# Installations needed to run the downloading script

## 0. R and R studio

First download R (http://cran.rstudio.com/) and then R studio (<http://www.rstudio.com/ide/download/desktop>).

## 1.  OSGEO4W Setup

This is needed to have access to gdal and proj4 libraries

1)      If not already installed, install the OSGeo4W suite (<http://trac.osgeo.org/osgeo4w/>). Use the “Advanced Installation” option and select the following packages:

a.       In the “Commandline\_Utilities” section

                                                               i.      Gdal

                                                             ii.      Libgeotiff

                                                            iii.      Proj

                                                           iv.      Shell

b.      In the “Libs” section:

                                                               i.      Gdal

                                                             ii.      Gdal-autotest

                                                            iii.      Gdal-filegdb

                                                           iv.      Gdal-mrsid

                                                             v.      Gdal-python

                                                           vi.      Gdal-oracle

                                                          vii.      Hdf4

                                                        viii.      Hdf5

                                                           ix.      Libgeotiff

                                                             x.      Libjpeg

                When prompted, let OSGEO4W install other needed packages

(IF OSGEO is already installed, just check that the needed packages are already installed on the system, by running the OSGEO4w installation .exe using the “advanced” option

2)      Add a new “GDAL\_DATA” system variable to windows

a.       Go to “Control Panel  System Advanced System Settings Environment Variables

b.      In “System Variables”, click “New”

c.       Variable name = GDAL\_DATA; Variable Value = Path to the gdal\_data folder (a folder within the OSGEO4W main folder, containing the file “gdal\_datum.csv”') (e.g., “C:\OSGeo4W64\share\gdal”)

d.      Click Ok

3)      Add the path to the gdal “ bin” folder to the Windows “Path” system variable

a.       Go to “Control Panel  System Advanced System Settings Environment Variables

b.      In “System Variables”, click on “Path”  and then “Edit”

c.       Go at the end of the current string, add a semicolumn (”;”) and then the path to the gdal bin folder (the one where, for example, “gdalwarp resides) (e.g., “C:\OSGeo4W64\bin”)

d.      Click Ok