

## CORRIGENDUM

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(Manuscript received 11 September 2019, in final form 31 October 2019)

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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).

*Acknowledgments.* Thanks to Chen-shuo Fan for pointing out the errors in our published manuscript.

### 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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