

Interactive comment on “Tropospheric Ozone Variability during the East Asian Summer Monsoon as Observed by Satellite (IASI), Aircraft (MOZAIC) and Ground Stations” by S. Safieddine et al.

Anonymous Referee #3

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This is very well known that weather disturbances relieve polluted air masses from meso- to synoptic-scales. This study investigates such a process during the East Asian Summer Monsoon as observed by satellite (IASI), Aircraft (MOZAIC) and ground stations measurements of ozone. The present study is a well-conducted qualitative study ; however it doesn't report anything new. The subject has come up a number of times, one of the very first examples using the same datasets over the same region was by Barret et al. (2011). To further the subject and delivering added value to end users, the present study should explain satisfactorily which one of the transport process or

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the lack of photochemical activity in overcast and cool conditions is the main process governing the change of the low tropospheric ozone column. The study may use other IASI species such as for example carbon monoxide and for which co-authors are principal investigators and experts at ULB and UPMC. Finally, the declined correlation between IASI and MOZAIC ozone datasets obtained in the present study compared to the correlation obtained in Barret et al. (2011) may be worth to be discussed.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 31925, 2015.

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