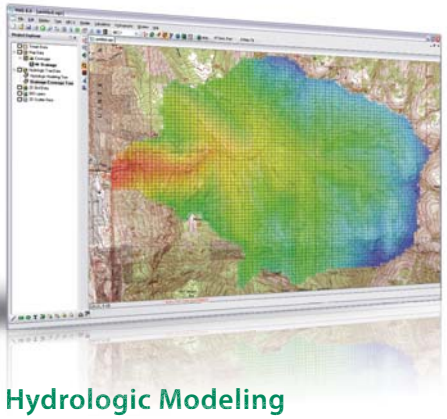
Watershed Modeling System
Version 8.2



What's New in WMS 8.2

- Define modeling area using the Microsoft® Virtual Earth explorer
- Import images, DEMs, and other data using web services inside WMS
- GSSHA™ enhancements including the support of calibration and batch mode processes and multiple scenarios
- Improved GSSHA hydrologic modeling wizard
- Output animated KMZ files to Google™ Earth
- Many more!

Model Interfaces

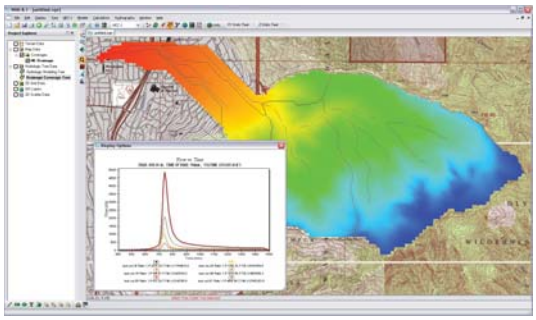
- HEC-HMS
  Rainfall/runoff simulation
- HEC-1
  Rainfall/runoff simulation
- National Flood Frequency
  Flood peak discharge
- GSSHA
  2D Distributed hydrology
- HEC-RAS
  1D Hydraulic modeling
- EPA-SWMM/xpswmm
  Stormwater modeling
- TR-20
  Rainfall/runoff simulation
- TR-55
  Urban storm runoff
- MODRAT
  LA County runoff model
- Rational Method
  Urban hydrology modeling
- HSPF
  Hydrologic and water-quality simulation
- CE QUAL W2
  Water quality reservoir modeling
- SMPDBK
  Dam failure flood analysis

Automated Hydrology Solutions

- Quickly delineate watershed basins
- Simplify hydrologic analysis
- Understand and clarify with advanced graphical tools
- Complete floodplain mapping solution
- Single source for H&H tools!

Hydrologic Modeling

- Import digital elevation data
- Automatically delineate basins & calculate basin parameters
- Run HEC-HMS and other hydrologic models
- Visualize models and results with background data
- Use stand-alone GIS based interface
- Perform stochastic analysis for peak flows

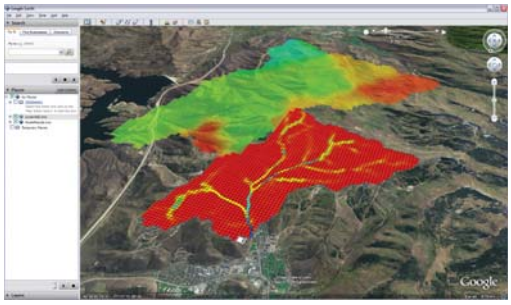


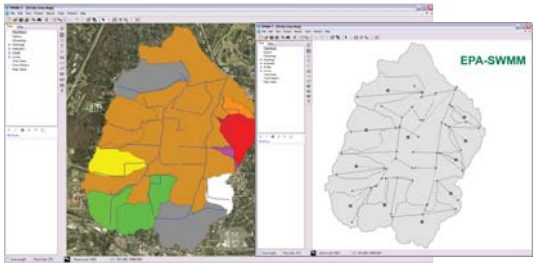
Hydraulic Modeling & Flood Mapping

- Georeference centerlines and banks for HEC-RAS models
- Extract cross-sections from digital data
- Seamlessly import to HEC-RAS
- Generate flood extent maps from stages
- Visualize and export flood contour maps

2D Distributed Hydrology

- Grid based 2D flow with GSSHA model
- True distributed flow and routing
- Use radar rainfall data
- Support for long-term simulations
- Groundwater/Surface-water interaction
- Wetlands analysis capability





Stormdrain Modeling

- Build EPA & XP-SWMM models within GIS interface
- Import peak flows from hydrologic models
- Complete stormwater flow and water quality

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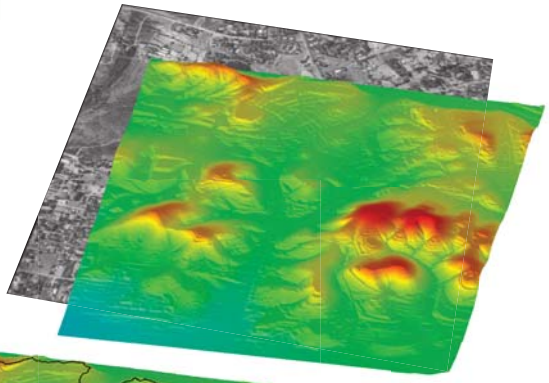
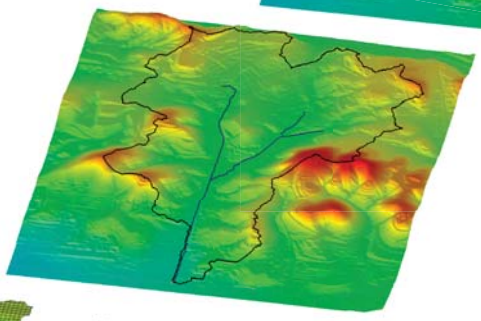
Integrated Hydrologic & Hydraulic Modeling and Floodplain Mapping



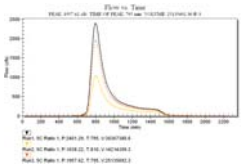
Import Background Data

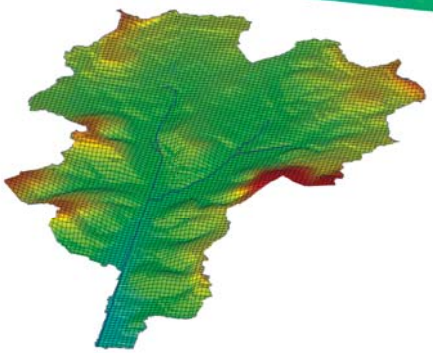
- Elevations (DEMs, TINs, Grids)
- Topo maps, aerial photos
- Soil and Land Use data
- Automatically import data via web services



Delineate Watershed

- Select outlet location
- Automatically delineate streams & basins
- Calculate basin parameters



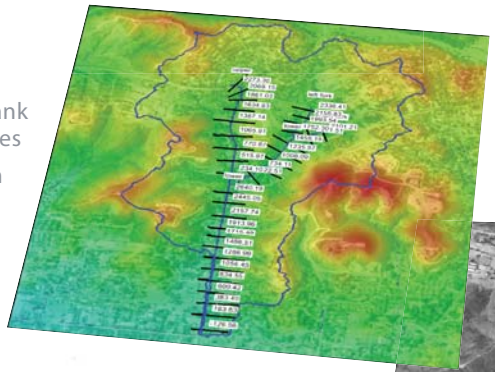


Develop & Run Hydrologic Model

- Define rainfall and loss methods
- Create grid for distributed models
- Run hydrologic model
- Use HEC-HMS, HEC-1, TR22, GSSHA & more!
- View & export peak flows and hydrographs

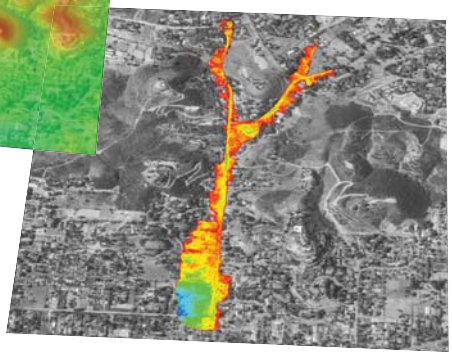
Create & Run HEC-RAS Model

- Build model center and bank lines on background images
- Create cross-sections from digital elevations
- Run HEC-RAS within WMS



Delineate Floodplain

- Import stages from HEC-RAS
- Auto-delineate flood extents to digital topography
- Visualize and export flood contour maps and polygons
- Google Earth support



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