

Dear Editor,

During the proof reading process we have identified some typos in the formulae that should be corrected prior to publication. These changes do not impact the results, conclusions or discussion of the paper. Regrettably, we did not notice these errors when we originally submitted the manuscript to AMT and the errors were not noticed by the reviewers. Below we list the original and corrected equations with the problem section highlighted in yellow.

1) The most significant oversight occurs in Eq. (18) and (19), where the term w_{i+h} should be changed to w_{i+p} to match the summation variable. Before submission to AMT, these formulae used an “h” instead of a “p” for the time lag variable, but this was later changed to a “p” (“h” is used for boundary layer height in the results and discussion section). Unfortunately, we missed changing one instance of “h” in the formulae.

Original Eq. (18): $\hat{\gamma}_{w,w}(p) = \frac{1}{N-p} \sum_{i=1}^{N-p} (w_i - \bar{w})(w_{i+h} - \bar{w})$

Corrected Eq. (18): $\hat{\gamma}_{w,w}(p) = \frac{1}{N-p} \sum_{i=1}^{N-p} (w_i - \bar{w})(w_{i+p} - \bar{w})$

Original Eq. (19): $\hat{\gamma}_{q,w}(p) = \frac{1}{N-p} \sum_{i=1}^{N-p} (q_i - \bar{q})(w_{i+h} - \bar{w})$

Corrected Eq. (19): $\hat{\gamma}_{q,w}(p) = \frac{1}{N-p} \sum_{i=1}^{N-p} (q_i - \bar{q})(w_{i+p} - \bar{w})$

2) In Eq. (14) and on the line immediately after Eq. (14), the variable ψ_0 should be changed to ψ . While this is not a crucial change since we do give the value of this variable explicitly in the text, it could be confusing to the reader. ψ_0 is used to represent the scaled and translated version of the Morlet wavelet function, but this value is based on the unscaled and untranslated version of the function, which is given the variable ψ in the text.

Original Eq. (14): $x_n^f = \frac{\Delta j \sqrt{\Delta t}}{c_\delta \psi_0(0)} \sum_{j=J_{\min}}^{J_{\max}} \frac{1}{\sqrt{a_j}} \Re[G_n^x(a_j)]$

Corrected Eq. (14): $x_n^f = \frac{\Delta j \sqrt{\Delta t}}{c_\delta \psi(0)} \sum_{j=J_{\min}}^{J_{\max}} \frac{1}{\sqrt{a_j}} \Re[G_n^x(a_j)]$

Originally, immediately below Eq. (14): “where $\psi_0(0) = \pi^{-0.25}$ for the Morlet wavelet.”

Corrected immediately below Eq. (14): “where $\psi(0) = \pi^{-0.25}$ for the Morlet wavelet.”

3) In Eq. (20) there is a prime missing on one of the variables in the expanded terms. This should be corrected for accuracy.

Original Eq. (20): $\gamma_{w,w}(\tau) = \overline{(w' + \epsilon')(w'_{t+\tau} + \epsilon'_{t+\tau})} = \overline{w'w'_{t+\tau}} + \overline{w'\epsilon'_{t+\tau}} + \overline{w'_{t+\tau}\epsilon'} + \overline{\epsilon'\epsilon'_{t+\tau}}$

Corrected Eq. (20): $\gamma_{w,w}(\tau) = \overline{(w' + \epsilon')(w'_{t+\tau} + \epsilon'_{t+\tau})} = \overline{w'w'_{t+\tau}} + \overline{w'\epsilon'_{t+\tau}} + \overline{w'_{t+\tau}\epsilon'} + \overline{\epsilon'\epsilon'_{t+\tau}}$