Procesamiento de series de tiempo en GRASS GIS

Aplicaciones en Ecología y Ambiente

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Let's install GRASS GIS

https://grass.osgeo.org/download/software/

GRASS 7.4 (current stable version, more...)
Current stable release, see New Features74 and GRASS GIS 7.4.0 announcement
Long term release (LTS).

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Binaries

- GNU/Linux
- MS-Windows
- Mac OSX

Source code

See source code download page

Download source code from SVN repository

Release notes

Manuals

- User manuals
- Programmer's 7 manual
- Compiling source code

MS Windows users

Download the **OSGeo4W installer** from:

https://trac.osgeo.org/osgeo4w

*Important: Right-click over the installer and execute it with **Administrator** privileges*

- Select **Advance install**

- Select **Install from internet**

- Leave the "Install directory" set by default

- Choose *osgeo* server to download software from

- Under *Desktop applications*, select **GRASS GIS stable** and **QGIS desktop**

- Under *Lib*, select **qgis-grass-plugin7**, **matplotlib**, **python-pip**, **python-ply** and **python-pandas**

- Under *Command line utilities* select **msys**

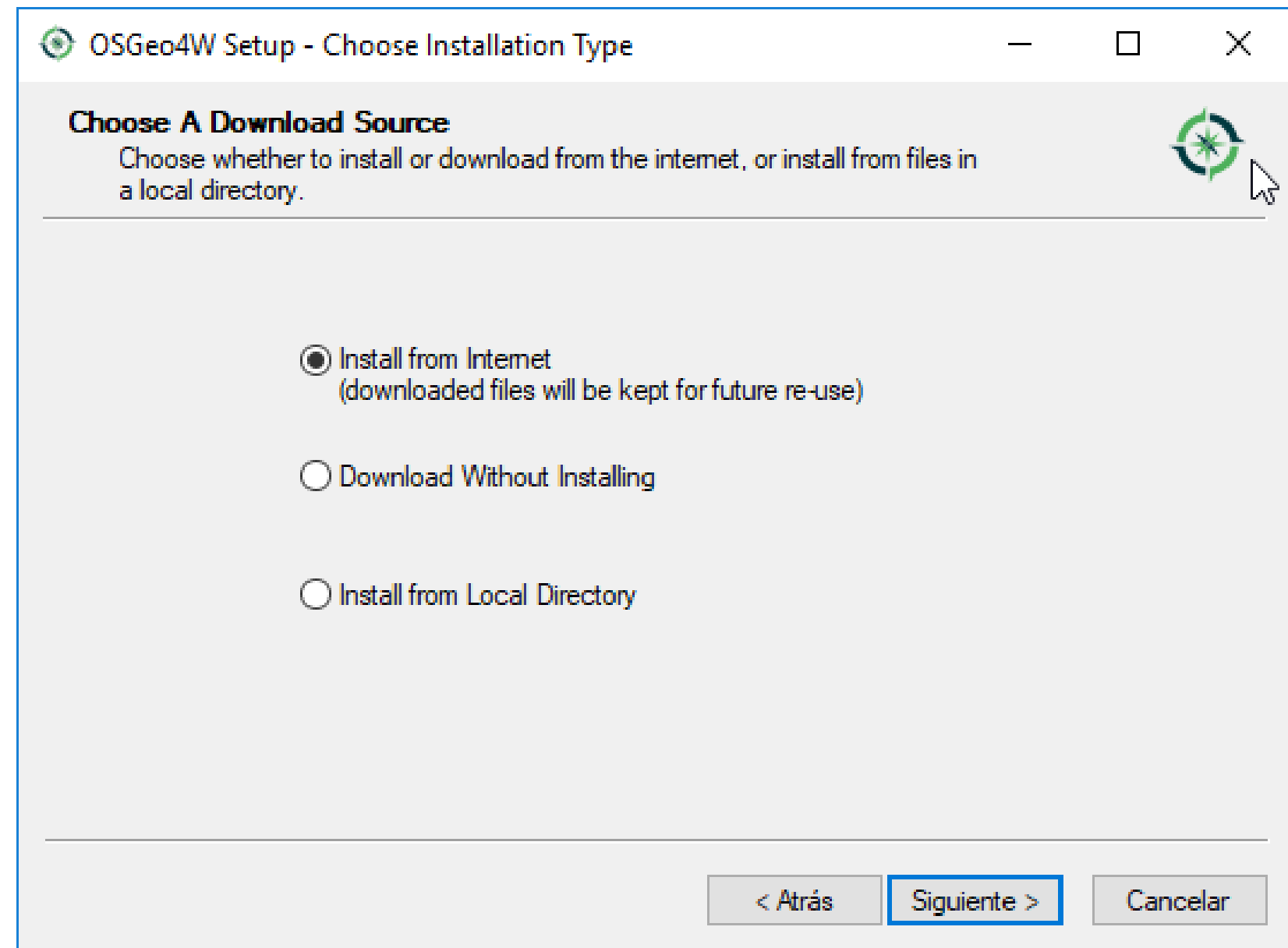- Wait for download and installation of packages, and done!
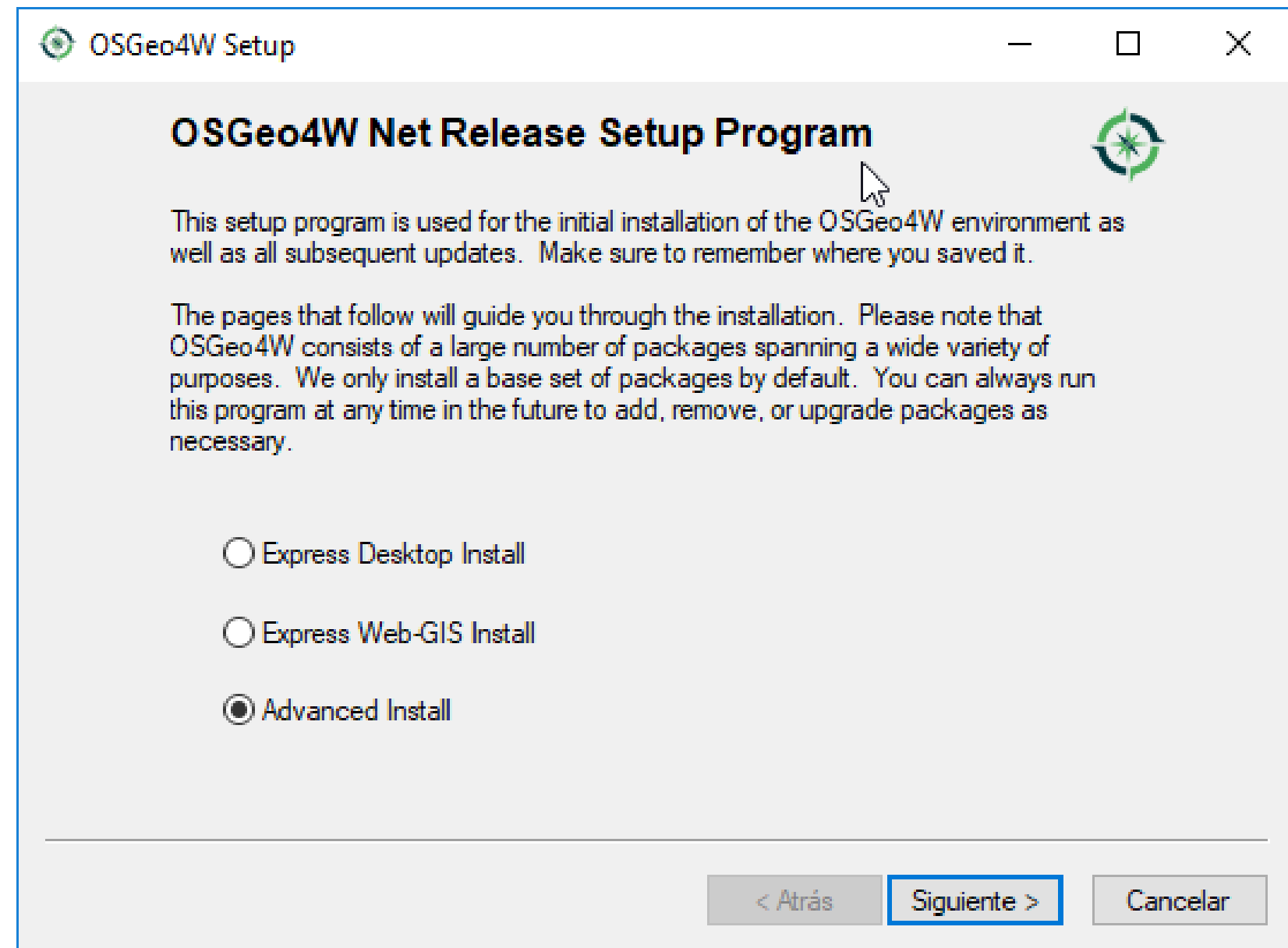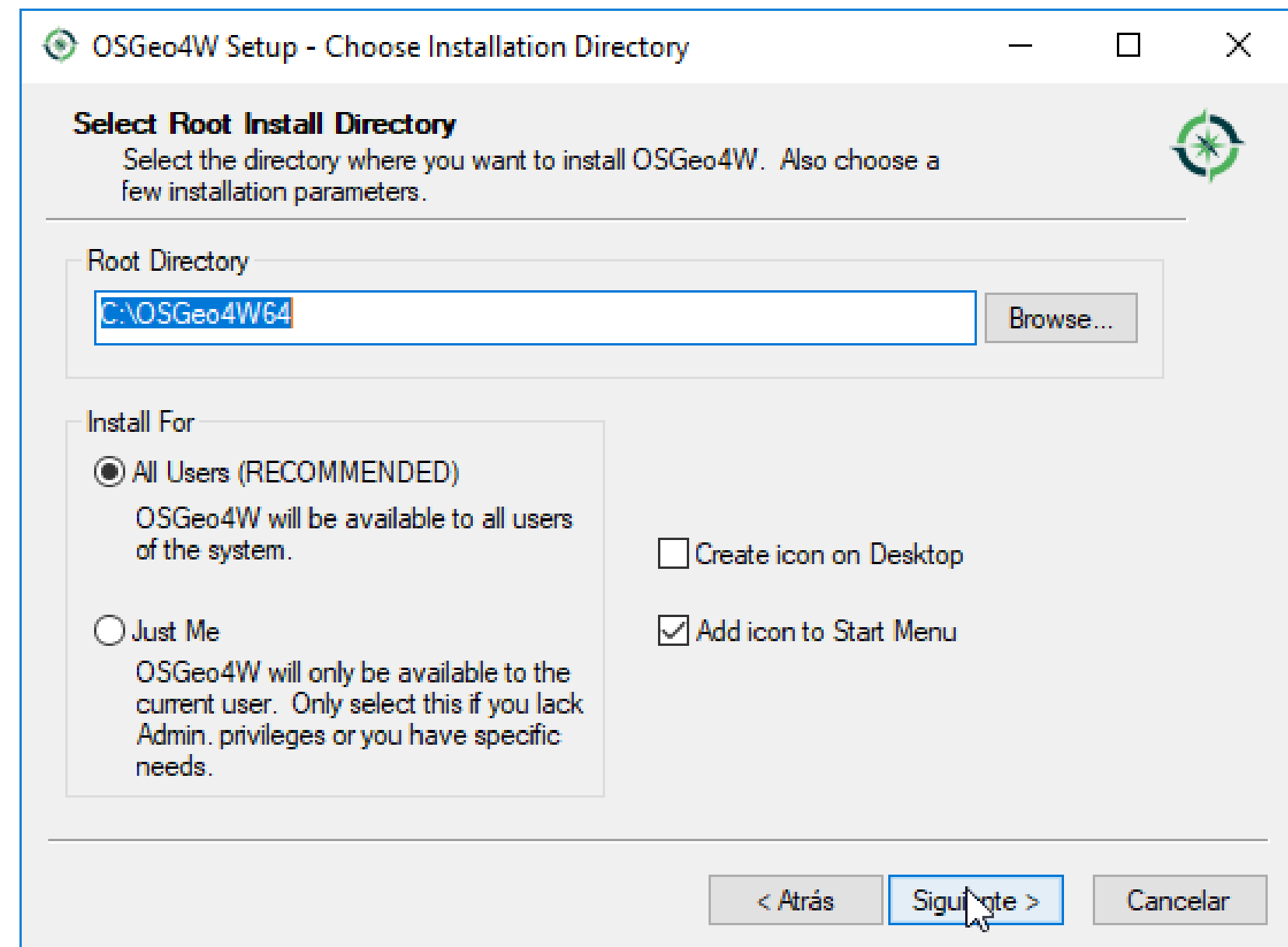
Select **Advance install**

1.
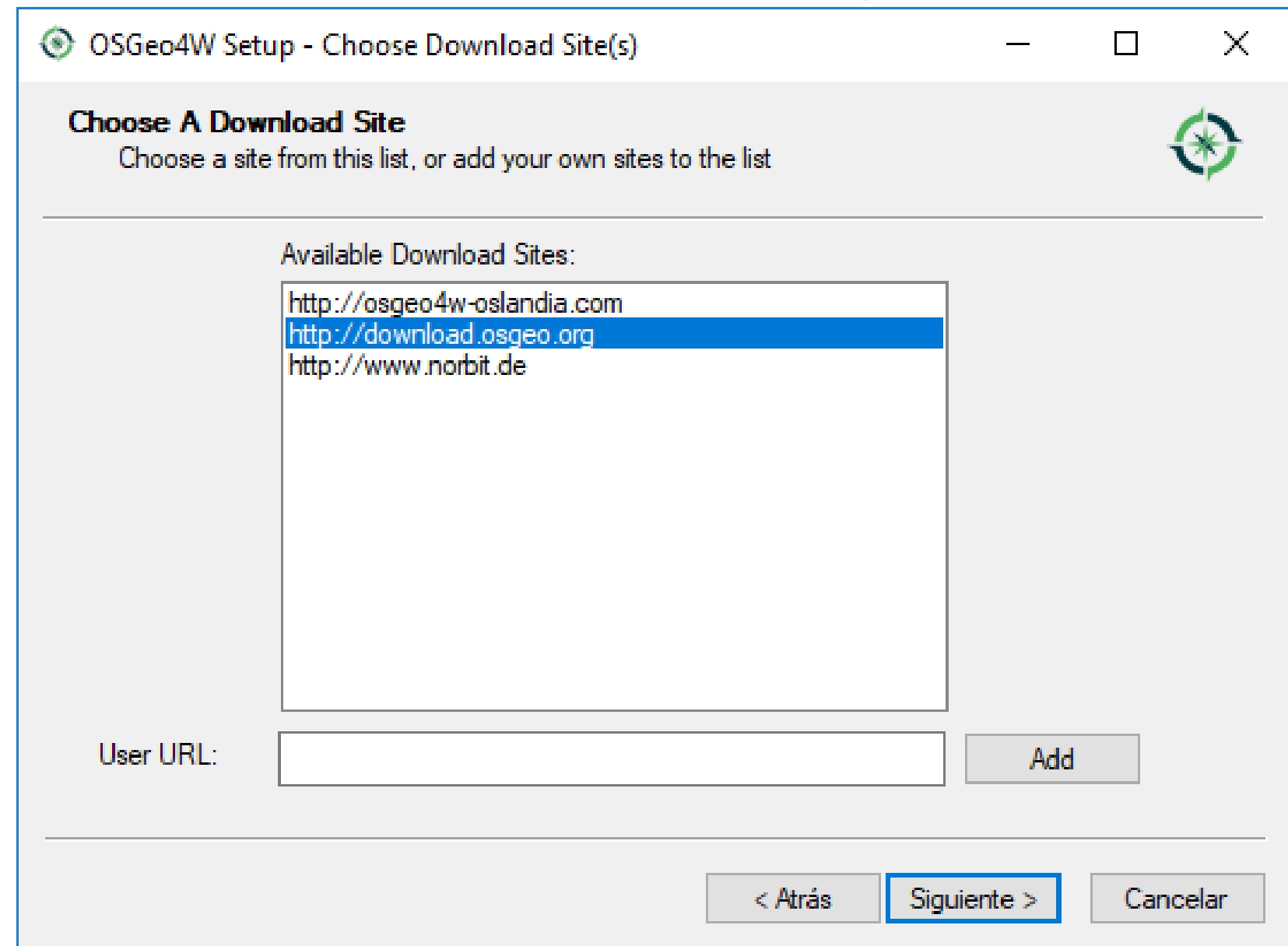
Select **Install from internet**

Leave the "Install directory" set by default
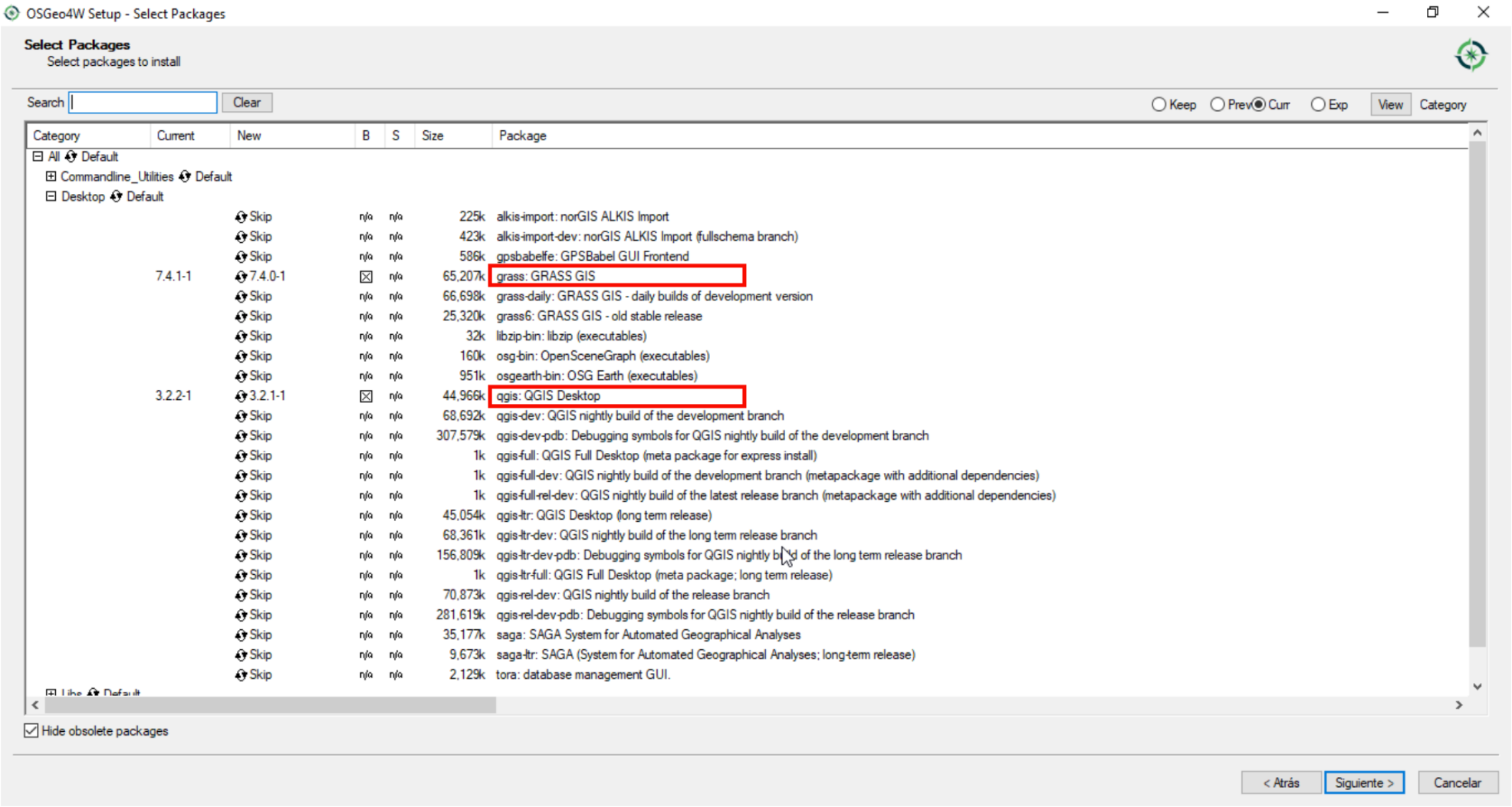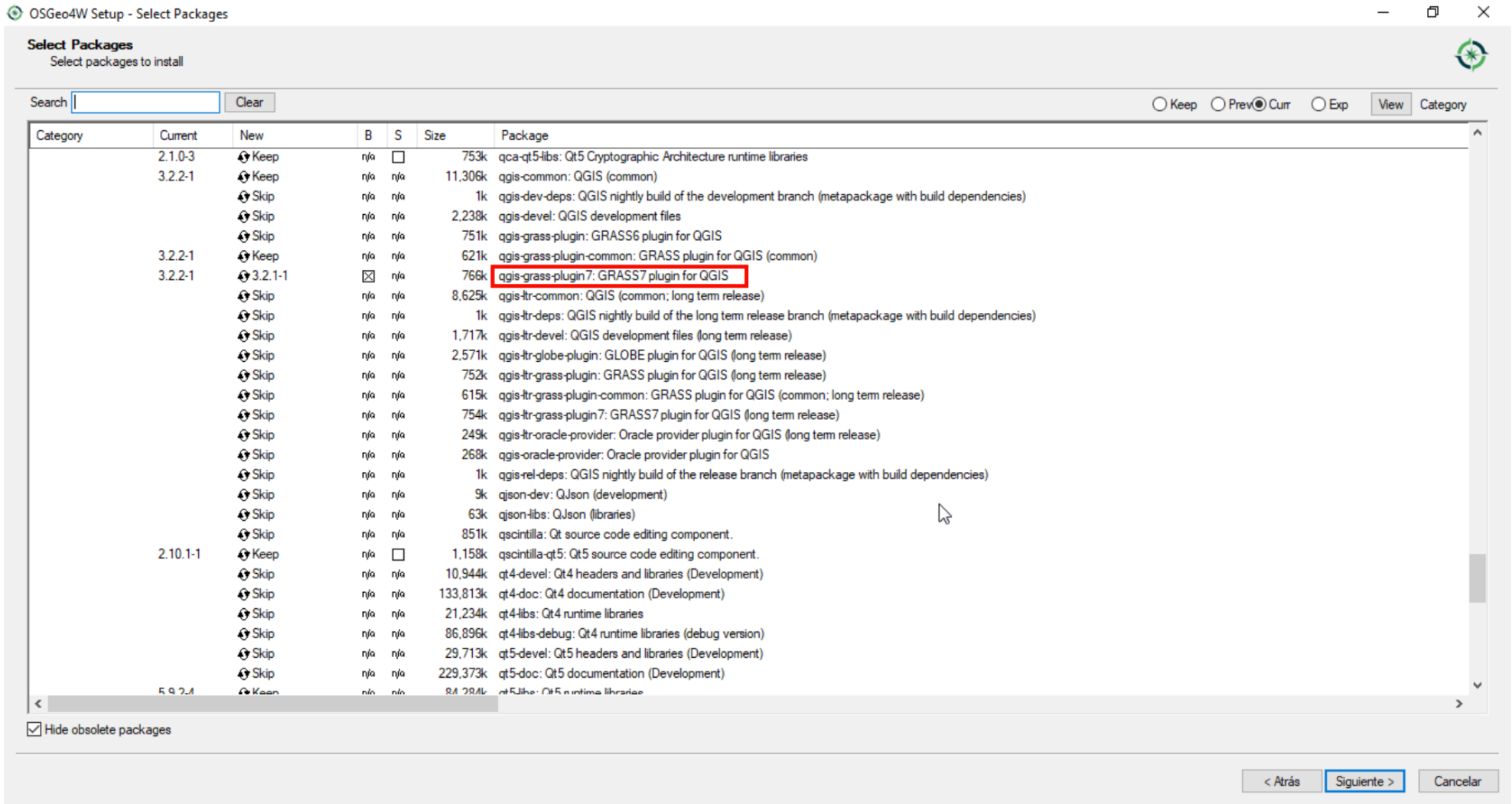
3.

Choose *osgeo* server

Under *Desktop applications*, select **GRASS GIS** and **QGIS desktop**

5.

Under *Lib*, select **qgis-grass-plugin7**, **matplotlib**, **python-pip**, **python-ply** and **python-pandas**

6.

Under *Command line utilities* select
msys

7.
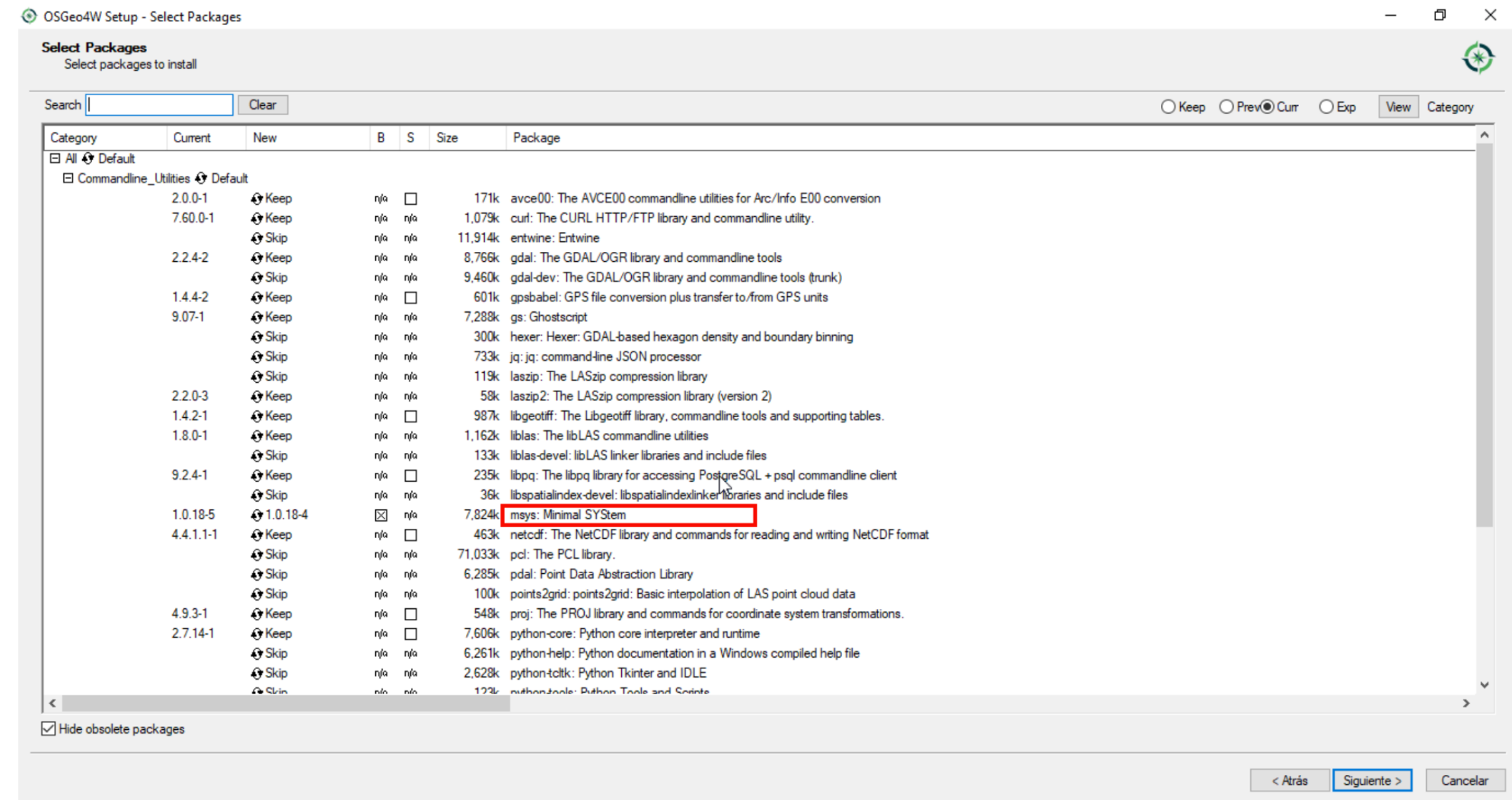
Note: the installer will fetch all other needed dependencies for the applications selected

Wait for download and installation, and done :)

8.

OSGeo4W Setup - Installation Status and Create Icons

Installation Status
OSGeo4W installation completed successfully.

Installation Complete

< Atrás   Finalizar   Cancelar
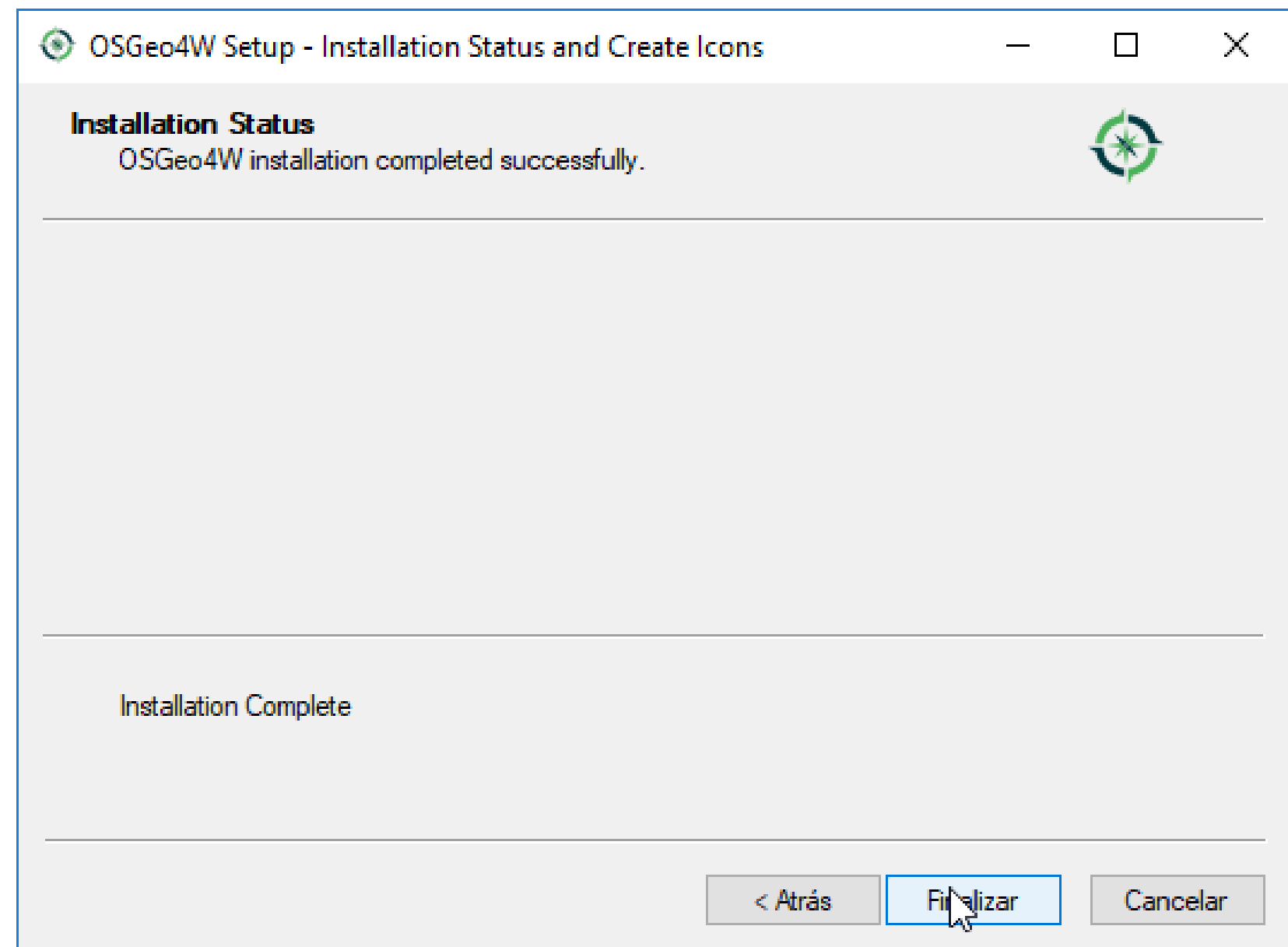
To update, just open the "OSGeo4W Setup" and start again

Super easy!

Mac OS users

Download GRASS GIS 7.4.1 stable from:
http://grassmac.wikidot.com/downloads

and follow the instructions under *Installing GRASS for Mac.*

Linux users

- **Ubuntu**: Install GRASS GIS 7.4 from the "unstable" package repository

```
sudo add-apt-repository ppa:ubuntugis/ubuntugis-unstable
sudo apt-get update
sudo apt-get install grass
```

Linux users

- **Fedora**: Install GRASS GIS from the package manager

```
sudo dnf install grass
```

Other distros: https://grass.osgeo.org/download/software/

Other software we will use

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- **pymodis**: library to work with MODIS data. It offers bulk-download, mosaicking, reprojection, conversion from HDF format and extraction of data quality information. This library is needed by *i.modis* add-on.

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- **pymodis**: library to work with MODIS data. It offers bulk-download, mosaicking, reprojection, conversion from HDF format and extraction of data quality information. This library is needed by *i.modis* add-on.
- **sentinelsat**: Utility to search and download Copernicus Sentinel satellite images from the Copernicus Open Access Hub. This library is needed by *i.sentinel* add-on.

Install pymodis and sentinelsat in Windows

- Open the **OSGeo4W shell** and run:

```
pip install setuptools
pip install pymodis
pip install sentinelsat
```

Install pymodis and sentinelsat in Mac and Linux

- Open a terminal and run

```
pip install setuptools
pip install pymodis
pip install sentinelsat
```

We are set, let's start!

Thanks for your attention!!

Move on to:

GRASS GIS General capabilities

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