

Conditioning OMs using stock assessment fits

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Conditioning !?

Conditioning is about setting the stock and fleet dynamics with the objective of forecasting (aka projecting) into the future under controlled conditions (the management options).

Minimum requirements:

- ▶ growth
- ▶ reproduction
- ▶ productivity
- ▶ population abundance
- ▶ natural mortality
- ▶ fishing mortality
- ▶ catch

In practice:

In practice, we need to build FLStock, FLSR and FLBRP objects,
and we're going to use a stock assessment fit to do it !

In practice: stock

- ▶ mean weights at age in the stock
- ▶ maturity ogive or total productivity
- ▶ stock-recruitment model
 - ▶ parameters
 - ▶ residuals
- ▶ stock numbers at age
- ▶ natural mortality by age
- ▶ biological reference points
- ▶ ...

In practice: fishery

- ▶ fishing mortality by age
- ▶ catch number at age
 - ▶ landings numbers at age
 - ▶ discards numbers at age
- ▶ mean weights at age in the catch
- ▶ catch in weight
- ▶ ...

Uncertainty:

- ▶ model
- ▶ estimation
- ▶ recruitment
- ▶ ...

Next

Let's revisit our cod MSE.