FABM instructions

Creating empty models: <https://github.com/fabm-model/fabm/wiki/Developing-a-new-biogeochemical-model#creating-an-empty-model>

How to build models: <https://github.com/fabm-model/fabm/wiki/Building-and-installing>

1. Browse the 'Where to build the binaries' - e.g. C:\Users<user name>\build\fabm-0d (replace "fabm-0d" with a name that is appropriate for the driver you want to build FABM for). WARNING: some versions of CMake (e.g., 3.0.2) generate invalid makefiles for MinGW if the build directory is on a remote server (i.e., a path starting with \\); to avoid problems, place it on a local or mounted network drive instead.
2. Click the "Configure" button. This first time you do this, CMake asks you to select a build system generator; choose "MinGW Makefiles" and press the "Finish" button.
3. Now all configuration variables for the build system are listed. You can change these according to your preferences. After changing any variable, press the "Configure" button again - additional settings may appear.
4. If all configuration variables are set correctly, and you have clicked the "Configure" button until no new (red-coloured) configuration variables appear, press the 'Generate' button. This creates the MinGW make files.
5. Open a command prompt (run "cmd") and cd to the build directory (not the src directory!) defined above.
6. Type and run "mingw32-make install". Notes:
   * This install files in the directory indicated by the CMake variable CMAKE\_INSTALL\_PREFIX, shown in CMake-Gui.
   * To speed up the build process, you can do a parallel build by providing the argument -j N to mingw32-make, with N being the number of parallel jobs. This number is typically set equal to the number of cores of the machine you build on.
   * The installed files are specific to the currently selected source directory and CMake settings. If you want to build and install again with other settings, you have to go through steps 5-10 again. Typically, you would want to do so in a new, separate build directory.

Whenever you update the FABM source code by pulling in the latest version from the git repository, you have to rerun "mingw32-make install" in all build directories. It is not needed to rerun CMake itself.

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