

Instructions to use the script version

Download the archive with the required input shapefiles, **shp2rgeoname.zip**, from ERACLIM Meteorological Database: <http://eraclim2.rd.ciencias.ulisboa.pt/#>

- There is a link at the bottom of the page: "**Files needed for QC country location Tool**"

The archive has 227 MB. Can't upload on GitHub (allows files with the maximum of 25 MB).

Unzip **shp2rgeoname.zip**, rename the folder and set it as the working directory in Rstudio.

Copy the **text file with the coordinates** into the working directory.

Copy the content of **R_functions** directory to the working directory.

In RStudio

Write:

```
install.packages(c("sp", "rgdal"))  
library("sp", "rgdal")
```

Then:

1. If the longitudes are in the range [0, 360], use *get_lon180()* to transform it to [-180, +180], else go to step 2.
Open the script *get_lon180.R*
Click *Source*
Type *get_lon180()*
Then execute 2, 3, and 4, following that order, and stop when left no points without name.
2. Open the script *get_country.R*
Click *Source*
Type *get_country()*
3. Open the script *1_get_marine.R*
Click *Source*
Type *get_marine()*
4. Open the script *2_get_country_sea.R*
Click *Source*
Type *get_country_sea()*
5. At the end of the process, restore the initial order of the records:
Open *order_data.R*
Click *Source*
Type *order_data()*

For more details, see the .Rd files with the documentation about the functions.