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 **array**s
- Introduced **FLCore** package
- **FLQuant** - the heart of **FLCore**
- **FLStock** objects

Day 4 - Summary

- Introduced **list**s
- Introduced **function**s
- 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

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Usefull web pages

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https://github.com/iagomosqueira/RforFisheries
http://tyflr.flr-project.org
http://www.rseek.org
http://www.google.co.uk
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