Corrigendum

In Chapter 2, Governing Equations, the correct equation (2.33) should be:

$$F_{V_{cor}} = -\left(f + u\frac{\partial m}{\partial y} - v\frac{\partial m}{\partial x}\right)U + eW\sin\alpha_r - \frac{vW}{r_e}$$

In Chapter 3, Model Discretization, the correct equations (3.12) and (3.26) are:

$$\delta_\tau\phi'' + \frac{1}{\mu_d^{t^*}}[m\Omega''^{\tau+\Delta\tau}\phi_\eta - \overline{gW''}^\tau] = R_\phi{}^{t^*}$$

$$\delta_\tau\phi'' + \frac{1}{\mu_d^{t^*}}[m\Omega''^{\tau+\Delta\tau}\delta_\eta\phi - \overline{gW''}^\tau] = R_\phi{}^{t^*}$$

Also in Chapter 3, page 18, the correct equation for V component of the Coriolis and curvature term is

$$F_{V_{cor}} = -\left(\overline{f}^y + \overline{\overline{u}^x\delta_y m - \overline{v}^y\delta_x m}^y\right)\overline{U}^{xy} + \overline{e}^y\overline{W}^{y\eta}\,\overline{\sin\alpha_r}^y - \frac{v\overline{W}^{y\eta}}{r_e}$$

In Chapter 4, Turbulent Mixing and Model Filters, the term D in equation (4.6) has been corrected to:

$$D = \frac{1}{2}\left[D_{11}^2 + D_{22}^2 + D_{33}^2\right] + \left(\overline{D_{12}}^{xy}\right)^2 + \left(\overline{D_{13}}^{x\eta}\right)^2 + \left(\overline{D_{23}}^{y\eta}\right)^2$$