

CORRECTION

Open Access



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

Jae-Seok Lee

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 CO₂ concentration measured per unit of time (Eq. (1))” and the equation “Rs (mg CO₂ m⁻² h⁻¹) = $a \cdot \rho \cdot V \cdot S^{-1}$ ” (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 CO₂ 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 CO₂ (ppm min⁻¹) in the closed chamber system, ρ is the density of CO₂, L is the total volume of the closed chamber system (m³) included in chamber, tube, IRGA, pump etc., and A is the surface area in the chamber.

In the MCM, the CO₂ concentration was measured using a closed chamber cap of approximately 15 cm high that was installed with a CO₂ sensor (GMP343, Vaisala, Finland) at the top inner section. When the chamber cap was installed on the collar top, the CO₂ 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>.

Correspondence: jaeseok@konkuk.ac.kr

Department of Biological Science, Konkuk University, Seoul 05029, Korea



© The Author(s). 2018 **Open Access** This article is distributed under the terms of the Creative Commons Attribution 4.0 International License (<http://creativecommons.org/licenses/by/4.0/>), which permits unrestricted use, distribution, and reproduction in any medium, provided you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The Creative Commons Public Domain Dedication waiver (<http://creativecommons.org/publicdomain/zero/1.0/>) applies to the data made available in this article, unless otherwise stated.