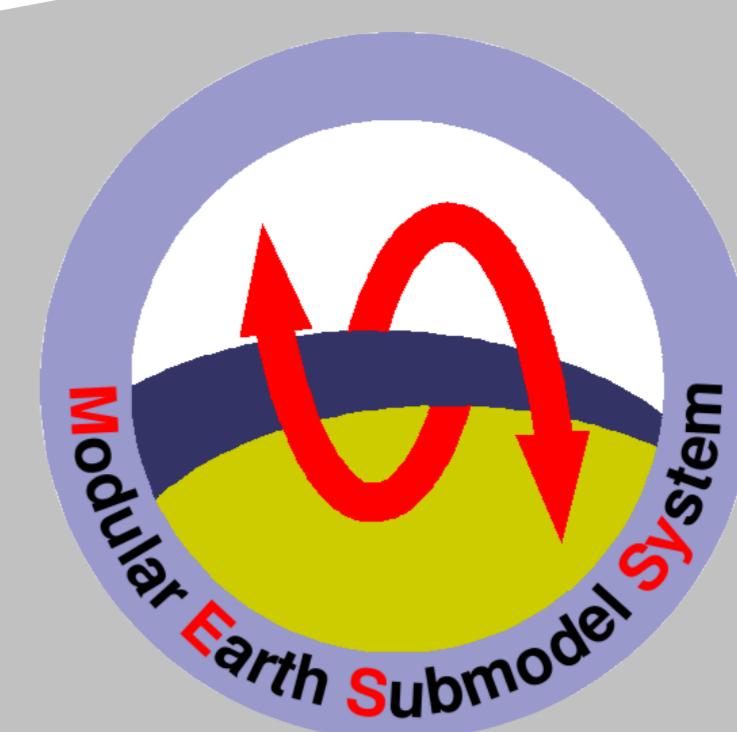
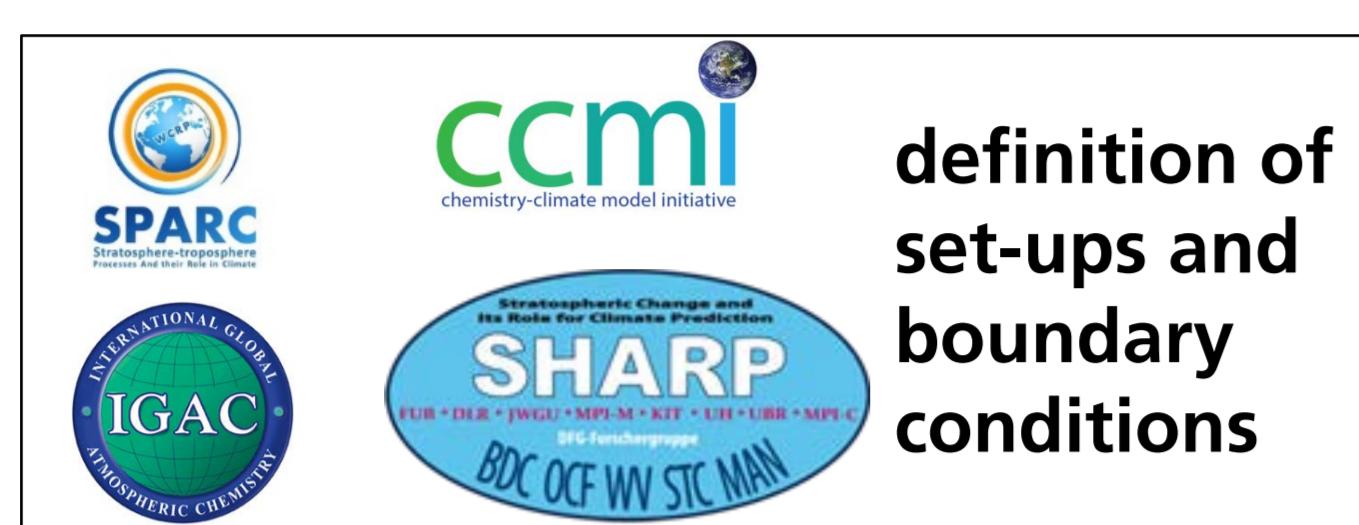


DKRZ - Project 853: ESCiMo Consortial simulations



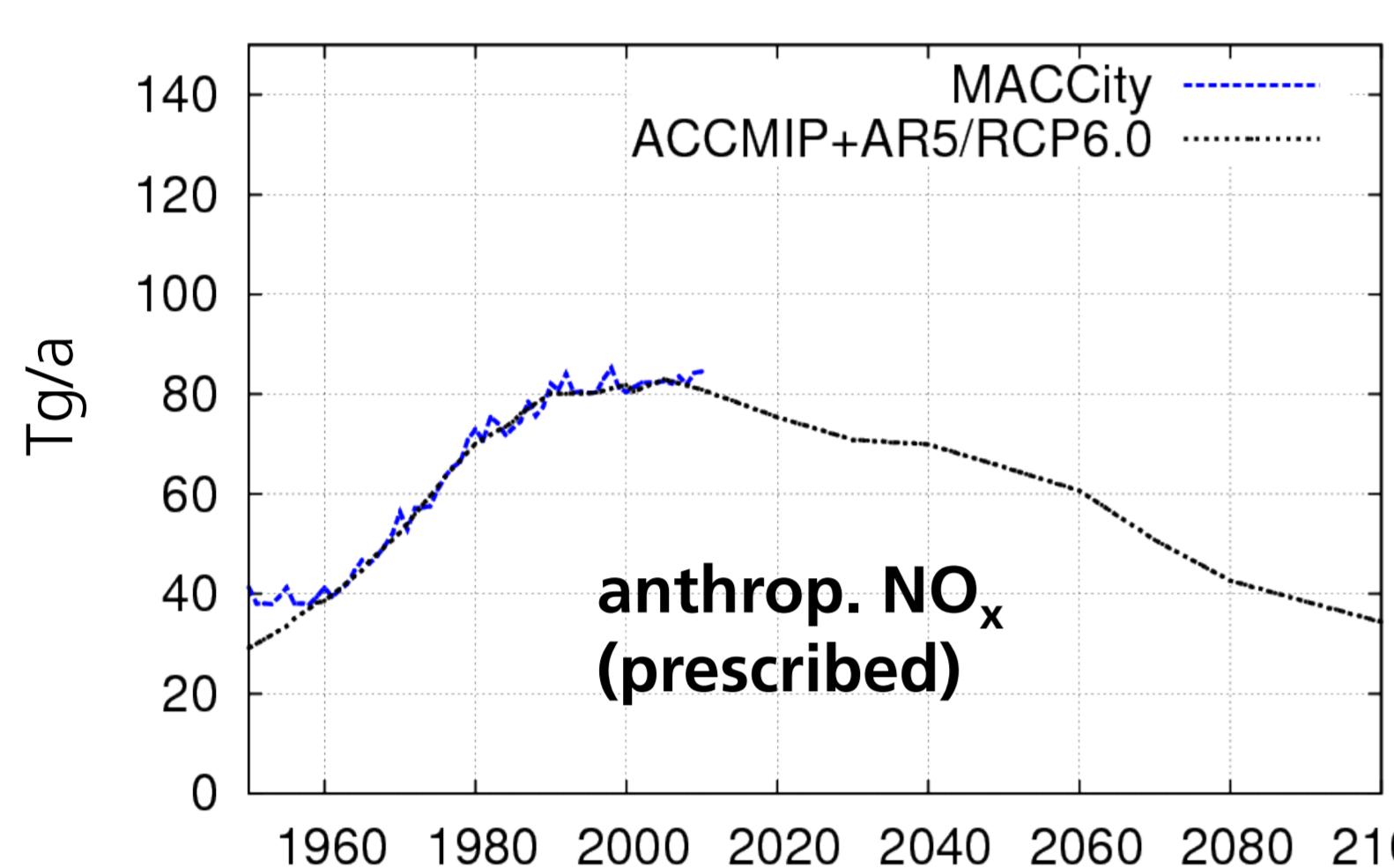
Earth System Chemistry integrated Modelling (ESCiMo)



Powered by DKRZ
6 Mill. CPU-h
2 Petabyte data

Development of ozone in the ESCiMo model simulations in comparison with observations

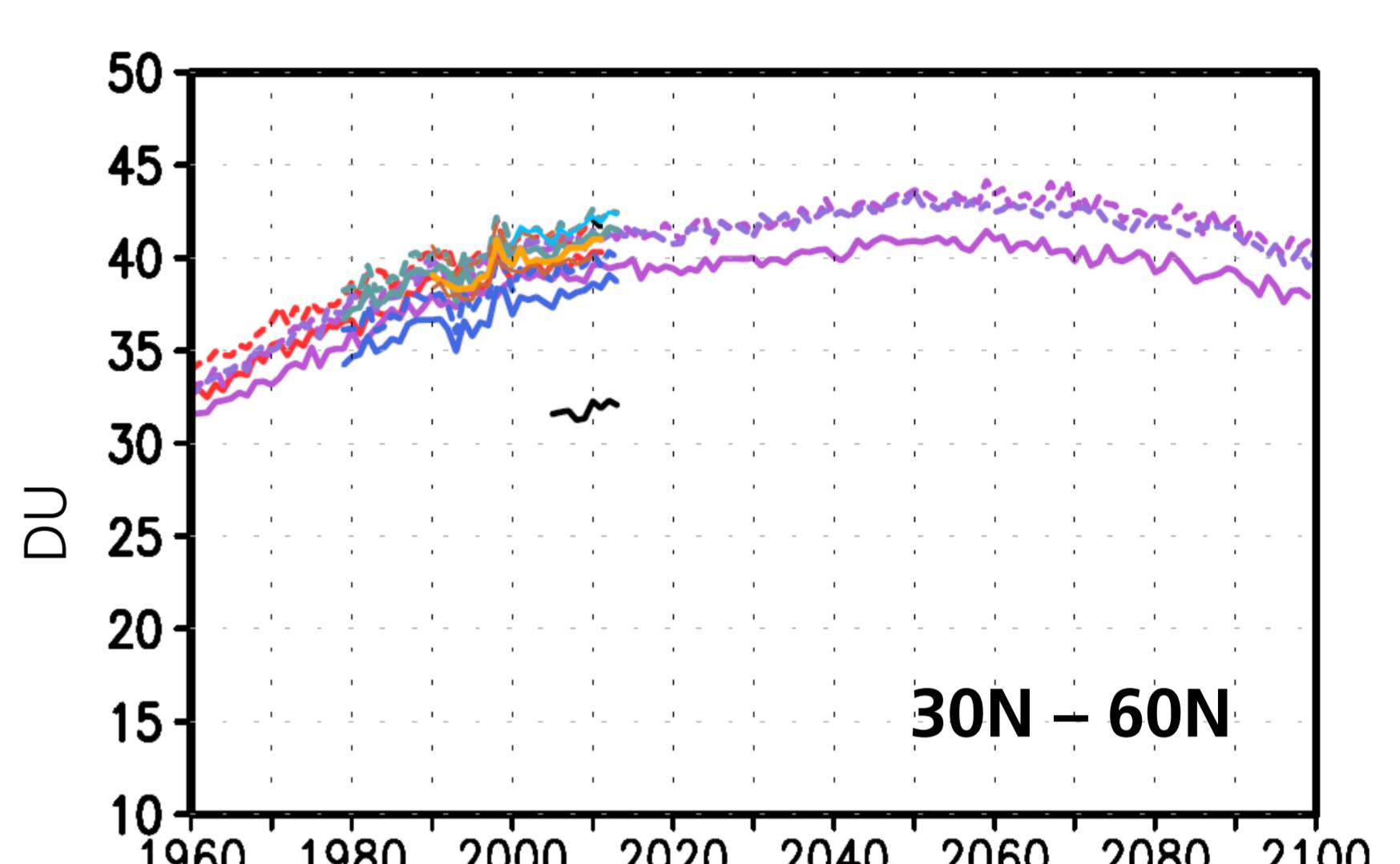
NO_x emissions



lightning-NO_x
(simulated)

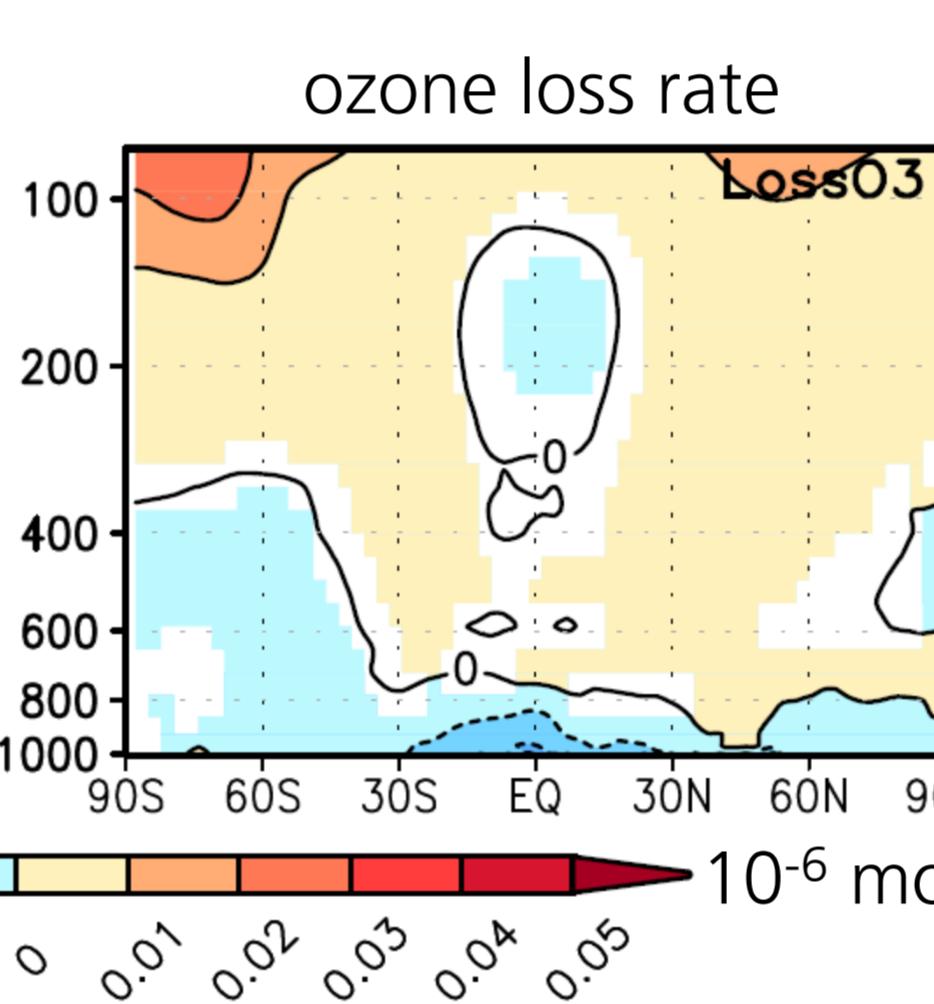
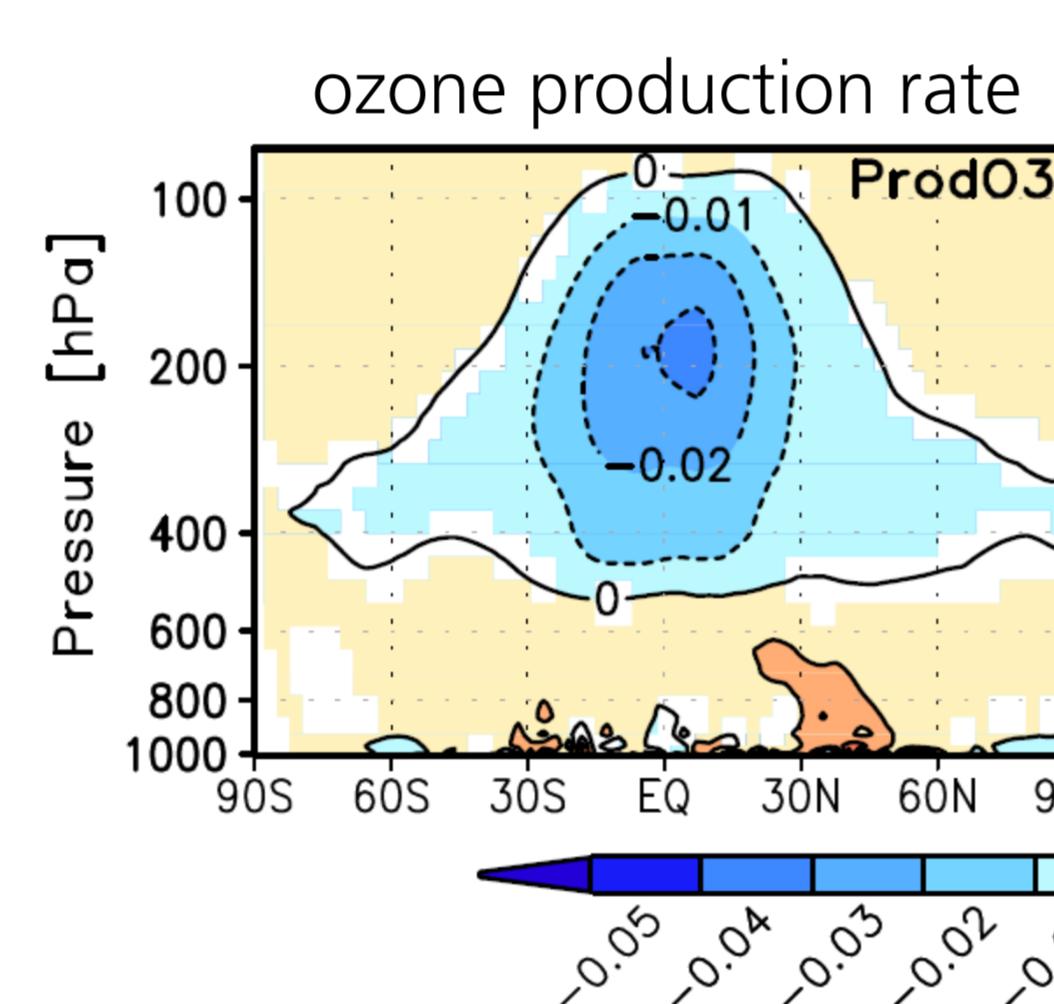
surface-NO_x
(simulated)

Annual mean tropospheric ozone column



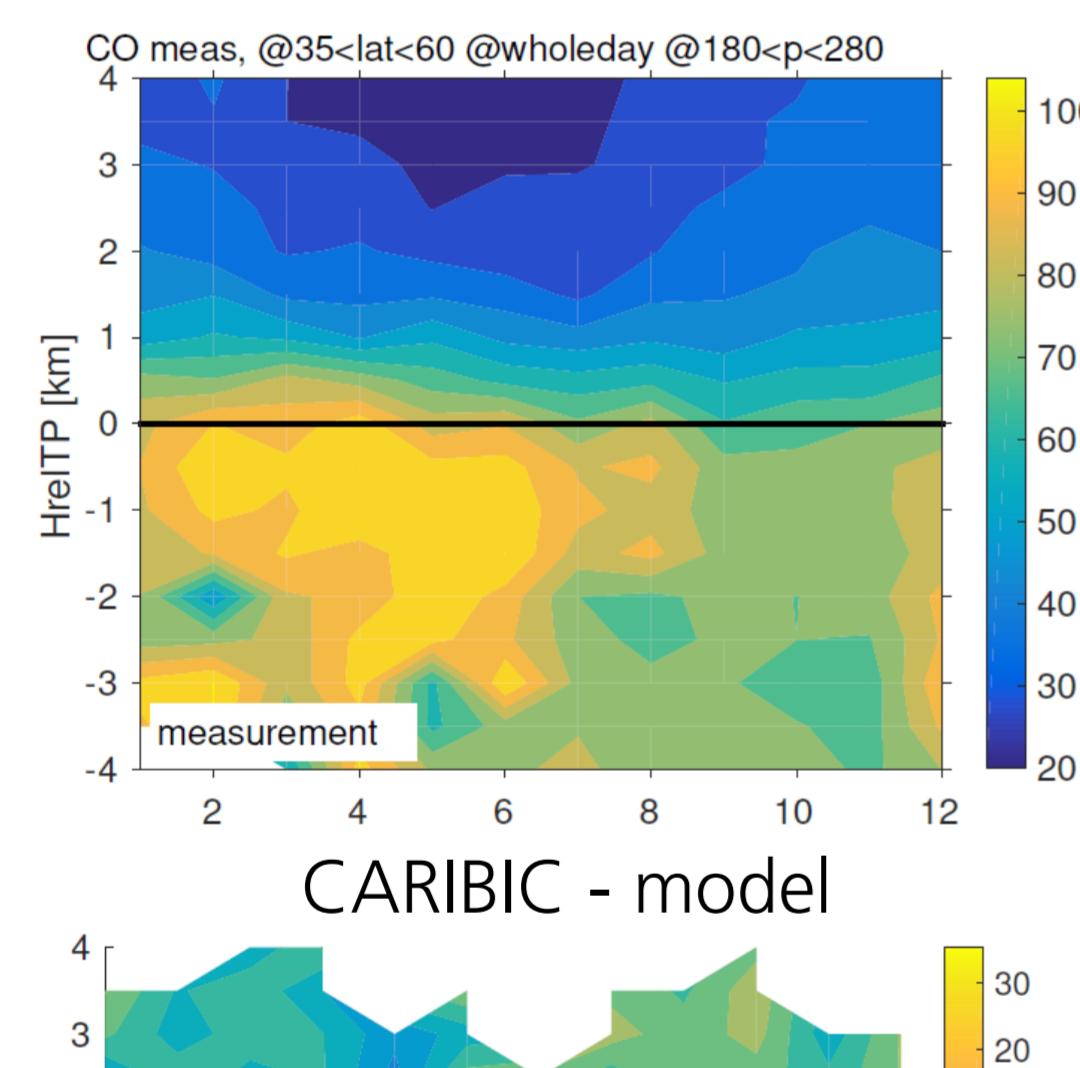
Sensitivity study

Influence of the mean temperature nudging on the production and loss rates of ozone.

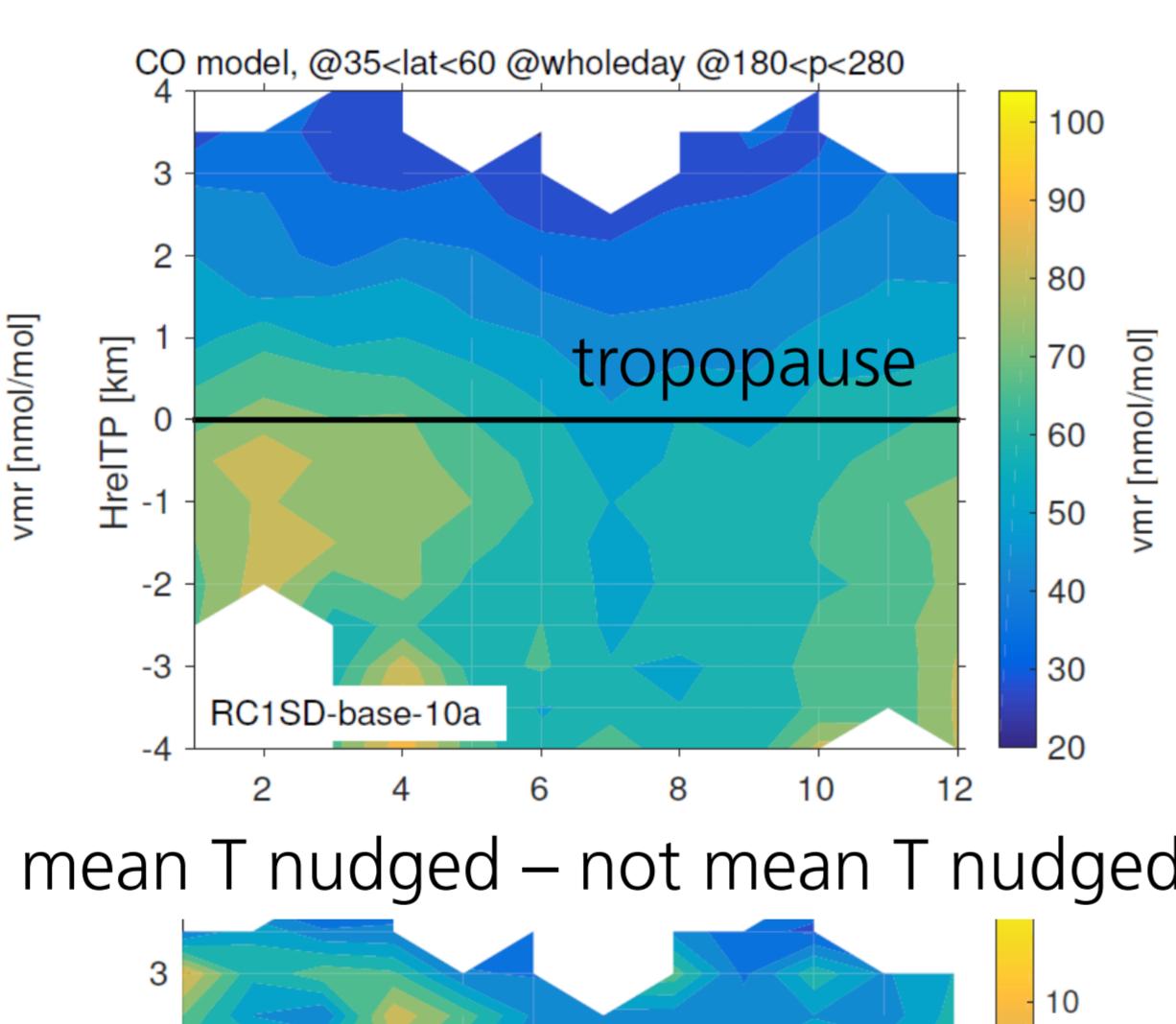


Comparison of CO climatologies (2005-2013)

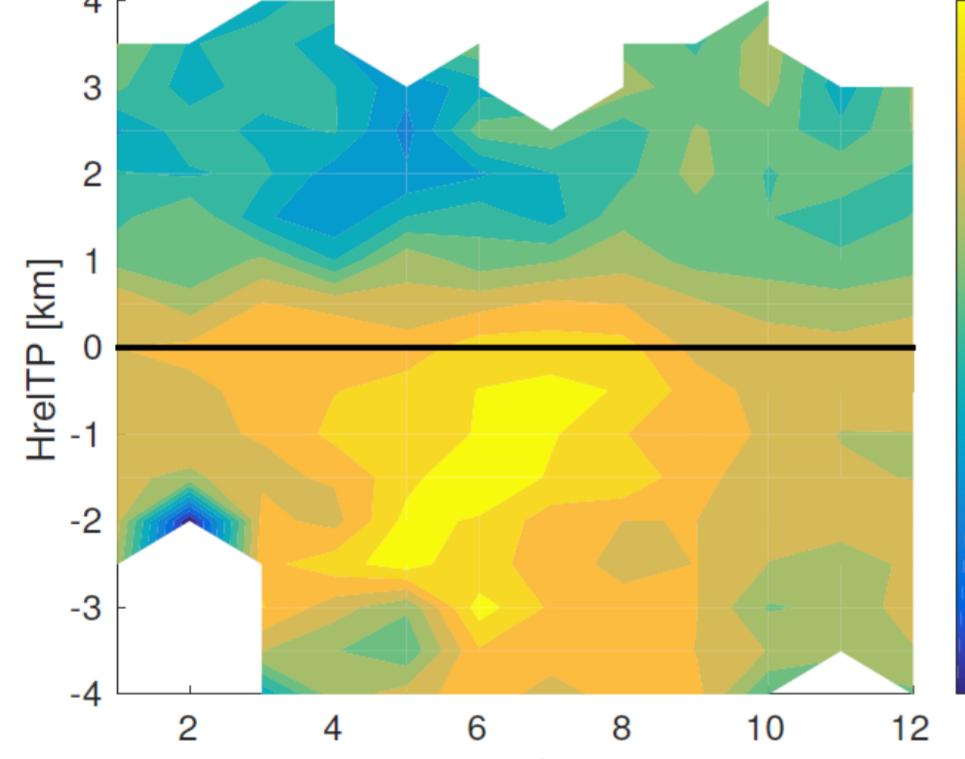
CARIBIC measurements



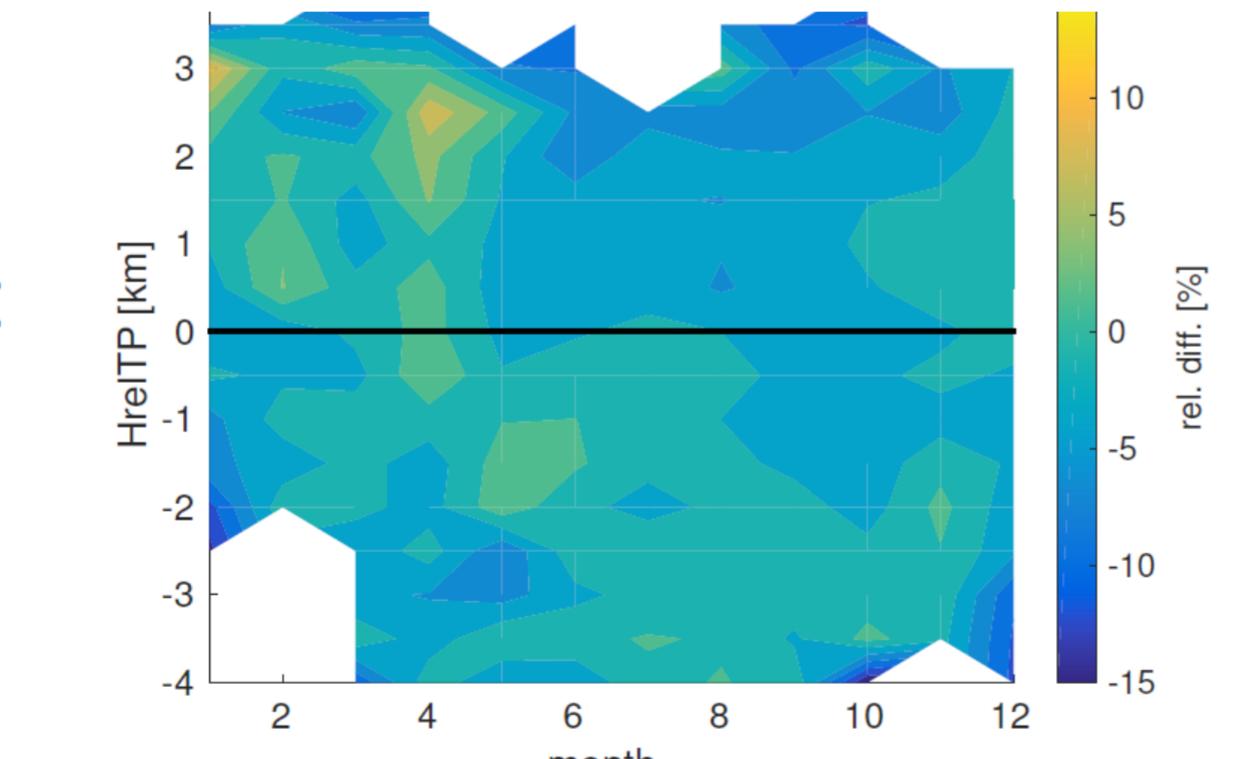
Model



CARIBIC - model

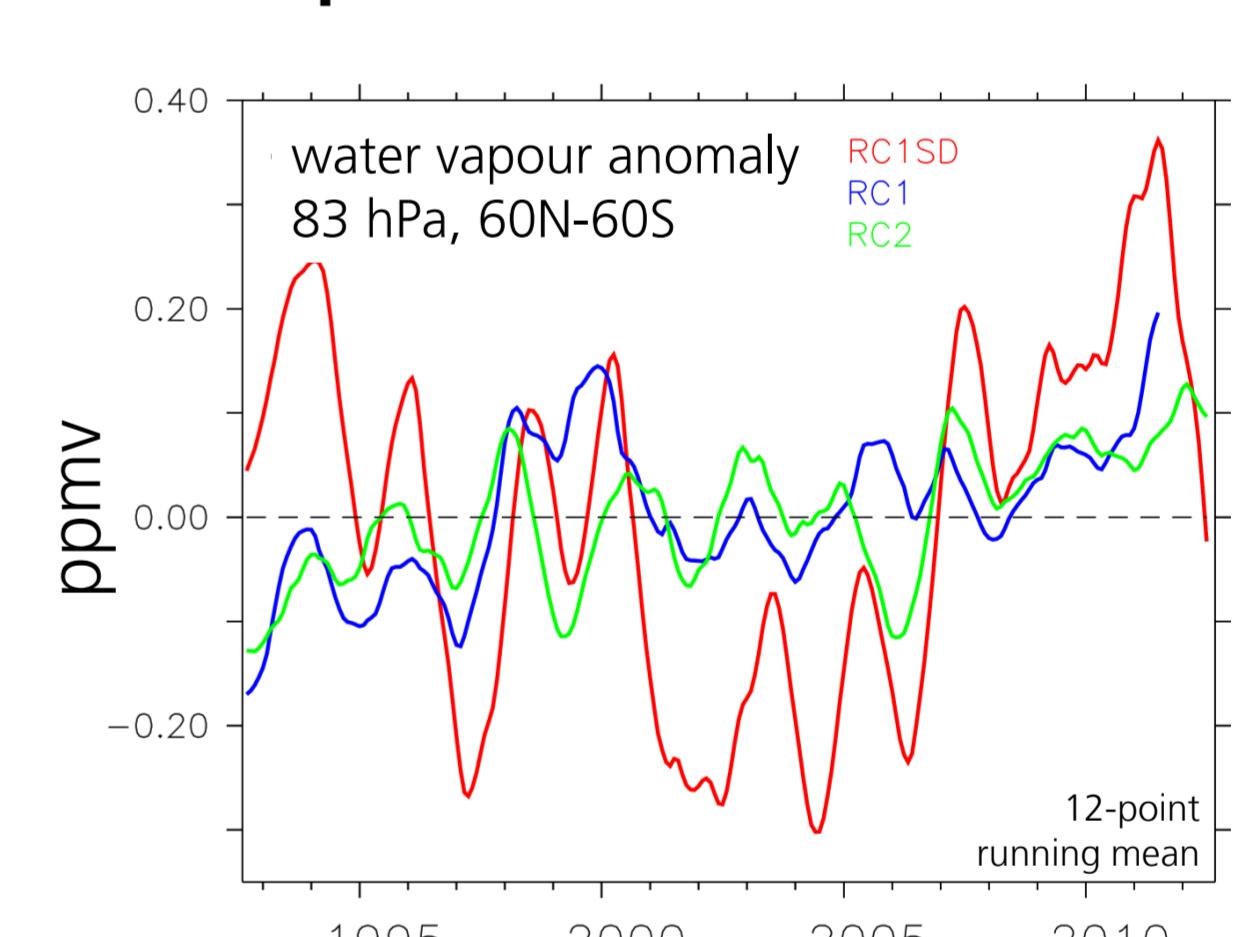
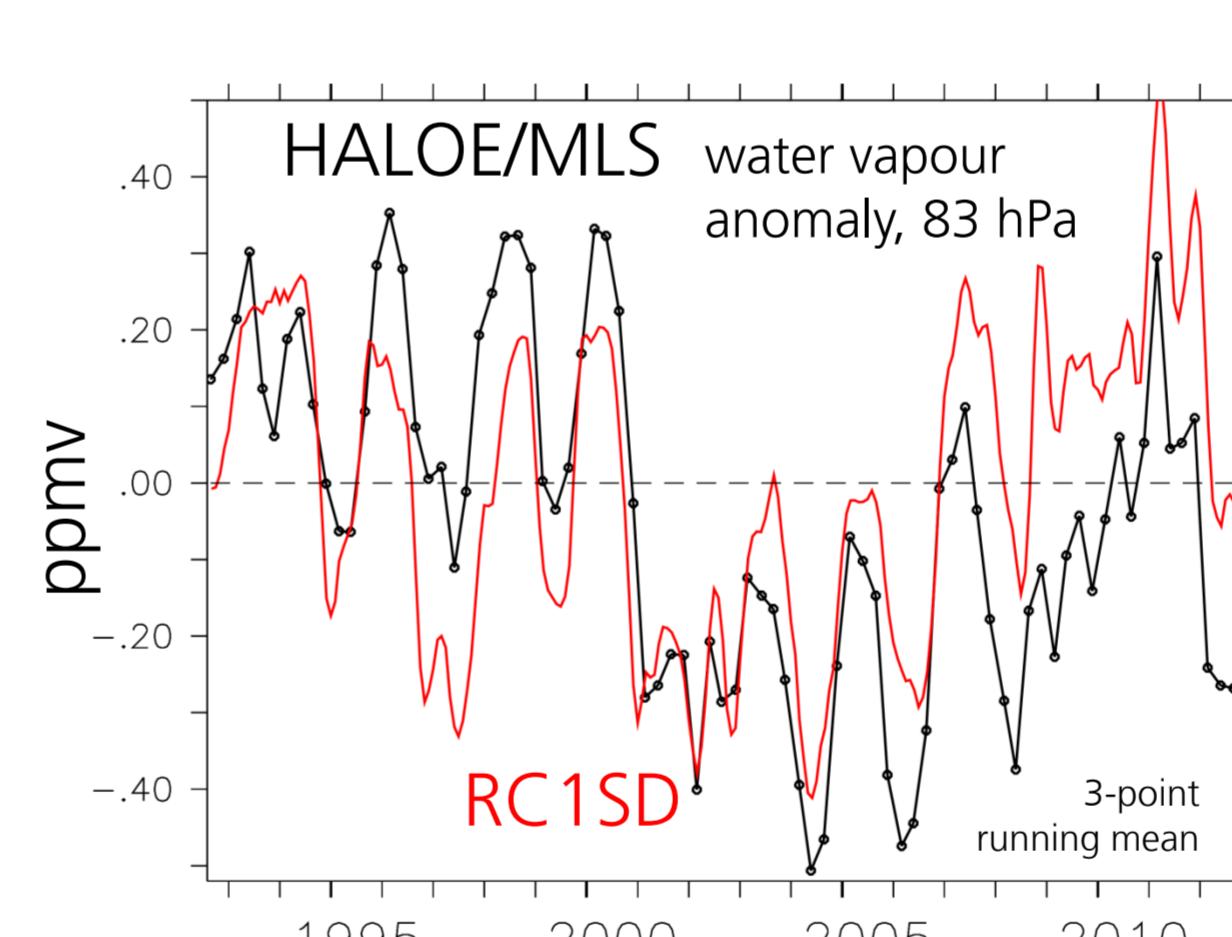


mean T nudged – not mean T nudged

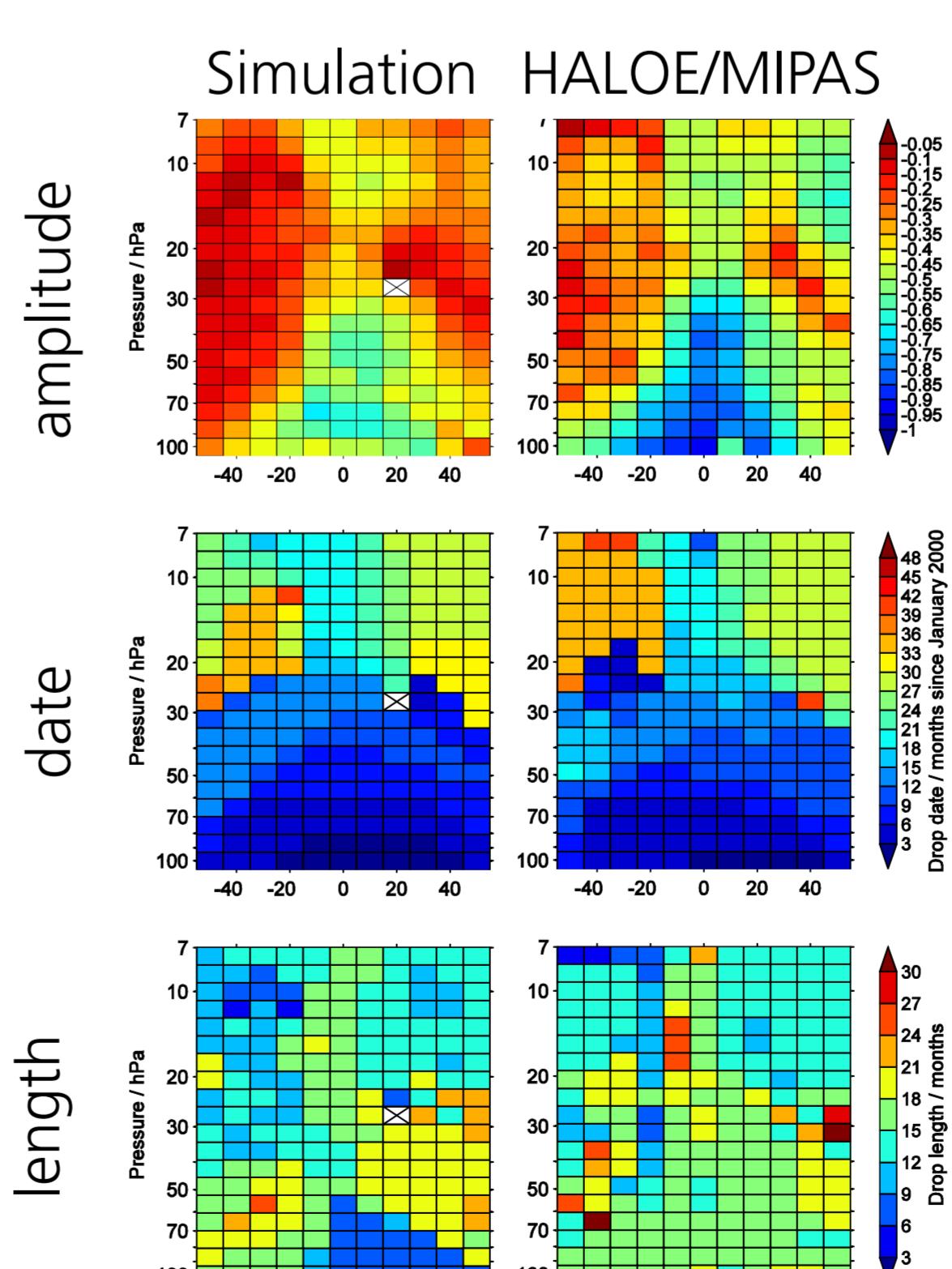


Stratospheric water vapour variability

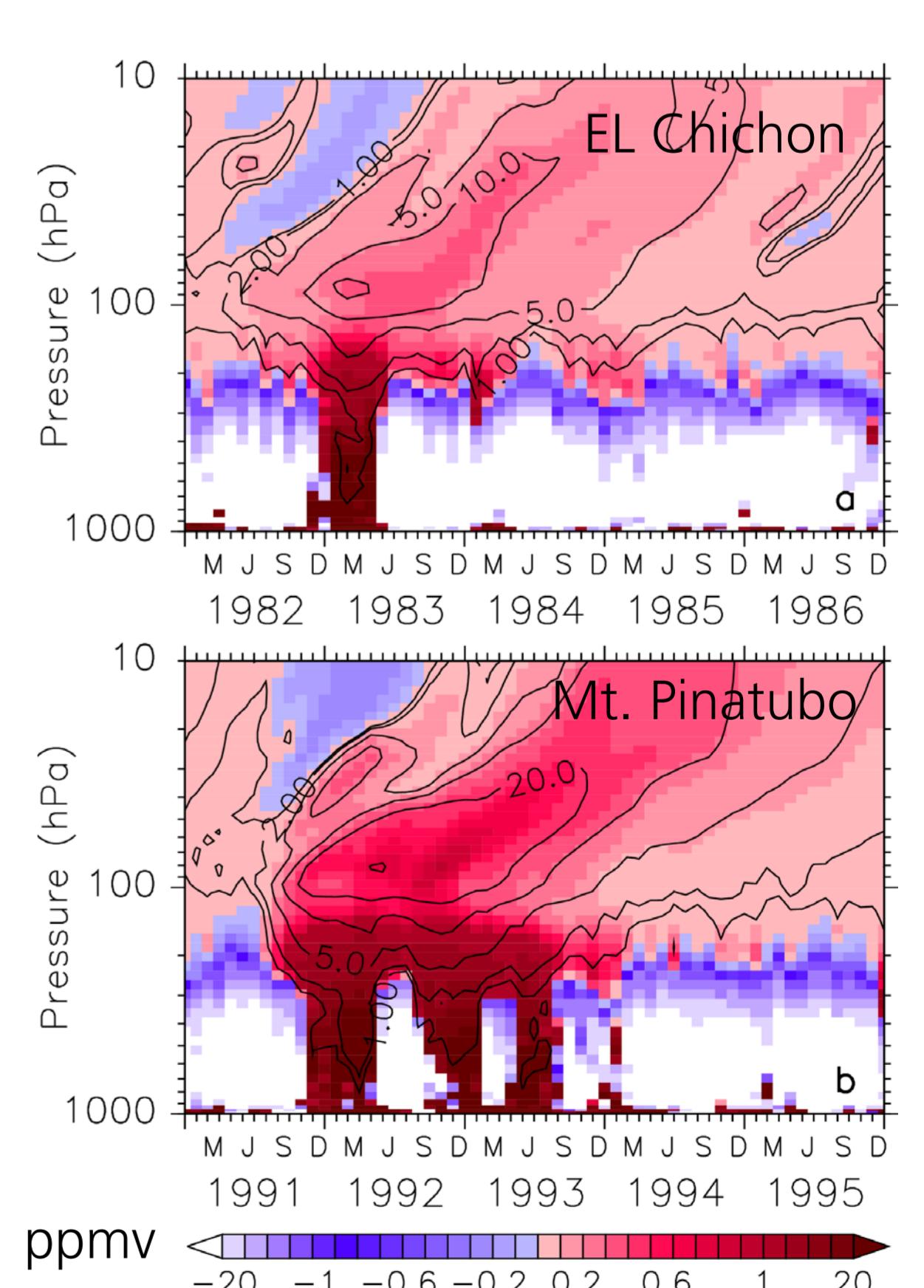
Millennium „Drop“



Millennium „Drop“



Volcano minus no volcano



Global annual average of SSTs and SICs

Simulation with coupled ocean compared with simulations with prescribed SSTs/SICs and ERA-interim.

