REM

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

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

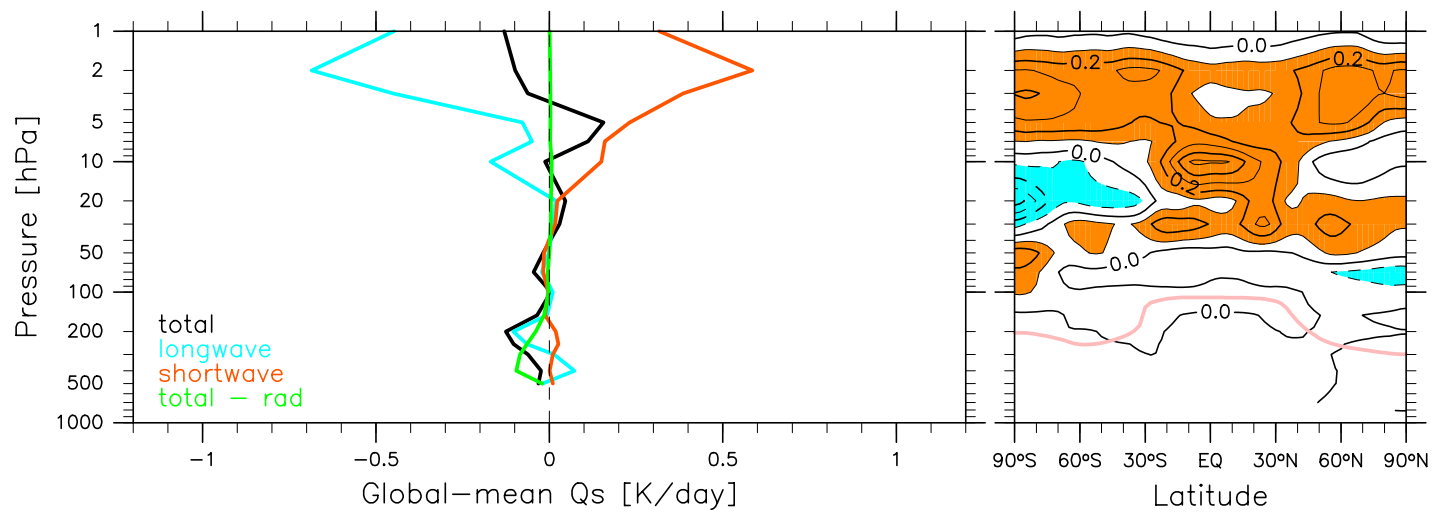
(c) $Q_{\text{shortwave}}$ [K/d]

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



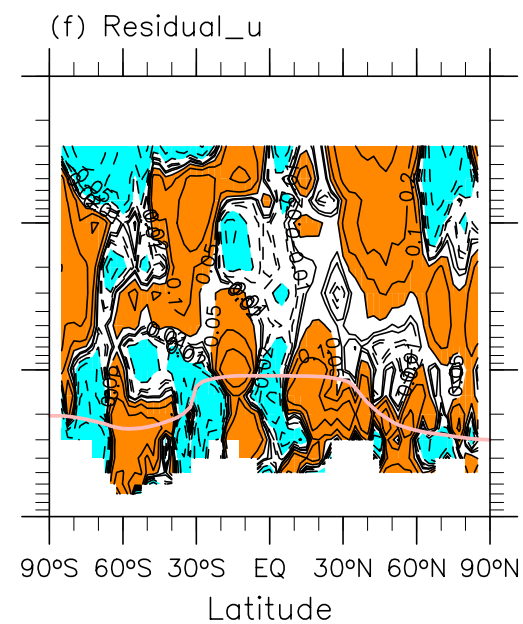
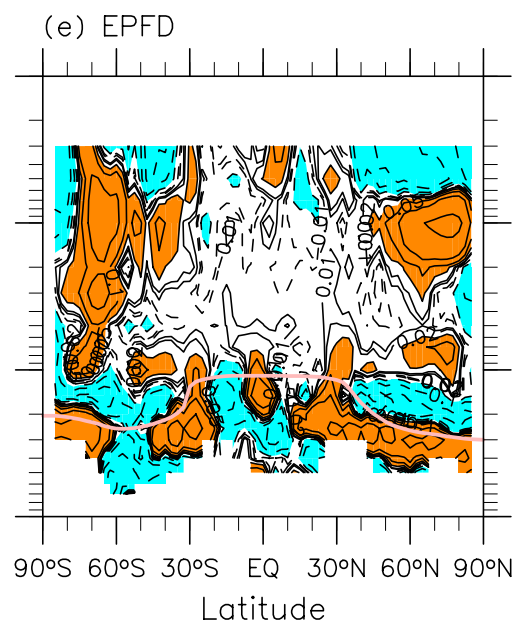
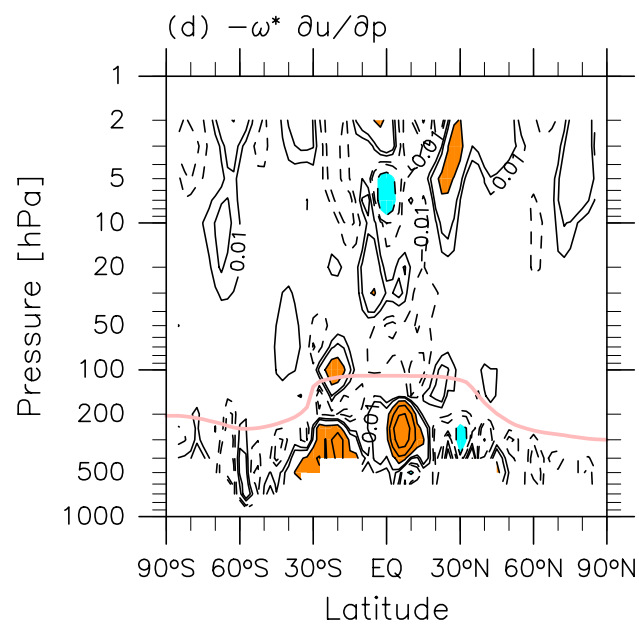
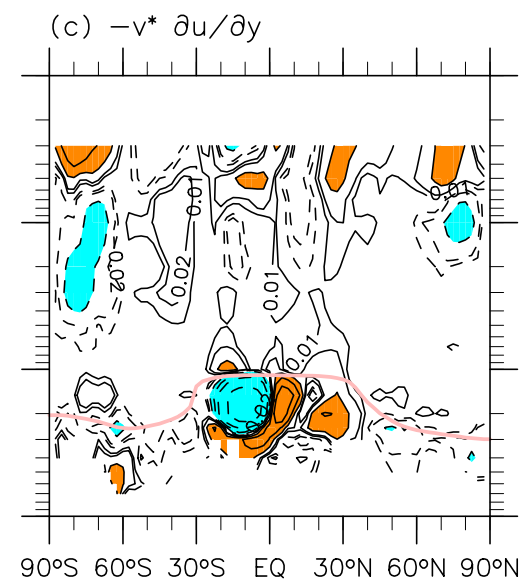
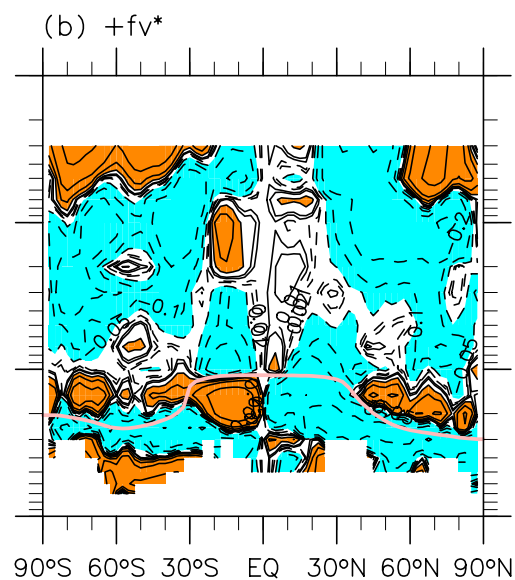
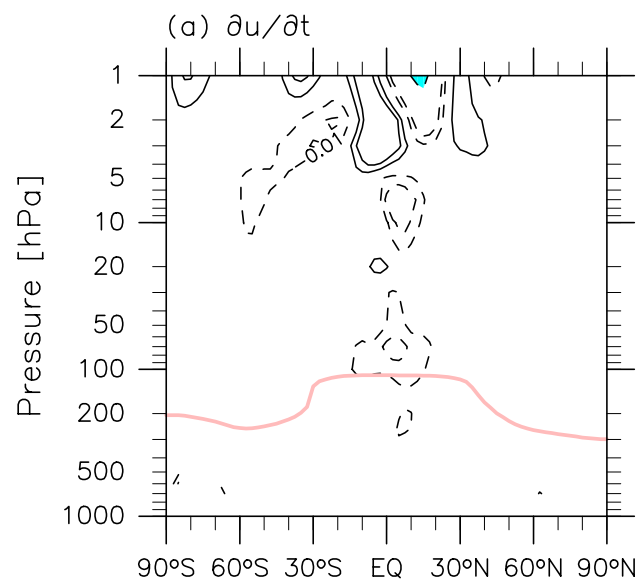
(e) Global-mean Q_s [K/d]

(f) Ozone [ppmv]



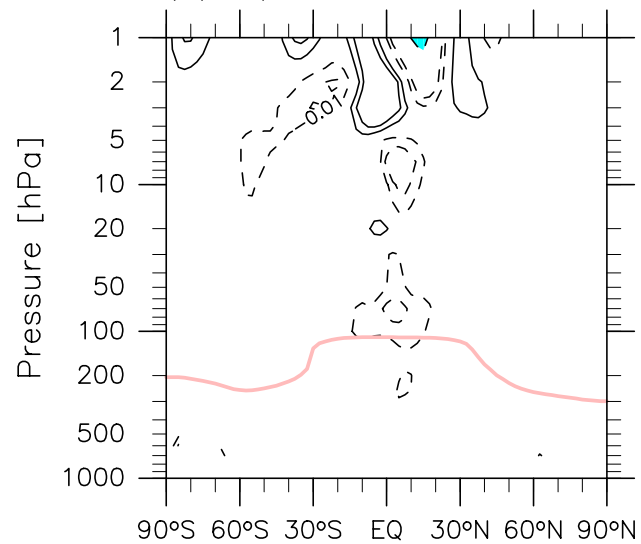
SON (81-10)

CFSR - REM



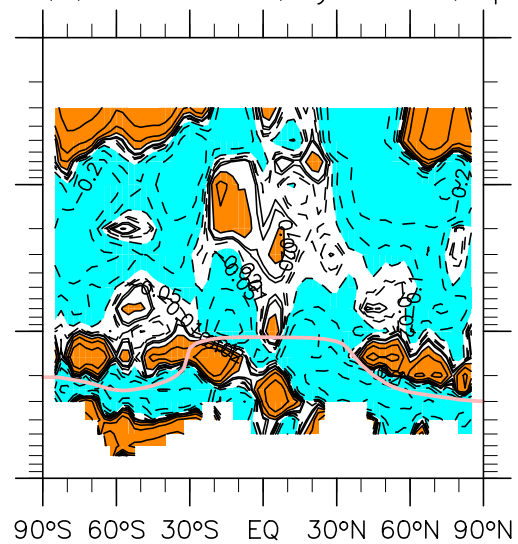
SON (81–10)

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

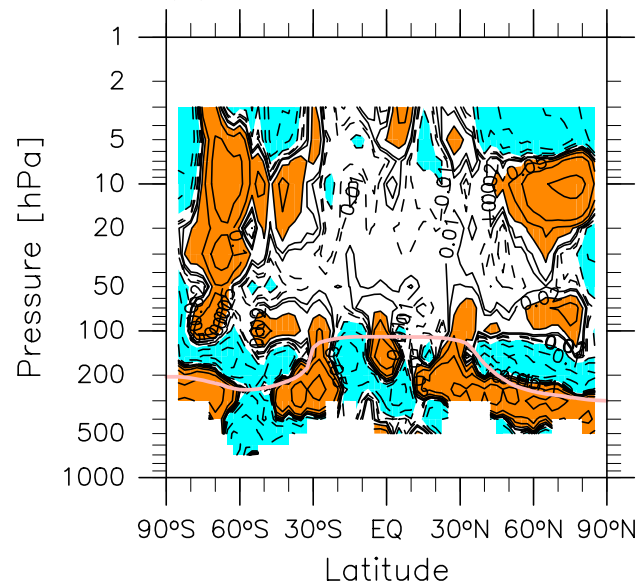


CFSR – REM

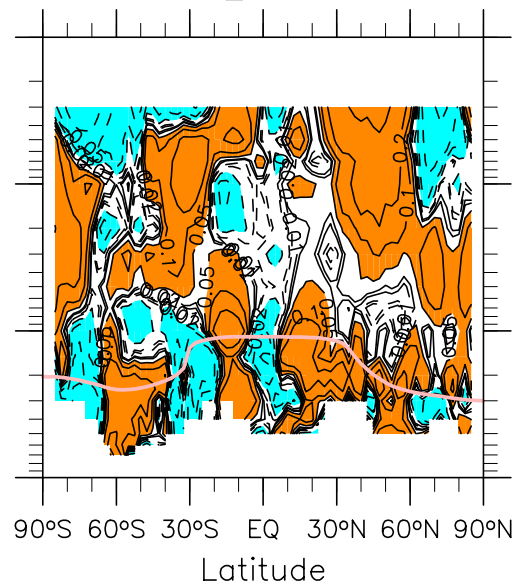
(b) $+fv^* - v^* \partial u / \partial y - \omega^* \partial u / \partial p$



(c) EPFD

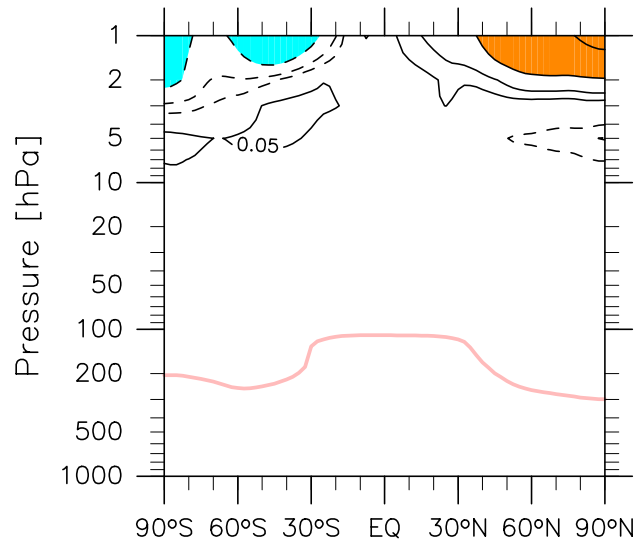


(d) Residual_u

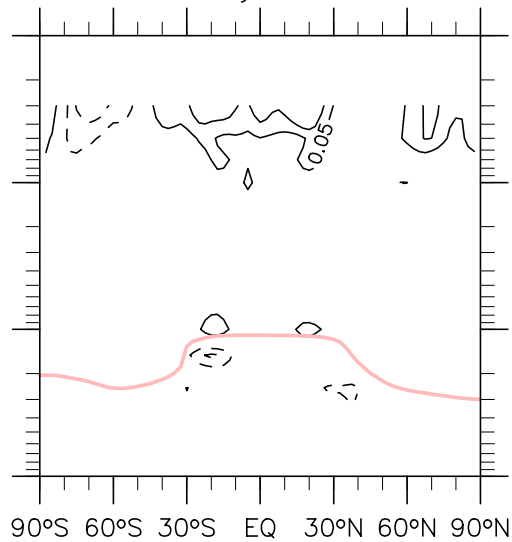


SON (81–10)

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

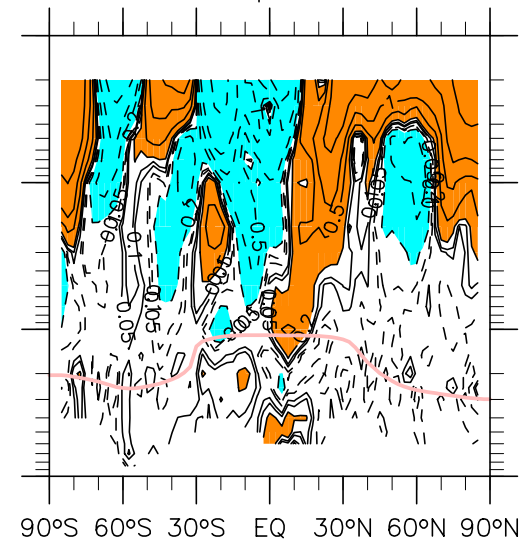


(b) $-\mathbf{v}^* \partial\theta/\partial y$

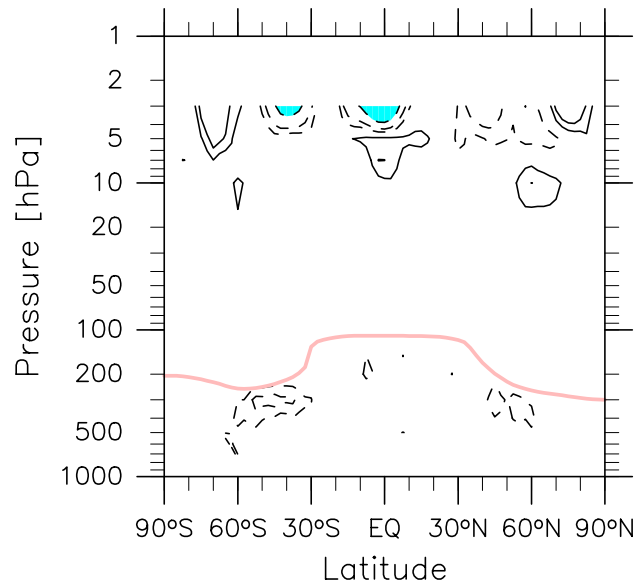


CFSR — REM

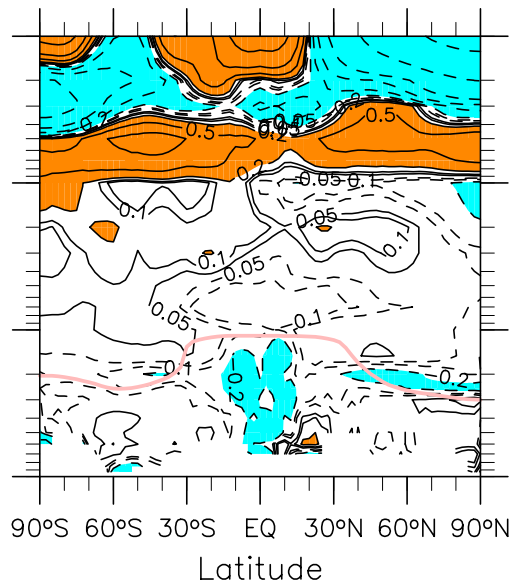
(c) $-\omega^* \partial\theta/\partial p$



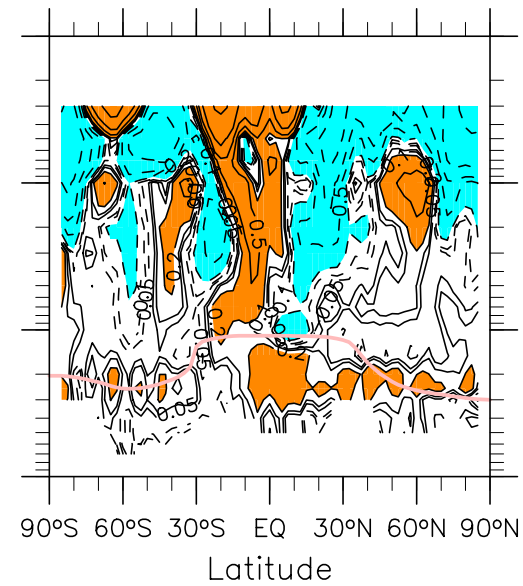
(d) TEM—thermo flux term



(e) Q_{total}

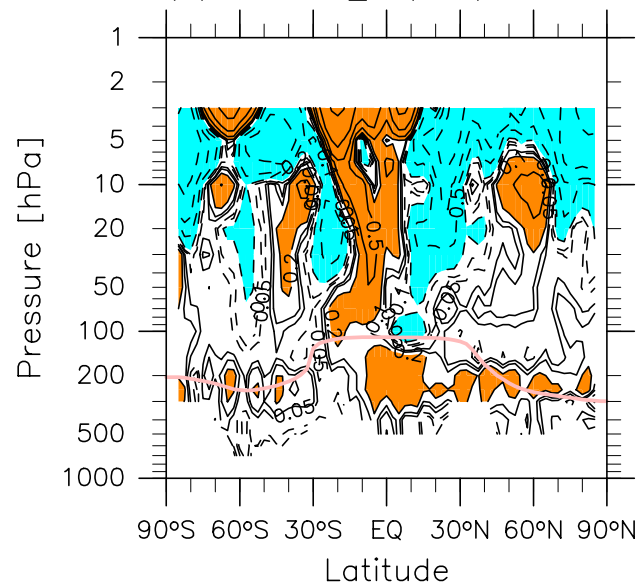


(f) Residual_θ

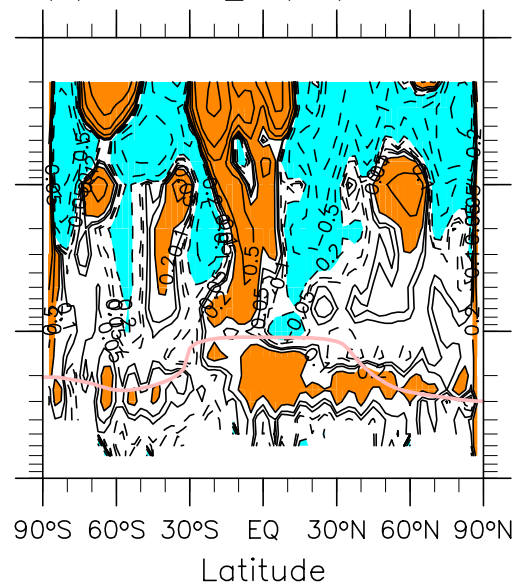


SON (81–10)

(a) Residual_ θ (TEM)



(b) Residual_ θ (EM)



CFSR — REM

(c) difference (TEM minus EM)

