

Response to reviewer

Dear reviewer,

Thank you again for your revision. According to your suggestion, I have revised the two minor comments. Please see below.

Best wishes,

Xiaolu Tang, on behalf of all co-authors.

(1) The citation at the end (i.e., Bond-Lamberty and Thomson, 2010b; 295 Hashimoto et al., 2015; Hursh et al., 2017; Jian et al., 2018b) should be deleted because you already cited in the beginning.

Response: done! “Bond-Lamberty and Thomson, 2010b; 295 Hashimoto et al., 2015; Hursh et al., 2017; Jian et al., 2018b” were removed.

(2) suggest 'average of heterotrophic respiration ranged from 0.54 to 0.63' change to 'average of autotrophic respiration ranged from 0.37 to 0.48'.

Response: done as:

“The global average proportion of RA ranged from 0.37 to 0.46 over 1990-2014 (calculated from Bond-Lamberty et al., 2018), while global soil respiration was 67 to 108 Pg C yr⁻¹ according to different estimates, thus global RA varied from 25 to 51 Pg C yr⁻¹.”