

MEDIA RELEASE



For Immediate Release

Date: May 30, 2006

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XP Software Announces 2-Dimensional Modeling in **xpswmm** Version 10

5/30/2006 Portland, OR — XP Software, a world leader of hydrology and hydraulics software products, announces two-dimensional (2D) modeling, a major enhancement to its flagship product **xpswmm**.

“Engineers can now utilize embedded digital terrain modeling (DTM), and a proven 2D hydrodynamic modeling engine with **xpswmm**'s traditional 1D modeling in a single environment,” says Tony Kuch Vice President of Software Applications. “It allows the modeler to reliably evaluate the extent of urban and rural flooding in a visually appealing way that even non-technical observers can appreciate.”

xpswmm Version 10 users now have all the tools needed to predict the extent and duration of flooding while assessing the ability of technologies and management practices to mitigate flooding. **xpswmm** provides an environment for building 2D models that simulate urban stormwater, sanitary sewers, river flooding and pollutant transport. Additional enhancements include a layer control panel, enhanced XP Tables capabilities, DTM integration and, expanded BMP capabilities.

Fully 2D models have been widely used for modeling river and coastal hydraulics and recently have become a viable practical option for modeling urban floods. As a stormwater management tool, 2D models are more accurate and produce results that are more readily understood and accepted by managers, decision makers and other stakeholders.

Description

The 2D modeling package is based on the TUFLOW program developed in Australia by WBM Oceanics and The University of Queensland. TUFLOW has been the subject of extensive testing and validation. It is specifically orientated towards establishing the flow patterns in coast waters, estuaries, rivers, floodplains and urban areas where the flow patterns are essentially 2D in nature and would be awkward to represent using a 1D model.

xpswmm has incorporated the TUFLOW engine into a user-friendly graphical interface that steps the user through preprocessing of input data and the calculation of the model. All of **xpswmm**'s familiar tools for generating tables, graphs, and animations are available for reviewing, analyzing and presenting model results. New 2D and 3D animation tools make it easy to present results to managers and decision makers.

A powerful feature of **xpswmm** with 2D is its ability to dynamically link to any 1D (quasi-2D) model in an integrated fashion. The user sets up the model as a combination of 1D network domains linked to 2D domains as single model.

Applications

- Analyzing **trouble spots** in an existing 1D network - simulating surface flooding, its flow path and its recession after the storm.
- Analyzing **tidal surges, dam breaks and breaches** on 1D storm/sewer networks - the impact of surface flooding on an existing 1D network can be simulated far more accurately.

- Analysis of **dual drainage** - modeling of a road/subdivision design is enhanced with the ability to interactively simulate the parallel flow paths (surface flows in 2D and the 1D flow stormwater/sewer networks).
- Analysis of **broad surface drainage** - perfect application to design and analyze drainage of carparks, commercial sites, golf courses, etc.
- Analyzing impact of **flooding of non-connected 1D models** - ideal for analyzing the impact of cross surface flooding on adjacent non-connected 1D models such as parallel rivers, drainage canals, irrigation systems, etc.
- **Flood hazard mapping** - A perfect tool to map the extents of surface flooding (depth and velocity) that can be used to develop emergency response procedures and to design engineering solutions to mitigate the impact of the flooding.

An updated edition of the Getting Started manual accompanies each new purchase of xpswmm. All purchases of XP Software include 12 months free product upgrades & technical support. Comprehensive training classes are also held around the world.

About XP Software

XP Software is an established world leader of hydrology and hydraulics software products. Since 1974 the company has maintained a tradition of excellence in the development, marketing and support of hydro-environmental applications.

Currently over 4,000 organizations around the world are licensed users of XP Software products. XP Software clients range from sole practitioners to city municipalities, counties, leading authorities and global consulting firms with over 5,000 staff.

XP Software's global approach, utilizing partners in Australia, North America, South Korea, Malaysia, France and Japan, places XP Software at the leading edge of the hydro-environmental software market with rapidly evolving associated management systems including GIS, FIS, SCADA and Asset Management systems.

XP Software's North American office is located in Portland, OR. World headquarters are in Canberra, Australia.

For more information visit www.xpssoftware.com or contact your local office.

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