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# Erratum: Grid of pseudo-2D chemistry models for tidally locked exoplanets – I. The role of vertical and horizontal mixing

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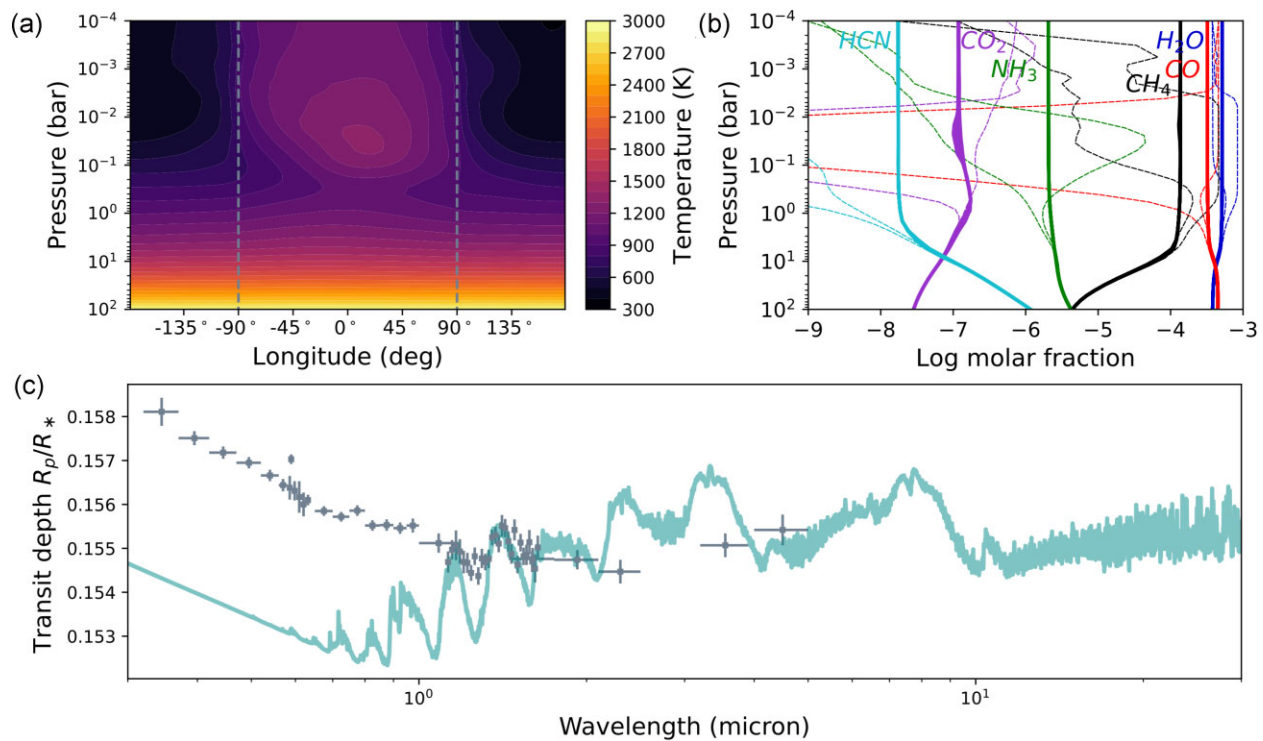
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**Figure 17.** Physical diagnostics for an HD 189733 b-like planet. This grid model has  $T_{\text{eff}} = 1200$  K,  $g = 10$  m s<sup>-2</sup> and host star type K5. Plotted are the meridional mean temperature used in the pseudo-2D chemistry code (a), the chemical composition (b), and the synthetic transmission spectrum, in a comparison with observations (c). The observational data (grey) are from Sing et al. (2016). The transmission spectrum is cloud-free, and does not contain Na/K opacities. In the chemistry plot, the equilibrium compositions of the morning and evening limb are plotted as thin dashed lines.

This is an erratum to the article *Grid of pseudo-2D chemistry models for tidally locked exoplanets – I. The role of vertical and horizontal mixing*, published in Monthly Notices of the Royal Astronomical Society, Volume 505, Issue 4, Pages 5603–5653, in August 2021. In fig. 17 (panel c) of our original paper, we erroneously plotted the observed transmission spectrum of HD 209458 b instead of HD 189733 b. This mistake only pertains to the observational data points of fig. 17 and the vertical shift applied to the model spectrum. The atmospheric models (panels a, b), the synthetic spectrum (panel c), and the caption are correct.

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Hereby we present the corrected Fig. 17, where the grey data points now represent the actual transmission spectrum of HD 189733 b by Sing et al. (2016). Given that the purpose of our study was not to fit the observed data, but rather to contextualize our atmospheric models by relating them to observations, the results and conclusions of our study are unaffected by this error. Our discussion of fig. 17, presented in section 5.3.2, likewise remains valid.

#### ACKNOWLEDGEMENT

We wish to thank Maria Zamyatina for noticing and pointing out the error in our figure.

#### REFERENCE

Sing D. K. et al., 2016, *Nature*, 529, 59

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