

Interactive  
Comment

***Interactive comment on “Medium-range mid-tropospheric transport of ozone and precursors over Africa: two numerical case-studies in dry and wet seasons” by B. Sauvage et al.***

**B. Sauvage et al.**

Received and published: 26 July 2007

**Corrigendum to the response to comment 11 from Twan van Noije**

A mistake appears in the response to Twan van Noije published on 25 July 2007, that may cause some confusion. We provide here clarification.

In the wet season case, the time needed for the air mass to travel from the biomass burning region in the southern hemisphere to Lagos is 5 days and 18h, according to the trajectory model LAGRANTO (new Fig.10c in the revised paper). This is significantly

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more than indicated by MesoNH (4 days). In the revised manuscript, we explain the cause of this difference (the wind at  $z=3000\text{m}$  is weaker in the ECMWF analysis than in the model, see Fig.8) but also the reasons why we think that 4 days are here a realistic time to connect southern hemisphere fires to Lagos.

In particular, the time found here by LAGRANTO is also significantly less than the 8 days found in Sauvage et al. 2005, although the methodology (LAGRANTO based on EMCWF wind analyses) is the same as in Sauvage et al. (2005). This is an indication that the transport in the considered case is especially rapid.

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Interactive comment on Atmos. Chem. Phys. Discuss., 7, 4673, 2007.

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