

Poster advertisement:

“Simulation of CO₂ and SF₆ to evaluate model transport in the extratropical UTLS region”

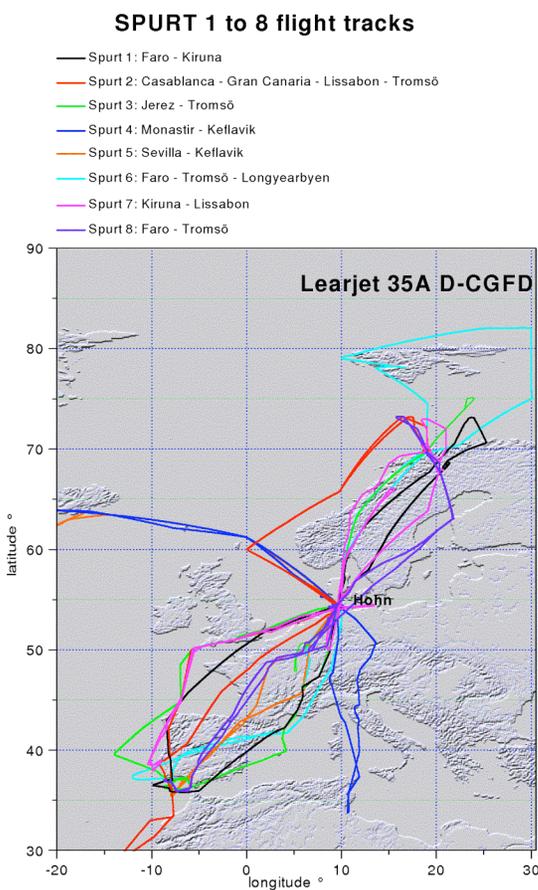
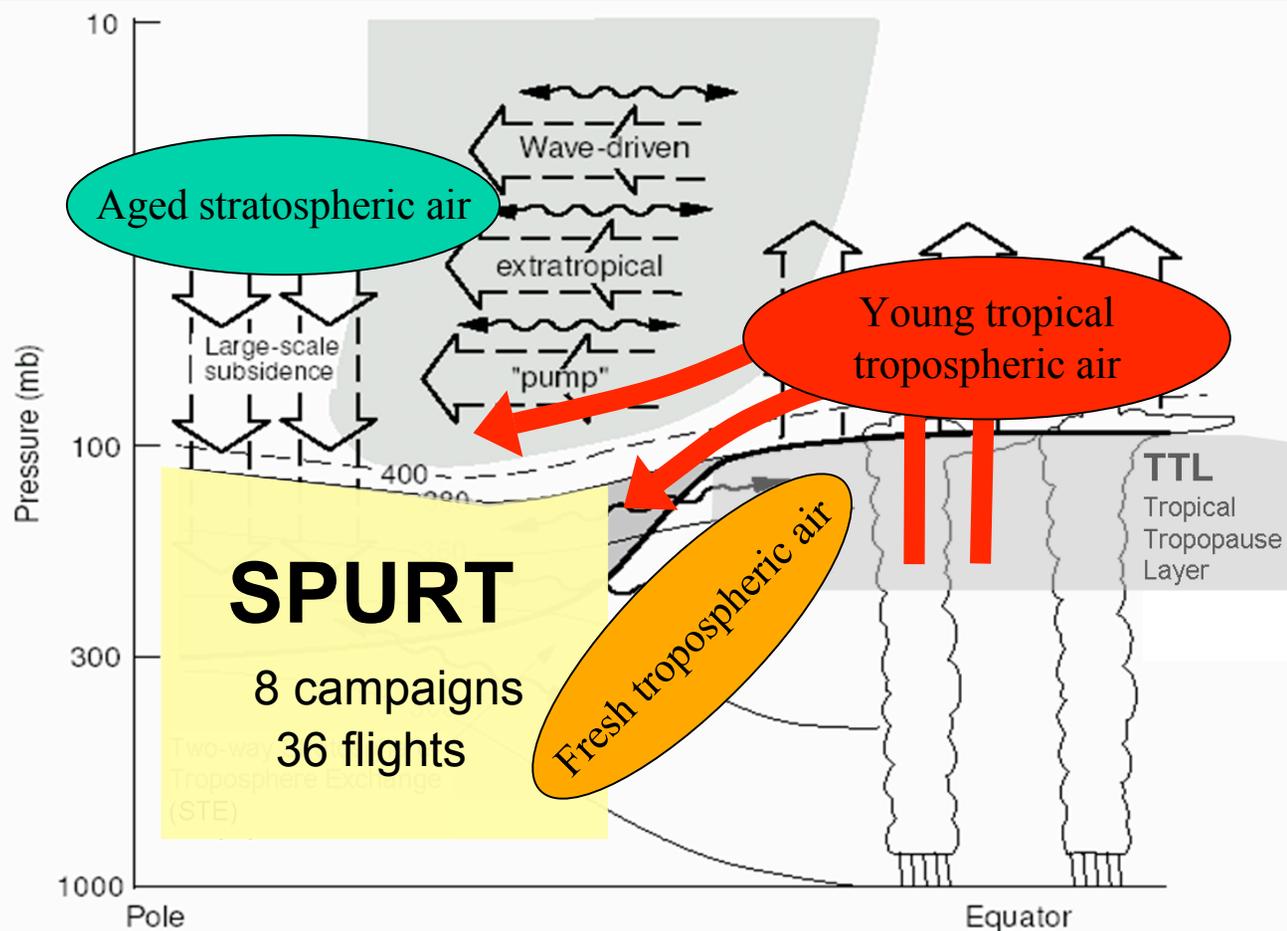
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The region of interest and the reference data set



adapted after Holton et al., 1995

The model experiment

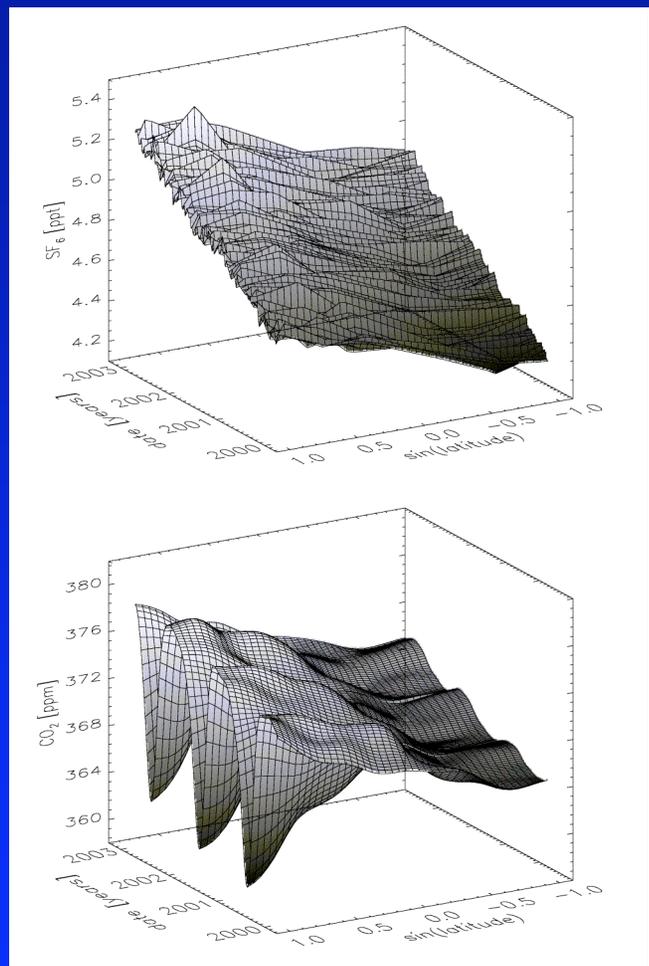


Figure: Tropospheric SF₆ and CO₂ derived from NOAA/CMDL flask network and GLOBALVIEW-CO₂ for the model integration time period 2000 to 2003.

Comparing simulated SF₆ and CO₂ with SPURT observations

Both tracers are passive:

⇒ No chemical interactions, modelled distributions depend only on transport

Both tracers have different tropospheric distributions:

⇒ Different transport pathways into the UT/LS could be separated

Participating models

TM5

TOMCAT

SLIMCAT

ECHAM5/MESSy1.1 (E5M1)