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Experimental investigation of the wave-induced motion of and force distribution along a flexible stem – ERRATUM

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There is an error in Jacobsen *et al.* (2019), equation (3.2). The correct form is

$$\begin{aligned} \frac{\partial^4 x_{s,*}}{\partial z_*^4} &= \frac{\pi^2}{2} C_M \frac{CaL}{KC} \left(\frac{\partial u_*}{\partial t_*} - \frac{\partial^2 x_{s,*}}{\partial t_*^2} \right) + 2\pi \frac{\delta_x}{\delta_y} \frac{CaL}{KC} \left(\frac{\partial u_*}{\partial t_*} - \frac{\rho_s}{\rho} \frac{\partial^2 x_{s,*}}{\partial t_*^2} \right) \\ &+ \frac{1}{2} C_D CaL \left| u_* - \frac{\partial x_{s,*}}{\partial t_*} \right| \left(u_* - \frac{\partial x_{s,*}}{\partial t_*} \right). \end{aligned}$$

Here, $x_{s,*}$ is the non-dimensional horizontal displacement of the flexible stem, z_* is the non-dimensional vertical coordinate, C_M is the inertia (added mass) coefficient, CaL/KC is the inertia-to-stiffness ratio, u_* is the non-dimensional horizontal fluid velocity, t_* is the non-dimensional time, δ_x is the thickness of the stem, δ_y is the width of the stem, ρ_s is the density of the stem, ρ is the density of the water, C_D is the drag coefficient, and CaL is the drag-to-stiffness ratio.

REFERENCE

- JACOBSEN, N. G., BAKKER, W., UIJTTEWAAL, W. S. J. & UITTENBOGAARD, R. 2019 Experimental investigation of the wave-induced motion of and force distribution along a flexible stem. *J. Fluid Mech.* **880**, 1036–1069.