

CORRIGENDUM

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Our published paper (Wills et al. 2017) contains typos in Eqs. (11) and (A8). Here, we correct and clarify these equations. These errors were not present in the associated analysis code and therefore do not affect the results or conclusions of Wills et al. (2017). Equation (11) of Wills et al. (2017) should be replaced with

$$\omega^*(\mathbf{x}, p) \approx -p_s \Omega_1(p) \nabla \cdot \mathbf{u}_1(\mathbf{x}). \quad (1)$$

The extra factor of surface pressure p_s on the right-hand side is needed for the first baroclinic vertical wind mode $\Omega_1(p)$ to be unitless. Note that \mathbf{u}_1 is in units of meters per second. Equation (A8) of Wills et al. (2017) should be replaced with

$$A_1^+ = \int_{p_s}^p \frac{A_1}{p} dp. \quad (2)$$

The extra factor of $1/p$ in the integrand is needed to give A_1^+ the same units as the first baroclinic temperature mode A_1 .

To avoid any further confusion on units, we would also like to clarify that (as already stated in the published paper) temperature T and specific humidity q are in their native units in appendix A of Wills et al. (2017) but in dimensionless units in the main text of Wills et al. (2017).

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REFERENCE

Wills, R. C., X. J. Levine, and T. Schneider, 2017: Local energetic constraints on Walker circulation strength. *J. Atmos. Sci.*, **74**, 1907–1922, <https://doi.org/10.1175/JAS-D-16-0219.1>.

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