

Correction to "An improved parameterization for sulfuric acid/water nucleation rates for tropospheric and stratospheric conditions."

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In the paper "An improved parameterization for sulfuric acid/water nucleation rates for tropospheric and stratospheric conditions" by H. Vehkamäki et al. (Journal of Geophysical Research, Vol. 107. No. D22, doi, 4622, 2002) there are two typos in Eq.(15), the second term should have coefficient 11.7344 instead of 117.344, and the

penultimate term should read $\frac{854.98}{T} \log\left(\frac{RH}{100}\right)$ instead of

$854.98 \log\left(\frac{RH}{100}\right)T$. The corrected equation (15) reads

$$\begin{aligned}
 N_n^{J=1} [1/\text{cm}^3] = & -279.243 + 11.7344 \frac{RH}{100} \\
 & + \frac{22700.9}{T} - \frac{1088.64}{T} \frac{RH}{100} + 1.14436 T \\
 & - 0.0302331 \frac{RH}{100} T - 0.00130254 T^2 \\
 & - 6.38697 \log\left(\frac{RH}{100}\right) + \frac{854.98}{T} \log\left(\frac{RH}{100}\right) \\
 & + 0.00879662 T \log\left(\frac{RH}{100}\right)
 \end{aligned}$$