

How to install GMT on Cygwin

This page describes how to install [Generic Mapping Tools](#) (GMT) on [Cygwin](#).

Reference: <http://gmt.soest.hawaii.edu/projects/gmt/wiki/BuildingGMT#Cygwin>

Reference: <http://trac.osgeo.org/gdal/wiki/BuildingOnUnix>

Reference: '<http://gmt.soest.hawaii.edu/projects/gmt/wiki/BuildingGMT#Building-GMT-from-source>'

Step-by-step guide

Install the following packages using the cygwin installer.

```
cmake, fftw, fftw-devel, gcc, g++, ghostscript, gv, libnetcdf7, libnetcdf-devel,
libpcre, libpcre-devel, make, openssh, subversion, xinit, zlib, zlib-devel
```

Set the environmental variable `HDF5_DISABLE_VERSION_CHECK=2` by adding the following line to the `.bashrc` file in the cygwin home folder (Omitting this step will cause an error):

```
export HDF5_DISABLE_VERSION_CHECK=2
```

Download the latest stable 'gdal' source code from '<http://download.osgeo.org/gdal>', and extract it to a temporary folder (e.g. '\$HOME/builds/'), and run the following commands:

```
cd $HOME/builds/gdal-<version>
./configure --prefix=$HOME/opt/gdal-<version>
make
make install
```



Replace <version> with the version of 'gdal'

Download the latest stable GMT source code from '<http://gmt.soest.hawaii.edu/projects/gmt/wiki/Download>', along with 'gshhg-gmt' and 'dcw-gmt', and extract the source codes into a temporary build folder (e.g. '\$HOME/builds/').

In the GMT source folder, copy `cmake/ConfigUserTemplate.cmake` to `cmake/ConfigUser.cmake` and edit the file. For example:

```
set (CMAKE_INSTALL_PREFIX "/home/<username>/opt/gmt5")
set (GSHHG_ROOT "/home/<username>/builds/gshhg-gmt-2.3.4")
set (COPY_GSHHG TRUE)
set (DCW_ROOT "/home/<username>/builds/dcw-gmt-1.1.2")
set (COPY_DCW TRUE)
set (GDAL_ROOT "/home/<username>/opt/gdal-2.0.1")
```



Replace <username> with your actual username.

Build and install GMT:

```
cd <path to GMT>
mkdir build
cd build
cmake ..
make
make install
```

Set up the PATH environmental variables for GMT and GDAL by adding the following line in '.bashrc' file in the cygwin home folder:

```
export PATH=$PATH:$HOME/opt/gmt5/bin:$HOME/opt/gdal-2.0.1/bin
```

Related articles

- [How to install GMT on Cygwin](#)