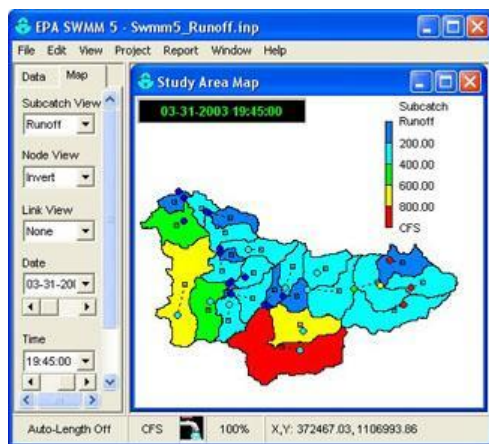


Flood Modeller Pro SWMM Link

Combining surface and subsurface flow using Flood Modeller Pro and SWMM

The SWMM link combines the 1D and 2D functionality, provided in Flood Modeller Pro and Flood Modeller Free, with that of the US Environmental Protection Agency's (EPA) Storm Water Management Model (SWMM). Where pipe networks overflow, links to Flood Modeller can be incorporated to model the resulting surface flows and possible flood scenarios.



EPA's SWMM is used throughout the world for planning, analysis and design related to stormwater runoff, combined and sanitary sewers, and other drainage systems in urban areas.

The Storm Water Management Model (SWMM) link is an established subsurface runoff simulation tool enabling pipe flow modelling of sewer networks and other drainage systems.

Using the industry leading 1D solver within Flood Modeller, the SWMM link enables the modelling of surface water channels that interact with a United States Environmental Protection Agency (EPA) SWMM network. Users can also integrate the 2D solver within Flood Modeller with SWMM to allow the modelling of surface water flooding, either coming from or entering into a SWMM network.

Where pipe networks overflow, links to Flood Modeller can be incorporated to model the resulting surface flows and possible flood scenarios for the area of interest. It is extremely useful for modelling inflow and infiltration as well as combined sewer overflows, for evaluating the impact of extreme events on sewer systems, and for updating stormwater master plan models.

Once connected, the SWMM and Flood Modeller models will run concurrently, with Flood Modeller controlling the simulation, feeding inputs into SWMM and receiving outputs from each SWMM time-step. This interaction creates a more integrated and hence more accurate modelling solution compared to running each of these models individually and feeding outputs from one as inputs into the other.

Key features

- Greater flexibility in producing an integrated model
- Links the 1D and 2D solvers within Flood Modeller with SWMM
- Models inflow and infiltration, as well as combined sewer overflows
- Enables pipe flow modelling of sewer networks
- User-friendly tools can be used to link Flood Modeller and SWMM
- Evaluates the impact of extreme events on sewer and drainage systems
- Analysis tool for stormwater master plan models
- Provides a more accurate solution compared to running each of these models individually
- Enables 1D modelling of surface water channels that interact with a SWMM network
- Supports 2D modelling of surface water flooding coming from or entering into a SWMM network

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Flood Modeller Pro is developed by CH2M, a global leader in consulting, design, design-build, operations and program management.