Dear Editor,

I am reaching out to clarify an error related to the input of a formula within the Appendix. Specifically, a negative sign was inadvertently entered as a positive sign as follows:

$\langle \frac{g}{\rho_0}\left(+\frac{\partial D}{\partial x}\int_{\sigma}^{0}\sigma_1\frac{\partial \rho}{\partial \sigma_1}d\sigma_1\right)\rangle / f$ should be updated to $\langle \frac{g}{\rho_0}\left(-\frac{\partial D}{\partial x}\int_{\sigma}^{0}\sigma_1\frac{\partial \rho}{\partial \sigma_1}d\sigma_1\right)\rangle / f$

$\langle \frac{g}{\rho_0}\left(+\frac{\partial D}{\partial y}\int_{\sigma}^{0}\sigma_1\frac{\partial \rho}{\partial \sigma_1}d\sigma_1\right)\rangle / f$ should be updated to $\langle \frac{g}{\rho_0}\left(-\frac{\partial D}{\partial y}\int_{\sigma}^{0}\sigma_1\frac{\partial \rho}{\partial \sigma_1}d\sigma_1\right)\rangle / f$

I wish to emphasize that the calculation of each term in the momentum equations featured in the appendix, including the correction terms, was accurately conducted using the correct expressions directly derived from the FVCOM model's output. Hence, this error does not impact the results or conclusions of our study in any way. The error occurred exclusively because of an incorrect entry during the manual transcription of the formula into the Word document.
Sincerely,

Fangjing Deng