CR and Wr mismatches

1. check\_groundwater\_table (lines 83-86): This code should be removed as doesn’t seem to show up anywhere in Fortran code
   1. Removed for now (commented out), all proceeding tests have this removed
2. capillary\_rise (lines 68, 72): Check that the Ksat, aCR, and bCR parameters are being called correctly for the bottom compartment, including in scenarios where you have a multi-layered soil profile
   1. aCR and bCR manually hard-coded to match values for Clay-Loam from AQ-Win, actually uses the values from Sandy-Clayey soil
   2. All values (when printed here) match hard-coded values, incl. Ksat
   3. Only tested on single layer (Clay-Loam) so far, not yet fixed
3. capillary\_rise (lines 79-117): Code commented out and flagged as needing fixing. This code maps to subroutine calculate\_CapillaryRise in simul.f90 of the Fortran code
4. capillary\_rise (lines 129-135): Equation for driving force appears to be different than the Fortran code (see lines 2108-2115 of simul.f90). Check that the way Tom has coded is not leading to different number - it may be that the exp and log terms just rearrange and cancel
   1. What does ‘GetSimulParam\_RootNrDF represent (2107 in simul.f90)?
   2. Don’t think the exponential and log cancel out, removes the RootNrDF var
5. Same as (2) but for lines 180 and 184
   1. All values (when printed here) match hard-coded values, incl. Ksat