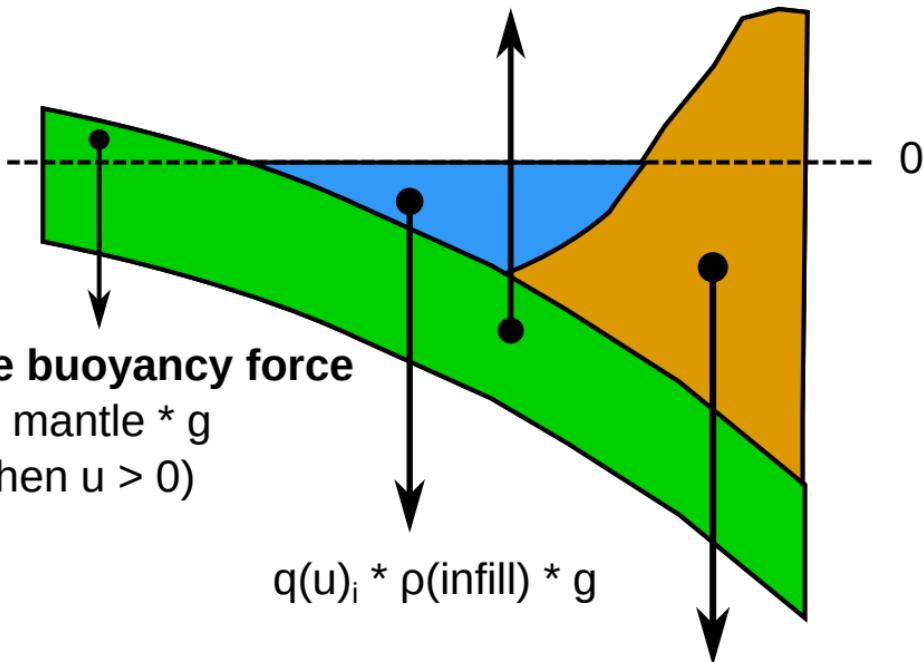


## Mantle buoyancy force

$$k u * \rho_{\text{mantle}} * g \text{ (+ve when } u < 0\text{)}$$



**distributed load** - may or may not be covered by additional sediment  
 $q_i * \rho(\text{fixed load}) * g$