


$$\omega^2 = \frac{1}{\rho} \left(\frac{\partial T}{\partial x} + \frac{\partial S}{\partial y} + \frac{\partial R}{\partial z} \right) = \frac{1}{\rho} \left(\frac{\partial}{\partial x} \left(-\frac{\partial p}{\partial x} \right) + \frac{\partial}{\partial y} \left(-\frac{\partial p}{\partial y} \right) + \frac{\partial}{\partial z} \left(-\frac{\partial p}{\partial z} \right) \right) = -\frac{1}{\rho} \nabla^2 p$$

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