

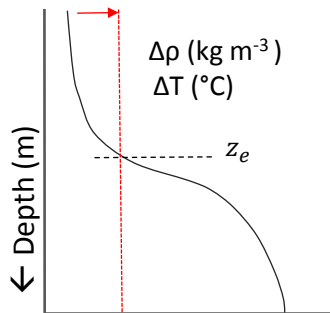
M1: Absolute difference from the surface

M2: Gradient from the surface

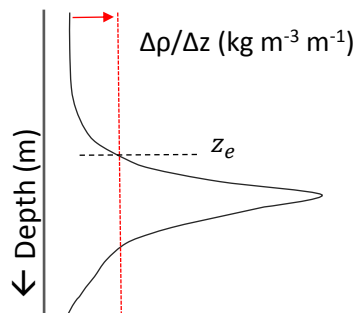
M3: Gradient from the pycnocline

M4: rLakeAnalyzer "meta.depths" function

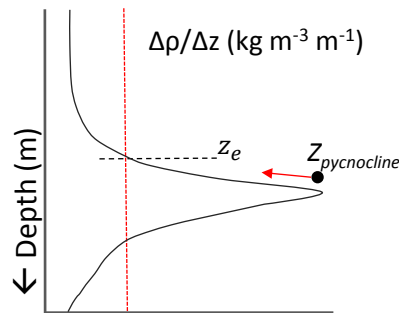
M5: Modelled turbulence method



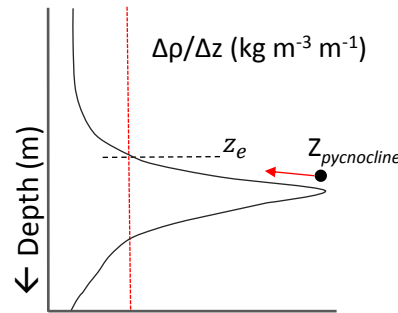
Density ( $\text{kg m}^{-3}$ ) →  
← Temp ( $^{\circ}\text{C}$ )



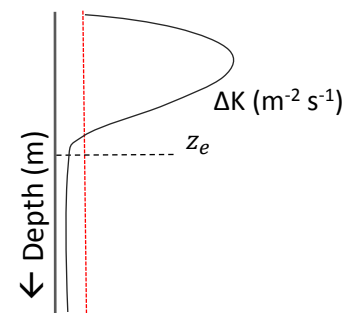
Density gradient ( $\text{kg m}^{-3} \text{m}^{-1}$ ) →



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Vertical diffusivity ( $\text{m}^2 \text{s}^{-1}$ ) →

**$\Delta\rho$**   
**( $\text{kg m}^{-3}$ )**  
0.025 0.125  
0.05 0.15  
0.075 0.175  
0.1 0.2

**$\Delta\rho/\Delta z$**   
**( $\text{kg m}^{-3} \text{m}^{-1}$ )**  
0.025 0.125  
0.05 0.15  
0.075 0.175  
0.1 0.2

**$\Delta K$**   
**( $\text{m}^2 \text{s}^{-1}$ )**  
 $2 \times 10^{-5}$   $6 \times 10^{-5}$   
 $3 \times 10^{-5}$   $7 \times 10^{-5}$   
 $4 \times 10^{-5}$   $8 \times 10^{-5}$   
 $5 \times 10^{-5}$   $9 \times 10^{-5}$

Water temperature/density profile data

Lake model data