Corrigendum

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In Vadas and Fritts (2001), we presented the 3D analytic, Boussinesq solutions to smoothly varying body forces and heatings in the atmosphere. In Eq. (3.12), there is a term missing in the expression for the pressure perturbation created during a forcing/heating \((0 \leq t \leq \sigma)\). This term is only important for vertical body forces. The corrected Eq. (3.12) is

\[
\tilde{P}(t) = \frac{i}{m} \left[ \frac{\tilde{F}_z}{\sigma} (1 - \cos\hat{\alpha}t) + \frac{j}{\sigma} \left( t - \frac{\sin\hat{\alpha}t}{\hat{\alpha}} \right) - \frac{N^2}{\sigma \omega^2} (B_F t + A_F) \right] \\
- \frac{id}{m} \left\{ A_F \left[ \omega^2 (N^2 - \hat{\alpha}^2) \cos\hat{\alpha}t - \hat{\alpha}^2 (N^2 - \omega^2) \cos\omega t \right] \\
+ B_F \left[ \omega^2 \hat{\alpha}^{-1} (N^2 - \hat{\alpha}^2) \sin\hat{\alpha}t - \hat{\alpha}^2 \omega^{-1} (N^2 - \omega^2) \sin\omega t \right] \right\}. \tag{3.12}
\]

In addition, for clarity, the expressions for \(\tilde{F}_z\) and \(\tilde{F}_\delta\) are

\[
i\tilde{F}_z = kF_y - lF_x, \\
i\tilde{F}_\delta = kF_x + lF_y + mF_z.
\]

Finally, the factor \(1/(2\pi^3)\) should multiply the right-hand side of the second line in Eq. (3.25).

REFERENCE


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