Class 'Data'

An object for storing data for analysis using data-limited methods

Slots

Name
The name of the case-study

Year
A vector of years that correspond to catch and relative abundance data

Cat
Total annual catches

Ind
Relative abundance index

t
The number of years corresponding to AvC and Dt

AvC
Average catch over time t

Dt
Depletion over time t e.g. Bnow/Bthen

ML
Mean length time series

Mort
Natural mortality rate

FMSY_M
An assumed ratio of FMSY to M

BMSY_B0
The most productive stock size relative to unfished

L50
Length at 50 percent maturity

L95
Length at 95 percent maturity

Lbar
Mean length of catches over Lc (modal length)

Lc
Modal length

LFC
Length at first capture

LFS
smallest Length at full selection

CAA
Catch at Age data

Dep
Stock depletion Bnow/Bunfished (total stock)

Abun
An estimate of absolute current vulnerable abundance

SpAbun
An estimate of absolute current spawning stock abundance

vbK
The von Bertalanffy growth coefficient

vbLinf
Maximum length

vbt0
Theoretical age at length zero

wla
Weight-Length parameter alpha

wlb
Weight-Length parameter beta

steep
Steepness of the Beverton Holt stock-recruitment relationship

CV_Cat
Coefficient of variation in annual catches

CV_Dt
Coefficient of variation in depletion over time t

CV_AvC
Coefficient of variation in average catches over time t

CV_Ind
Coefficient of variation in the relative abundance index

CV_Mort
Coefficient of variation in natural mortality rate

CV_FMSY_M
Coefficient of variation in the ratio in FMSY/M

CV_BMSY_B0
Coefficient of variation in the position of the most productive stock size relative to unfished

CV_Dep
Coefficient of variation in current stock depletion

CV_Abun
Coefficient of variation in estimate of absolute current stock size

CV_vbK
Coefficient of variation in the von Bert. k parameter

CV_vbLinf
Coefficient of variation in maximum length

CV_vbt0
Coefficient of variation in age at length zero

CV_L50
Coefficient of variation in length at 50 per cent maturity

CV_LFC
Coefficient of variation in length at first capture

CV_LFS
Coefficient of variation in length at full selection

CV_wla
Coefficient of variation in weight-length parameter a

CV_wlb
Coefficient of variation in weight-length parameter b

CV_steep
Coefficient of variation in steepness

sigmaL
Assumed observaton error of the length composition data

MaxAge
Maximum age

Units
Units of the catch/absolute abundance estimates

Ref
A reference quota level

Ref_type
Its type

Log
A log of events

params
A place to store estimated parameters

PosMPs
The methods that can be applied to these data