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 ($0 \le t \le \sigma$). This term is only important for vertical body forces. The corrected Eq. (3.12) is

$$\begin{split} \tilde{P}(t) &= \frac{i}{m} \left[\frac{\widetilde{F_z}}{\sigma} (1 - \cos \hat{a}t) + \frac{\widetilde{J}}{\sigma} \left(t - \frac{\sin \hat{a}t}{\hat{a}} \right) - \frac{N^2}{\sigma \omega^2} (B_{\rm F} t + A_{\rm F}) \right] \\ &- \frac{iD}{m} \left\{ A_{\rm F} [\omega^2 (N^2 - \hat{a}^2) \cos \hat{a}t - \hat{a}^2 (N^2 - \omega^2) \cos \omega t] \right. \\ &+ B_{\rm F} [\omega^2 \hat{a}^{-1} (N^2 - \hat{a}^2) \sin \hat{a}t - \hat{a}^2 \omega^{-1} (N^2 - \omega^2) \sin \omega t] \right\}. \end{split}$$
(3.12)

In addition, for clarity, the expressions for \tilde{F}_{ζ} and \tilde{F}_{δ} are

$$\begin{split} &i\widetilde{F}_{\zeta} = k\widetilde{F}_{y} - l\widetilde{F}_{x}, \\ &i\widetilde{F}_{\delta} = k\widetilde{F}_{x} + l\widetilde{F}_{y} + m\widetilde{F}_{z} \end{split}$$

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

REFERENCE

Vadas, S. L., and D. C. Fritts, 2001: Gravity wave radiation and mean responses to local body forces in the atmosphere. J. Atmos. Sci., 58, 2249–2279.

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