

***Interactive comment on* “Commentary on “Improving the seasonal cycle and interannual variations of biomass burning aerosol sources” by Generoso et al.” by L. Giglio and J. D. Kendall**

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Giglio and Kendall have detected that in Generoso et al (2003) paper, we have attributed erroneously the TRMM/VIRS fire product developed by Ji and Stocker (2002) to Giglio et al (2003, 2000). This confusion originated from the fact that, at the time of the study, we were not aware that more than one fire products had been derived from the TRMM/VIRS sensor.

In Generoso et al (2003) the TRMM/VIRS fire count dataset is used together with other satellite fire datasets (ATSR, AVHRR, GLOBSCAR and GBA2000) to verify their consistency, and in particular to verify that the use of night-only observations does not introduce a bias in the observed seasonality of biomass burning. We have redone our

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analysis using the proper Giglio et al (2003) dataset and our main conclusion remain unchanged: "This indicates that, although all products do have uncertainties, the night time restriction does not appear to be significant". In fact, we confirm the conclusions from Giglio and Kendall that the seasonality of biomass burning derived from TRMM shows a better agreement with the other datasets when using the Giglio et al (2003) product rather than the Ji and Stoker (2002) one. We will show these comparisons together with further analysis in a forthcoming paper.

The comment by L. Giglio and J.D. Kendall is most interesting as it explains clearly the differences between the two fire products derived from the same sensor. We thank them for providing new insights on the effects of sunglint and cloud detection on the VIRS fire products.

Generoso, S., Bréon, F.-M., Balkanski, Y., Boucher, O., and Schulz, M.: Improving the seasonal cycle and interannual variations of biomass burning aerosol sources, *Atmos. Chem. Phys.*, 3, 1211–1222, 2003.

Giglio, L., Kendall, J. D., and Mack, R.: A multi-year active fire data set for the tropics derived from the TRMM VIRS, *Int. J. Remote Sensing*, 24, 4505–4525, 2003.

Giglio, L., Kendall, J. D., and Tucker, C. J.: Remote sensing of fires with the TRMM VIRS, *Int. J. Remote Sensing*, 21, 203–207, 2000.

Ji, Y. and Stoker, E.: An overview of the TRMM/TSDIS fire algorithm and product, *Int. J. Remote Sensing*, 23, 3285–3303, 2002.

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