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DESCRIPTION OF iMOD

The iMOD Software contains the following executables (<xx>: optional bugfix-version number):

- The iMOD Graphical User Interface (**iMOD-GUI**):
iMOD_V4_1_<xx_>X32R.exe and **iMOD_V4_1_<xx_>X64R.exe**:
A computer program to perform a variety of graphical visualizations of Model Configurations and/or (in)directly related geographical information. The iMOD GUI itself is fully written in Fortran9x and compiled by the Intel Visual Fortran Compiler Professional v11.1.054 in conjunction with Winteracter 10 (Interactive Software Services Ltd (ISS)).
- The MODFLOW computational core (**iMODFLOW**):
iMODFLOW_V4_1_<xx_>X32R.exe and
iMODFLOW_V4_1_<xx_>METASWAP_SVN1233_X64R.exe:
iMODFLOW is partly based on the USGS MODFLOW2005 source code; for iMOD the USGS MODFLOW2005 source code has been expanded and extensively modified by Stichting Deltares.

The original USGS MODFLOW source code can be downloaded from the USGS website <http://www.usgs.gov/>. The original MODFLOW2005 source code incorporated in the Deltares-executables is covered by the USGS Software User Rights Notice; you should have received a

copy of this notice along with this program. If not, see <http://water.usgs.gov/software/help/notice>.

MetaSWAP has been developed by [Wageningen Environmental Research \(Alterra\)](#); the X64-bit **iMODFLOW**-executable includes the MetaSWAP-module SVN version number 1233, part of SIMGRO V7_3_3_1 as described in the SIMGRO-release notes ftp://ftp.wur.nl/simgro/doc/Change_log/Release_Notes_SIMGRO_V7_3_3_1.pdf.

iMOD user manual

A pdf-file of the latest version of the iMOD-user manual, downloadable from oss.deltares.nl/web/iMOD/user-manual.

NETCDF

iMOD makes use of functions available in the NetCDF library of www.unidata.ucar.edu. The file '**NetCDF.dll**' is redistributed together with the iMOD-executables. The NetCDF.dll-file can be used under the conditions as described in <http://www.unidata.ucar.edu/software/netcdf/copyright.html>.

OTHER REQUIREMENTS FOR THE USE OF iMOD

HARDWARE PLATFORM & OPERATING SYSTEM

iMOD works on IBM-compatible personal computers equipped with at least:

1. a Pentium or compatible processor;
2. 512 MB internal memory (2045MB recommended);
3. 100 MB available on the hard disk (10GB is recommended in case large model simulations need to be carried out);
4. A graphics adapter with 32 MB video memory and screen resolution of 800-600 (256MB video memory and a screen resolution of 1024x768 is recommend). Moreover, an graphical card that supports OpenGL (OpenGL is a trademark of Silicon Graphics Inc.), such as an ATI Radeon HD or NVIDIA graphical card is necessary to use the 3D rendering.
5. Additional third party MPI-software for using the PKS-package, see the iMOD installation instructions.

Please note: it is permitted to install the Model System on a different Hardware Platform as long as it is a computer similar to the above-mentioned computer. The transfer of the Model System to a dissimilar computer may endanger the working of the Model System and require adjustments in the Configuration.

iMOD-GUI is available for a 32- and 64-bit system and runs on the following platforms: Windows XP / Server 2003 / Vista Business / Vista Ultimate / Server 2008 / 7 / 10; the 64-bit version of the **iMODFLOW**-executable includes MetaSWAP, the 32-bit version does not include MetaSWAP.

SYSTEM SOFTWARE

Adobe Acrobat is a family of [application software](#) developed by [Adobe Systems](#) to view, create, manipulate, print and manage files in [Portable Document Format](#) (PDF). All members of the family, except **Adobe Reader** (formerly Acrobat Reader), are commercial software; Adobe Reader however, is available as [freeware](#) and can be downloaded from Adobe's web site. Adobe Reader enables users to view and print PDF files but has negligible PDF creation capabilities. Acrobat and Reader are widely used as a way to present information with a fixed layout similar to a paper publication.

Stichting Deltares,

Boussinesqweg 1,

P.O. Box 177,

2600 MH Delft, The Netherlands.

Tel: +31 (0) 88 335 82 73, Fax: +31 (0) 88 355 85 82,

e-mail: info@deltares.nl, web: www.deltares.com

Chamber of Commerce no. 41146461