

Correction to “Atmospheric dynamics of Earth-like tidally locked aquaplanets”

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Received 13 January 2012; published 9 March 2012.

Citation: Merlis T. M. and Schneider T. (2012), Correction to “Atmospheric dynamics of Earth-like tidally locked aquaplanets”, *J. Adv. Model. Earth Syst.*, 4, M03002, doi:10.1029/2012MS000151

[1] In the paper “Atmospheric dynamics of Earth-like tidally locked aquaplanets” by Timothy M. Merlis and Tapio Schneider (*Journal of Advances in Modeling Earth Systems*, 2, 13, doi:10.3894/JAMES.2010.2.13, 2010), the shortwave optical depth $\tau_s=0.22$ is missing from the expression (2.2) for the solar radiative flux. The second paragraph of section 2.1 should read:

[2] Absorption of solar radiation in the atmosphere is represented by attenuation of the downward flux of radiation with an optical depth that varies quadratically with pressure, so that

$$S(p) = S_{\text{TOA}} \exp \left[-\tau_s \left(\frac{p}{p_0} \right)^2 \right], \quad (2.2)$$

with $p_0=10^5$ Pa and $\tau_s=0.22$.

[3] The general circulation model code that we have publicly distributed (<http://www.gps.caltech.edu/~tapio/gcms/index.html>) uses $\tau_s=0.22$ by default and will reproduce the simulation results presented in the paper.