SON (81–10)   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]
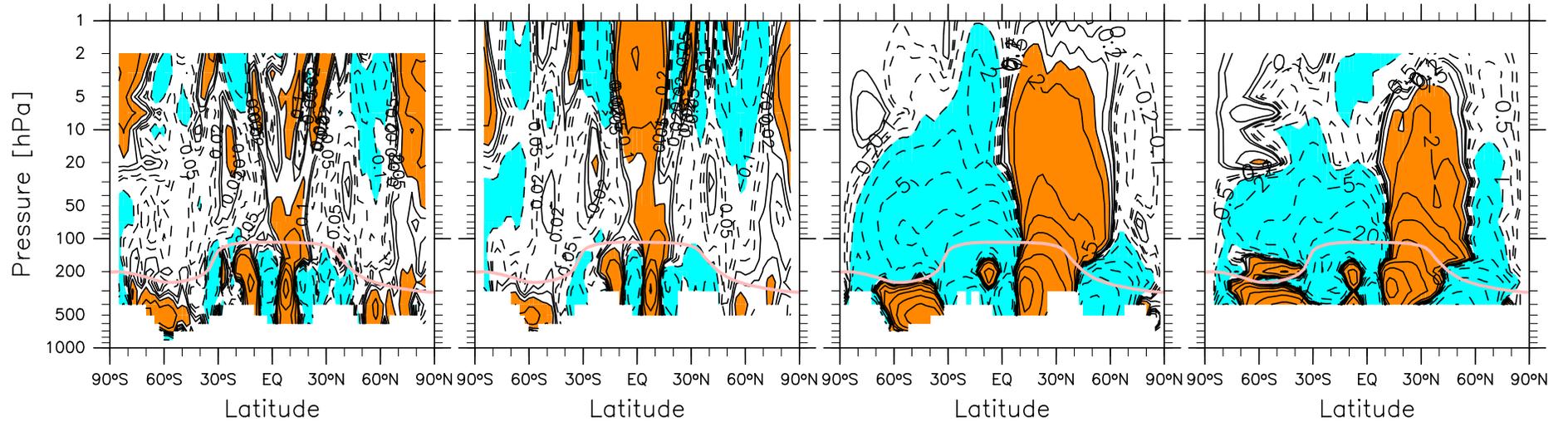
SON (81–10)   JRA–55 – REM

(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]
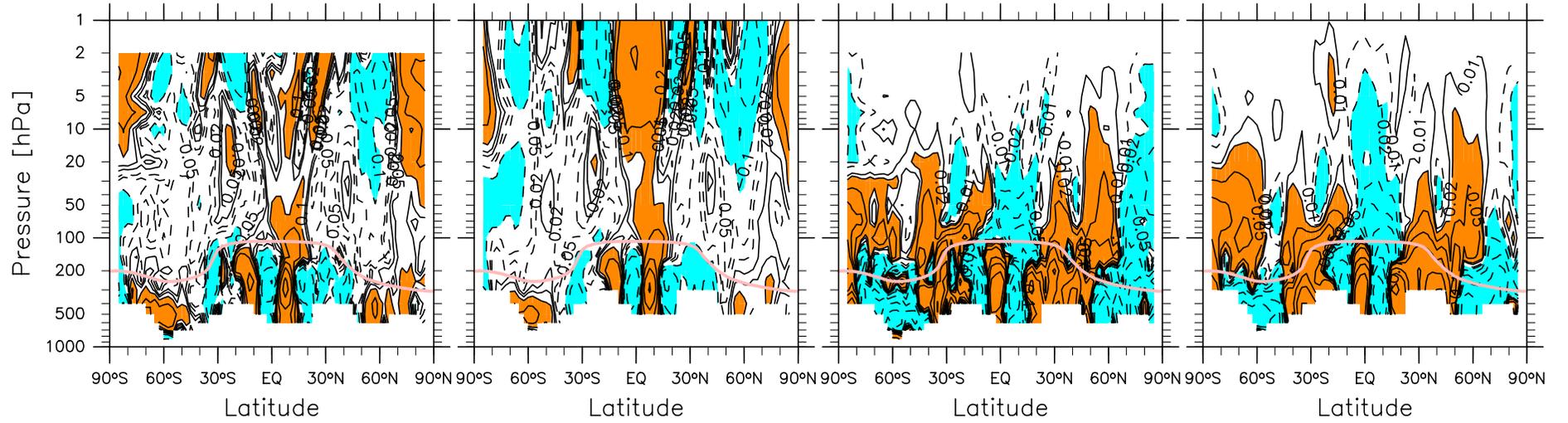
SON (81-10)   JRA-55 − REM

(a) Q_total [K/d]   (b) Q_longwave [K/d]   (c) Q_shortwave [K/d]   (d) Q_total − Q_rad [K/d]
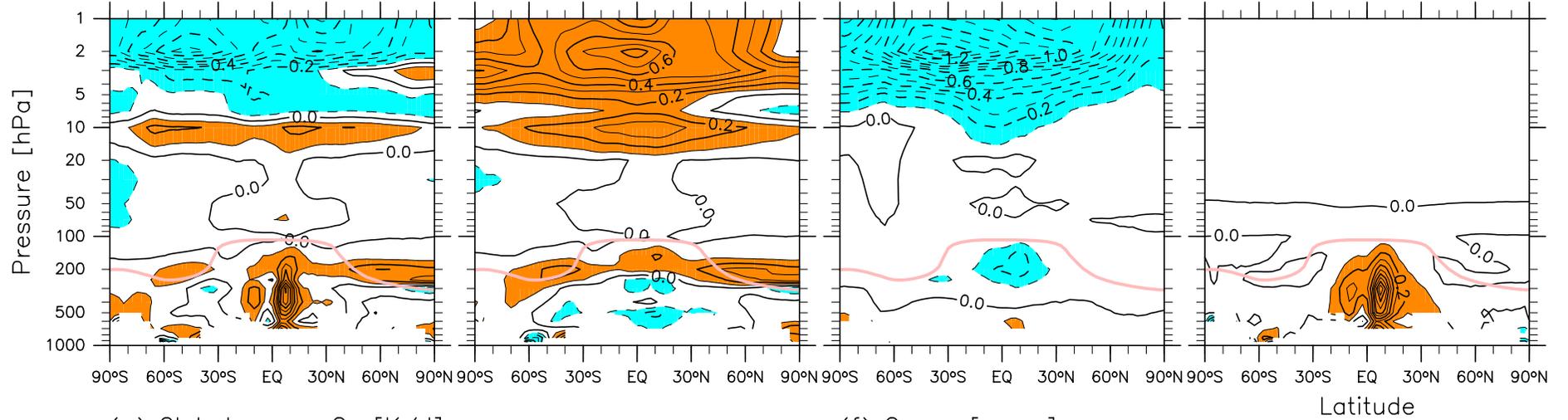
(e) Global−mean Qs [K/d]   (f) Ozone [ppmv]

total
longwave
shortwave
total − rad

Global−mean Qs [K/day]

Latitude

SON (81−10)   JRA−55 − REM

(a) ∂u/∂t   (b) +fv*   (c) −v* ∂u/∂y
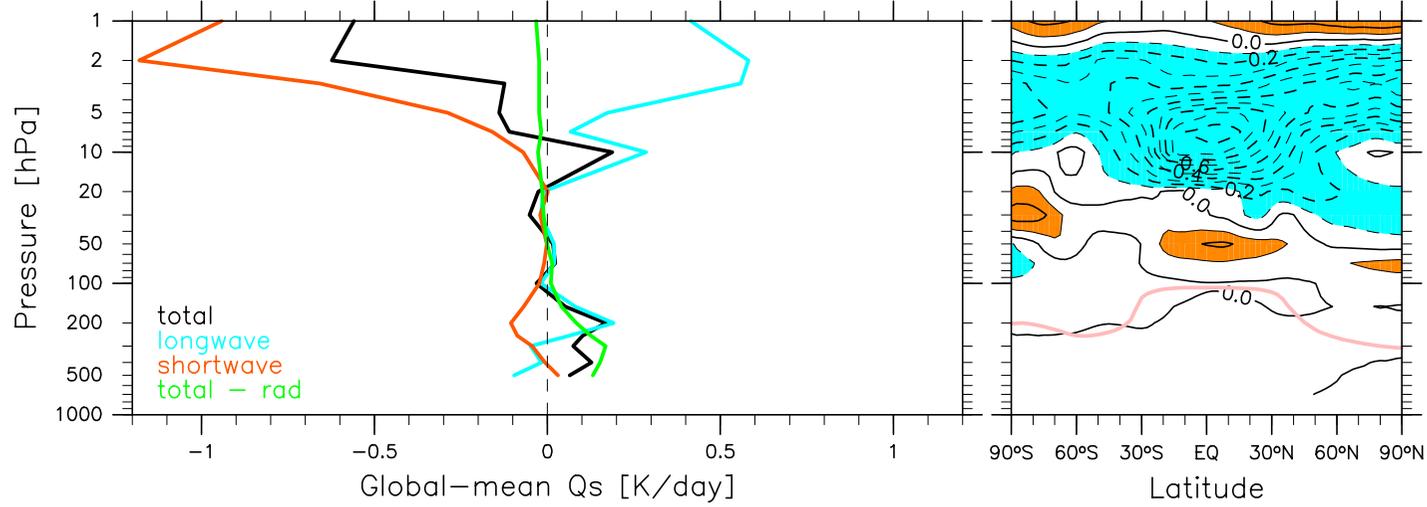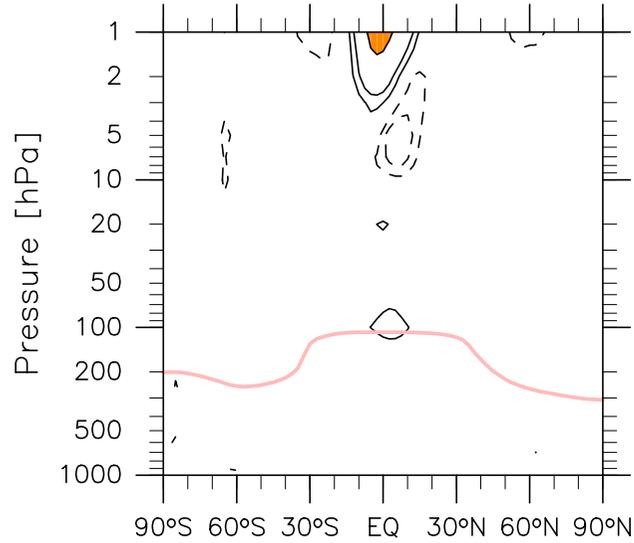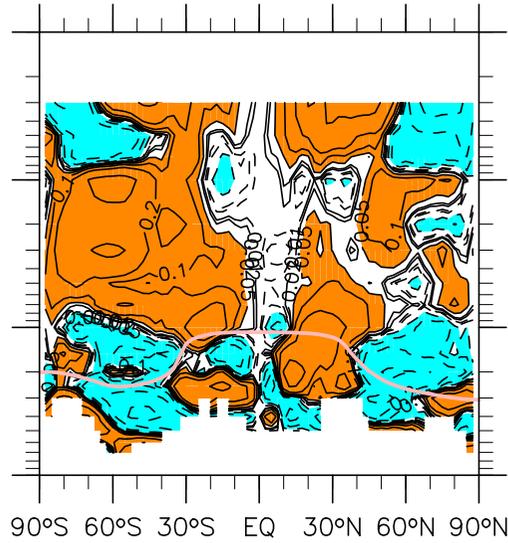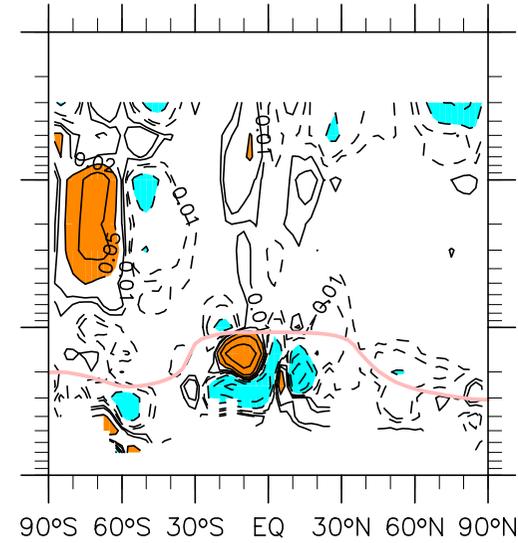
(d) −ω* ∂u/∂p   (e) EPFD   (f) Residual_u

SON (81−10)   JRA−55 − REM

(a) $\partial u / \partial t$
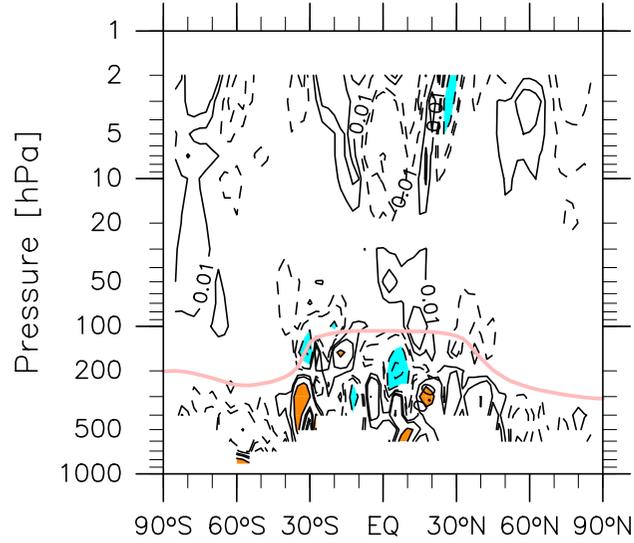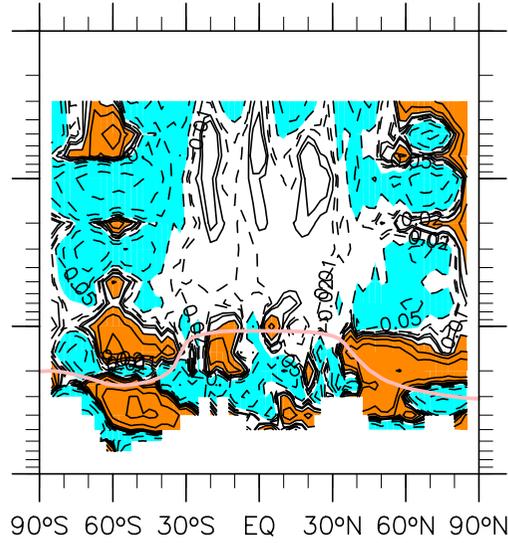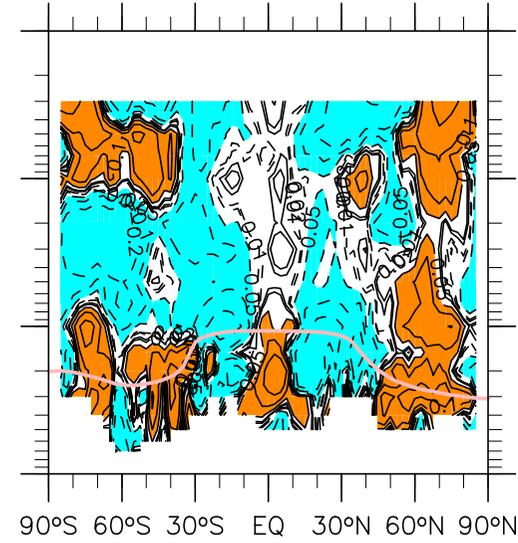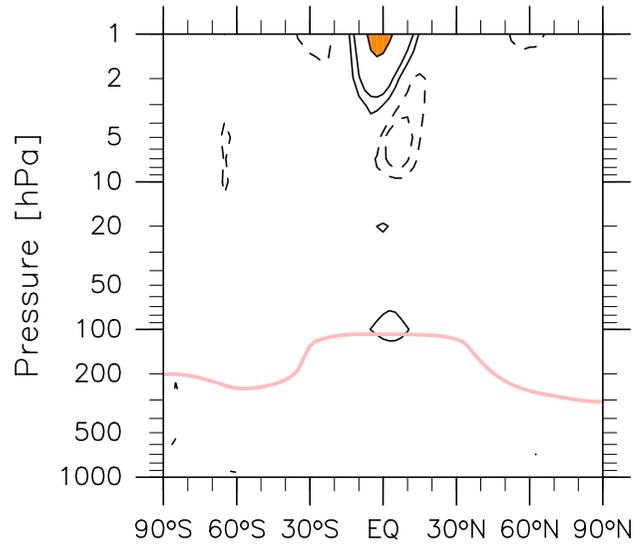
(b) $+fv^* -v^* \partial u / \partial y -\omega^* \partial u / \partial p$
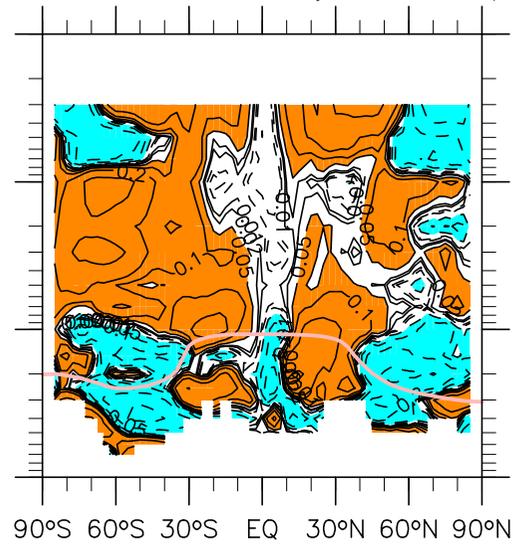
(c) EPFD
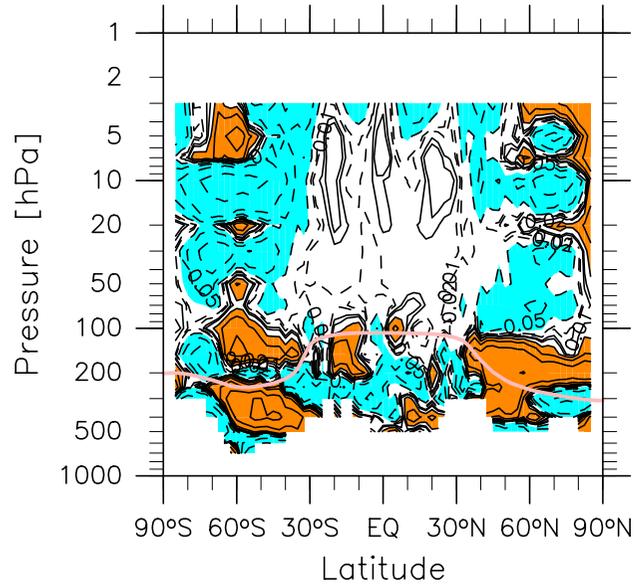
(d) Residual_u

SON (81–10)   JRA–55 − REM

(a) ∂Θ/∂t

(b) −v* ∂Θ/∂y
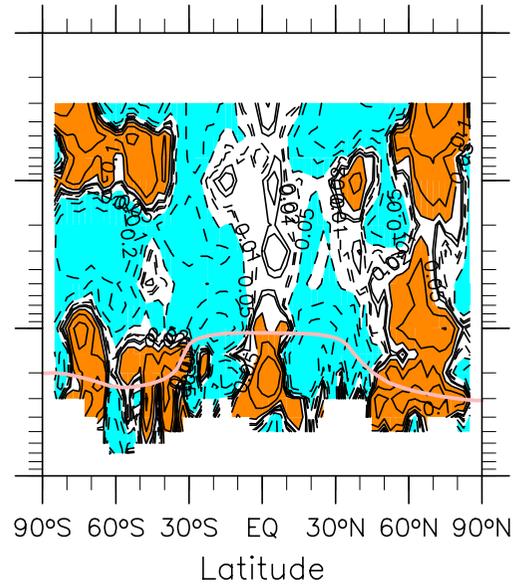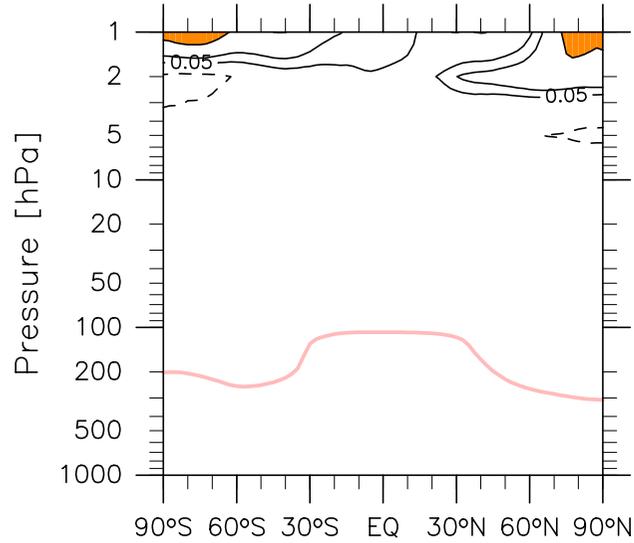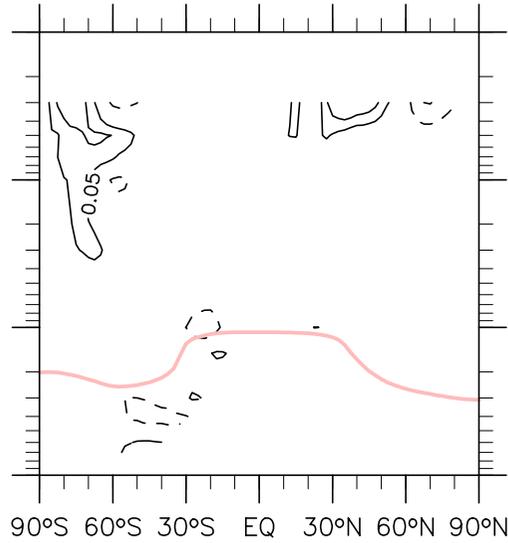
(c) −ω* ∂Θ/∂p
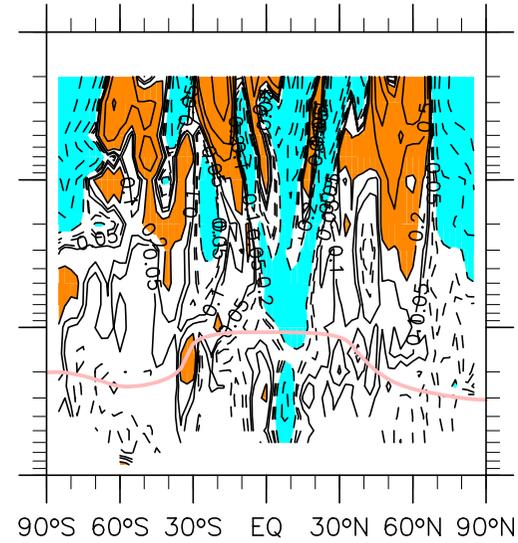
(d) TEM−thermo flux term
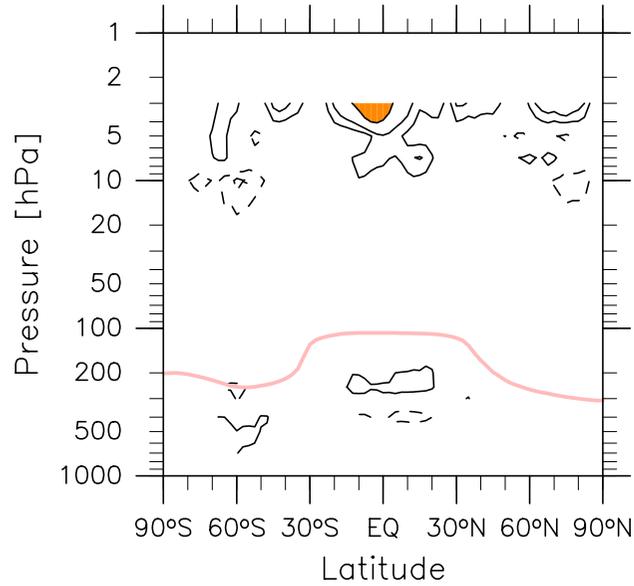
(e) Q_total
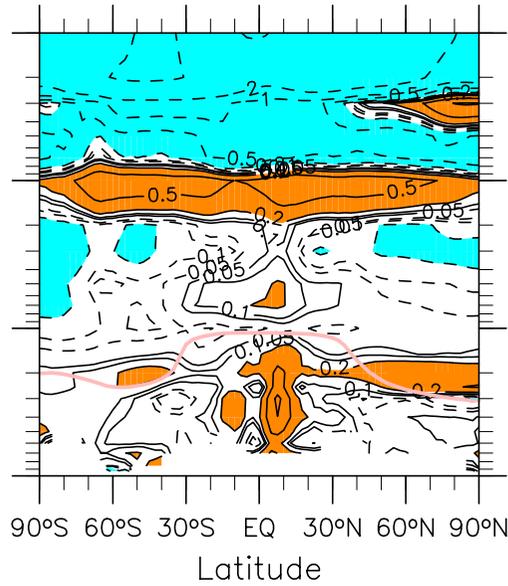
(f) Residual_Θ
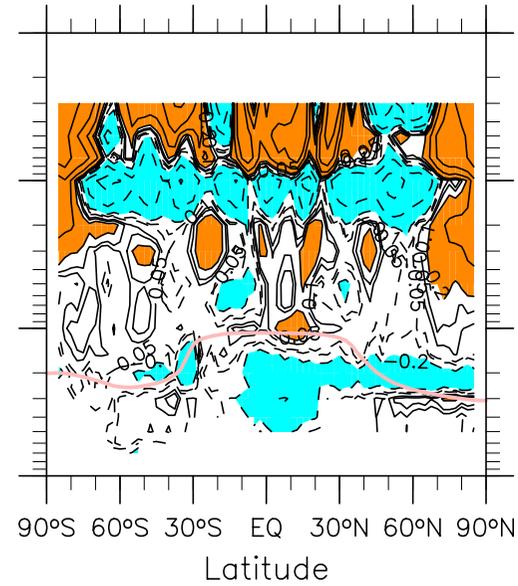
SON (81−10)   JRA−55 − REM
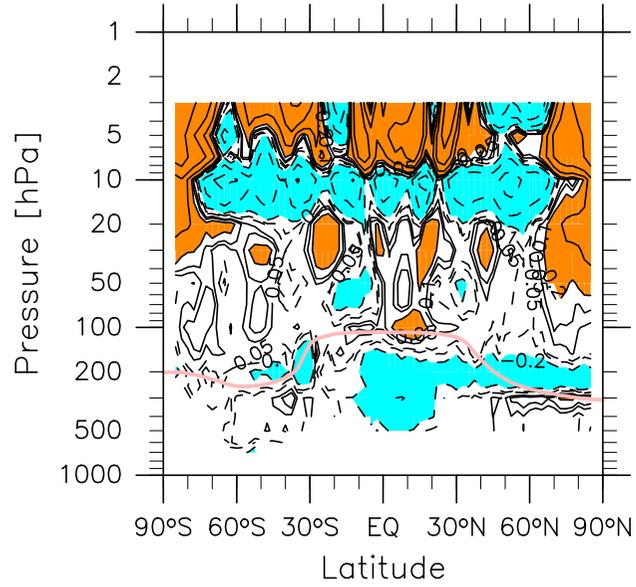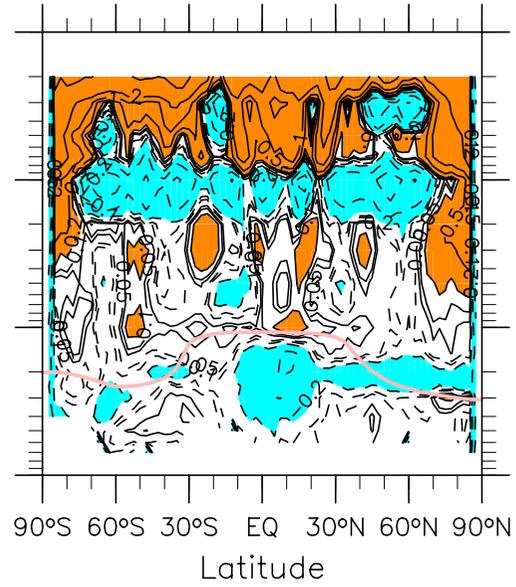
(a) Residual_Θ (TEM)   (b) Residual_Θ (EM)   (c) difference (TEM minus EM)