

MTEOR 3110 - Potential Final Exam Equation Sheet

Potentially Useful Equations

$$1 \text{ knot} = 1.15 \text{ mph}$$

$$\Omega = 7.29 \times 10^{-5} \text{ s}^{-1}$$

$$1 \frac{cm}{s} \sim -1 \frac{\mu b}{s}$$

$$|V_g| = \left| -\frac{1}{f} \frac{\partial \phi}{\partial n} \right|$$

$$|V_g| = \left| -\frac{1}{\rho f} \frac{\partial p}{\partial n} \right|$$

$$V_{gr} = -\frac{fR}{2} \pm \left(\frac{f^2 R^2}{4} - R \frac{\partial \phi}{\partial n} \right)^{0.5}$$

$$\omega_2 = \omega_1 - \left(\bar{\delta} \Delta P \right)$$

Have a safe and happy holiday!!