Training Course USING FLR FOR QUANTITATIVE FISHERIES ADVICE

FISHREG

Maritime Affairs Unit - IPSC

European Commission

Joint Research Center

MONDAY

- Introduction to FLR
- FLCore
- FLQuant
- **Kell et al, 2007**

TUESDAY

- **Wickam, 2010**

AM

- FLStock
- Load data into FLR

PM

- FLSR
- `knitr` and reproducible research
- Plotting with `lattice` and `ggplot2`

WEDNESDAY

- **Schnute et al 2007**
- **a4a Report**

AM

- Biomass dynamics stock assessment
- VPA & XSA

PM

- a4a, an statistical catch-at-age
- FLAssess, FLXSA, FLa4a

THURSDAY

- **Hilborn, 2003**

AM

- Biological Reference Points
- Short and medium-term forecasting

PM

- Stochastic projections
- Intro to MSE
- Catch up, Q&A

FRIDAY

- Run your own analysis in groups

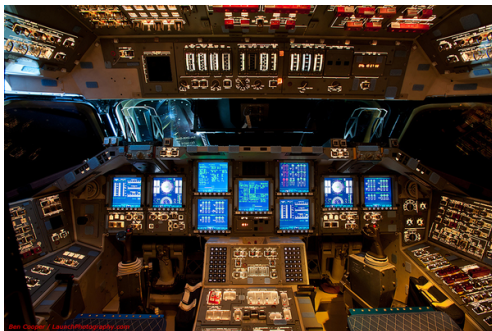# FINAL REMARKS

Quantitative Fisheries Science can be fun

Data analysis is sexy

Joint Research Centre

FLR is not that difficult

and it is open to everybody

FINAL REMARKS

- The power of programming vs. the learning curve
- Models as data-exploration tools, ask questions
- R as lingua franca: open exchange
- Document your work, allow replicability