

Improving the Analysis of Fisheries Data: An Introduction to R and the Fisheries Library in R (FLR)



FISHREG

Maritime Affairs Unit - IPSC
European Commission
Joint Research Center

Day 1 - Summary

- Installed R and RStudio
- Took a tour of RStudio
- R basics:
 - How to get help (`?`, `RSeek`, ...)
 - Objects (single values, vectors, data frames)
 - Assignments (`<-`)
 - Operations (`+`, `mean`, `log()`, ...)
 - Vectors (subsetting)
 - Special values (`Inf`, `NA`, `NaN`)
 - Introduction to plotting

Day 2 - Summary

- Load data stored in text files
- Plot data and results
- Data exploration and analysis
- **for** loops
- Mapping

Day 3 - Summary

- Introduced **arrays**
- Introduced **FLCore** package
- **FLQuant** - the heart of **FLCore**
- **FLStock** objects

Day 4 - Summary

- Introduced **lists**
- Introduced **functions**
- Introduced **FLCore** package
- **FLIndex** objects
- **FLStocks** and **FLIndices** objects
- Tutorial on VPA
- Demo using FLXSA
- Demo on FLa4a
- **!! stock assessment contest !!**

Day 5 - Summary

- Creating an FLStock and FLIndex from text files
- Introduction to length slicing in FLa4a
- Worked with your own data

Usefull web pages

`https://github.com/iagomosqueira/RforFisheries`

`http://tyflr.flr-project.org`

`http://www.rseek.org`

`http://www.google.co.uk`





