Estimating natural mortality

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Natural mortality

$m = 0.2$

Other models

See Kenchington, 2013, Fish and Fsheries (29 estimators of m).
e.g.

Jensen's second estimator: m = 1.5 K

Gislason's first estimator: m = 1.73 l^(-1.61) linf^1.44 K

a4aM - the m class

Three components:

- shape (age / length effect)
- level
- trend (time trend)

The `m()` method multiplies components to give m-at-age

Modelling uncertainty

Uncertainty comes through parameter uncertainty in each model.

Each model can have a variance-covariance matrix.

Combine this with an assumed distribution, e.g.:

- Multivariate normal
- Multivariate with triangular marginals (copulas)
- Something else using copulas

Result is an a4aM object with iterations.

Sample from this to get an FLQuant of m-at-age / length with iterations.