The FLStock class

Maritime Affairs Unit G04 - IPSC
European Commission
Joint Research Center

The FLStock class

An FLStock is mean to represent the population dynamics of a given stock. The quantitative data that need to be measured and populate the FlStock are the following All quantities in a stock are stored in FLQuant objects. This allows for storage of by e.g. age or length, in years, units, seasons and areas.

- catch: # FLQuant holding the total catch (landings plus discards) in weight for all quants

*catch.n: # FLQuant holding the catch in numbers by quant

*catch.wt: # FLQuant holding the weight at quant in the catch, usually obtained from those for landings and discards

*discards: # FLQuant holding the total discards in weight for all quants

The FLStock class

*stock: # FLQuant holding the stock weight for all quants. Usually obtained from an assessment method

*stock.n: # FLQuant holding the stock numbers by quant, output from a quant-structured assessment method

*stock.wt: # FLQuant holding the weights at quant in the stock

*m: # FLQuant holding the natural mortality by quant

*mat: # FLQuant holding the maturity by quant, usually as a proportion

*harvest: # FLQuant holding the harvest mode rate by quant

*harvest.spwn: # FLQuant holding the fraction of the harvest mode ocurring before spawning

*m.spwn: # FLQuant holding the fraction of the natural mortality

Methods

- Calculations

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- Summary

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- Subset

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- Operations

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- Plot

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- Conversions

All at once