

**Corrigendum: *Journal of Water and Climate Change* 13 (12), 4302–4316: A new method for assessment of regional drought risk: information diffusion and interval mapping adjustment based on k-means cluster points, Wentao Xu, Ming Tang and Yanlei Li, <http://dx.doi.org/10.2166/wcc.2022.345>**

The authors regret that there were some errors in the equations in section 2.2.4. of their original paper and apologise for any inconvenience caused. The corrected equations can be found below and have been updated in the online version of the paper.

- According to the principle of information diffusion, the information carried by the sample points  $(x_{1n}, x_{2n}, \dots, x_{mn})$  in  $P$  is allocated to the points in  $U_i$  according to  $\mu$  by the MND, the formula is as follows (Yu *et al.* 2020; Zhang *et al.* 2022):

$$\mu_{jk} = \frac{1}{2\pi h_1 h_2 \dots h_n} \exp \left[ -\frac{(u_{k1} - x_{j1})^2}{2h_1^2} - \frac{(u_{k2} - x_{j2})^2}{2h_2^2} - \dots - \frac{(u_{kn} - x_{jn})^2}{2h_n^2} \right] \quad (13)$$

The diffusion coefficient  $h_n$  is calculated by the following formula (Liu *et al.* 2018):

$$h_n = \begin{cases} 0.8146(b - a), n = 5 \\ 0.5690(b - a), n = 6 \\ 0.4560(b - a), n = 7 \\ 0.3860(b - a), n = 8 \\ 0.3362(b - a), n = 9 \\ 0.2986(b - a), n = 10 \\ 2.6851(b - a)/(n - 1), n \geq 11 \end{cases} \quad (14)$$

where  $b = \max_{1 \leq i \leq n} \{x_i\}$ ,  $a = \min_{1 \leq i \leq n} \{x_i\}$ .

- The information matrix  $Q$  of  $P$  on  $U$  is calculated according to Step (2), and the weight  $W$  of information assigned to each point in the domain is calculated as follows (Lu *et al.* 2014):

$$Q_j = \sum_{k=1}^t \mu_{jk} \quad (15)$$

$$W_{jk} = \frac{\mu_{jk}}{Q_j} \quad (16)$$