# Corrigendum to <br> "Modelling soil erosion at European scale: towards harmonization and reproducibility" published in Nat. Hazards Earth Syst. Sci., 

 15, 225-245, 2015C. Bosco $^{1,2}$, D. de Rigo ${ }^{2,3}$, O. Dewitte ${ }^{4}$, J. Poesen ${ }^{5}$, and P. Panagos ${ }^{2}$<br>${ }^{1}$ Loughborough University, Department of Civil and Building Engineering Loughborough LE11 3TU, UK<br>${ }^{2}$ Joint Research Centre of the European Commission, Institute for Environment and Sustainability, Via Fermi, 2749, 21027 Ispra, Italy<br>${ }^{3}$ Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria, Via Ponzio 34/5, 20133 Milan, Italy<br>${ }^{4}$ Royal Museum for Central Africa, Department of Earth Sciences, Leuvensesteenweg 13, 3080 Tervuren, Belgium<br>${ }^{5}$ KU Leuven, Department of Earth and Environmental Sciences, Celestijnenlaan 200 E, 3001 Leuven, Belgium

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Two editorial mistakes were found in the article. Both refer to Eq. (2), p. 231 (whose correct version was published in the discussion paper, p. 2652).

The first mistake is related to the operator $\Omega$, which was wrongly rendered with a summation operator ( $\sum$ ). The editorial notation mistake is also evident by considering the semantics of the RDS (relative distance similarity) statistics. As explained in de Rigo et al. (2013) and Bosco et al. (2013), RDS is defined in $[0,1]$. Therefore, a summation operator whose arguments are quantities mathematically defined in $[0,1]$ cannot be an instance of the general $\Omega$ operator (also applied in de Rigo et al., 2013).

The second editorial mistake affected the numbering of Eq. (2), which was wrongly re-numbered as Eqs. (2), (3), and (4).

As a consequence, the equation rendered in the article as

$$
\begin{align*}
\operatorname{RDS}_{c}^{i, \text { input }} & =\max _{\alpha \in A^{i}}\left(\Sigma_{j=1}^{26}\left(\frac{\max \left(\min \left(C_{c}^{j}, C_{\alpha}^{j}\right), \delta C^{j}\right)}{\max \left(\max \left(C_{c}^{j}, C_{\alpha}^{j}\right), \delta C^{j}\right)}\right)\right)  \tag{2}\\
\operatorname{RDS}_{c}^{i, \text { output }} & =\max _{\alpha \in A^{i}}\left(\frac{\max \left(\min \left(R_{c}^{i}, R_{\alpha}^{i}\right), \delta R^{i}\right)}{\max \left(\max \left(R_{c}^{i}, R_{\alpha}^{i}\right), \delta R^{i}\right)}\right) \tag{3}
\end{align*}
$$

$$
\begin{equation*}
\operatorname{RDS}_{c}^{i}=\min \left(\operatorname{RDS}_{c}^{i, \text { input }}, \operatorname{RDS}_{c}^{i, \text { output }}\right) \tag{4}
\end{equation*}
$$

should be rewritten as

$$
\begin{align*}
\operatorname{RDS}_{c}^{i, \text { input }} & =\max _{\alpha \in A^{i}}\left(\Omega_{j=1}^{26}\left(\frac{\max \left(\min \left(C_{c}^{j}, C_{\alpha}^{j}\right), \delta C^{j}\right)}{\max \left(\max \left(C_{c}^{j}, C_{\alpha}^{j}\right), \delta C^{j}\right)}\right)\right) \\
\operatorname{RDS}_{c}^{i, \text { output }} & =\max _{\alpha \in A^{i}}\left(\frac{\max \left(\min \left(R_{c}^{i}, R_{\alpha}^{i}\right), \delta R^{i}\right)}{\max \left(\max \left(R_{c}^{i}, R_{\alpha}^{i}\right), \delta R^{i}\right)}\right)  \tag{2}\\
\operatorname{RDS}_{c}^{i} & =\min \left(\operatorname{RDS}_{c}^{i, \text { input }}, \operatorname{RDS}_{c}^{i, \text { output }}\right) .
\end{align*}
$$

The wrong numbering in Eq. (2) also reverberates in the numbering of Eq. (3) (which was correctly numbered in the discussion paper, p. 2656). In particular, the equation wrongly re-numbered as Eq. (5) in the article, p. 233,
$I R=e^{-b(R c)}$,
should be numbered as Eq. (3) (to which the remaining text in the article correctly refers, p. 233):
$I R=e^{-b(R c)}$.

