Class 'Fleet'

The component of the operating model that controls fishing dynamics

Slots

Name
Name of the Fleet object

nyears
The number of years for the historical simulation

Spat_targ
Distribution of fishing in relation to spatial biomass: F is proportional to B^Spat_targ (uniform distribution)

Esd
Inter-annual variability in fishing mortality rate

EffYears
Vector of verticies, years at which to simulate varying relative effort

EffLower
Lower bound on relative effort corresponding to EffYears (uniform distribution)

EffUpper
Uppper bound on relative effort corresponding to EffYears (uniform distribution)

LFS
Shortest length that is fully vulnerable to fishing (uniform distribution)

L5
Shortest length corresponding ot 5 percent vulnerability (uniform distribution)

Vmaxlen
The vulnerability of the longest (oldest) fish (uniform distribution)

SelYears
Vector of verticies, index for years at which historical selectivity pattern changed. If left empty, historical selectivity is constant

AbsSelYears
Optional values for SelYears, used for plotting only. Must be of same length as SelYears

L5Lower
Optional vector of values of length SelYears, specifiying lower limits of L5 (use `ChooseSelect` function to set these)

L5Upper
Optional vector of values of length SelYears, specifiying upper limits of L5 (use `ChooseSelect` function to set these)

LFSLower
Optional vector of values of length SelYears, specifiying lower limits of LFS (use `ChooseSelect` function to set these)

LFSUpper
Optional vector of values of length SelYears, specifiying upper limits of LFS (use `ChooseSelect` function to set these)

VmaxLower
Optional vector of values of length SelYears, specifiying lower limits of Vmaxlen (use `ChooseSelect` function to set these)

VmaxUpper
Optional vector of values of length SelYears, specifiying upper limits of Vmaxlen (use `ChooseSelect` function to set these)

qinc
Average percentage change in fishing efficiency (uniform distribution)(applicable only to forward projection and input controls)

qcv
Inter-annual variability in fishing efficiency (uniform distribution)(applicable only to forward projection and input controls)

isRel
Are the selectivity parameters relative to size-of-maturity? TRUE or FALSE

CurrentYr
The current calendar year (final year) of the historical simulations (e.g. 2011)

Objects from the Class

Objects can be created by calls of the form `new('Fleet')`

Examples

```
showClass('Fleet')
#> Class "Fleet" [package "DLMtool"]
#>
#> Slots:
#>
#> Name:          Name       nyears    Spat_targ         Esd         qinc          qcv
#> Class:    character      numeric      numeric      numeric      numeric      numeric
#>
#> Name:      EffYears     EffLower     EffUpper     SelYears  AbsSelYears           L5
#> Class:      numeric      numeric      numeric      numeric      numeric      numeric
#>
#> Name:           LFS      Vmaxlen      L5Lower      L5Upper     LFSLower     LFSUpper
#> Class:      numeric      numeric      numeric      numeric      numeric      numeric
#>
#> Name:     VmaxLower    VmaxUpper        isRel    CurrentYr
#> Class:      numeric      numeric    character      numeric
```

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Site built with pkgdown (http://hadley.github.io/pkgdown/).