



Corrigendum to “Analysis of three-dimensional unsaturated–saturated flow induced by localized recharge in unconfined aquifers” published in Hydrol. Earth Syst. Sci., 22, 3951–3963, 2018

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We apologize for typos in the paper of C.-H. Chang et al. (2018, HESS, 22, 3951–3963). In this paper, Eqs. (43a), (50a), (50b), (50d), and (50e) should read as

$$\begin{aligned}
 & K_x \left(\frac{\Delta x_w}{\Delta X} \phi_{i+1,j,k}^{m+1} - \frac{2}{\Delta x_w \Delta x_e} \phi_{i,j,k}^{m+1} + \frac{\Delta x_e}{\Delta X} \phi_{i-1,j,k}^{m+1} \right) \\
 & + K_y \left(\frac{\Delta y_s}{\Delta Y} \phi_{i,j+1,k}^{m+1} - \frac{2}{\Delta y_s \Delta y_n} \phi_{i,j,k}^{m+1} + \frac{\Delta y_n}{\Delta Y} \phi_{i,j-1,k}^{m+1} \right) \\
 & + \frac{K_z}{\Delta z^2} \left(\phi_{i,j,k+1}^{m+1} - 2\phi_{i,j,k}^{m+1} + \phi_{i,j,k-1}^{m+1} \right) \\
 & - \frac{aK_z}{\Delta z} \left(\phi_{i,j,k+1}^{m+1} - \phi_{i,j,k}^{m+1} \right) + a \left[K_x \left(\frac{\phi_{i,j,k}^{m+1} - \phi_{i-1,j,k}^{m+1}}{\Delta x_w} \right)^2 \right. \\
 & \left. + K_y \left(\frac{\phi_{i,j,k}^{m+1} - \phi_{i,j-1,k}^{m+1}}{\Delta y_s} \right)^2 + K_z \left(\frac{\phi_{i,j,k+1}^{m+1} - \phi_{i,j,k}^{m+1}}{\Delta z} \right)^2 \right] \\
 & = \frac{aS_y}{\Delta t} \left(\phi_{i,j,k}^{m+1} - \phi_{i,j,k}^m \right), \tag{43a}
 \end{aligned}$$

$$G_x^{(n)} = \left(\phi_{i,j,k}^{m+1,(n)} - \phi_{i-1,j,k}^{m+1,(n)} \right) / \Delta x_w, \tag{50a}$$

$$G_y^{(n)} = \left(\phi_{i,j,k}^{m+1,(n)} - \phi_{i,j-1,k}^{m+1,(n)} \right) / \Delta y_s, \tag{50b}$$

$$g_x^{(n-1)} = \left(\phi_{i,j,k}^{m+1,(n-1)} - \phi_{i-1,j,k}^{m+1,(n-1)} \right) / \Delta x_w, \tag{50d}$$

$$g_y^{(n-1)} = \left(\phi_{i,j,k}^{m+1,(n-1)} - \phi_{i,j-1,k}^{m+1,(n-1)} \right) / \Delta y_s. \tag{50e}$$

In addition, the word “Oboservation” in Fig. 1a should read “Observation”.