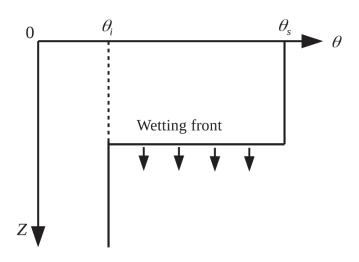


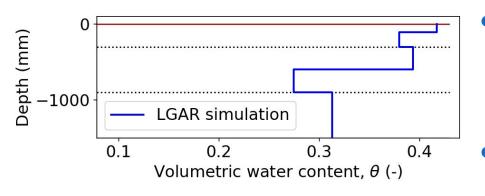
Green - Ampt like models



- models based on the GA concept simulate the motion of wetting fronts based on:
 - capillary suction
 - hydraulic conductivity



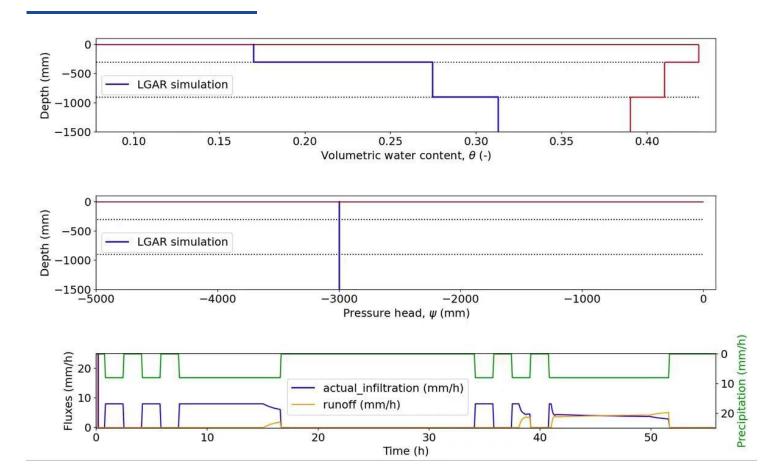
LGAR allows wetting fronts to propagate between soil layers



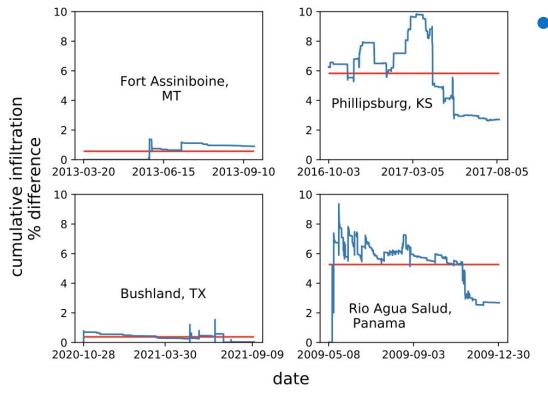
- models based on the GA concept simulate the motion of wetting fronts based on:
 - capillary suction
 - hydraulic conductivity
- LGAR allows wetting front propagation between soil layers



LGAR video



LGAR results match Richardson equation results



Cumulative infiltration difference between LGAR and the Richards' / Richardson equation is on average less than 6%



Computational advantage achieved

- faster than Richardson equation
 - rigorous speed comparisons are planned, preliminarily LGAR is usually several times faster than Richardson equation
- inherently stable and mass conservative
- increased speed with C conversion



