

Introduction

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About GFLOW

GFLOW is an analytic element model, which solves steady state groundwater flow in a single aquifer. GFLOW supports three-dimensional particle tracking, but employs the Dupuit-Forchheimer approximation, thereby ignoring resistance to vertical flow. GFLOW features a "MODFLOW extract" feature that allows a complete set of MODFLOW files to be written for a subdomain of the model. All aquifer properties and hydrological features are automatically duplicated in the MODFLOW files. Additional features are: areas of differing aquifer properties, horizontal barriers with resistance to flow (slurry walls), 3D flow near a partially penetrating well, local transient flow near a well (Theis solution), steady state interface flow in coastal aquifers, and PEST support for parameter optimization. GFLOW supports both vector and raster graphics as background maps, including DXF, Shapefile, TIFF, JPG, etc.

GFLOW has been produced by Haitjema Software a subdivision of Haitjema Consulting, Inc. Henk Haitjema has written the GFLOW Help system and the GFLOW solver. Vic Kelson has written the original graphical user interface (GUI), which has been further developed and maintained by Mart Haitjema.

Last update of Help System: June, 2005.

Who to Contact

For technical support questions you may contact:

Dr. Henk Haitjema

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For new releases and additional documentation you should periodically visit:

www.haitjema.com

Installing and Uninstalling GFLOW

The GFLOW Install Script may be downloaded from www.haitjema.com (use download link in upper right-hand corner). Once downloaded double click the install script (.exe) file and follow the direction. You must have the proper administrative rights to your computer to properly install the program and all of its dependencies.

To uninstall the program, click on the *My Computer* icon, select *Add or Delete programs*, select GFLOW, click on *Remove*.

How to Use This Manual

You may print this manual for future reference, or access it from the *Help* menu while running GFLOW. After clicking on *Help* click on the *Contents* tab for an overview of *Help* topics. You may also conduct a search by topic name using the *Search* tab in GFLOW Help. When inside a dialogue box you may press *F1* to obtain context sensitive help. For background reading you may refer to the topics "Basic Concepts" and "GFLOW Modeling Concepts" or consult documents found in "References". You may also refer to documents in the *user application data folder under GFLOW* or access these documents from the GFLOW Help menu (PDF Help Files) or on the internet from www.haitjema.com