Linear Waves

ISWs:
amplitudes
bounded above
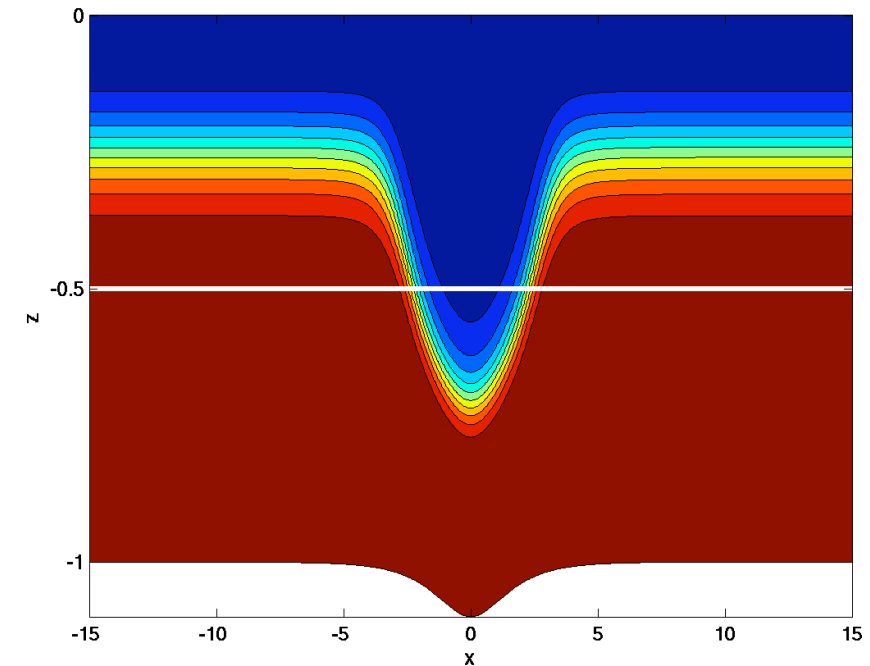by conjugate flow
amplitude

Trapped Waves:
larger than largest
ISW

Linear Waves

$$\phi_{zz} + \left(\frac{N^2(z)}{c^2} - k^2 \right) \phi = 0$$

ISWs

$$\nabla^2 \eta + \frac{N^2(z - \eta)}{c^2} \eta = 0$$

Inflow speed: U

Linear
Longwave
Speed

Conjugate
flow
Speed