

INPUT SOURCE TERMS

- (i) Channel dimensions (w, h)
- (ii) Slope (α)
- (iii) Eruption temperature (T_{erupt})
- (iv) Crystal content on eruption (ϕ_{erupt})
- (v) Vesicularity (ϕ_b), DRE density (ρ_{DRE}), Bulk density (ρ_{bulk})
- (vi) Melt Viscosity on eruption (η_0^{erupt})
- (vii) Temperature at the base (T_{base})
- (viii) Thermal conductivity k using Eq. 18.
- (ix) Flow base height h_{base} using Eq. 17
- (x) Wind speed (U) and air temperature (T_{amb})
- (xi) Distance increment to be used (Δx)
- (xii) Total distance to be tested ($\Sigma(\Delta x)$)

MAIN LOOP

