

$$\begin{aligned}
\vec{f} \times \vec{u} &\approx \beta \vec{y} \times \vec{u}_2 = g' \vec{k} \times \nabla \eta \\
q &= \beta y + \left[\nabla^2 + \frac{\partial}{\partial z} \left(\frac{f_0^2}{N^2} \frac{\partial}{\partial z} \right) \right] \psi \\
\omega &= \frac{Ro}{k^2} \frac{fL}{fL} \psi \\
B &= \frac{\vec{v}^2}{2} + c_p T + gz = \text{const} \\
C &= \oint \vec{v} \cdot d\vec{l} \\
\frac{D\theta}{Dt} &= \frac{1}{c_p} + \left(\frac{\theta}{T} \right) \frac{D}{Dt} \left(\frac{\omega}{\rho} \right) \\
\theta &= T \left(\frac{p_0}{p} \right) \\
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\end{aligned}$$