Bremen 2 D CTM

- Latitude / altitude model, horizontal resolution ~ 9°

- calculates its own T and wind speed

- vertical transport from radiative heating / cooling

- isentropic surfaces from the ground to ~ 90km, ~ 3 km spacing

- no-family model using the same chemistry as the B3dCTM:

- JPL-2006 rates

- Parameterisation of NOx and HOx increase due to atmospheric ionisation (*Jackman et al, 2005*)

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B2dCTM

Model approach for HEPPA comparison

- 24 2d model runs, 15° spacing in longitude

- 1d model runs initialised at position of individual MIPAS measurements, 12 hours local solar time

- run for24 hours, and read out at time of MIPAS overpass

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