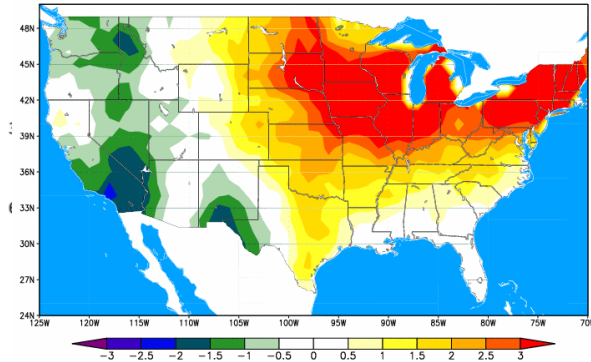


Land-atmosphere Interaction in a Global Climate Model in Association with Human Activities

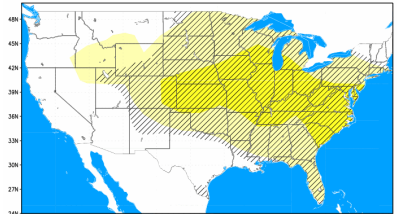
+ Spread of near surface temperature (2m Tair) among ensemble members becomes smaller by incorporating surface water-groundwater-human models in the AGCM.

T2m, GSWP2, July 30 – August 13

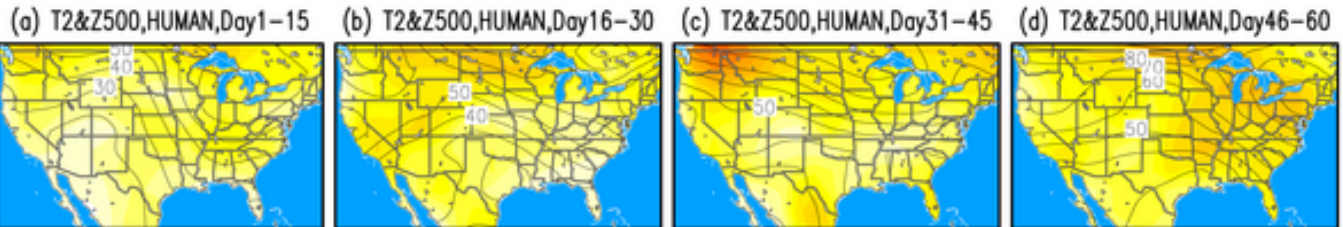


+ Sub-seasonal forecast skill for near surface air temperature (Day16-30) was improved by using realistic land initializations in the fully coupled AGCM with surface-groundwater-human models.

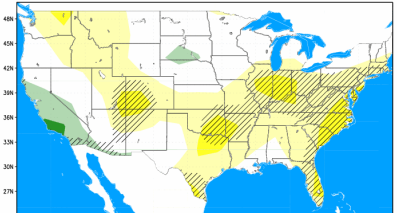
T2m, HUMAN-EXP, Realistic Soil Moisture IC.



With HI



T2m, HUMAN-EXP, Randomly Chosen Soil Moisture IC.



W/O HI

