



## ***Corrigendum to*** **“SPHY v2.0: Spatial Processes in HYdrology” published in Geosci.** **Model Dev., 8, 2009–2034, 2015**

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### **Correct equation for lateral flow (Eq. 40)**

In the original SPHY publication the equation for lateral flow (Eq. 40) was written incorrectly. This is explained below.

For small travel times the ( $TT_{lag}$ ), the  $\left(1 - \exp\left[\frac{-1}{TT_{lag}}\right]\right)$  part becomes more or less equal to 1. This means that although there may not be any lateral flow generated in the current time step  $t$ , it can infinitely continue generating lateral flow from the previous time step.

The correct Eq. (40) should therefore be

$$LF_t = LF_t^* \cdot \left(1 - \exp\left[\frac{-1}{TT_{lag,t}}\right]\right) + LF_{t,t-1}^* \cdot \exp\left[\frac{-1}{TT_{lag,t}}\right]. \quad (1)$$