

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



Usefull web pages

https://github.com/iagomosqueira/RforFisheries

http://tyflr.flr-project.org

http://www.rseek.org