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Corrigendum to

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Unfortunately an error in Eq. (1) was not noticed during the editorial process. The average of the return periods is not calculated with the area \( A \) but with the number of pixels \( n \) (Müller and Kaspar, 2014). For pixels of a size of 1 km\(^2\) (e.g. RADOLAN or RADKLIM) \( n \) is identical to \( A \). When using other grids with different sizes, it is important to use \( n \).

Therefore Eq. (1) should be as follows:

\[
E_{t,A} = \frac{\sum_{i=1}^{n} \ln(T_{t,i})}{n} \cdot \frac{\sqrt{A}}{\sqrt{\pi}},
\]

where \( E_{t,A} \) describes the extremeness for a duration \( t \) and a spatial extent \( A \) and is the product of the mean of the common logarithm of the return periods \( T \) for a respective set of \( n \) pixels and a weighted measure of the area \( A \) (for which Müller and Kaspar, 2014, suggested the radius \( R \) of a circle whose area \( A \) is equal to the pixel group area).

References