

FLR and a4a for Quantitative Fisheries Science



FLR Team

Maritime Affairs Unit - IPSC

EC Joint Research Center



Welcome to the EC JRC, Ispra, Italy.





AGENDA

• TIMETABLE: 9.00 - 12.30 / 14.00 - 17.30

• BREAKS @ 10.30 / 15.30



LOGISTICS

Lunch

JRC Mensa

Dinner

- Hotel Europa
- Other places in Ispra
- Course dinner THU



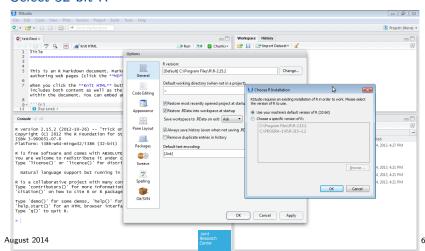
MATERIALS

- R 3.1: http:cran.r-project.org/
- RStudio: http://rstudio.org/
- git: http://msysgit.github.io/
- github account: http://github.com/



INSTALLATION

Select 32 bit R





INSTALLATION: packages

install.packages("")

- copula
- triangle
- mgcv
- splines
- plyr
- ggplot2
- knitr



INSTALLATION: packages

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

- FLCore
- FLEDA
- FLash
- ggplotFL
- FLBRP
- FLa4a



OUTLINE

- 1. Introduction to FLR
- 2. Loading data, plotting and EDA
- 3. Non-linear modelling
- 4. Stock assessment using a4a (I)
- 5. Stock assessment using a4a (II)
- 6. Reference points
- 7. Short and medium term forecasting for advice
- 8. From stock assessment to MSE



HOW WILL IT RUN

- Presentations
- Tutorials
- Exercises
- Paper of the day



Today's paper

Kell, L. T., Mosqueira, I., Grosjean, P., Fromentin, J-M., Garcia, D., Hillary, R., Jardim, E., Mardle, S., Pastoors, M. A., Poos, J. J., Scott, F., and Scott, R. D. 2007. FLR: an open-source framework for the evaluation and development of management strategies. -ICES Journal of Marine Science, 64: 640–646.





LICENSE

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ABOUT US

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lago Mosqueira - FLR, IOTC, MPs

Finlay Scott - BioEco, FLR

Nekane Alzorriz - BioEco, BoB



READING

- Using Version Control with RStudio
- Using GitHub with R and RStudio



READY!!

'Men learn while they teach.'

Seneca the Younger