

Erratum “A microstructural approach to bed load transport: mean behaviour and fluctuations of particle transport rates”

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Typing errors have slipped into the content of the paper.
There is a sign error in (4.16), which should read

$$\frac{\partial}{\partial t} f(\mathbf{a}, t) = \sum_i \mu_i \frac{\partial^2 a_i f}{\partial a_i^2} - \frac{\partial}{\partial a_i} \{ [d_i(a_{i+1} + a_{i-1} - 2a_i) + \lambda'_i - a_i(\sigma_i - \mu_i)] f \}.$$

and the same arises in (4.17), which should read

$$da_i(t) = (d_i(a_{i+1} + a_{i-1} - 2a_i) + \lambda'_i - a_i(\sigma_i - \mu_i)) dt + \sqrt{2\mu_i a_i} dW_i(t),$$

On the same page (p. 145), there is a missing Δx . The sentence

“introduce the continuous function $b(x, t)$ which takes on values on each cell as follows: $b(x_i, t) = a_i$ ”

should read

“introduce the continuous function $b(x, t)$ which takes on values on each cell as follows: $b(x_i, t) = a_i/\Delta x$.”