

# CI-WATER products for water managers, researchers & developers



The CI-WATER project team has developed resources to help make advanced modeling capabilities more accessible to the people who need them. Access these products at [http://ci-water.org/apps\\_tools.shtml](http://ci-water.org/apps_tools.shtml)

PRODUCT	DESCRIPTION	DEVELOPERS	WATER MANAGERS	RESEARCHERS
ADHydro	Simulate large watersheds in a massively parallel computing environment.	●		●
Canned GSSHA	Discover flood threat using the canned modeling approach & current hydrologic conditions; developed with Tethys Platform.		●	
Canned Modeling	Gain rapid access to pre-run simulations that may approximate the user's test parameters.		●	
CI-WATER Data Services	Use our Web services to access datasets commonly used as input to Hydrologic models for the Western US.	●	●	●
Climate Data Access Tool	Access FetchClimate data through a webmap interface or JavaScript API.	●		
CondorPy	Create, submit, execute & monitor large batch computing jobs with HTCondor, all from Python.	●		●
GSSHA Index Map Editor	Produce a before-and-after comparison report for runoff after the land use or soil type (index maps) of GSSHA models are altered.		●	●
GsshaPy	Expose GSSHA models to the power of SQL databases by using this product to interface between the principal model files & a database.	●		
HydroGate	Access heterogeneous HPC storage and computational resources using SSH via this science gateway service.	●		●
HydroGate Python Client	Access CI-WATER data & computational services with this Python client.	●		●
Observed Data	Visualize water data feeds from HydroServers using this web app developed with Tethys Platform.		●	
Parley's Creek Management	Evaluate the impact of management decisions & climate change on the Parley's Creek system; powered by the Parley's Creek Management GoldSim model & developed with Tethys Platform.		●	
SLC Integrated Urban Water Management	Use this system dynamics model to analyze integrated SLC water system reliability and vulnerability under population growth and climate change scenarios; evaluate alternative supply and demand side solutions; includes an online education tool.		●	●
Stream Forecaster	Visualize streamflow forecasts for high density stream networks.		●	
TethysCluster	Leverage the power of the Cloud with automated provisioning & configuring of computing clusters.	●		●
Tethys Platform	Create apps or convey models & data.	●	●	●
TMAPS	Automate the generation of a web-based interactive viewer that helps visualize massive models with multiple timestep outputs possible.	●	●	
TMAPS Tool	Facilitate the change of inputs to the TMAPS code through a user interface while benefiting from the computational power provided by TethysCluster.		●	
Utah Energy Balance (UEB) Data Input Tools	Set up a UEB model for any watershed in the western US using standard data products accessible through CI-WATER data services.		●	●
Utah Energy Balance (UEB) Parallel	Take advantage of high-performance cyberinfrastructure with this parallel version of the UEB snowmelt model to simulate snow processes in large watersheds at high resolution.		●	●
Water-Energy Nexus Model	Design collaborative water & energy conservation programs to meet city-wide reduction targets.		●	●
Water Evaluation and Planning (WEAP): Bear River	Use this simulation model to see how water supplies can meet prioritized demands in the Lower Bear River Watershed.	●	●	●
Water Management Data Model (WaM-DaM)	Organize network-based water management data.		●	●

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