

# Advancing Data Assimilation Science for Operational Hydrology

- How successful the current DA methods have been in accurately characterizing the predictive uncertainty of soil moisture, SWE, SCA, streamflow, water quality variables, etc.?
- Computational complexity vs. accuracy, where is the balance? Considering the accessibility of high performance computing, parallelization, etc.
- Should we use some universal statistical measures in verifying the DA experiments? Deterministic, Probabilistic or both?
- What level of subjectivity in DA studies is acceptable? How can we make the DA implementation less subjective?
- How to synergize the atmospheric and hydrologic DA activities for better?