

CORRECTION

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# Correction to: Comparison of automatic and manual chamber methods for measuring soil respiration in a temperate broad-leaved forest

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**Correction to: *Journal of Ecology and Environment* (2018) 42:32**  
<https://doi.org/10.1186/s41610-018-0093-0>

Following publication of the original article (Lee, 2018), it was reported that a mismatch occurred between the online HTML article and the PDF version. In the PDF version of the article, text was missing on page 3 between “Rs was calculated from the rate of increase in CO<sub>2</sub> concentration measured per unit of time (Eq. (1))” and the equation “Rs (mg CO<sub>2</sub> m<sup>-2</sup> h<sup>-1</sup>) =  $a \cdot \rho \cdot V \cdot S^{-1}$ ” (2)

The text from the beginning of page 3 should read as follows:

... AOCC system. Also, AOCC can minimize the artificial disturbance caused by the measurement because there is little access of the measurer around the measuring point. A detailed description of this type of system can be found in Suh et al. (2006) and Eom et al. (2018). Rs was calculated from the rate of increase in CO<sub>2</sub> concentration measured per unit of time (Eq. (1)):

$$Rs \text{ (mg CO}_2 \text{ m}^{-2} \text{ h}^{-1}) = a \cdot \rho \cdot L \cdot A^{-1} \quad (1)$$

where  $a$  is the increasing rate of the CO<sub>2</sub> (ppm min<sup>-1</sup>) in the closed chamber system,  $\rho$  is the density of CO<sub>2</sub>,  $L$  is the total volume of the closed chamber system (m<sup>3</sup>) included in chamber, tube, IRGA, pump etc., and  $A$  is the surface area in the chamber.

In the MCM, the CO<sub>2</sub> concentration was measured using a closed chamber cap of approximately 15 cm high that was installed with a CO<sub>2</sub> sensor (GMP343, Vaisala, Finland) at the top inner section. When the chamber cap was installed on the collar top, the CO<sub>2</sub> concentration in the closed space between the ground and the chamber cap increased with time

(Lee, 2018). In the MCM, the Rs was calculated using the following Eq. (2):

$$Rs \text{ (mg CO}_2 \text{ m}^{-2} \text{ h}^{-1}) = a \cdot \rho \cdot V \cdot S^{-1} \quad (2)$$

The original article (Lee, 2018) has been updated.

Received: 10 December 2018 Accepted: 11 December 2018  
Published online: 07 January 2019

#### Reference

Lee. Comparison of automatic and manual chamber methods for measuring soil respiration in a temperate broad-leaved forest. *J Ecol Environ*. 2018;42:32.  
<https://doi.org/10.1186/s41610-018-0093-0>.

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