


Westward Phase Propagation


$$u_{\text{north}} = -\frac{g}{f(y+\delta y)} \frac{\partial \eta}{\partial y} < u_{\text{south}}$$

Convergence of fluid

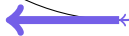
$$\therefore \frac{\partial h}{\partial t} > 0$$

Divergence of fluid

$$\therefore \frac{\partial h}{\partial t} < 0$$

High η

Medium η


$$u_{\text{south}} = -\frac{g}{f(y)} \frac{\partial \eta}{\partial y} > u_{\text{north}}$$

Low η