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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_V5_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 v2019.1.144 in conjunction with Winteracter 11h (Interactive Software Services Ltd (ISS)).
- The MODFLOW computational core (**iMODFLOW**):
iMODFLOW_V5_1_<xx>METASWAP_SVN1523_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 1523, part of SIMGRO

V8_0_0_7 as described in the SIMGRO-release notes ftp://ftp.wur.nl/simgro/doc/Report_913_3_V8_0_0_7.pdf

- The SEAWAT computational core (**iMOD-WQ**):
iMOD-WQ_V5_1_<xx>_svn352_x64r.exe:
iMOD-WQ is a computer program to perform calculations for density-dependent flow and reactive transport. iMOD-Water Quality is a combination of three codes: Seawat v4, MT3DMS v5.3 and RT3D v2.5 and has been expanded and extensively modified by Stichting Deltares. The original USGS source codes of the three codes can be downloaded from the USGS website <http://www.usgs.gov/>.

iMOD user manual

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

OTHER REQUIREMENTS FOR THE USE OF iMOD

HARDWARE PLATFORM & OPERATING SYSTEM

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

- a Pentium or compatible processor;
- 512 MB internal memory (2045MB recommended);
- 100 MB available on the hard disk (10GB is recommended in case large model simulations need to be carried out);
- 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, a 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.
- 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 has been tested on 64-bit versions of Windows 10 platforms only. **iMODFLOW** has been tested on 64-bit Windows 10 platforms only. The 64-bit version of the **iMODFLOW**-executable includes MetaSWAP. **iMOD-WQ** has been tested on 64-bit Windows 10 platform only.

On request the **iMOD-GUI** and the **iMODFLOW**-executable are available for 32-bit Windows systems. The 32-bit version of iMODFLOW 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.

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