Dear participants to Module II,

We are looking forward to meeting you in person on July 17th in Capo Granitola. Before you get there, there is some software that you need to install on your laptops.

Going in order, the course will be hands on, so you must bring your laptop and have administrator rights to install/uninstall things.

Then we are going to work in a RStudio environment, so please install RStudio RStudio Desktop 1.0.143 here:

https://www.rstudio.com/products/rstudio/download/

Then install R Core Version 3.3.3 in both 32 and 64 bit

https://cran.r-project.org/bin/windows/base/old/3.3.3/

There is a number of additional R packages that you should manage to install also before you start the course, these are the Fisheries Libraries in R (FLR).

Installation guide:

In an R session run the command that will install FLR packages from the Github repository. You need to be on R 32 bit to install everything. Not all FLR packages will work on Macintosh machines, so we advise working in either Windows or Linux Operating Systems or if you have only a MAC we suggest using a virtual machine with either Linux or Windows.

install.packages("FLCore", repos="http://flr-project.org/R")

by replacing "FLCore" in the line above, proceed to install FLXSA, FLBRP, ggplotFL, Flash, mpb

For FLR a4a

## Installation

To install this package, start R and enter:

install.packages(c("copula","triangle", "coda"))

followed by

install.packages("FLa4a", repos="http://flr-project.org/R")

For SPICT

**Installing the spict package**

To install spict from GitHub use

library(devtools)

install\_github("mawp/spict/spict") # master branch

**Windows**

The above procedure using install\_github() should now work on Windows (make sure to remove spict before trying to reinstall). If it doesn't work the old, but tedious, procedure can be used:

1. Start 64 bit R and change working directory to the (cloned or unzipped) spict folder.
2. From R run: source("install\_windows.R")

This requires that Rtools is installed. Rtools can be obtained [here](https://cran.r-project.org/bin/windows/Rtools/). When running install\_windows.R remember to set your working directory to the spict directory containing install\_windows.R.