



## *Corrigendum to*

# “Significance tests for the wavelet power and the wavelet power spectrum” published in *Ann. Geophys.*, 25, 2259–2269, 2007

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Zhang and Moore’s comment on Ge (2007) correctly pointed out that a factor of  $\delta t$  is redundant in Eq. (18). Since this error affects multiple equations, they are corrected as follows.

The claim that wavelet coefficients defined and calculated by Torrence and Compo (1998),  $W_n(a)$ , should be adjusted with  $\delta t$  to be equal to the wavelet coefficient  $T_n(a)$  (or  $T(a, b)$ ) should be withdrawn. In fact, as apposed to Eq. (A3),  $W_n(a) = T_n(a)$ . This correction affects part of Sect. 2 and Appendix A.

A factor of  $\delta t$  should be dropped from Eqs. (13), (14), (16)–(18), (21), (34), (36), and (B1).

A factor of  $\delta t^2$  should be dropped from Eqs. (24), (25), (29)–(33), (C1), and (C6)–(C8). For Eqs. (C6) and (C7), no changes to the exponents are needed.

Similarly, expressions in discussions and intermediate steps should have  $\delta t$  dropped from statistics having the dimension squared  $T(a, b)$ , and should have  $\delta t^2$  dropped from those having the dimension  $T(a, b)$  to the fourth power.

Patterns in the figures remain correct, but both calculated statistics based on wavelet coefficients and the associated significance levels have been mistakenly multiplied by  $\delta t$  or  $\delta t^2$ .

## References

- Ge, Z.: Significance tests for the wavelet power and the wavelet power spectrum, *Ann. Geophys.*, 25, 2259–2269, doi:10.5194/angeo-25-2259-2007, 2007.
- Torrence, C. and Compo, G. P.: A practical guide to wavelet analysis, *B. Am. Meteorol. Soc.*, 79, 61–78, 1998.
- Zhang, Z. and Moore, J. C.: Comment on “Significance tests for the wavelet power and the wavelet power spectrum” by Ge (2007), *Ann. Geophys.*, 30, 1743–1750, doi:10.5194/angeo-30-1743-2012, 2012.