



Corrigendum to “The Dynamics and Variability Model Intercomparison Project (DynVarMIP) for CMIP6: assessing the stratosphere–troposphere system” published in Geosci. Model Dev., 9, 3413–3425, 2016

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An important step in the Appendix of “The Dynamics and Variability Model Intercomparison Project (DynVarMIP) for CMIP6: assessing the stratosphere–troposphere system” by E. P. Gerber and E. Manzini, published in Geosci. Model Dev., 9, 3413–3425, 2016, doi:10.5194/gmd-9-3413-2016, was incorrectly reported.

While Eq. (A15) (p. 3422, left column) is rightly an expression of the Eliassen–Palm flux divergence in log-pressure coordinates, it is incorrect to associate it with the tendency of eastward wind due to the Eliassen–Palm flux divergence, as done on p. 3422, right column. Consequently, two corrections are necessary.

1. The text and equation at p. 3422, left column, “The Eliassen–Palm divergence in log-pressure coordinate is

$$\nabla_{(z)} \cdot \hat{\mathbf{F}} = \frac{\partial \hat{F}_{(\phi)} \cos \phi}{a \cos \phi \partial \phi} + \frac{\partial \hat{F}_{(z)}}{\partial z} = \frac{p}{p_0} \nabla \cdot \mathbf{F} \quad (\text{A15})$$

is unnecessary. It should be replaced with “The tendency of eastward wind due to the Eliassen–Palm flux divergence is

$$\left. \frac{\partial \bar{u}}{\partial t} \right|_{\nabla \cdot \mathbf{F}} = \frac{\nabla \cdot \mathbf{F}}{a \cos \phi}, \quad (\text{A15})$$

with $\nabla \cdot \mathbf{F}$ the Eliassen–Palm flux divergence in pressure coordinates (Eq. A5).”

2. The sentence on p. 3422, right column that reads “ $\nabla_{(z)} \cdot \hat{\mathbf{F}} \rightarrow$ utendepfd, tendency of eastward wind due to EP flux divergence, Eq. (15)” is incorrect. It should read “ $\left. \frac{\partial \bar{u}}{\partial t} \right|_{\nabla \cdot \mathbf{F}} \rightarrow$ utendepfd, tendency of eastward wind due to EP flux divergence, Eq. (15)”.