

Body size trends in fossil tortoises

paleoTS Plot with the following bins (for fossil taxa):

- after including extant species, another bin is added: Modern, t=0

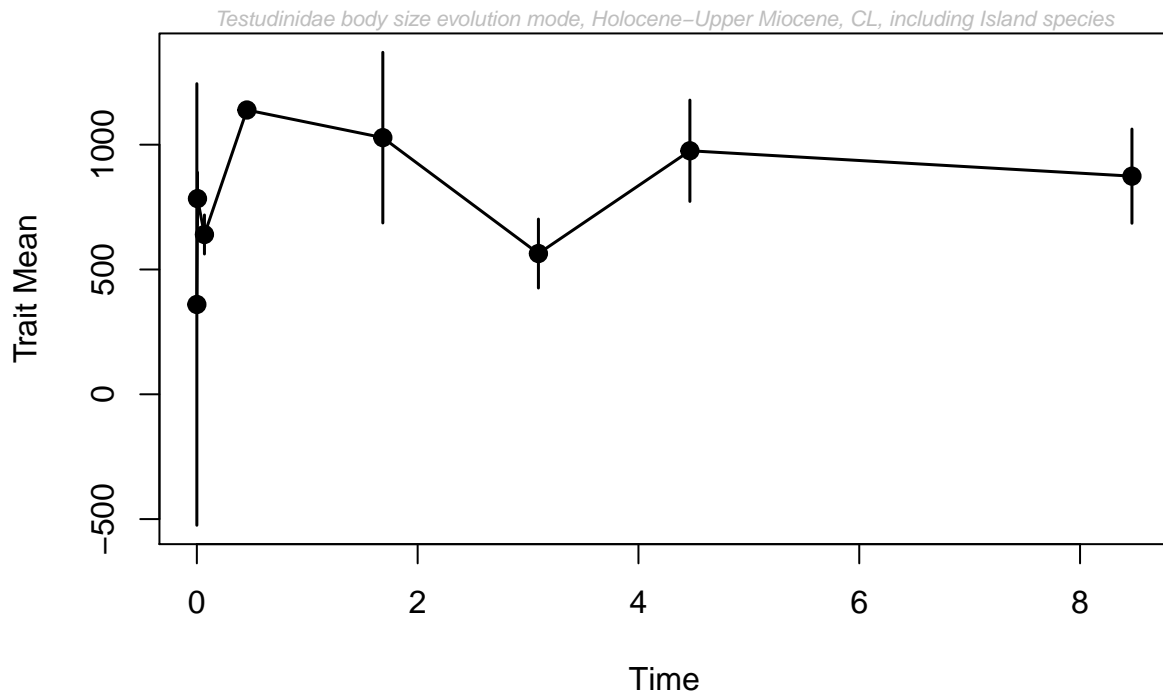
bin	n
(0,1e-06]	104
(1e-06,0.0117]	10
(0.0117,0.126]	9
(0.126,0.781]	2
(0.781,2.59]	8
(2.59,3.6]	13
(3.6,5.33]	14
(5.33,11.6]	16

bin	EpochBins	MeanBins
(0,1e-06]	Modern	0.0000005
(1e-06,0.0117]	Holocene	0.0058500
(0.0117,0.126]	Upper Pleistocene	0.0688500
(0.126,0.781]	Middle Pleistocene	0.4535000
(0.781,2.59]	Lower Pleistocene	1.6845000
(2.59,3.6]	Upper Pliocene	3.0940000
(3.6,5.33]	Lower Pliocene	4.4660000
(5.33,11.6]	Upper Miocene	8.4700000

including Island species (n=957)

paleoTS object (mm= mean CL, nn = sample size, vv = variance (CL), tt = Age):

mm	nn	vv	tt
359.8761	890	696253561.62	0.0000005
784.0000	9	99232.00	0.0058500
640.1956	9	54949.13	0.0688500
1139.0000	1	0.00	0.4535000
1028.1833	6	700699.16	1.6845000
563.8583	12	228833.55	3.0940000
975.6429	14	576600.86	4.4660000
873.9312	16	569550.77	8.4700000

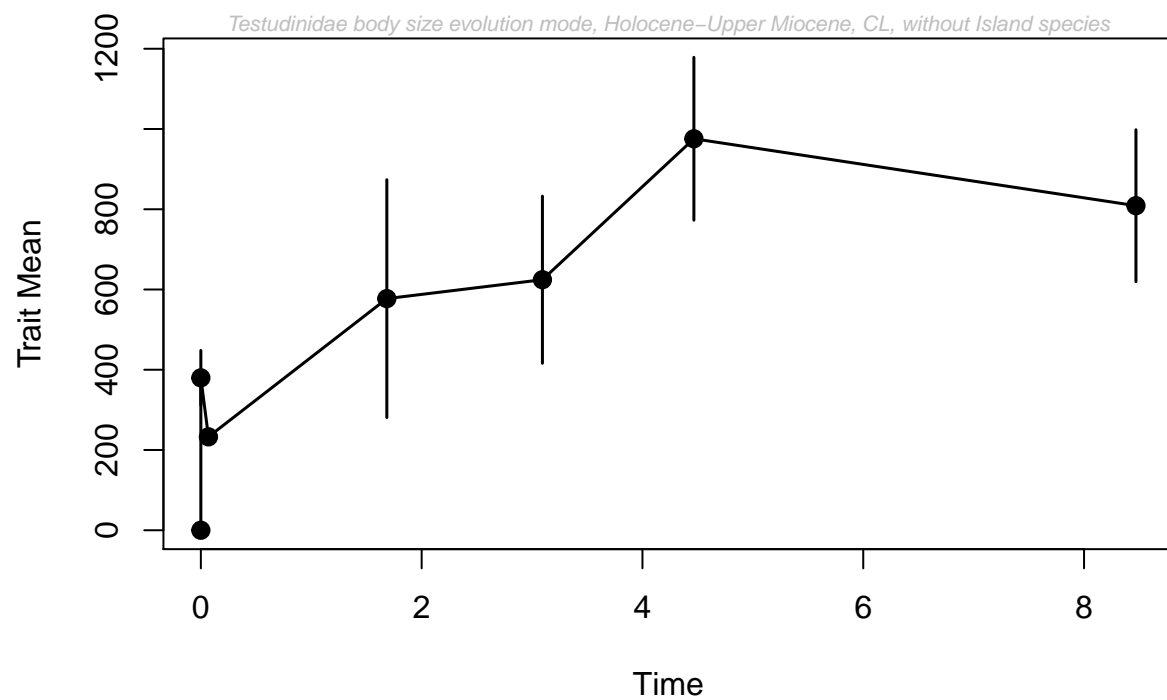


```
##
## Comparing 3 models [n = 7, method = AD]
##
##      logL K      AICc Akaike.wt
## GRW   -55.81092 2 118.6218      0
## URW   -60.74586 1 124.2917      0
## Stasis -47.81894 2 102.6379      1
```

	logL	K	AICc	Akaike.wt
GRW	-55.81092	2	118.6218	0
URW	-60.74586	1	124.2917	0
Stasis	-47.81894	2	102.6379	1

Excluding Island species (n= 212)

mm	nn	vv	tt
0.0000	85	0.0	0.0000000
379.8168	85	395659.9	0.0000005
232.7600	1	0.0	0.0688500
577.2750	4	351292.0	1.6845000
624.4125	8	346850.1	3.0940000
975.6429	14	576600.9	4.4660000
808.8600	15	537645.5	8.4700000



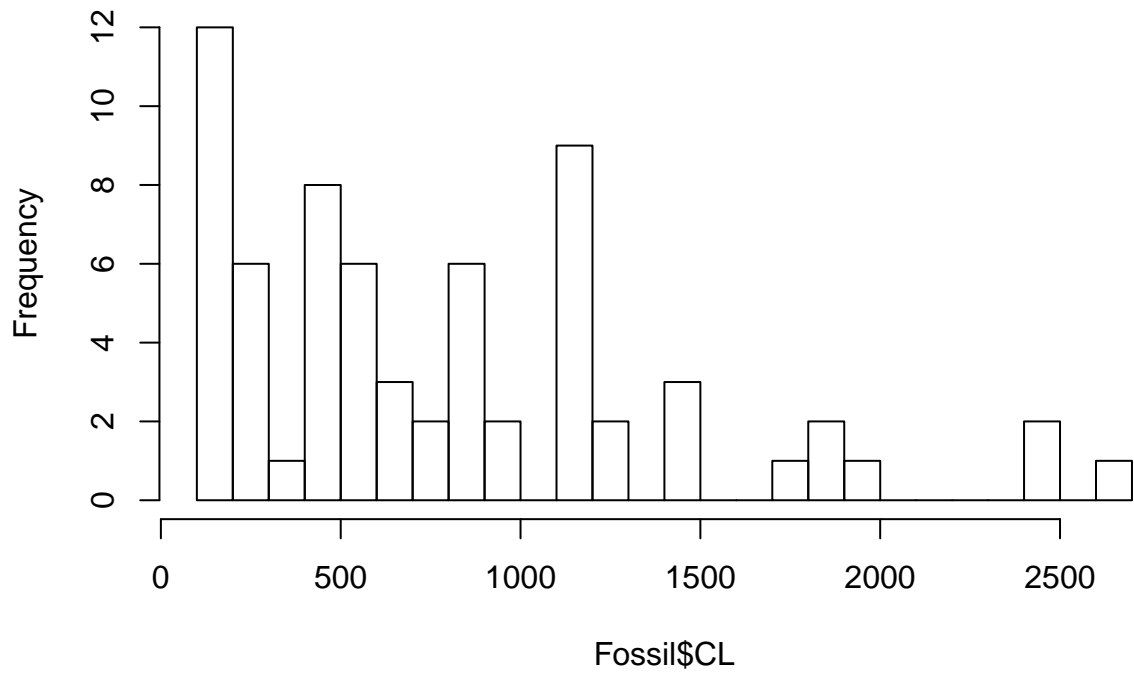
```
##
## Comparing 3 models [n = 6, method = AD]
##
##          logL K      AICc Akaike.wt
## GRW      -56.10976 2 120.21951      0
## URW      -56.15369 1 115.30737      0
## Stasis   -42.09071 2  92.18143      1
```

	logL	K	AICc	Akaike.wt
GRW	-56.10976	2	120.21951	0
URW	-56.15369	1	115.30737	0
Stasis	-42.09071	2	92.18143	1

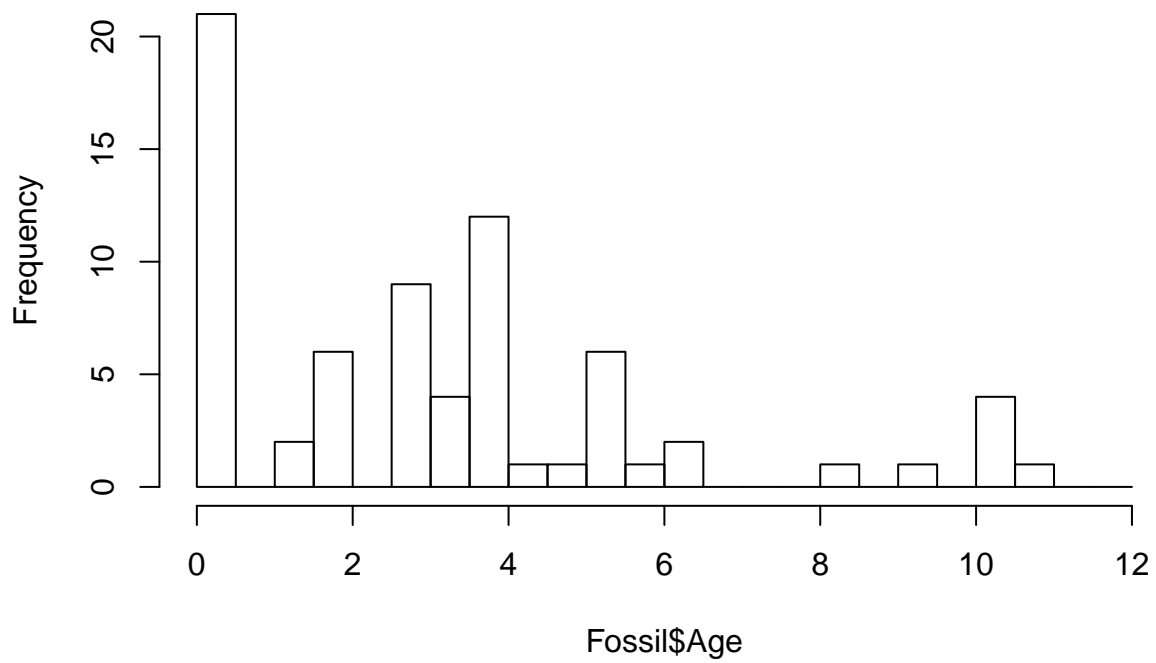
Histograms

Frequency of body size data and distribution over time

Histogram of Fossil\$CL



Histogram of Fossil\$Age



Boxplots (continental (n) vs. Island (y) species)

