

Summary of the CSDMS Hydrology Focus Research Group Breakout Sessions

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Hydrology FRG Long-term Goals

- Make hydrologic models more open and transparent for both scientific investigations and to support policy and decision makers.
- Lower barriers for hydrologists to use state-of-the-art models to address important hydrologic challenges.
- Advance computational and data science skills of hydrologic modelers.

Long-term goal: Make hydrologic models more open and transparent for both scientific investigations and to support policy and decision makers.



Midterm goal: Establish methods for model benchmarking, tests to quantify model skill, and methods of quantifying model uncertainty.



Short-term goal: Propose an AGU session “Innovation in hydrology using community tools” sponsored by the Hydrology FRG members.

Long-term goal: Lower barriers for hydrologists to use state-of-the-art models to address important hydrologic challenges.



Midterm goal: Foster culture shift in hydrologic modeling community toward collaborative and community-based model development.

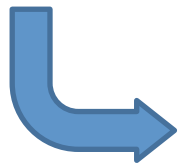


Short-term goal: Grow number of linkable hydrologic models within CSDMS (e.g., TOPMODEL, WRF-Hydro, PIHM, etc.).

Long-term goal: Advance computational and data science skills of hydrologic modelers.



Midterm goal: Increase the number of hydrologic models able to leverage high resolution datasets and HPC resources.



Short-term goal: Expand methods for accessing data to support hydrologic modeling within CSDMS.

Summary of Action Items

- Refactor popular hydrologic models for CSDMS; Top candidates include TOPMODEL, WRF-Hydro, and PIHM.
- Create new data access tools in CSDMS to support hydrologic modeling.
- Propose AGU session “Innovation in hydrology using community tools” to grow community.