



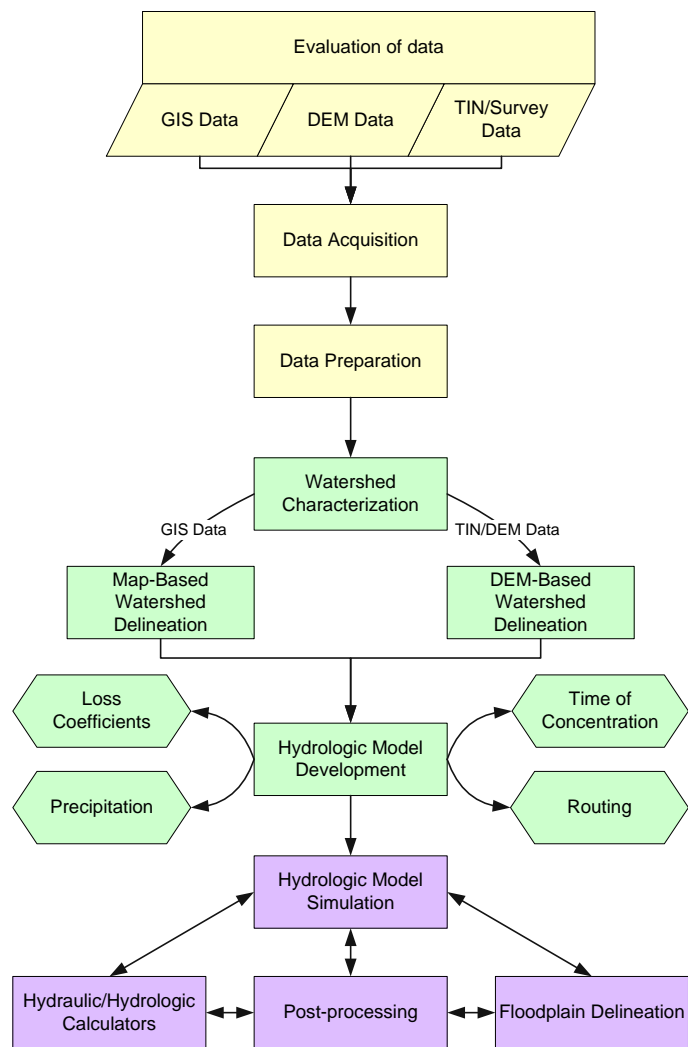
Watershed and Groundwater
Modeling Solutions

Using the Hydrologic Modeling Wizard to Develop a GSSHA Model





Work Flow

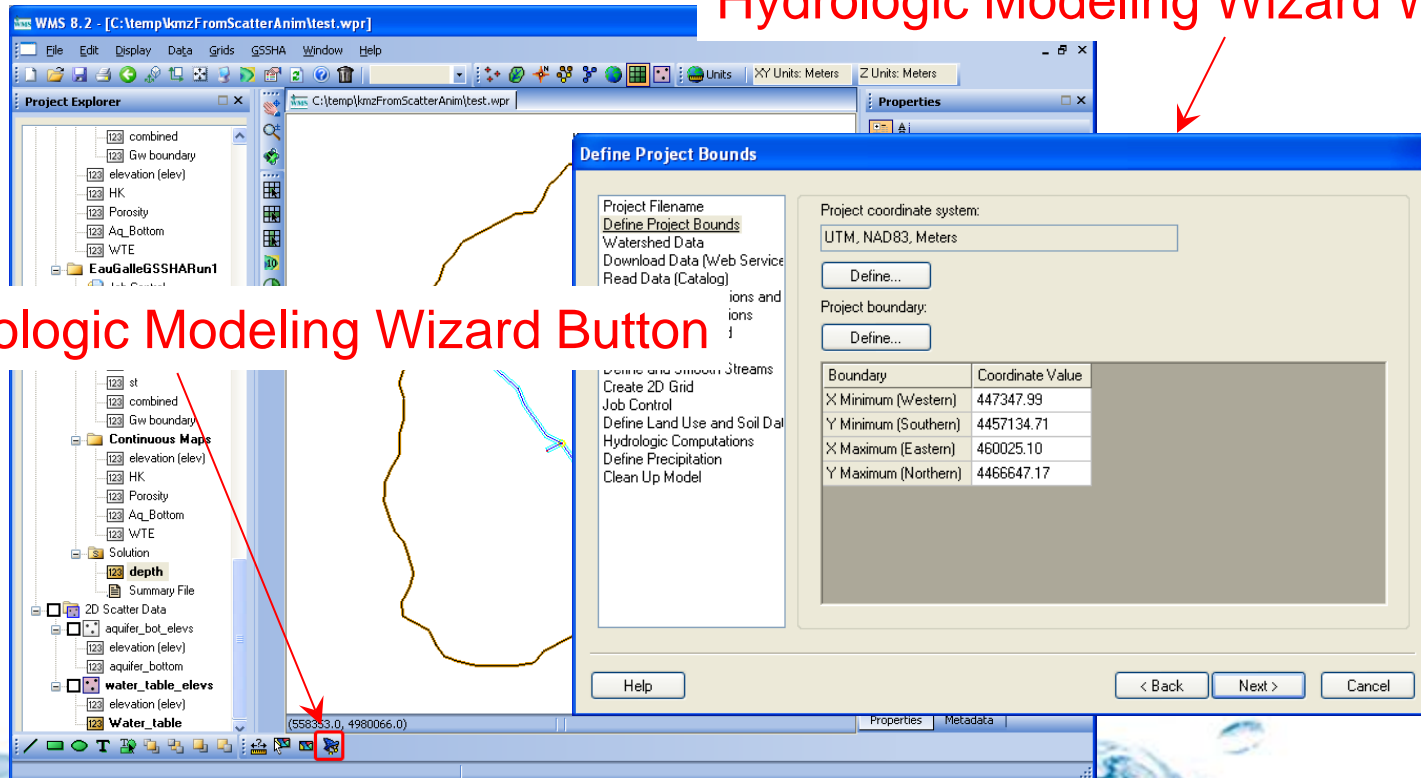




How do I set up a GSSHA model?

- Use the WMS Hydrologic Modeling Wizard

Hydrologic Modeling Wizard Window



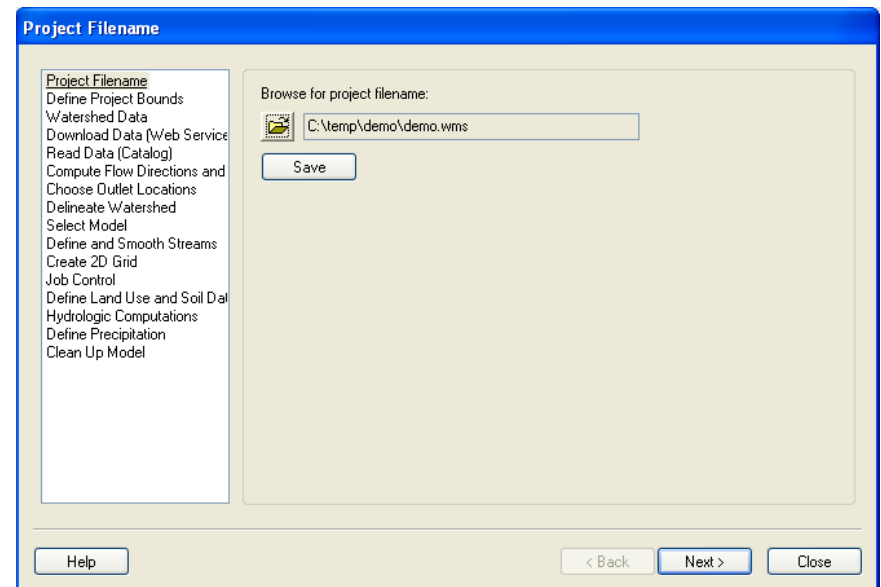
Hydrologic Modeling Wizard Button



Hydrologic Modeling Wizard

Watershed and Groundwater
Modeling Solutions

- Hydrologic Modeling Wizard Steps
 - Set Project Filename
 - Define Project Boundary
 - Get Data (Web Services)
 - Delineate Watershed
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 - Create 2D Grid
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 - Clean Up/Save Model
 - Run Model
 - Display Results (Post Processing)



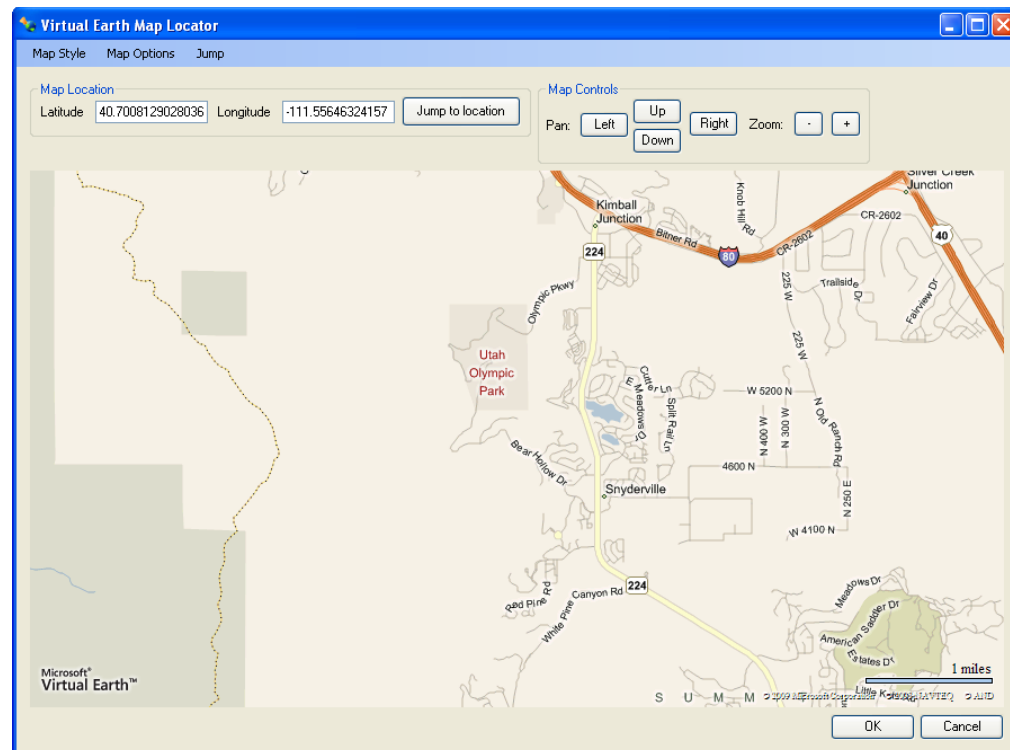


Hydrologic Modeling Wizard

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Watershed Data

Project Filename
Define Project Bounds
Watershed Data
Download Data (Web Services)
Read Data (Catalog)
Compute Flow Directions and
Choose Outlet Locations
Delineate Watershed
Select Model
Define and Smooth Streams
Create 2D Grid
Job Control
Define Land Use and Soil Data
Hydrologic Computations
Define Precipitation
Clean Up Model

Data source:
☒ Web services
☐ Catalog file

☐ Open file(s) only
Select file(s) to open:

Help < Back Next > Close

Download Data (Web Services)

Project Filename
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Download Data (Web Services)
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Data Type	Browse	File	Resolution
<input checked="" type="checkbox"/> NED 1 Arc Sec data (Con...	Browse...		
<input type="checkbox"/> NED 2 Arc Sec data (Alas...	Browse...		
<input type="checkbox"/> SRTM 1 Arc Sec data (U...	Browse...		
<input type="checkbox"/> SRTM 3 Arc Sec data (W...	Browse...		
<input type="checkbox"/> Land use data	Browse...		
<input checked="" type="checkbox"/> TerraServer aerial photo	Browse...		1m
<input type="checkbox"/> TerraServer urban	Browse...		2m
<input checked="" type="checkbox"/> TerraServer topo	Browse...		2m
<input type="checkbox"/> NID data	Browse...		
<input type="checkbox"/> USGS stream data	Browse...		
<input type="checkbox"/> MesoWest data	Browse...		
<input checked="" type="checkbox"/> Land Use Shapefiles	Browse...		
<input type="checkbox"/> Soil Type Statsgo Data	Browse...		

Download Data From Web

Help < Back Next > Close

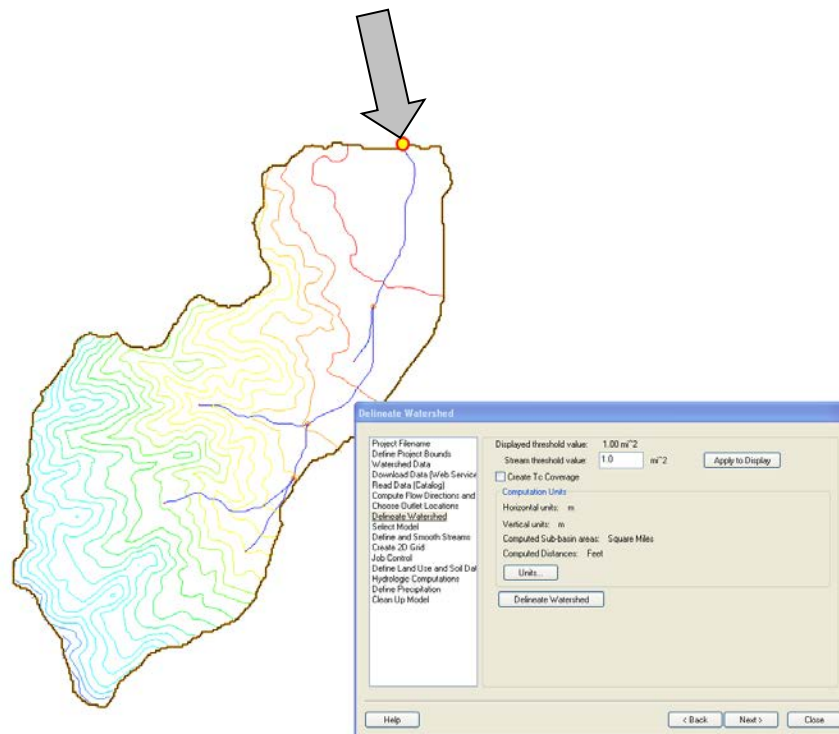


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Outlet Location

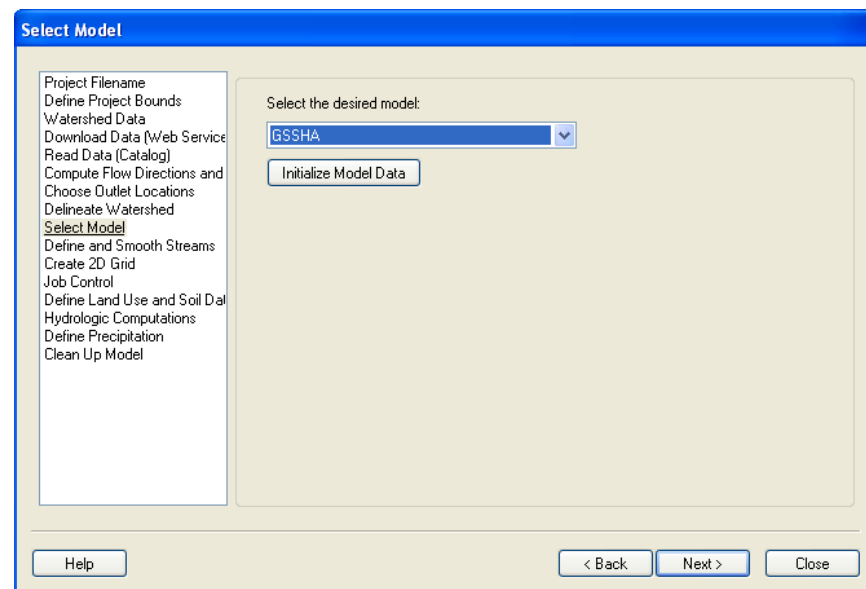




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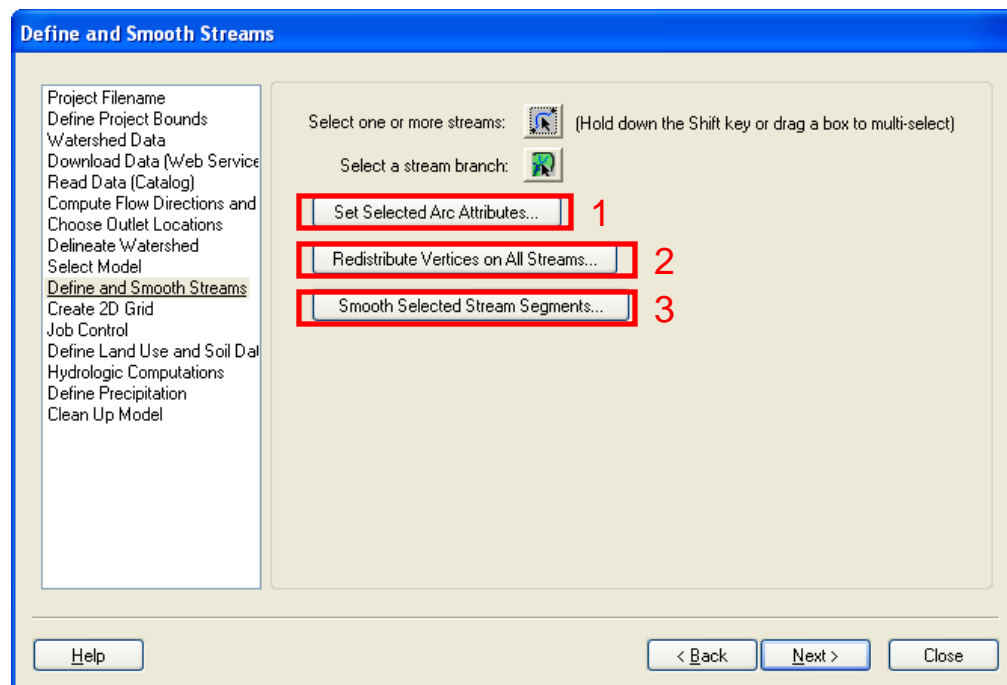




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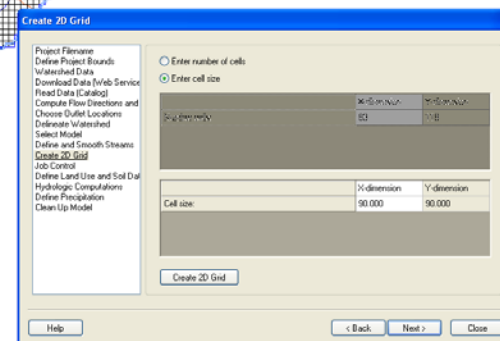
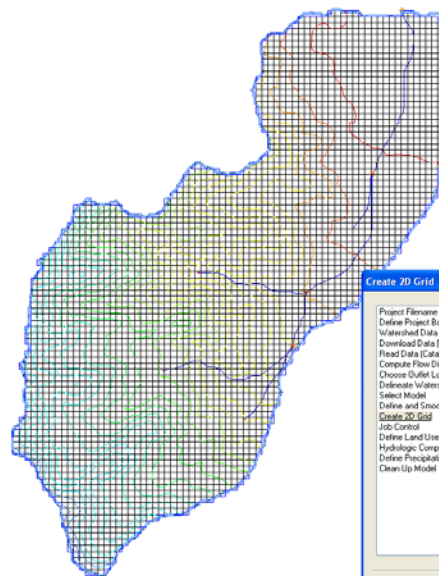




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Job Control

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Starting date: 6/ 2/2003
Starting time: 4:00:00 PM
Ending date: 6/ 3/2003
Ending time: 4:00:00 PM
Time interval: 10.00 (sec.)

Set Job Control Data

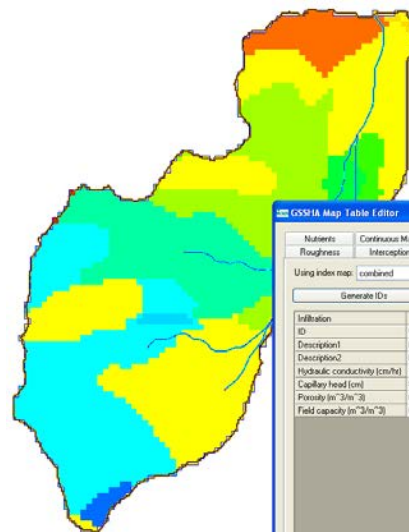
Help < Back Next > Close



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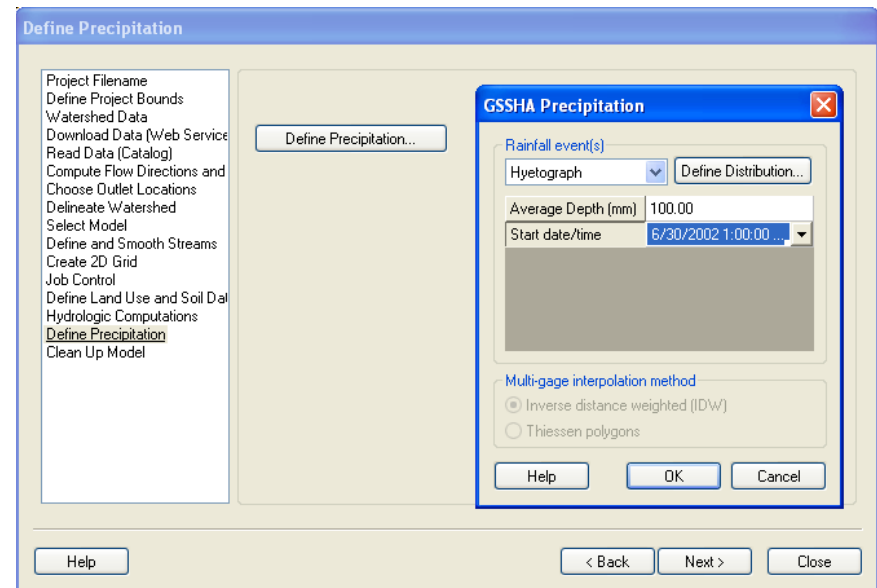
ID	5	6	7	8	9	10	11	12
Description1	Loam	Loam	Loam	Loam	Loam	Clay loam	Clay loam	Loam
Description2	Land ID #3	Land ID #1	Land ID #7	Land ID #1	Land ID #4	Land ID #4	Land ID #4	Land ID #4
Hydraulic conductivity (cm/hr)	1.320000	1.320000	1.320000	1.320000	1.320000	0.200000	0.200000	1.320000
Capillary head (cm)	8.890000	8.890000	8.890000	8.890000	8.890000	20.890000	20.890000	8.890000
Porosity (in "3 in" 3)	0.463000	0.463000	0.463000	0.463000	0.463000	0.464000	0.464000	0.463000
Field capacity (in "3 in" 3)	0.270000	0.270000	0.270000	0.270000	0.270000	0.318000	0.318000	0.270000



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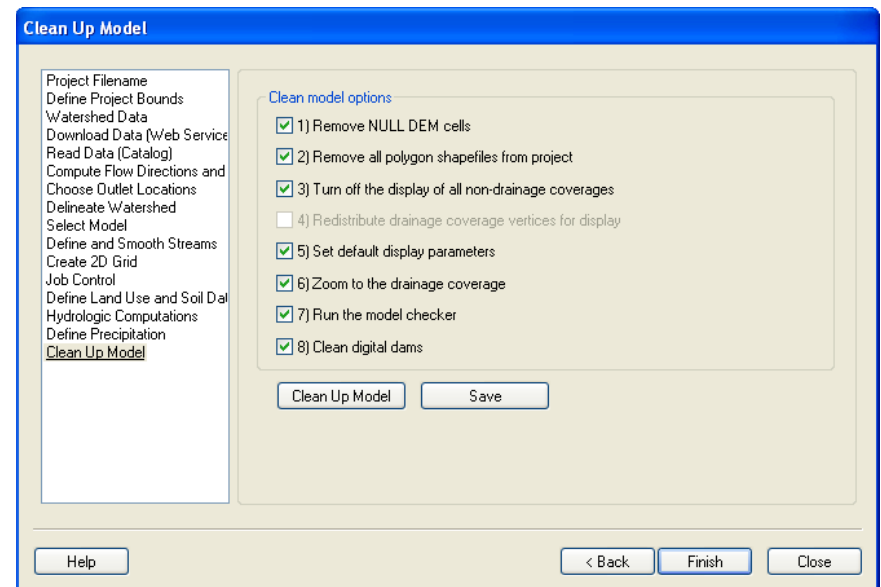




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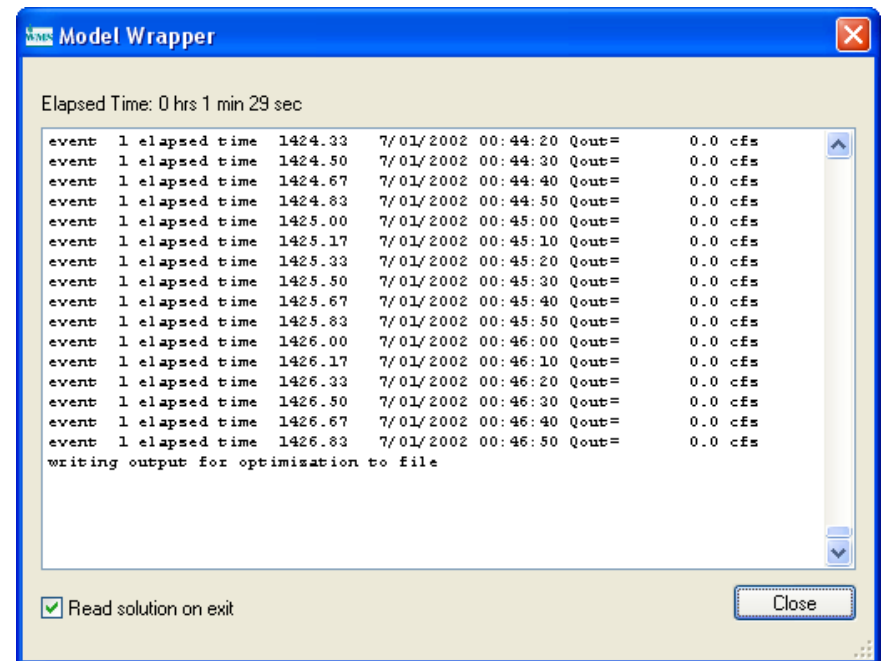




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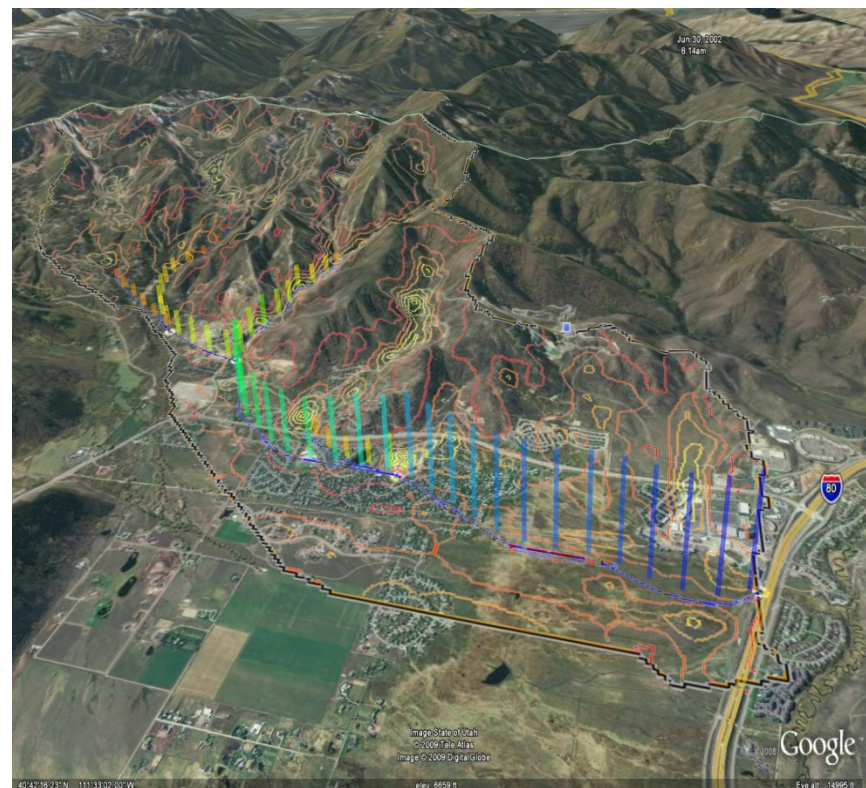




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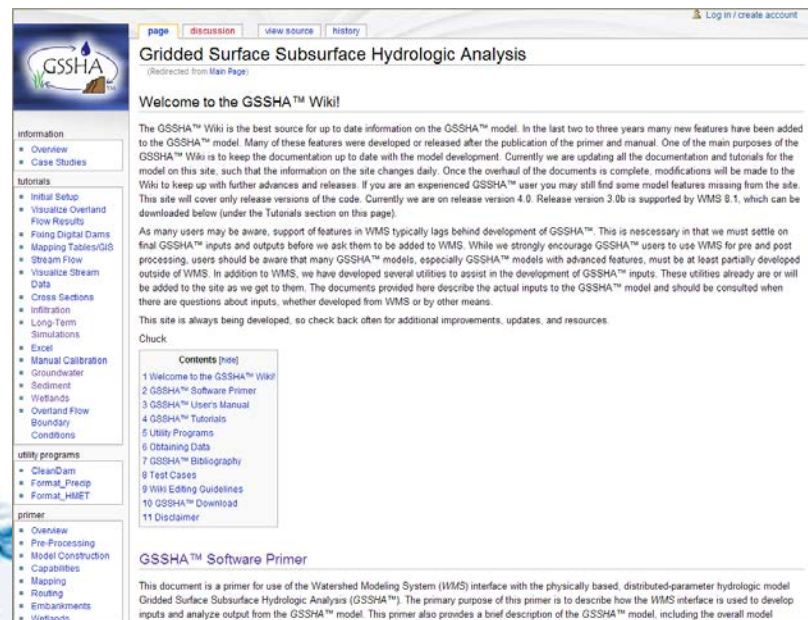




What can I do with GSSHA?

Watershed and Groundwater
Modeling Solutions

- Learn more about GSSHA
- GSSHA reference materials: <http://www.gsshawiki.com/>
 - Tutorials
 - Primer
 - Reference Manual
 - Download GSSHA Model
- WMS reference materials: <http://www.xmswiki.com/>, <http://www.aquaveo.com/>



The screenshot shows the GSSHA Wiki homepage. The header includes navigation links for 'page', 'discussion', 'view source', and 'history', along with a 'Log in / create account' link. The main title is 'Gridded Surface Subsurface Hydrologic Analysis' with a note '(Redirected from Main Page)'. Below this is a 'Welcome to the GSSHA™ Wiki!' message. The page contains two paragraphs of introductory text about the wiki's purpose and the model's development. A 'Contents [hide]' section lists 11 items: 1 Welcome to the GSSHA™ Wiki, 2 GSSHA™ Software Primer, 3 GSSHA™ User's Manual, 4 GSSHA™ Tutorials, 5 Utility Programs, 6 Obtaining Data, 7 GSSHA™ Bibliography, 8 Test Cases, 9 WMS Editing Guidelines, 10 GSSHA™ Download, and 11 Disclaimer. The left sidebar contains a 'GSSHA' logo and a list of links categorized under 'information', 'tutorials', 'utility programs', and 'primer'. The bottom of the page features the 'GSSHA™ Software Primer' section, which states that the document is a primer for using the Watershed Modeling System (WMS) interface with the GSSHA model.



Watershed and Groundwater
Modeling Solutions

Demonstration

