

CORRIGENDUM

Dr. Chung-Chieng Lai (State University of New York at Albany) has called our attention to two errors in the first two equations of appendix C of the paper "The diagnosis of synoptic-scale vertical motion in an operation environment" by Dale R. Durran and Leonard W. Snellman (*Weather and Forecasting*, 2, 17-31).

In order to properly represent the fields plotted in Fig. 12, the first two equations in appendix C should read

$$h(x, y, 500) = 5370 - 143 \tan^{-1} \left[\frac{\pi(y - y_c)}{2\,000\,000} \right] \\ - 160 \left[\left(\frac{x - x_c - x_0}{400\,000} \right)^2 + \left(\frac{y - y_c}{500\,000} \right)^2 + 1 \right]^{-1},$$

$$T(x, y, 500) = 245 - 14.3 \tan^{-1} \left[\frac{\pi(y - y_c)}{2\,000\,000} \right] \\ - 18 \left[\left(\frac{x - x_c + x_0}{400\,000} \right)^2 + \left(\frac{y - y_c}{500\,000} \right)^2 + 1 \right]^{-1},$$

where x and y represent Cartesian coordinates (in kilometers) which are mapped to the spherical earth using the (artificial) assumption that the spacing between two lines of longitude is a constant 111 km throughout the domain.

Two other typographical errors appear in the equations in appendix B. First, the leading factor in the first term of (B7) should be $1/(a^2 \cos \phi)$. Second, the expression $r(x)^x$ on the left-hand side of (B10) should be $\overline{r(x)^x}$.