



Correction to: Assessment of the Myitnge River flow responses in Myanmar under changes in land use and climate

Soe Thiha¹ · Asaad Y. Shamseldin¹ · Bruce W. Melville¹

Published online: 2 September 2022
© Springer Nature Switzerland AG 2022

Correction to:

Modeling Earth Systems and Environment
(2021) 7:1393–1415

<https://doi.org/10.1007/s40808-020-00926-3>

The original version of the article “Assessment of the Myitnge River flow responses in Myanmar under changes in land use and climate” by Soe Thiha, Asaad Y. Shamseldin and Bruce W. Melville unfortunately contained some inaccurate sentences, and they are expressed below.

1. The years (2010, 2011, 2017) in the fifth sentence of the abstract and the years (2010, 2014, and 2017) in the first sentence under Land-use data section in page 1395 should be written as (2011, 2014, 2017).
2. The sentence above Eq. (7) and Eq. (7) should be written as

In the hidden layer, the signal $net_j(k)$ which is received by neuron j in the hidden layer for pixel k is computed as follows (Bernetti and Marinelli, 2010):

$$net_j(k) = \sum_i \omega_{i,j} x'_i(k) \quad (7)$$

x'_i is a normalized variable which is associated with a neuron in the input layer.

3. Eq. (8) and the definition of $net_j(k, t)$ should be written as

$$P(k, l = 1) = \sum_j \omega_{j,l} \frac{1}{1 + e^{net_j(k,t)}} \quad (8)$$

$net_j(k, t)$ is the signal that is received by neuron j (Bernetti and Marinelli, 2010).

4. In page 1405, the first sentence in the left column should be written as “Since the correlation coefficient between the downscaled and observed rainfall data is nearly 0.6 and is moderate; the downscaled rainfall is regarded acceptable like other studies (Hasan et al., 2018; Miao et al., 2019)”. In page 1406, the fifth sentence above Table 11 should be written as “Fig. 11 shows that the projected monthly rainfall and temperature are differ from the baseline data for both RCPs”. In page 1410, the first sentence of the third paragraph in the left column should be written as “The results show that the dry seasonal flow is predicted to decrease slightly except for RCP8.5 (2020–2039), while it is expected to increase in the wet season for both periods and RCPs”. In page 1412, the first sentence of the third paragraph below Fig. 15 should be written as “The calibrated SWAT model uses the same soil map and DEM, but it applies different climate data and land use maps for the combined LUC and CC scenario.”

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

The original article can be found online at <https://doi.org/10.1007/s40808-020-00926-3>.

✉ Soe Thiha
sha638@aucklanduni.ac.nz

¹ Department of Civil and Environmental Engineering, The University of Auckland, Auckland 1142, New Zealand