1 Data structures

The following is a list of the input data structures used in data file for Gmacs.

Table 1: Input data structures

Variable	Symbol	Type	Description
styr	t	int	Start year
endyr	t	int	End year
tstep	NA	double	time step
ndata		int	number of data groups
nsex	s	int	number of sexes
nshell	v	int	number of shell conditions
nmature	m	int	number of maturity states
nclass	l	int	number of size classes in the model
ndclass	l	int	number of size classes in the data
ncol		int	number of columns in N-matrix (nsex*nshell*nmature*nclass)
psex		ivector	starting col pos for sex-specific N
pshell		ivector	starting col pos for shell-specific N
pmature		ivector	starting col pos for mature-specific N