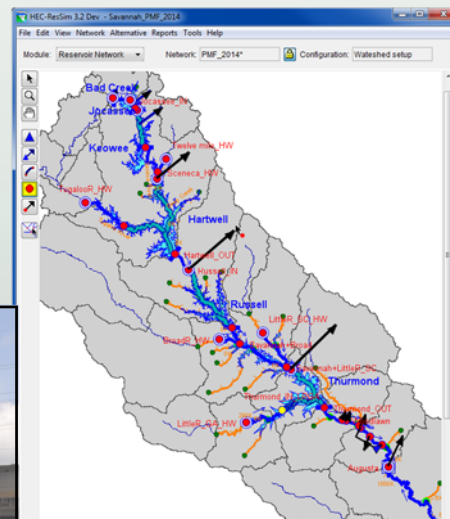## HEC-ResSim

- The HEC-ResSim software can be used to develop a model of a system of reservoirs and simulation the operations of those reservoirs to meet their individual and system purposes. The simulations can represent single events or cover the full period of observed data for the system.

- HEC-ResSim features a graphical user interface with an interactive map-based schematic to provide the modeler an easy to use framework for creating his model and analyzing results. A variety of outlets can be specified for a reservoir including gates, spillways, hydropower plants, and pump-back facilities. And the operations are specified by a set of zones and rules that describe the goals and constraints that limit each reservoir's releases. This method of defining the reservoirs operations is easier to use and much more flexible than other reservoir modeling packages currently or previously available.

Reservoir Simulation Modeling and Applications

- Most federally-funded reservoirs are built to serve several purposes including:

  Flood Control   Water Supply   Hydropower   Recreation
  Navigation   Water Quality   Fish & Wildlife Habitat Support

- Modeling the operations of reservoirs supports a variety of purposes including:

  Real-time Decision Support
  Water Supply Assessment Studies
  Drought Contingency Operation Studies
  Flood Operations and Dam Safety Studies
  International Treaty Negotiations
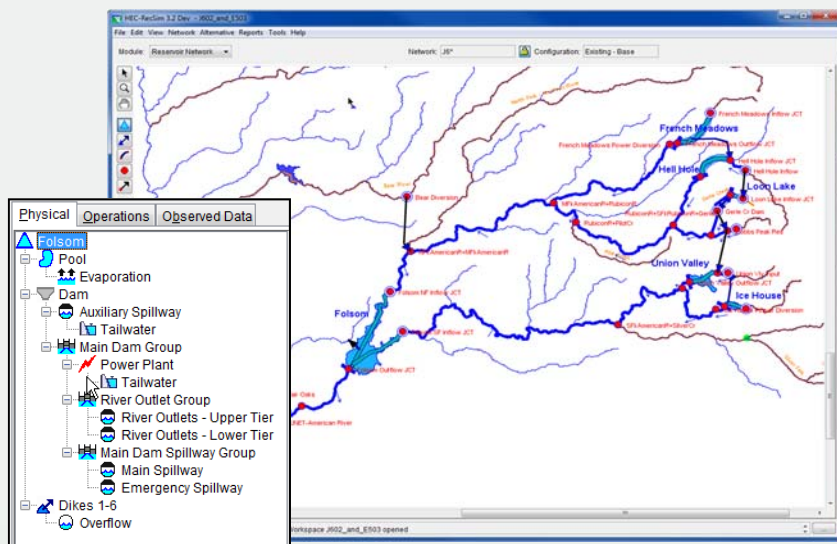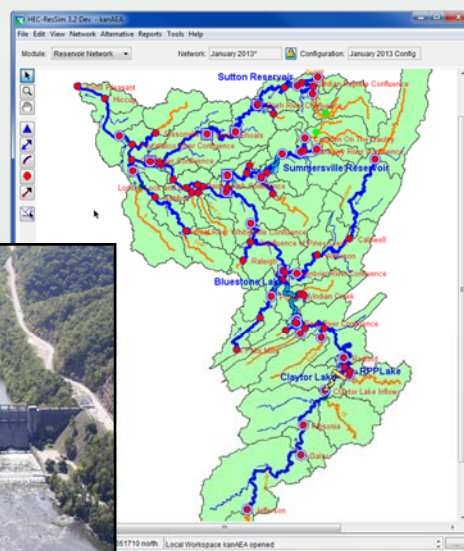 And many more….

- Flood Operations & PMF Routing Study

POC: joan.t.klipsch@usace.army.mil

U.S. Army Corps of Engineers - CEIWR-HEC
Hydrologic Engineering Center, Institute for Water Resources
609 Second Street
Davis, CA 95616-4687
http://www.hec.usace.army.mil; Webmaster-HEC@usace.army.mil

■ Re-Operations Study - Spillway Expansion

■ Real-time Decision Support

■ Endangered Species & Drought Contingency Operation Study