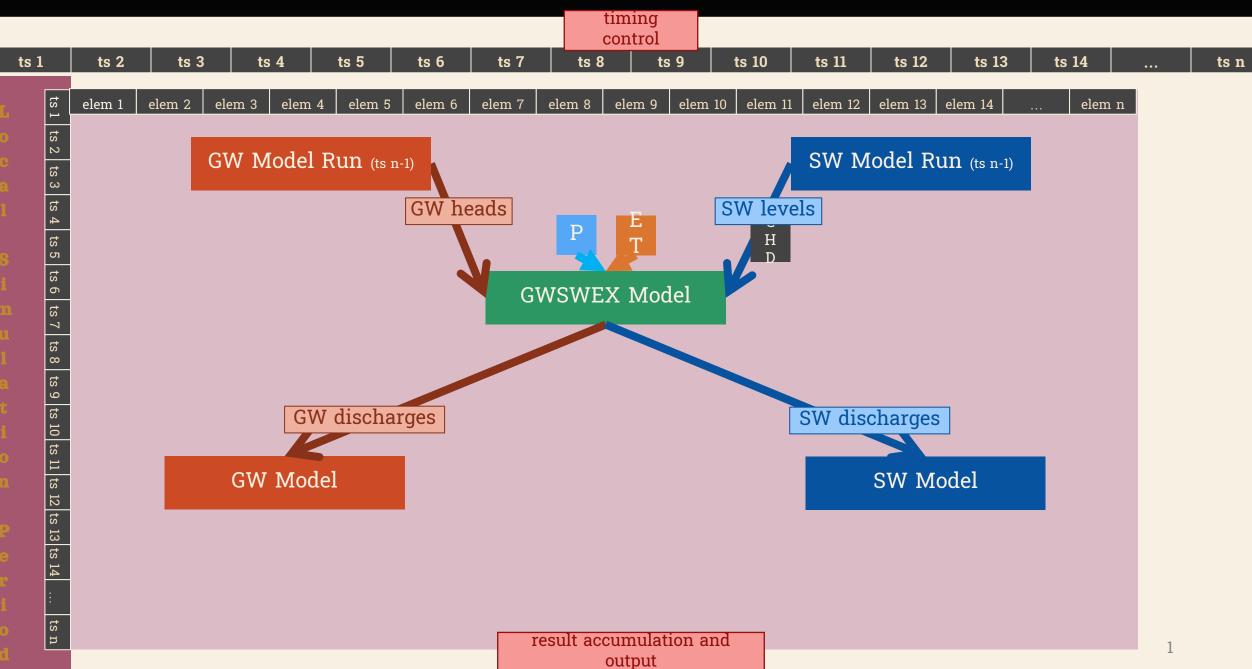
Global Simulation Period



Global Simulation Period

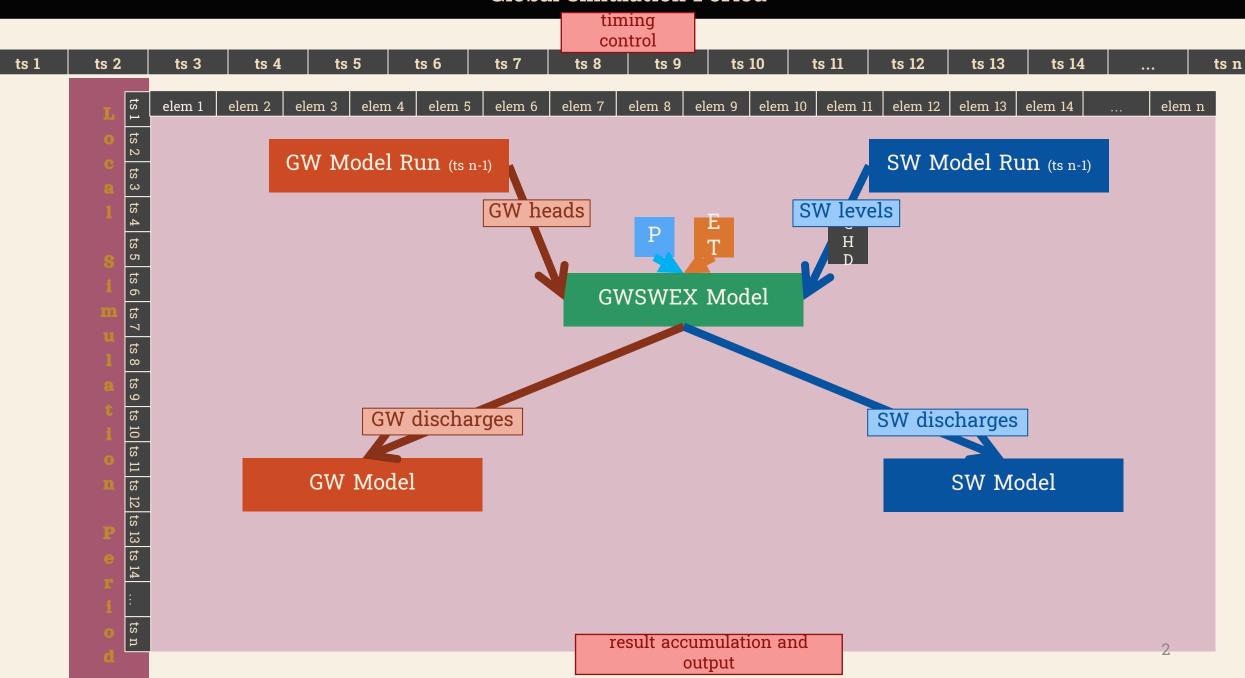
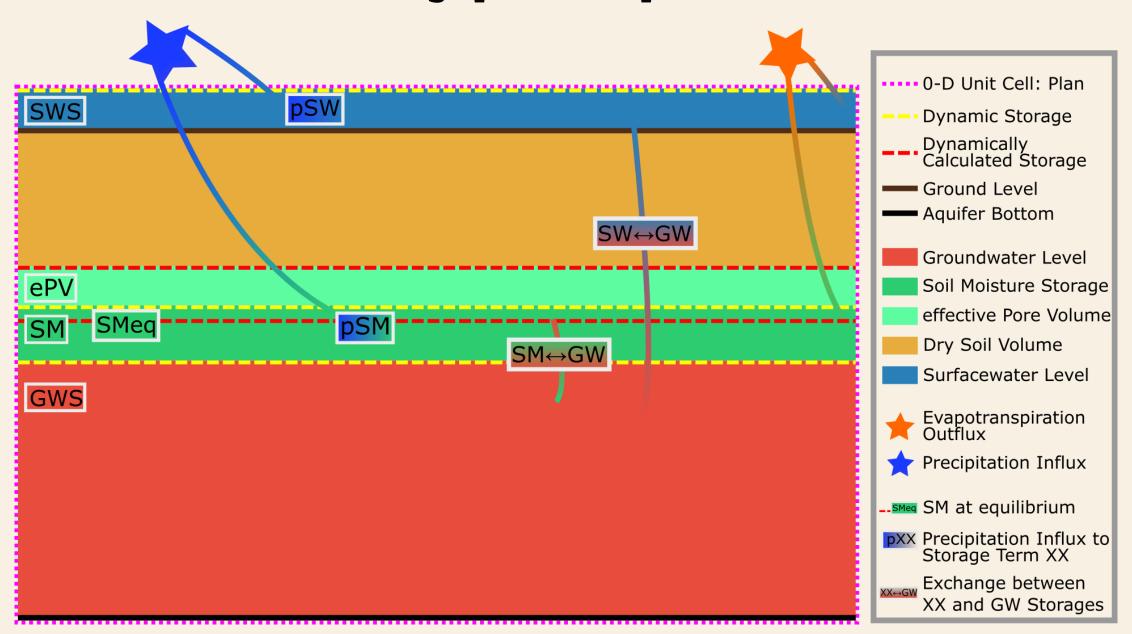
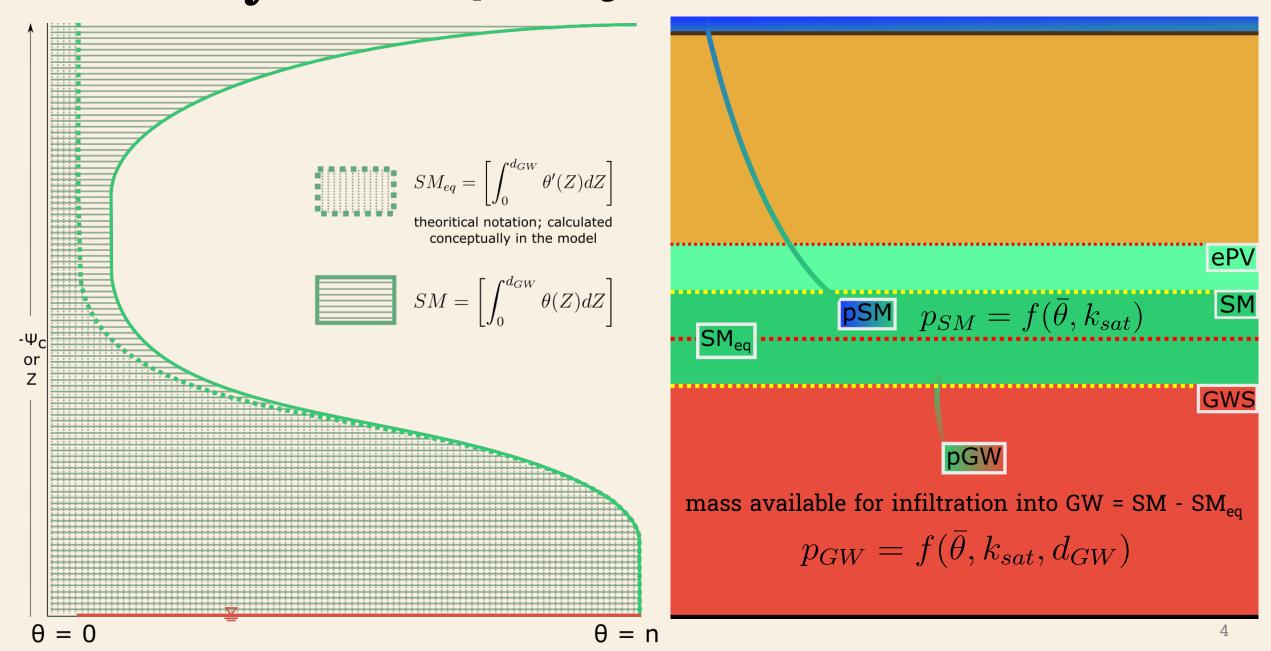


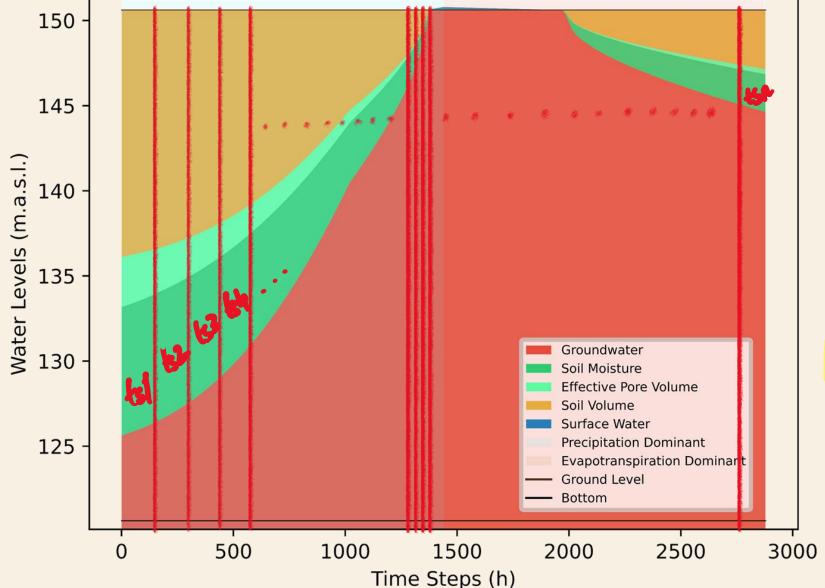
Illustration of the exchange processes per model element: GWSWEX



Model Physics: conceptualizing the Van Genuchten^[10] – Mualem Model ^[11]



Model Behaviour: Sample model element



- Buildable as a standalone Fortran 90 program or as a python importable Fortran module (f2py)
- Average execution time for a model with 10,000 model elements, and 3000 time-steps is ~90 min with no parallelization
- Parallelization can drastically reduce runtimes

