

***Interactive comment on “Relationships among
Brewer-Dobson circulation, double tropopauses,
ozone and stratospheric water vapour” by
J. M. Castanheira et al.***

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Response to the suggestions by S. Dhome.

1. We found it appropriate to refer to work by Dhomse et al. (ACP, 2008) in this manuscript. That study is noted in section 3.4.2 of the revised manuscript (3.3.2 of the discussion paper).
2. In the revised version of the paper correlations are calculated for variabilities on interseasonal and interannual time scales. The interdecadal variability in the ERA-I water vapour time series was removed by subtracting a ten year (121 C4566

months) moving average. Because of that step we do not think that inhomogeneities in ERA-interim data have a significant impact on our results.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 12391, 2012.