

# 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

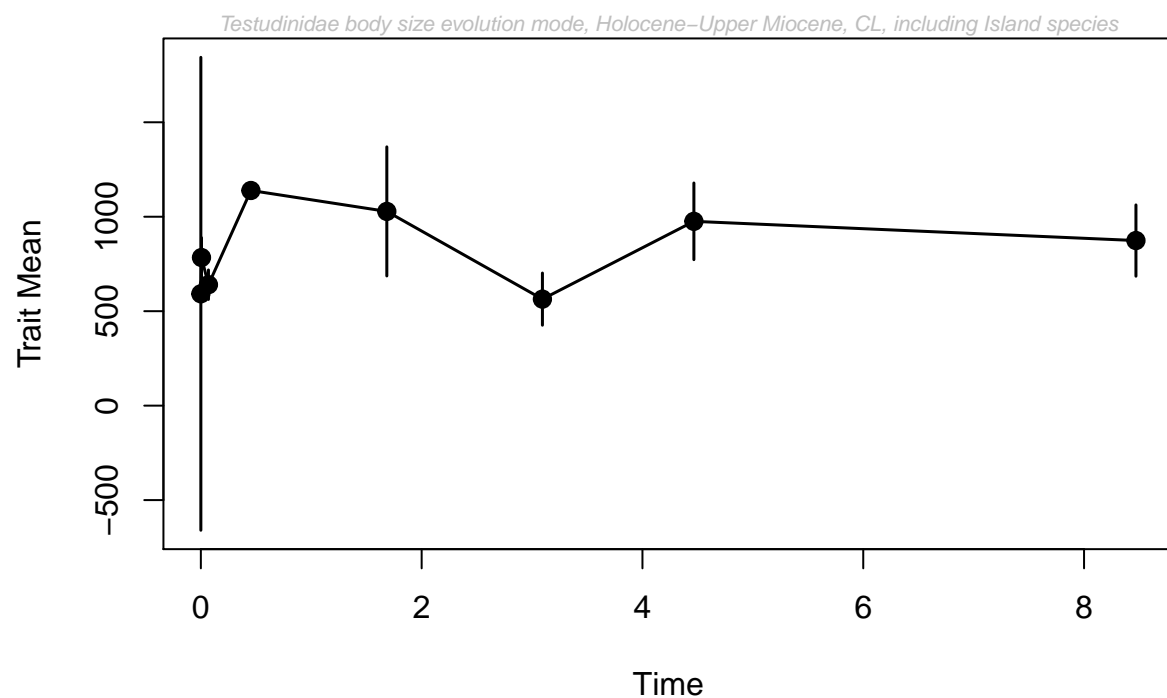
bin	n
(0,1e-06]	85
(1e-06,0.0117]	10
(0.0117,0.126]	9
(0.126,0.781]	2
(0.781,2.59]	8
(2.59,3.6]	13
(3.6,5.33]	14
(5.33,11.6]	16

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=263)**

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

mm	nn	vv	tt
592.0561	196	307090499.21	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

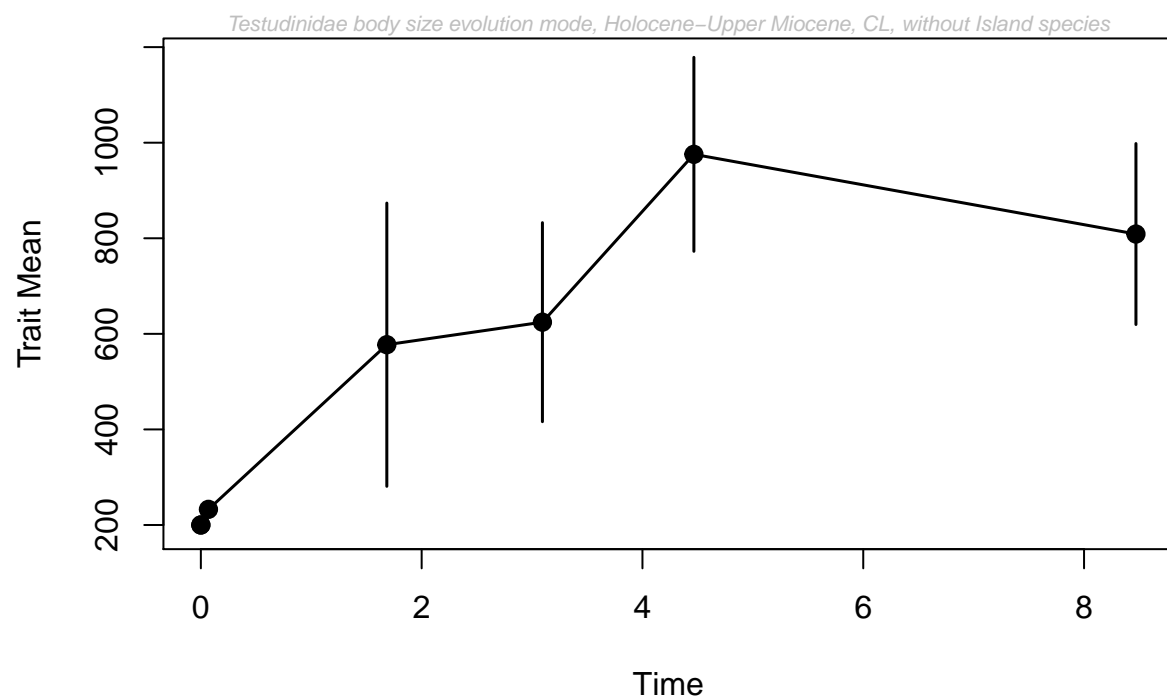


```
##
## Comparing 3 models [n = 7, method = AD]
##
##          logL K      AICc Akaike.wt
## GRW      -54.82683 2 116.6537    0.001
## URW      -54.01812 1 110.8362    0.016
## Stasis   -47.81894 2 102.6379    0.983
```

	logL	K	AICc	Akaike.wt
GRW	-54.82683	2	116.6537	0.001
URW	-54.01812	1	110.8362	0.016
Stasis	-47.81894	2	102.6379	0.983

Excluding Island species (n= 188)

mm	nn	vv	tt
200.0685	73	8888.231	0.0000000
200.0685	73	8888.231	0.0000005
232.7600	1	0.000	0.0688500
577.2750	4	351291.969	1.6845000
624.4125	8	346850.133	3.0940000
975.6429	14	576600.863	4.4660000
808.8600	15	537645.523	8.4700000



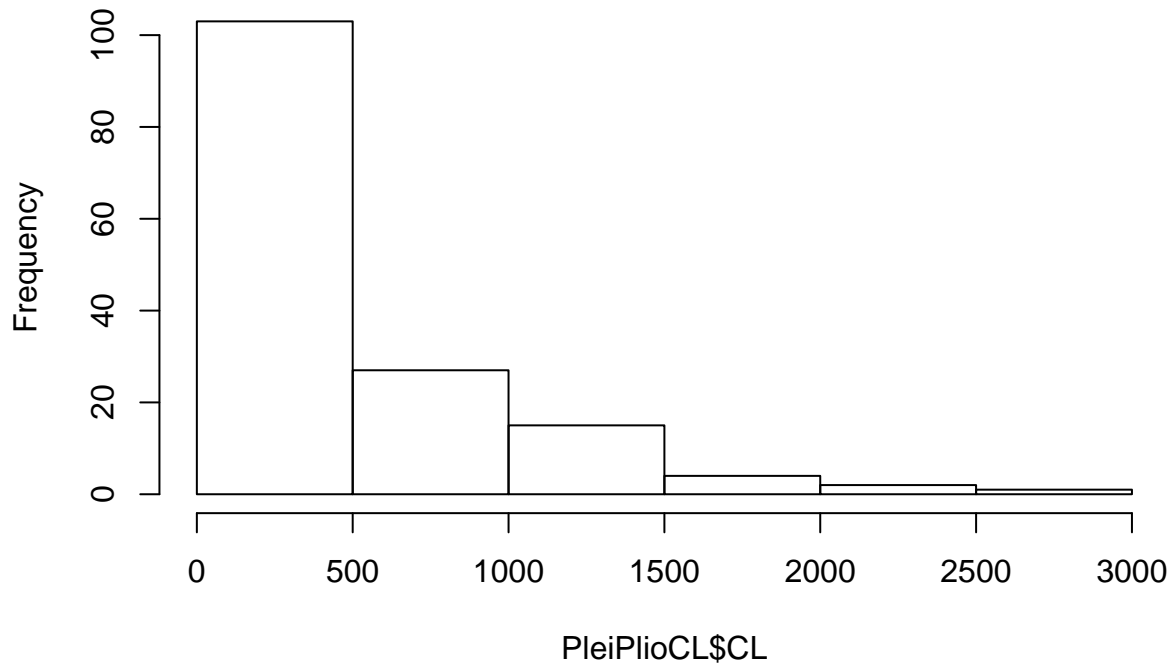
```
##
## Comparing 3 models [n = 6, method = AD]
##
##          logL K      AICc Akaike.wt
## GRW      -36.74346 2 81.48692    0.102
## URW      -37.07242 1 77.14485    0.897
## Stasis   -42.77181 2 93.54363    0.000
```

	logL	K	AICc	Akaike.wt
GRW	-36.74346	2	81.48692	0.102
URW	-37.07242	1	77.14485	0.897
Stasis	-42.77181	2	93.54363	0.000

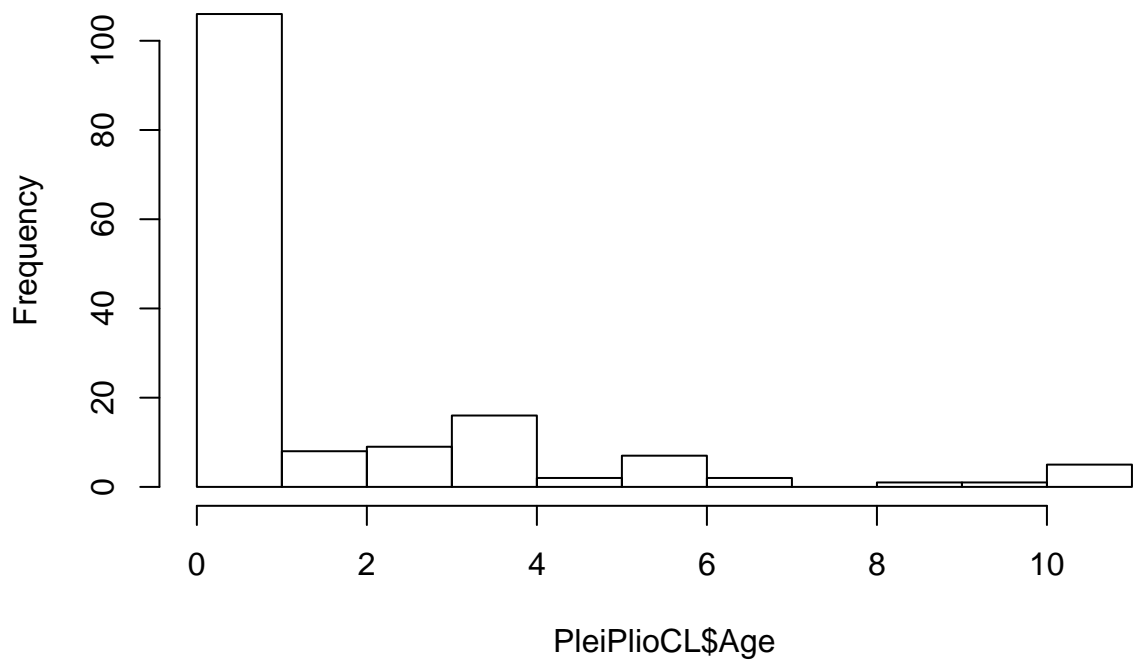
## Histograms

Frequency of body size data and distribution over time

**Histogram of PleiPlioCL\$CL**



**Histogram of PleiPlioCL\$Age**



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

