

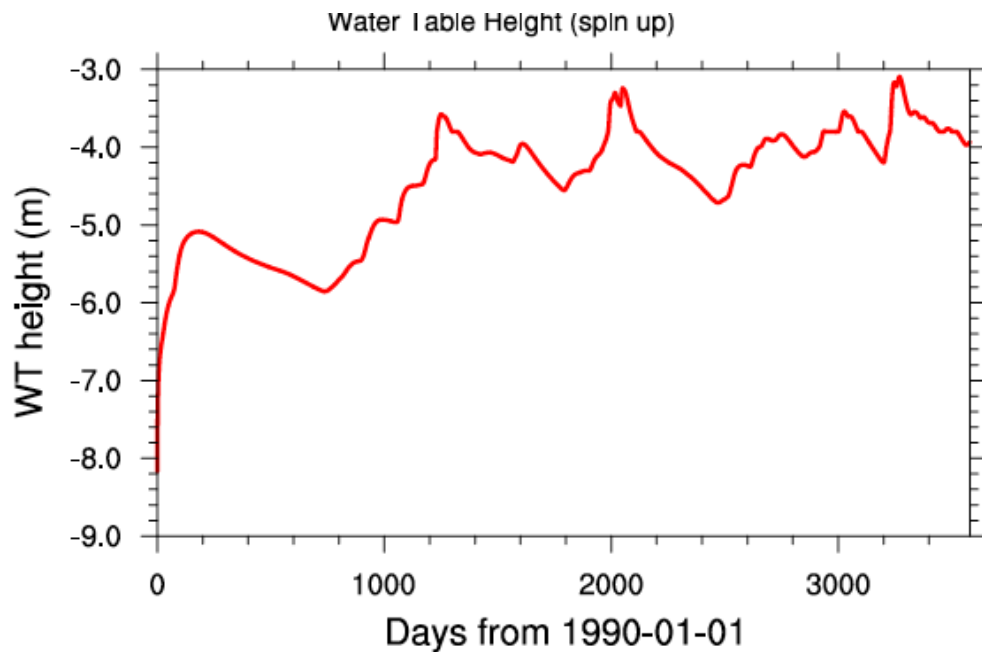
DICE Experiments

National Center for Atmospheric Research

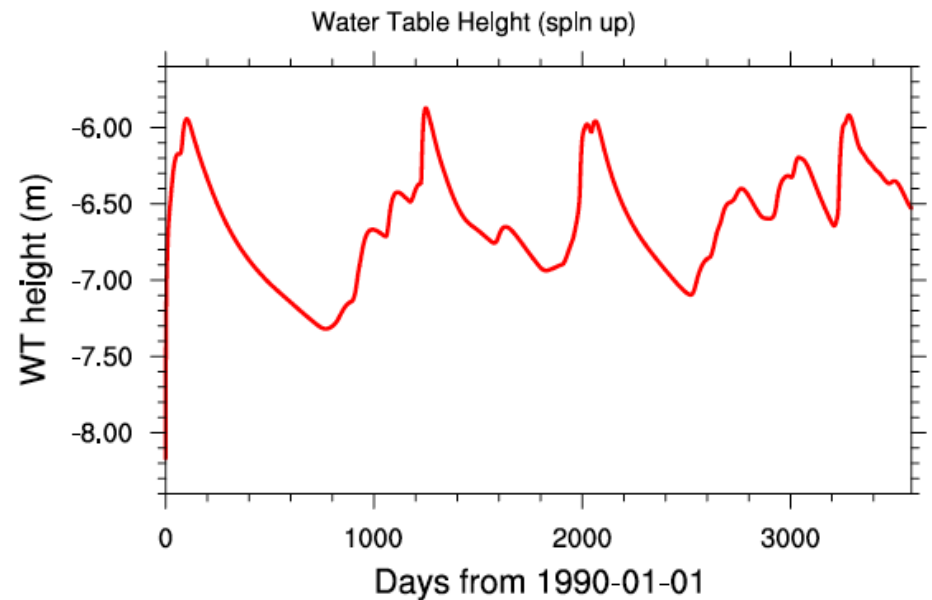
CLM 4.5

Sanjiv Kumar

Water Table Height – SpinUp (10 yrs)



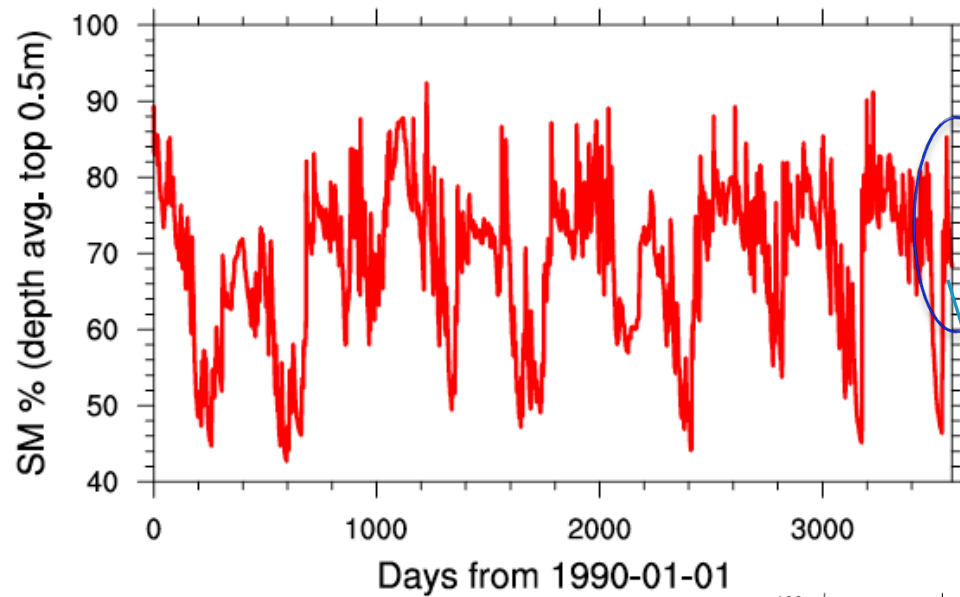
~4m Water Table Height



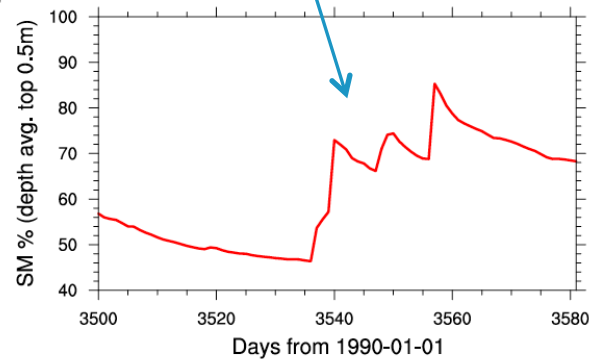
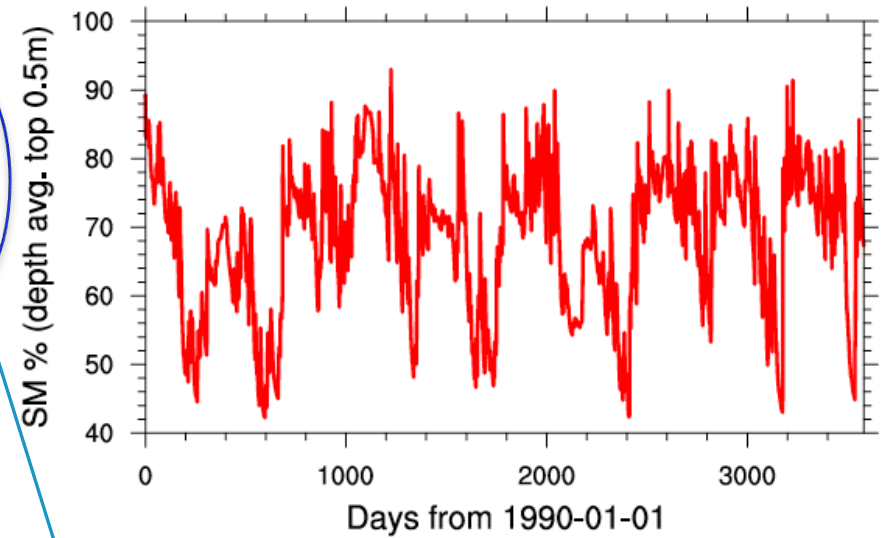
~6.5m Water Table Height

Root Zone Soil Moisture – SpinUp (10 yrs)

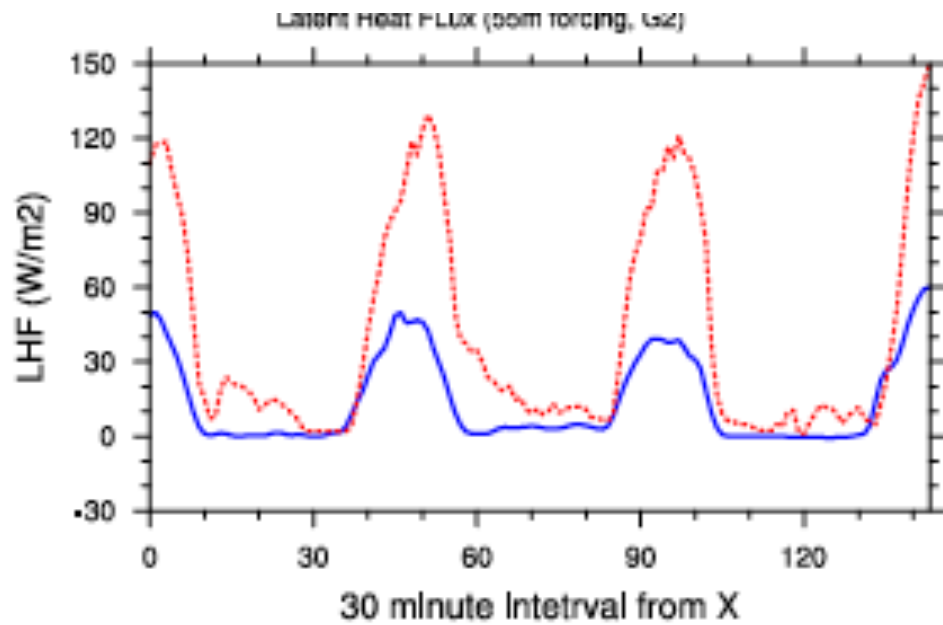
4m Water Table Height



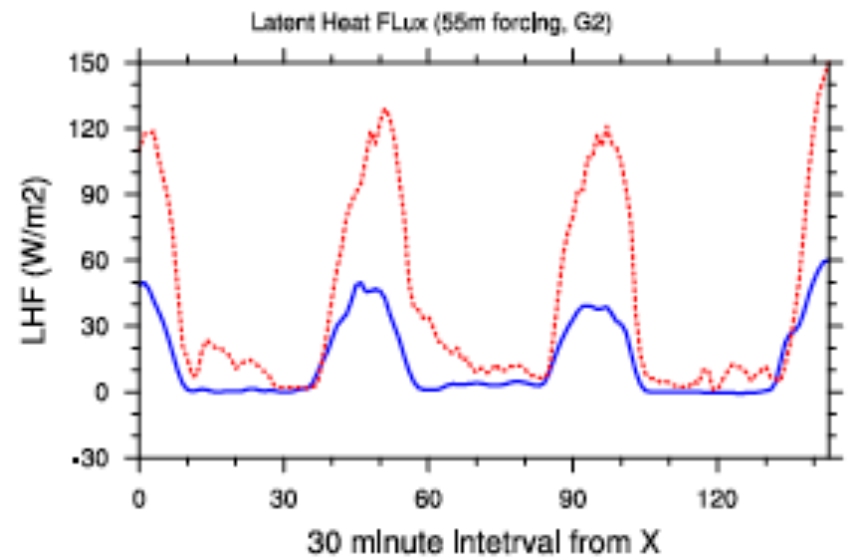
6.5m Water Table Height



3-days LHFLX

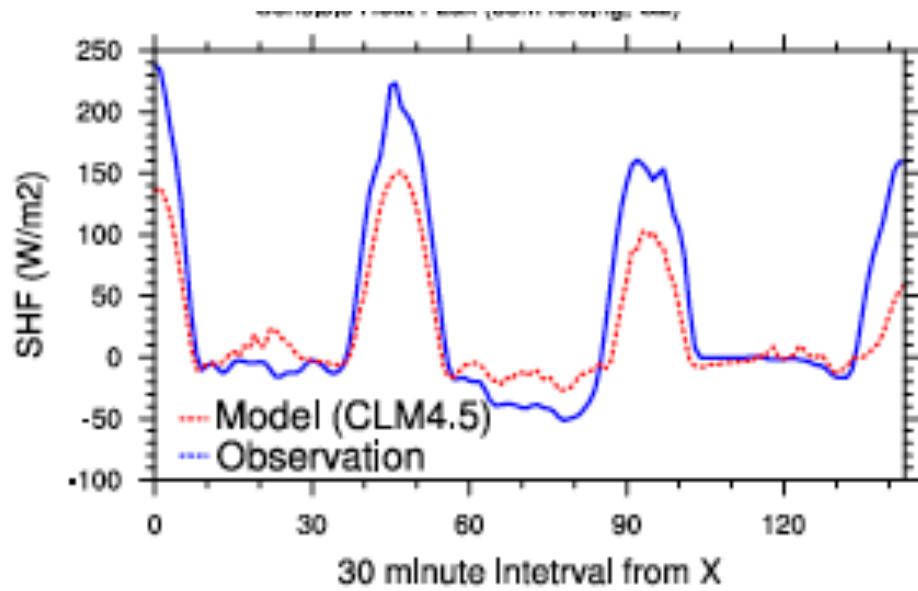


4m Water Table Height

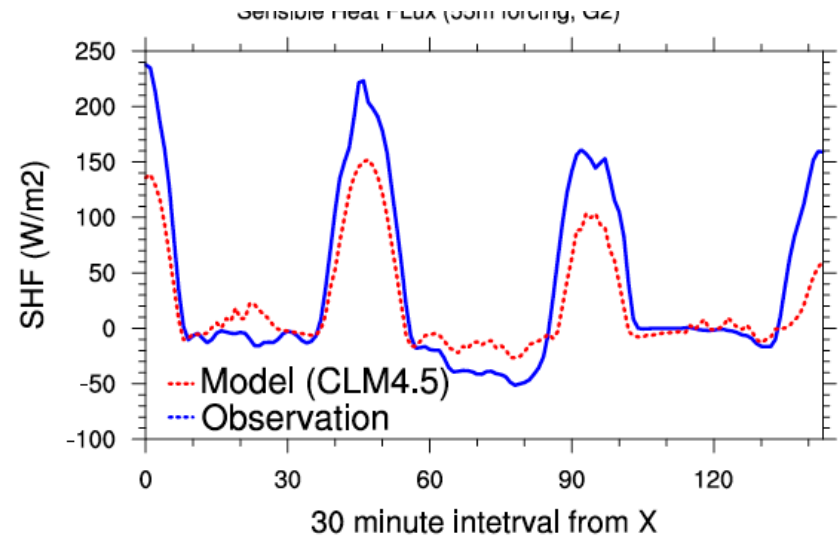


6.5m Water Table Height

3-days SHFLX

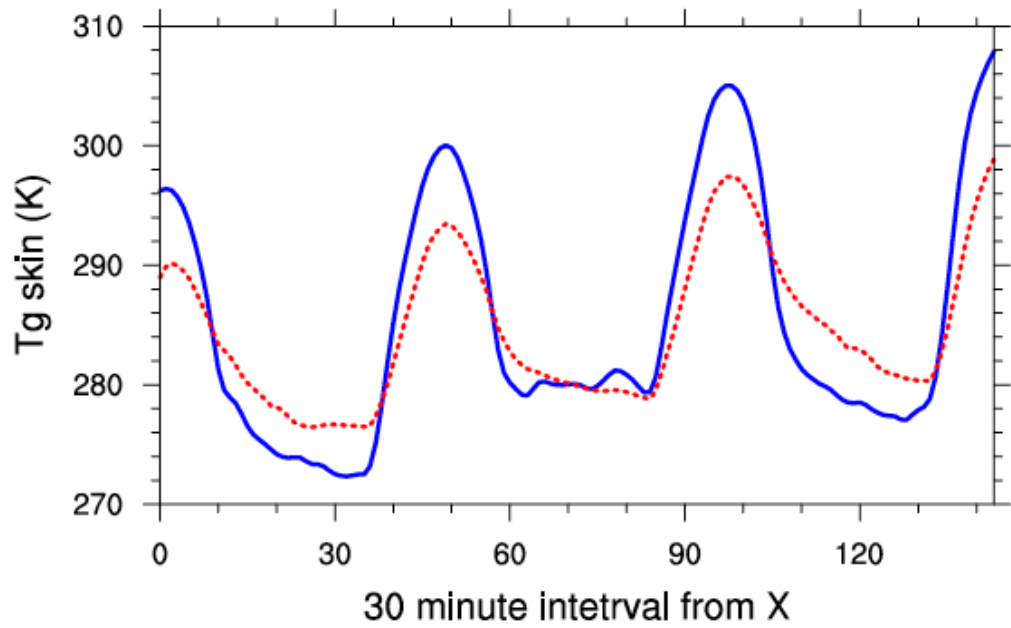


4m Water Table Height

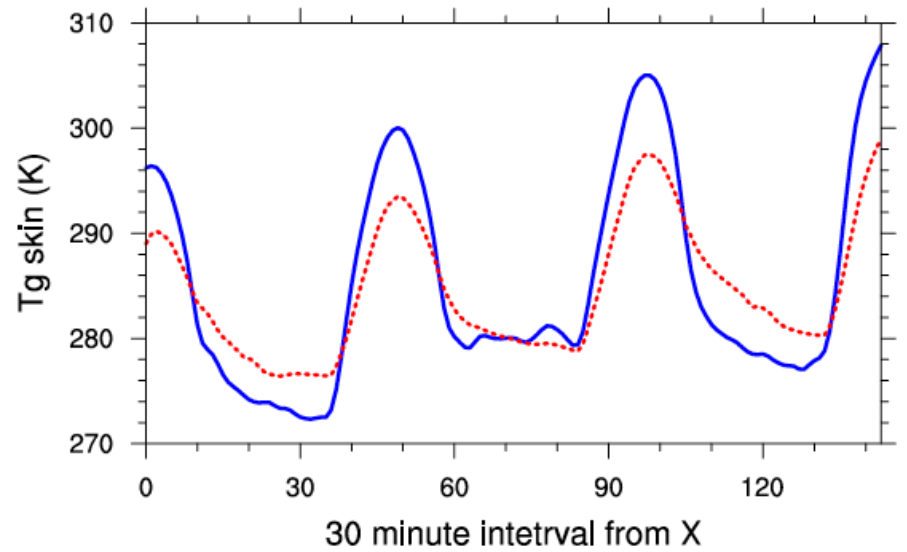


6.5m Water Table Height

3-days Tg-skin



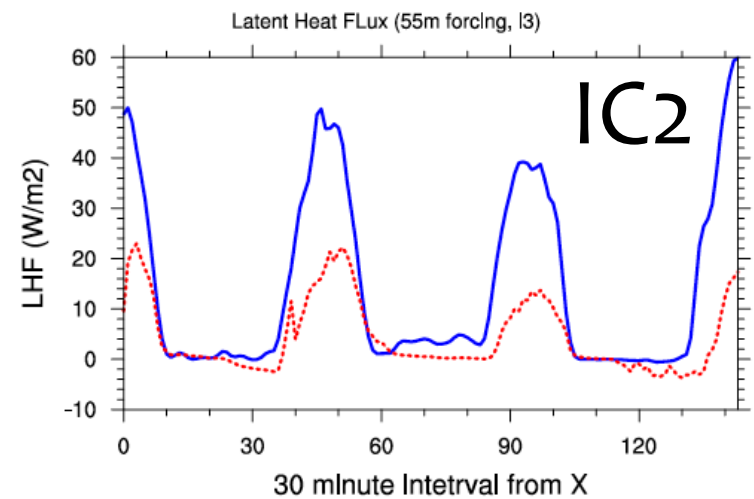
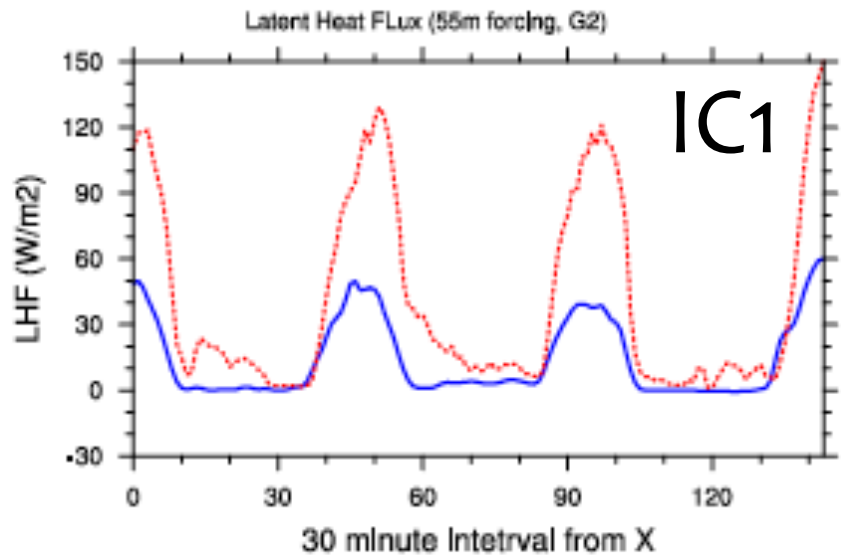
4m Water Table Height



6.5m Water Table Height

Sensitivity to initial conditions

LHFLX



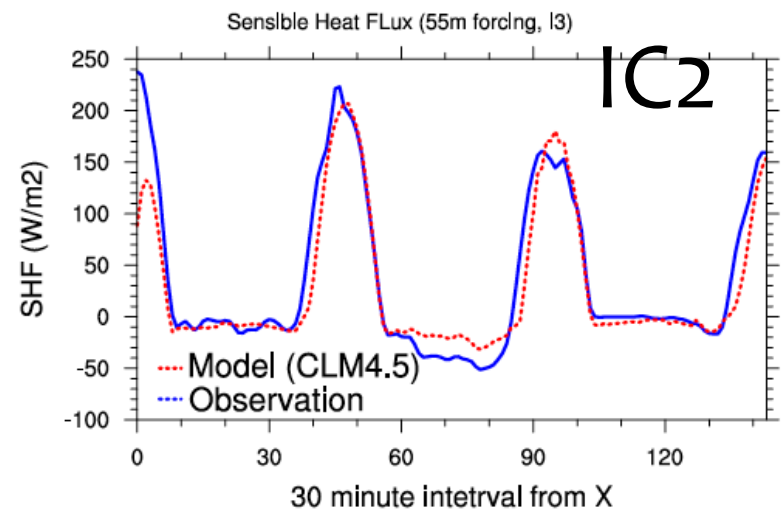
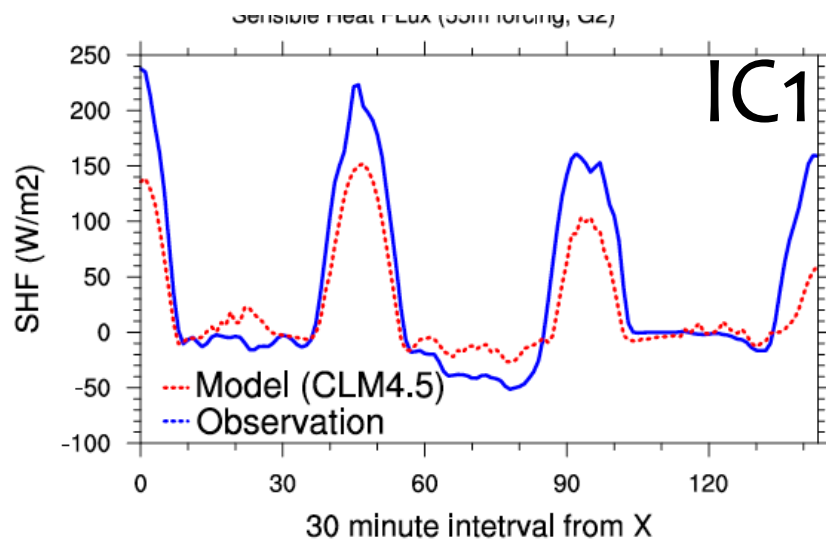
IC1 – DICE Protocol

IC2 – Randomly initialized run (30% initial soil moisture at the start of 3 days run)

..... Model (CLM4.5)
..... Observation

Sensitivity to initial conditions

SHFLX



IC1 – DICE Protocol

IC2 – Randomly initialized run (30% initial soil moisture at the start of 3 days run)

Storm responsible for wet initial conditions

