MyDas

Species Productivity

Laurie Kell & Alex Tidd

14 March, 2018

Figure 1 r.
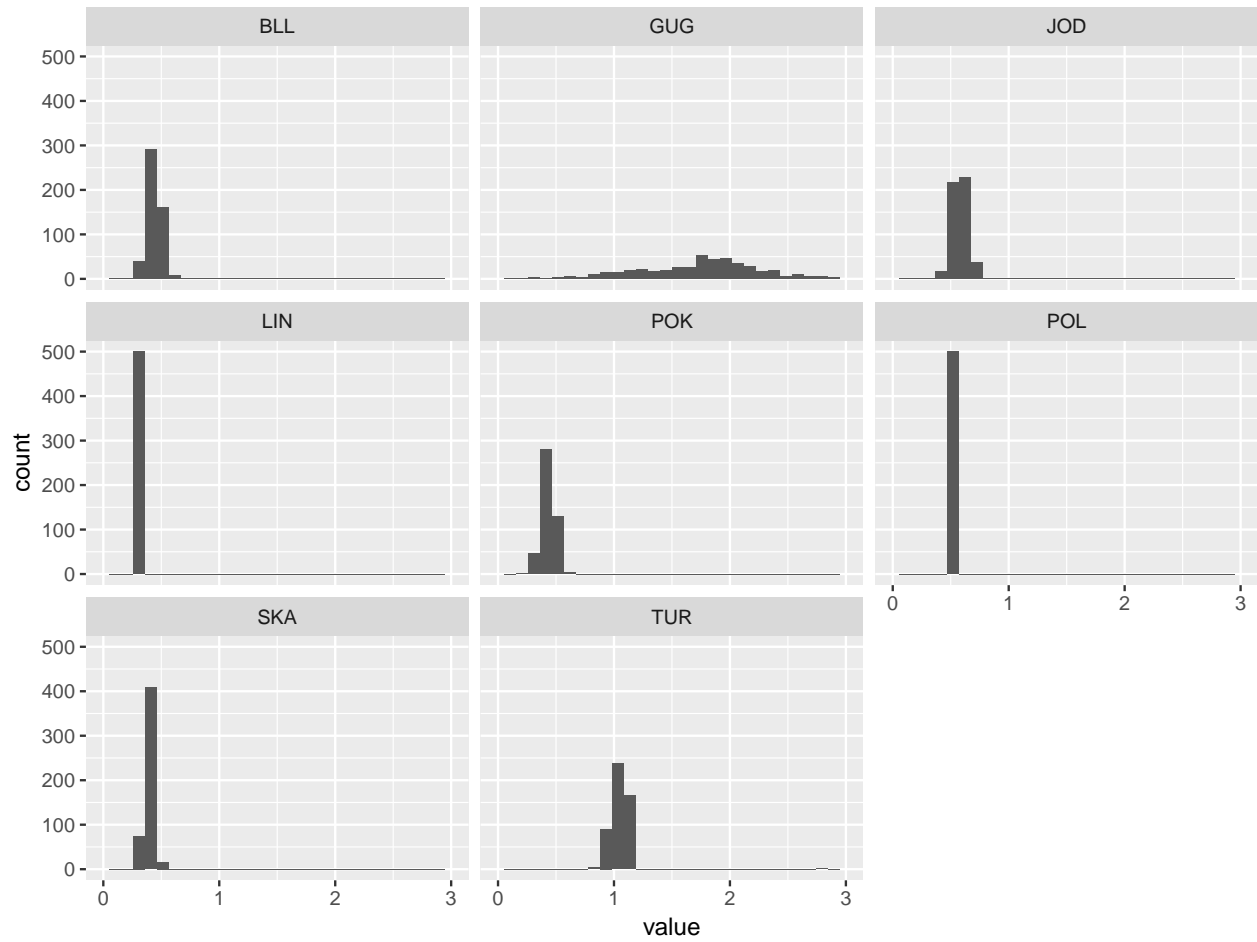
Table 1 Life history Parameters.

```
      params
code      linf         k     lmat         t0
  BLL  70.03667 0.1856667 37.00000        NaN
  GUG  41.15000 0.4292000 20.66667 -0.505000
  JOD  61.33333 0.2080000 37.00000        NaN
  LIN 153.50000 0.1368333 75.88333        NaN
  POK 122.95000 0.1552500 55.20000 -0.310000
  POL  85.60000 0.1880000 44.80000        NaN
  SKA 115.93333 0.1449444 73.90833 -0.908125
  SPR  16.00000 0.6500000 13.00000        NaN
  TUR  62.73750 0.2835875 47.80000 -1.035000
```

Table 2 Population growth rate at low population size (r) and at B_{MSY} (r.c).

```
      params
spp          r       r.c
  BLL 0.6693374 0.2697785
  GUG 1.3164062 0.5631371
  JOD 0.6795117 0.2640484
  LIN 0.4264742 0.1429467
  POK 0.3770285 0.1238228
  POL 0.6506699 0.2521247
  SKA 0.3619129 0.1107050
  SPR 4.3524131 2.9713488
  TUR 1.1108176 0.4488763
```

Table 3 Population doubling time at low population size (r) and at B_{MSY} (r.c).

```
      params
spp          r       r.c
  BLL 1.0355722 2.569320
  GUG 0.5265450 1.230868
  JOD 1.0200665 2.625076
  LIN 1.6252967 4.848989
  POK 1.8384477 5.597897
  POL 1.0652823 2.749224
  SKA 1.9152322 6.261207
  SPR 0.1592558 0.233277
  TUR 0.6239973 1.544183
```

```
An object of class "FLPar"
iters:  9


     params
var  k                    linf                 t0
  r    1.5821e+00(3.15e-01) -1.1588e-03(1.32e-03) -3.1021e-03(9.09e-03)
  r.c  1.1163e+00(2.04e-01) -1.0058e-03(1.18e-03)  2.0263e-03(1.38e-02)
     params
var  a50                  b                    bg
  r    1.2197e-01(1.12e-01)  0.0000e+00(0.00e+00) -7.6830e-02(6.15e-02)
  r.c  1.3280e-01(1.15e-01) -5.7702e-02(3.29e-02) -2.2734e-02(2.74e-02)
     params
var  s                    a1                   sl
  r    2.7624e+00(1.84e+00) -5.6064e-09(7.69e-10)  4.6500e-09(1.07e-09)
  r.c  9.0224e-01(8.69e-01) -2.7807e-03(4.61e-03)  2.3037e-03(3.20e-03)
```

```
      params
var   sr                     m1                     m2
  r    3.3685e-15(1.12e-14)  4.5905e-01(3.94e-01)  1.8696e+00(1.46e+00)
  r.c -8.1403e-10(2.35e-09)  3.9214e-01(3.60e-01)  1.5561e+00(1.34e+00)
      params
var   m3
  r    2.0285e+00(1.63e+00)
  r.c  1.7327e+00(1.50e+00)
units:  NA NA
```

r.c	linf	k	t0	lmat	
	Corr: 0.868	Corr: −0.868	Corr: 0.167	Corr: 0.851	r.c
		Corr: −0.962	Corr: 0.0814	Corr: 0.962	linf
			Corr: −0.0104	Corr: −0.937	k
				Corr: −0.351	t0
					lmat