



Corrigendum to “Asset exposure data for global physical risk assessment” published in Earth Syst. Sci. Data, 12, 817–833, 2020

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Equations (1) and (2) contained incorrect variables upon submission. In Eqs. (1) and (2) in Sect. 2.5 of the mentioned paper, as well as the sentences following Eq. (1), the variables m and n are interchanged. Throughout all equations, they should always be Lit^m and Pop^n , consistent with the rest of the paper.

The correct equations and text paragraph are as follows.

$$\text{Lit}^m \text{Pop}_{\text{pix}}^n = (\text{NL}_{\text{pix}} + \delta)^m \cdot \text{Pop}_{\text{pix}}^n, \quad (1)$$

where the digital number value $\text{Lit}^m \text{Pop}_{\text{pix}}^n$ per grid cell (pix) is computed from the grid cell's nightlight intensity $\text{NL}_{\text{pix}} \in [0, 255]$, population count $\text{Pop}_{\text{pix}} \in \mathbb{R}^+$, and the exponents $m, n \in \mathbb{N}$. For all $n > 0$, the added δ is equal to 1 to ensure that non-illuminated but populated grid cells do not get assigned zero values. In the case that nightlight data are used on their own without population data ($n = 0$), δ is set to zero [...]

$$I_{\text{pix}} = I_{\text{tot}} \cdot \frac{\text{Lit}^m \text{Pop}_{\text{pix}}^n}{\sum_{\text{pix}_i}^N (\text{Lit}^m \text{Pop}_{\text{pix}_i}^n)}. \quad (2)$$