Start from the R script `unsat_dynamic.R`. In order to answer the following questions, you should make minimal changes to the code as provided.

1. Try at least 4 different soils and rank them in increasing reaction time. Does increase in reaction time also mean increase in damping?
2. Does very intermittent input show itself at the saturated groundwater level?
3. Does the wetness of the soil (background input) increase the reaction time?
4. What is the reaction of the system to a rainfall event on a soil that has capillary rise as background?