Data Assimilation in the Nextgen Framework for Improved Streamflow Predictions



The University of Texas at Austin Cockrell School of Engineering

Motivation and Objectives

- Data Assimilation can account for uncertainties in hydrological models and improve streamflow predictions.
- Reliable methods of data assimilation are being explored for the Nextgen Framework.

Objectives:

- Coupling the Conceptual Functional Equivalent (CFE) model with a state-space Muskingum-Cunge channel routing method.
- Improving streamflow predictions from the coupled model through data assimilation (DA).







