

TCSEIS-1D



Load User Inputs:

- Define composition for each layer (C).
- Define thickness for each compositional boundary.
- Define temperature at the surface, LAB and CMB.
- Define surface-wave periods and number of modes
- Define receiver-functions sources depth and distance.
- Define radial anisotropy.



Solve the **Heat Equation** (T) and
compute pressure (P) and ρ .
- Use P to distribute C in the mantle

Repeat 3 times to
achieve convergence



Use \mathcal{TPE} to compute V_p , V_s , ρ , Q_s



Compute surface-wave dispersion
curves for the model



Compute receiver-functions
for the model



Plot Figures and Write Output