

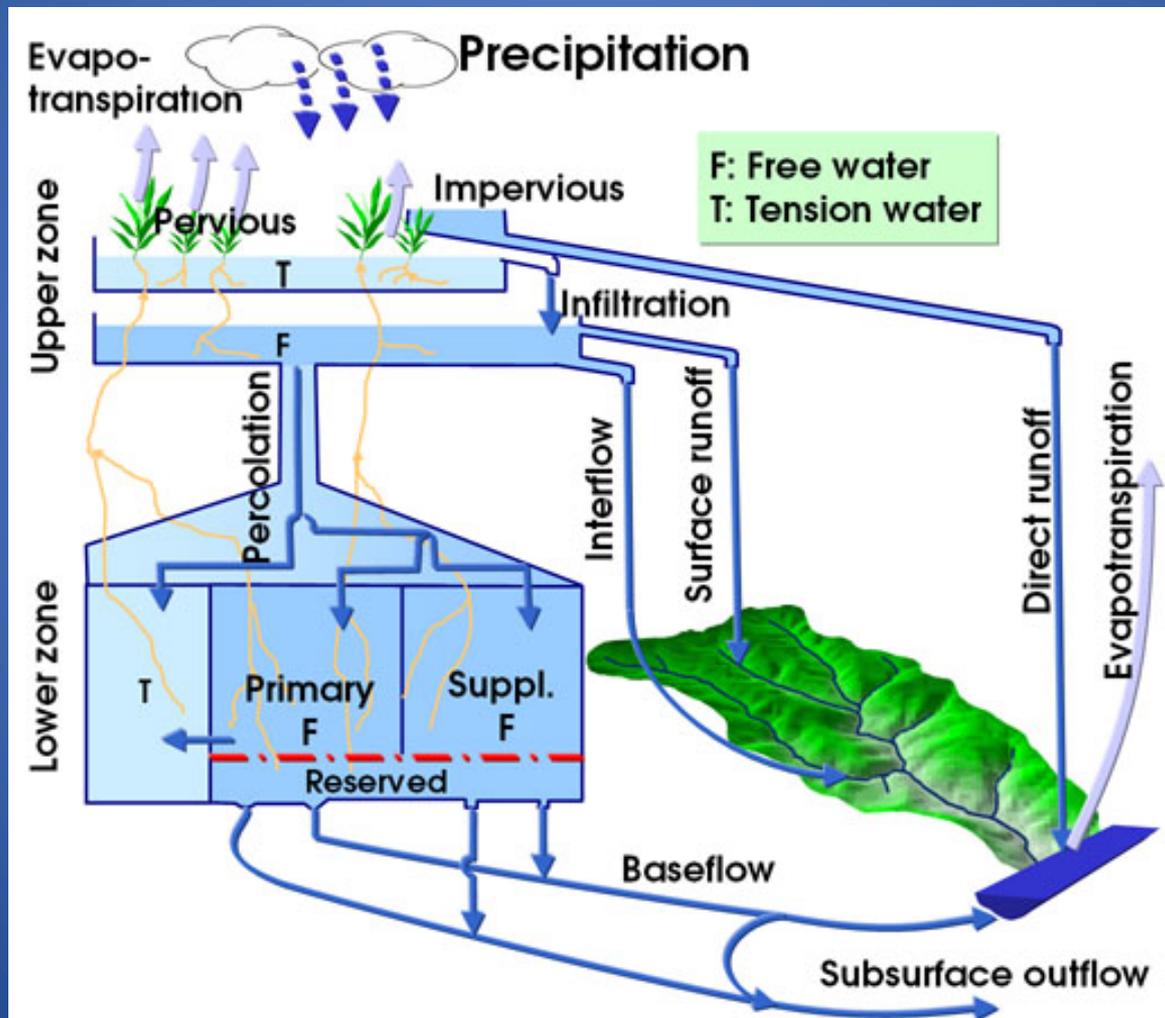


Use of Soil Moisture in River Forecasting

National Soil Moisture Network Workshop

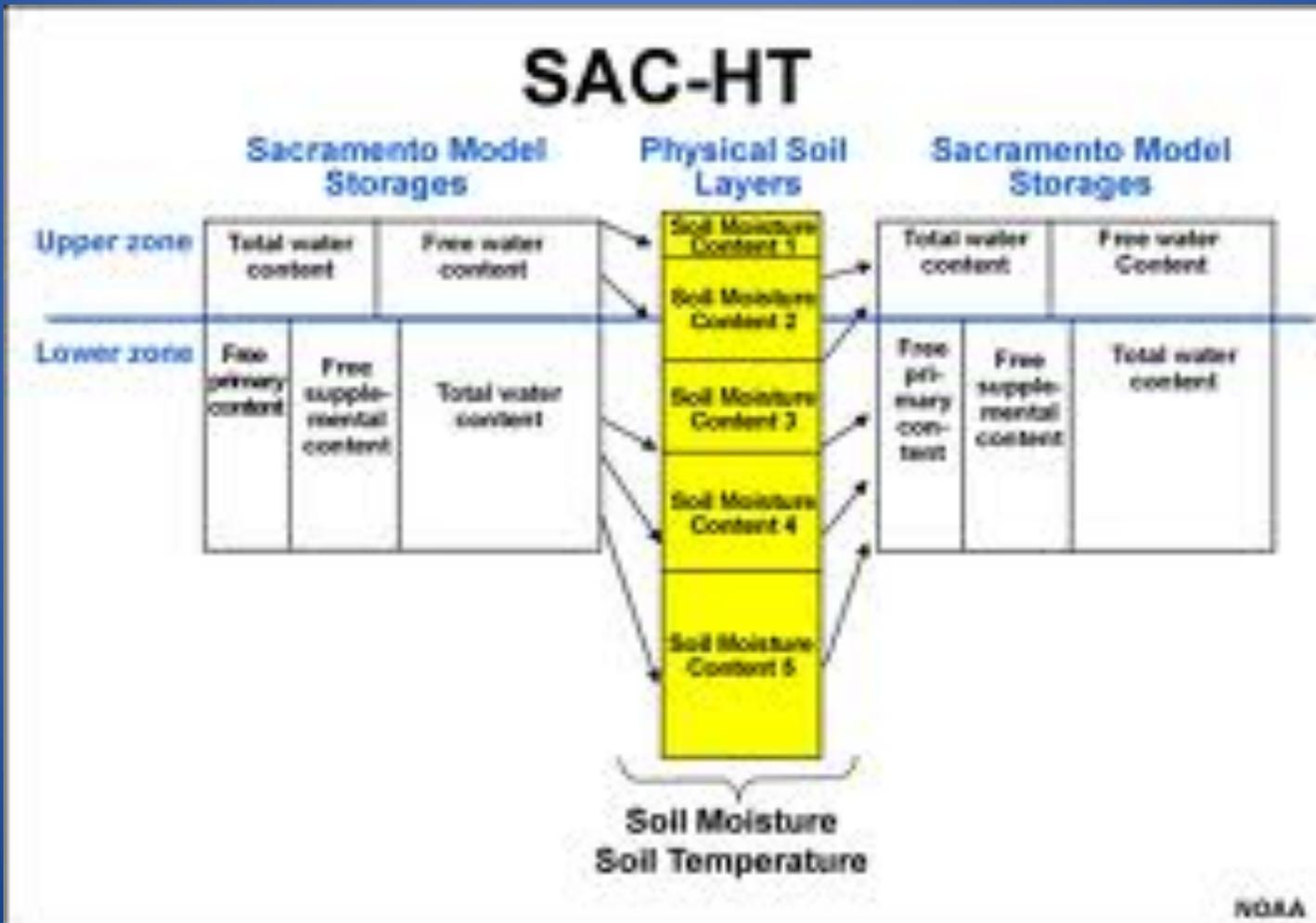
Eric Jones
May 2016

Legacy Hydrologic Models - Lumped (SAC-SMA)



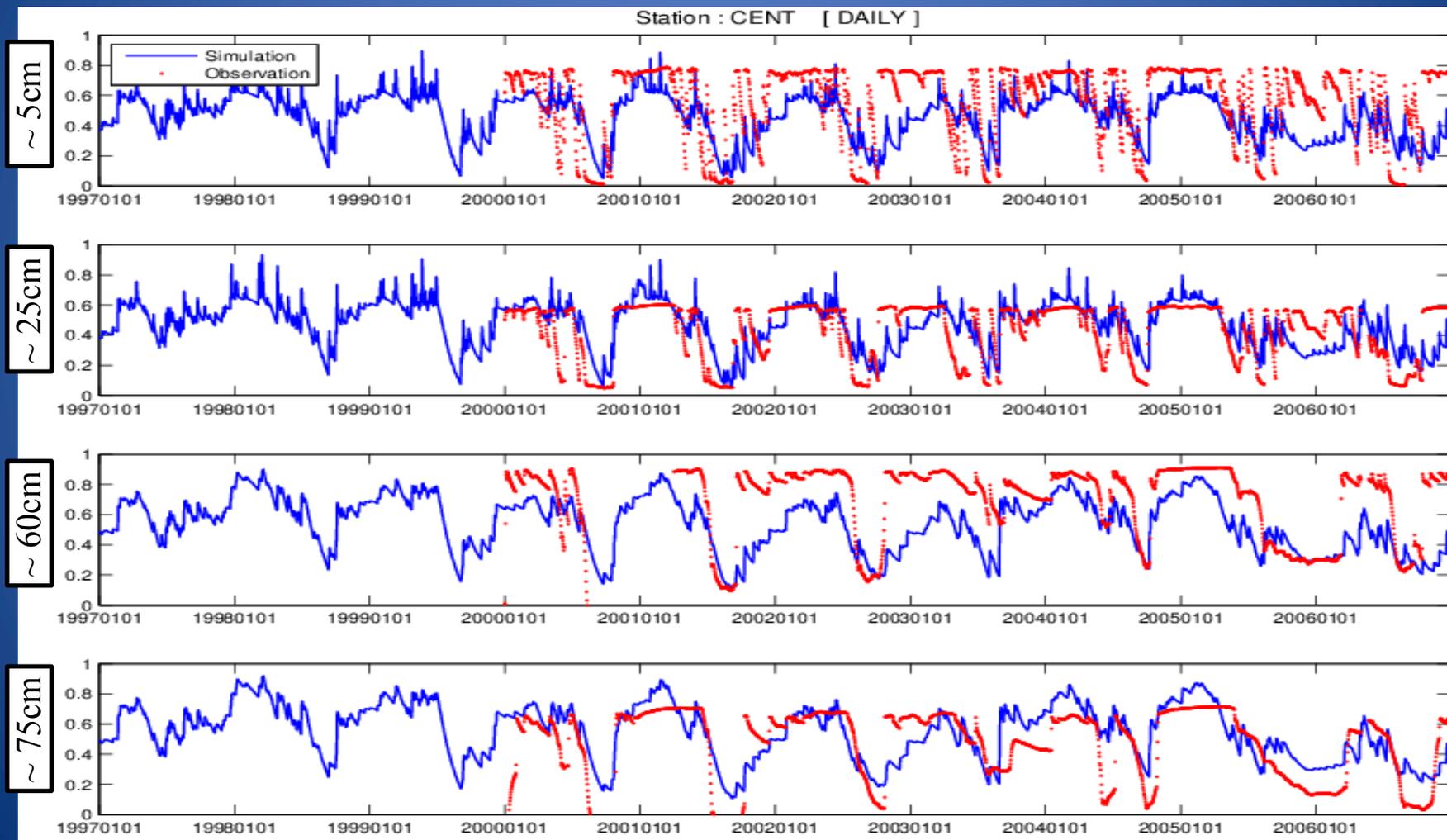


Legacy Hydrologic Models - Distributed (SAC-HT)





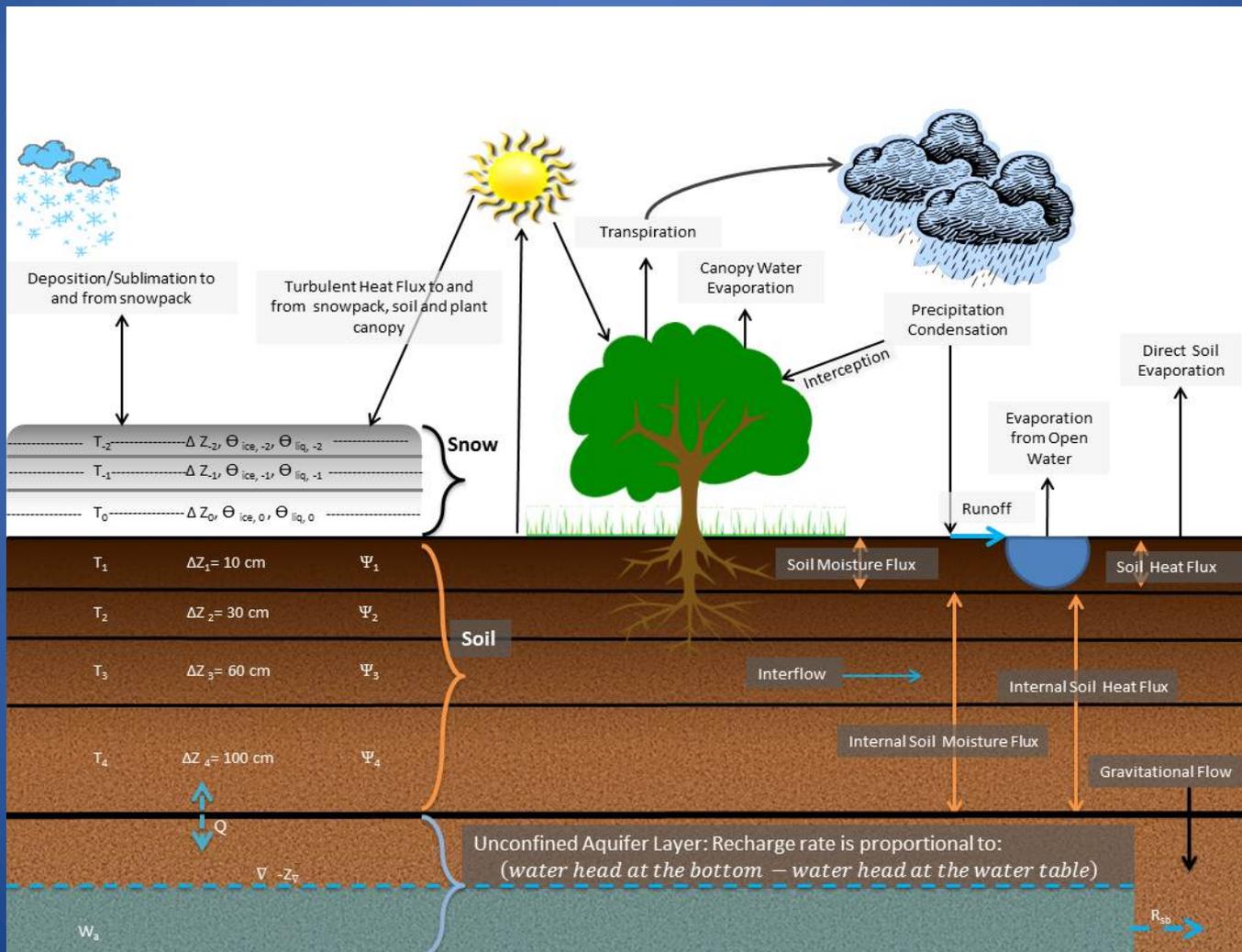
Legacy Hydrologic Models - Distributed (SAC-HT) Modeled vs OK Mesonet obs



Source: Jongkwan Kim (UCAR/NOAA)



National Water Model – WRF-Hydro (Noah LSM MP)





Application Data



- Need network of soil moisture observations to verify modeled soil moisture (OK Mesonet like)
- Data assimilation method
 - Currently no direct method (legacy models)