

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

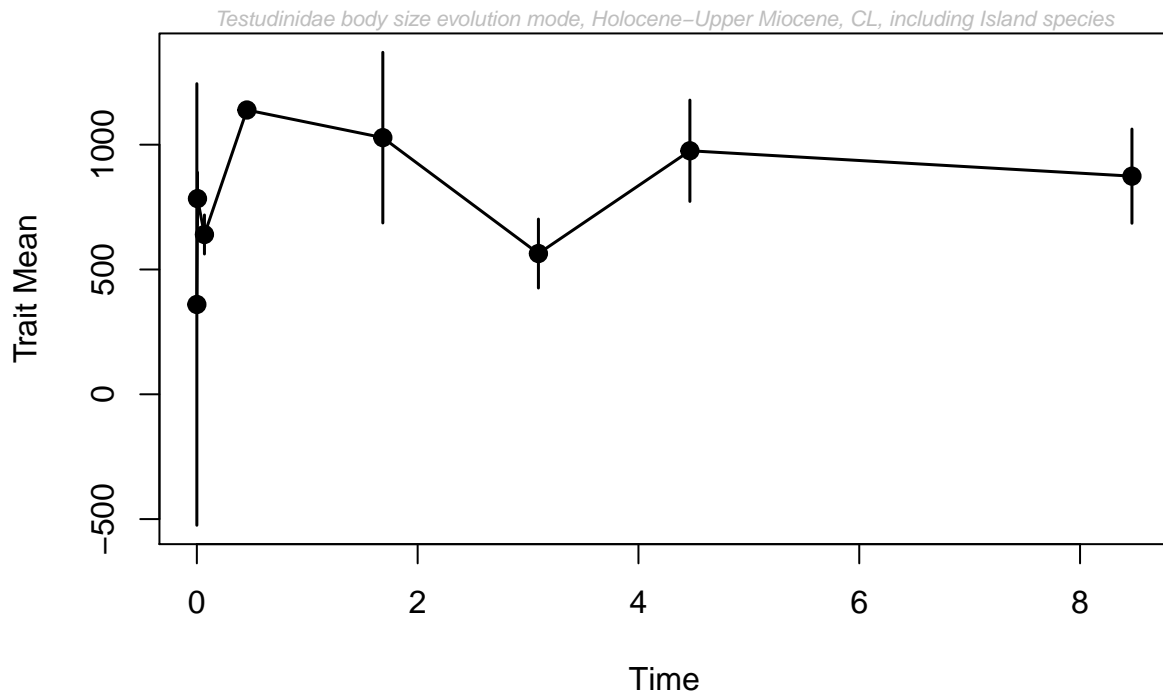
bin	n
(0,1e-06]	104
(1e-06,0.0117]	10
(0.0117,0.126]	9
(0.126,0.781]	2
(0.781,2.59]	8
(2.59,3.6]	13
(3.6,5.33]	14
(5.33,11.6]	16

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

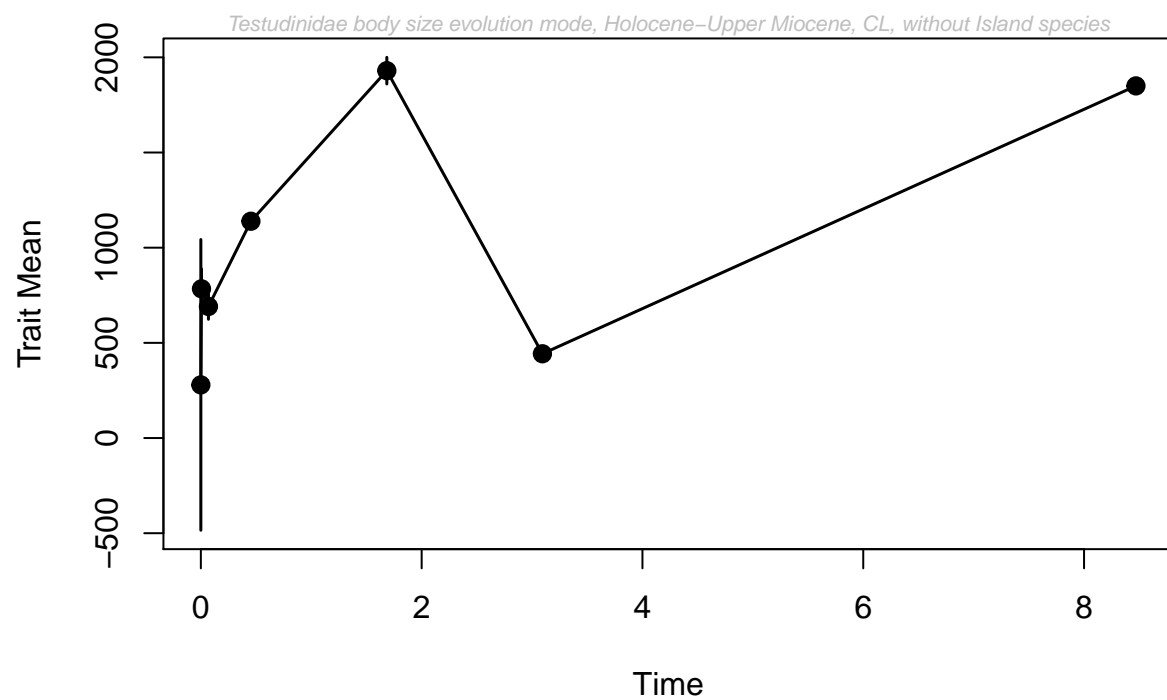


```
##
## Comparing 3 models [n = 7, method = AD]
##
##          logL K      AICc Akaike.wt
## GRW      -55.81092 2 118.6218         0
## URW      -60.74586 1 124.2917         0
## Stasis   -47.81894 2 102.6379         1
```

	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= 719)

mm	nn	vv	tt
279.2598	694	4.046707e+08	0.0000005
784.0000	9	9.923200e+04	0.0058500
691.1250	8	3.611984e+04	0.0688500
1139.0000	1	0.000000e+00	0.4535000
1930.0000	2	9.800000e+03	1.6845000
442.7500	4	4.049167e+02	3.0940000
1850.0000	1	0.000000e+00	8.4700000



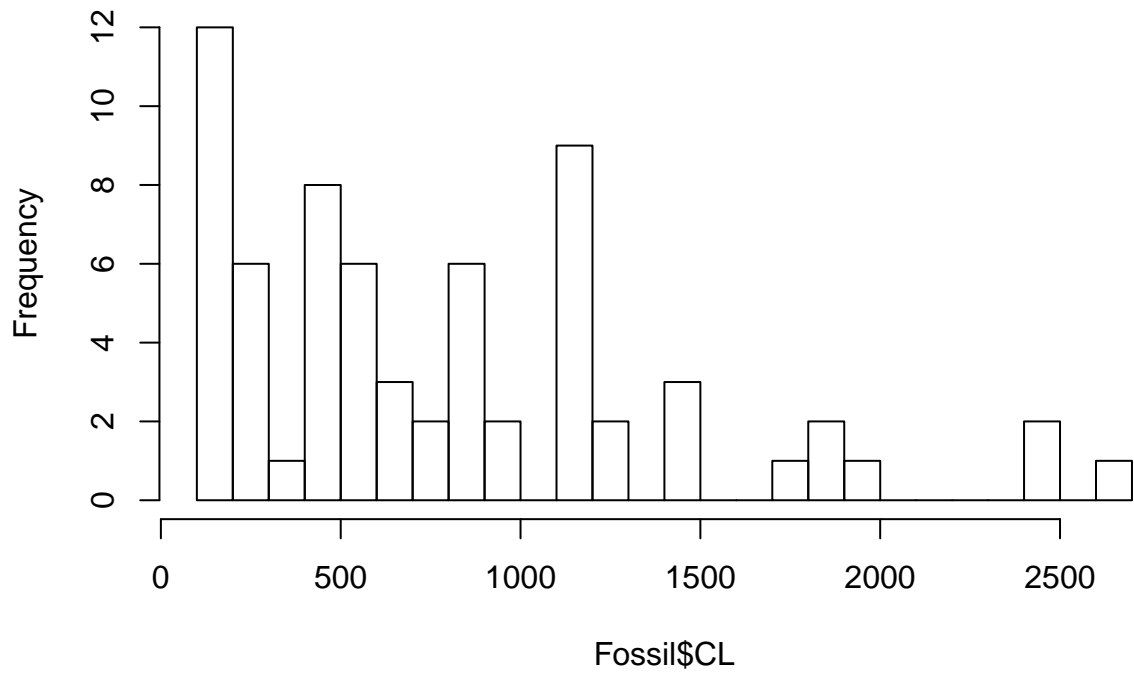
```
##
## Comparing 3 models [n = 6, method = AD]
##
##      logL K      AICc Akaike.wt
## GRW   -54.40213 2 116.8043    0.008
## URW   -68.44592 1 139.8918    0.000
## Stasis -49.61560 2 107.2312    0.992
```

	logL	K	AICc	Akaike.wt
GRW	-54.40213	2	116.8043	0.008
URW	-68.44592	1	139.8918	0.000
Stasis	-49.61560	2	107.2312	0.992

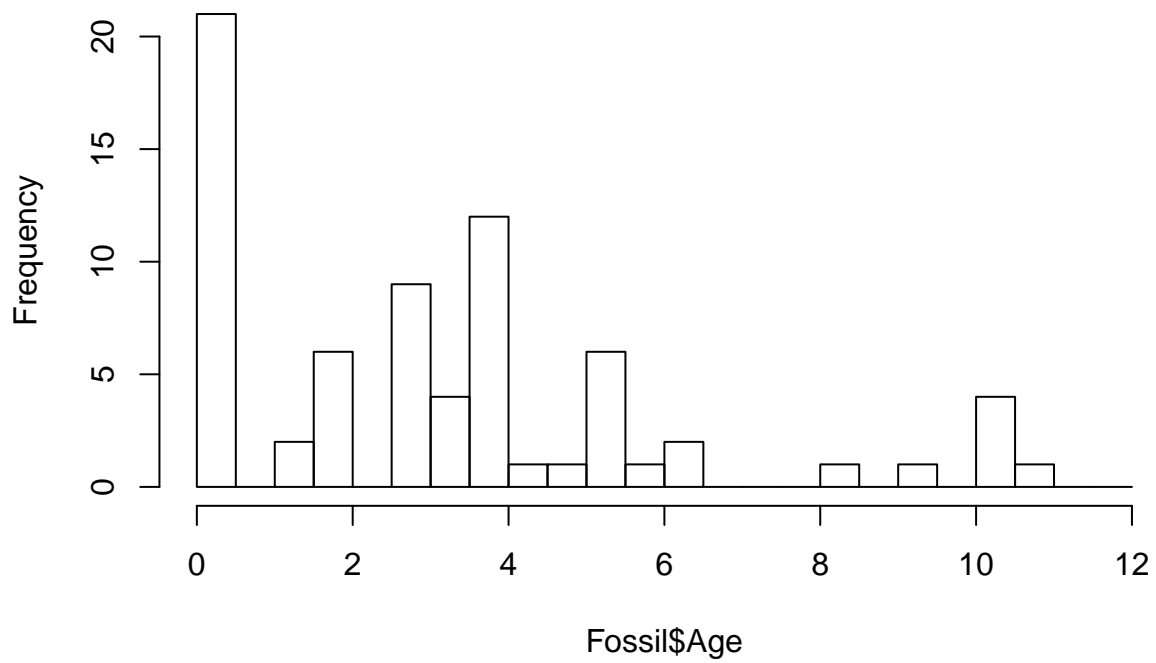
Histograms

Frequency of body size data and distribution over time

Histogram of Fossil\$CL



Histogram of Fossil\$Age



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

