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Convective sources of trajectories traversing the tropical tropopause layer

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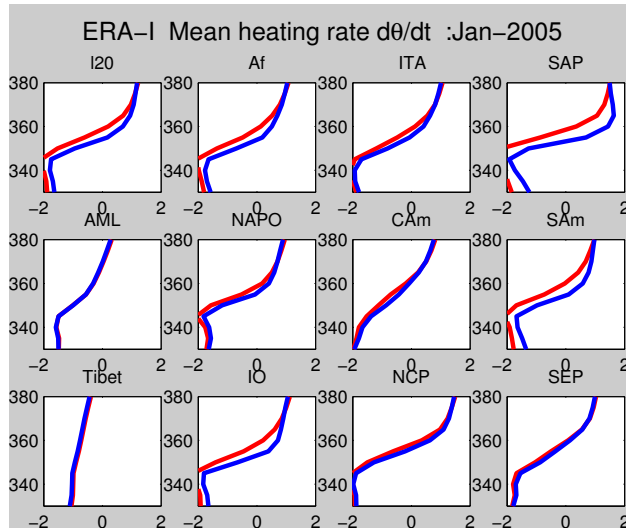


Figure 1. Mean radiative heating rates profiles, as a function of potential temperature, for ERA-Interim in January 2005, in $\text{K}^{-1}.\text{day}^{-1}$. The red curves correspond to the clear sky radiative heating rates, while blue curves correspond to the all sky radiative heating rates. Curves are plotted for each region defined on Fig. 1. The region "I20" represents the 20°S – 20°N band.

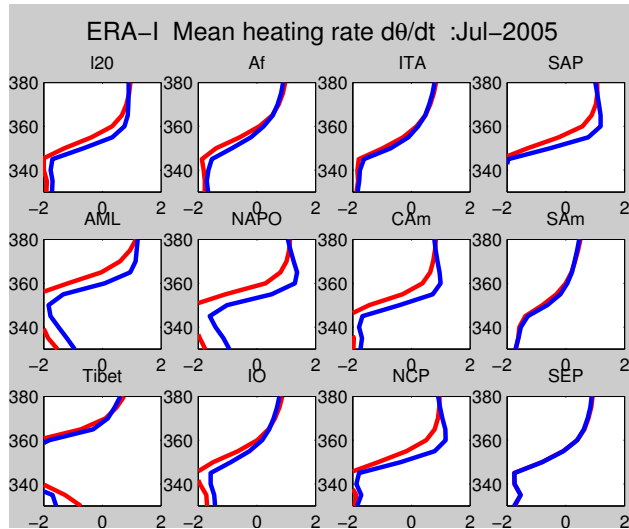


Figure 2. Same as Fig. 1 but for ERA-Interim in July 2005.

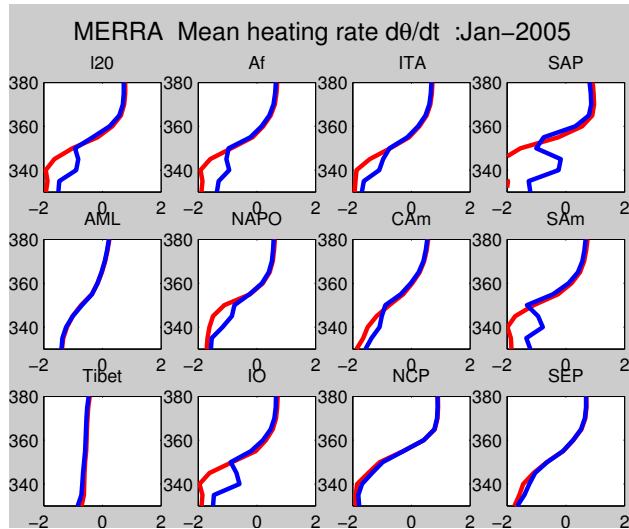


Figure 3. Same as Fig. 1 but for MERRA in January 2005.

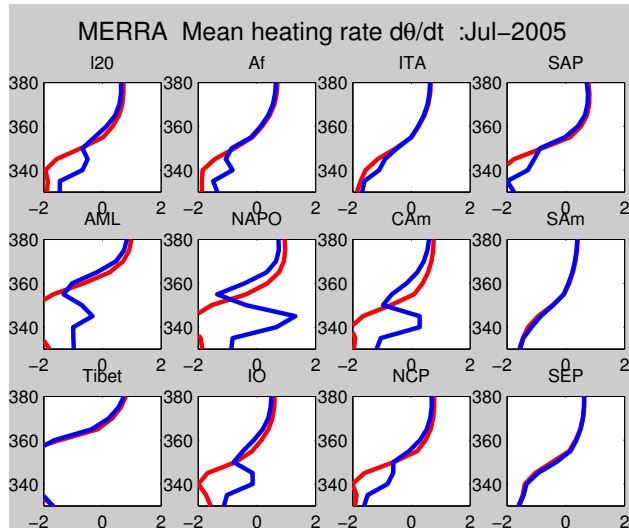


Figure 4. Same as Fig. 1 but for MERRA in July 2005.