CORRIGENDUM

Viscous effects on transient long-wave propagation

By Philip L.-F. Liu and Alejandro Orfila

Journal of Fluid Mechanics, vol. 520 (2004), pp. 83–92

In the expression for the bottom shear stress (3.13) on page 89 the term for the depth-averaged initial velocity is missing from the right-hand side. The equation and the sentences following should be replaced by

$$\boldsymbol{\tau}_{\text{b}} = \frac{\partial \boldsymbol{u}_0^r}{\partial \eta}\bigg|_{\eta=0} = \frac{\overline{\boldsymbol{u}}(\boldsymbol{x}, t=0)}{\sqrt{t\pi}} + \frac{1}{\sqrt{\pi}} \int_0^t \frac{\partial \overline{\boldsymbol{u}}(\boldsymbol{x}, T)/\partial T}{\sqrt{t-T}} \, \mathrm{d}T \qquad (3.13)$$

where the first term on the right-hand side is the depth-averaged initial velocity weighted by $(\pi t)^{-1/2}$. The second term involves the local acceleration.

This error does not affect the subsequent analysis.