Red values are from data files

Black values are set parameters

* Manually set some parameters
  + default x values to 0.6 cm (xu,inner, xd,inner, xu,outer, xu,outer)
  + heat pulse duration (t0) set to ?? seconds \*1 sec for now\*
  + measurement time (t) set to ?? seconds \*probably between 60 and 80 s\*\*
  + set thermal diffusivity (k) to 0.003 cm2 s-1 \*\*temporary place holder\*\*
* Load raw data sheet
  + Fix headers as needed
  + Fix column formatting as needed
  + Fix datetime formatting as needed
* Retain datetime and pivot longer to get single columns for alpha, beta, Tmax with new columns indicating probe letter and inner vs outer
* Apply both HRM and Tmax correction functions to each probe’s data (create two new columns)
  + , where tm is time to max temp (Tmax in raw data, only uses the downstream needle)
* Create a column (Vh,corr) that selects which V to use based on beta
  + If β ≤ 1 then Vh,corr = VHRM
  + Else Vh,corr = VTmax
  + NA handling?
* Plot VHRM, VTmax, and Vh,corr traces (facet by probe and inner/outer)

**To do later**

* Set k and K (for eqn 3 in Forester 2019, *Tree Physiology*) based on cited literature
* Flag HRM values greater than max Vh given k (see table 3 in Forster 2019, *Tree Physiology*)
* Add wounding correction to get sap velocity from heat velocity (as per
* Add inputs for k, K, rho, and c from core data (density, water content, etc.)