

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

Taxis

Lunch

• JRC Mensa



Dinner Ispra

- Caffe del Lago. Via Lungolago Cristoforo Colombo. Tel. 0332782761
- Caffe Vespucci. Via Lungolago Cristoforo Colombo. Tel. 0332781589
- Pizzeria Julias e Benny. Via Milite Ignoto, 8. Tel. 0332 782538
- La Baita (German bar/restaurant) Via Milite Ignoto, 130.
 Tel.345 571 1972

Angera



Dinner

Ranco

- Bar Molo 2013. Via Lungolago. Tel 0331975190
- Belvedere Ranco. Via Pave, 11. Tel. 0331976609

Osmate

Trattoria delle Zucche. Via Maggiore, 30. Tel. 0331953569

Cadrezzate

• La Locanda. Piazza Garibaldi, 61. Tel 0331910003



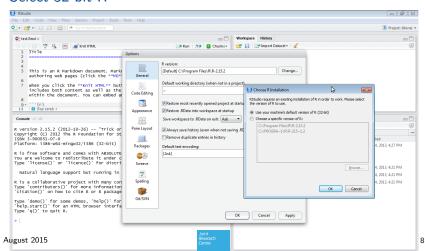
MATERIALS

- R 3.2: 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: CRAN packages

install.packages("")

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



INSTALLATION: FLR packages

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

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



INSTALLATION: all packages

source("http://flr-project.org/R/instFLR.R")



PROGRAMME

- 1. Introduction to FLR
- 2. Loading data, complex classes, plotting and EDA
- 3. Stock-recruitment, reproducible research
- 4. Modelling M and growth with a4a
- 5. Stock assessment using a4a
- 6. Reference points and short term forecasting for advice
- 7. More forecasting scenarios
- 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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Code: General Public License 3.0





ABOUT US

Nekane Alzorriz - BioEco, BoB

Ernesto Jardim - STECF, MPs, a4a

lago Mosqueira - FLR, IOTC, MPs

Chato Osio - Med, data-poor



ABOUT YOU

- Who and where from
- Use of R? FLR?
- Programming?
- Fisheries modelling?



READY!!

'Men learn while they teach.'

Seneca the Younger



Today's material

https://fishreg.jrc.ec.europa.eu/gitlab/r-training/201508-jrc/blob/master/Days/01-MON.zip: