**Interactive comment on** “Can we explain the observed methane variability after the Mount Pinatubo eruption?” by N. Bândă et al.

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Received and published: 2 November 2015

**Replies to general comments:**
We would like to thank the referee for the positive feedback.

Please note that some small changes were made to Table 1 and Figs. 5 and 6 due to a mistake we found in the implementation of HYMN emissions. The main results and conclusions of the paper are not affected.

**Replies to technical corrections:**

*p 19121 line 26: “All variables have been averaged with a 12-month running mean...”,*

all except the AOD (Fig 1a), I presume.

We also applied a 12-month running mean to the AOD to be consistent with the other variables in Fig. 1.

*p 19127 line 1: “In ORCHIDEE, CH4 emission ...”, emissions*

Corrected.

*p 19142 line 5: “Paciffic Ocean”, Pacific”*

Corrected.

*p 19142 lines 13-18: can be deleted; nearly identical to what stands at the beginning of appendix A*

We thank the reviewer for pointing this out. Lines 13-18 p 19142 were removed.