Body size trends in fossil tortoises

```
## Warning in eval(substitute(expr), envir, enclos): NAs durch Umwandlung
## erzeugt

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```

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

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

bin	n
(0,0.0117]	3
(0.0117,0.126]	3
(0.126,0.781]	1
(0.781,2.59]	6
(2.59,3.6]	13
(3.6,5.33]	14
(5.33,11.6]	14

bin	EpochBins	MeanBins
(0,0.0117]	Holocene	0.00585
(0.0117,0.126]	Upper Pleistocene	0.06885
(0.126,0.781]	Middle Pleistocene	0.45350
(0.781,2.59]	Lower Pleistocene	1.68450
(2.59,3.6]	Upper Pliocene	3.09400
(3.6,5.33]	Lower Pliocene	4.46600
(5.33,11.6]	Upper Miocene	8.47000

including Island species (n=246)

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

mm	nn	vv	tt
592.0561	196	307090499.21	0.00000
1163.3333	3	20033.33	0.00585
560.9200	3	96391.74	0.06885
687.2750	4	646891.30	1.68450
563.8583	12	228833.55	3.09400
975.6429	14	576600.86	4.46600
677.3500	14	293085.58	8.47000

Testudinidae body size evolution mode, Holocene−Upper Miocene, CL, including Island species
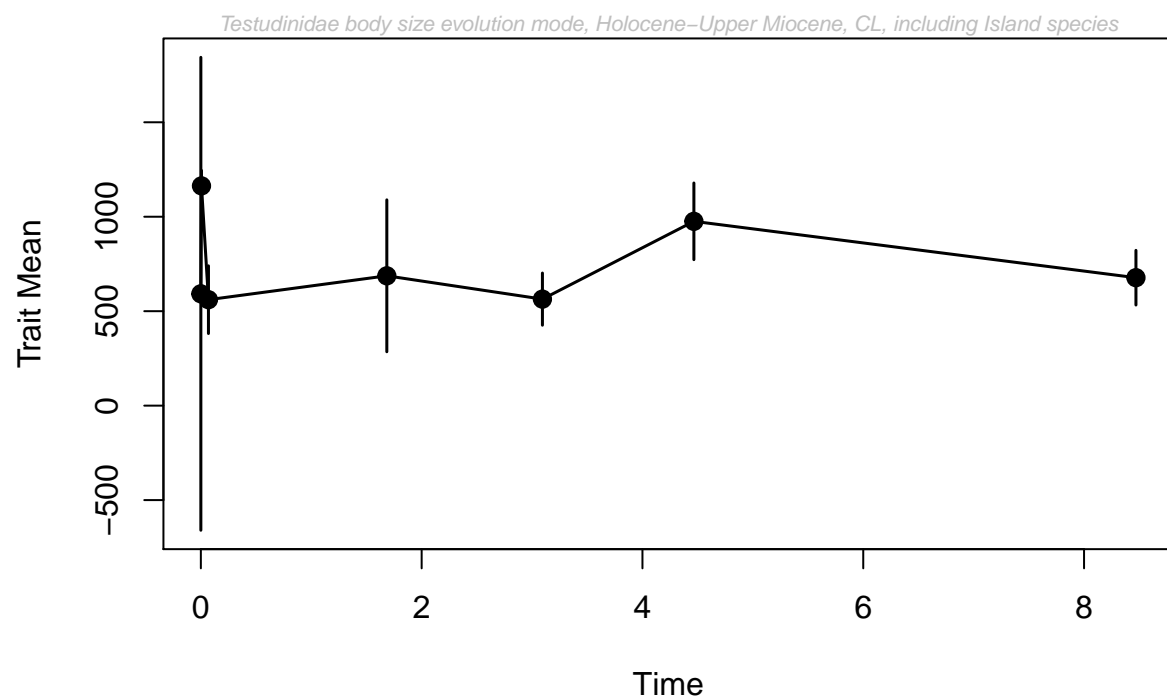
```
##
## Comparing 3 models [n = 6, method = AD]
##
##            logL K      AICc Akaike.wt
## GRW    -47.89503 2 103.79005     0.003
## URW    -48.07861 1  99.15722     0.032
## Stasis -42.16706 2  92.33412     0.965
```

	logL	K	AICc	Akaike.wt
GRW	-47.89503	2	103.79005	0.003
URW	-48.07861	1	99.15722	0.032
Stasis	-42.16706	2	92.33412	0.965

Excluding Island species (n= 112)

mm	nn	vv	tt
200.0685	73	8888.231	0.00000
232.7600	1	0.000	0.06885
296.3667	3	53481.003	1.68450
624.4125	8	346850.133	3.09400
975.6429	14	576600.863	4.46600
587.1462	13	194102.244	8.47000

Testudinidae body size evolution mode, Holocene–Upper Miocene, CL, without Island species
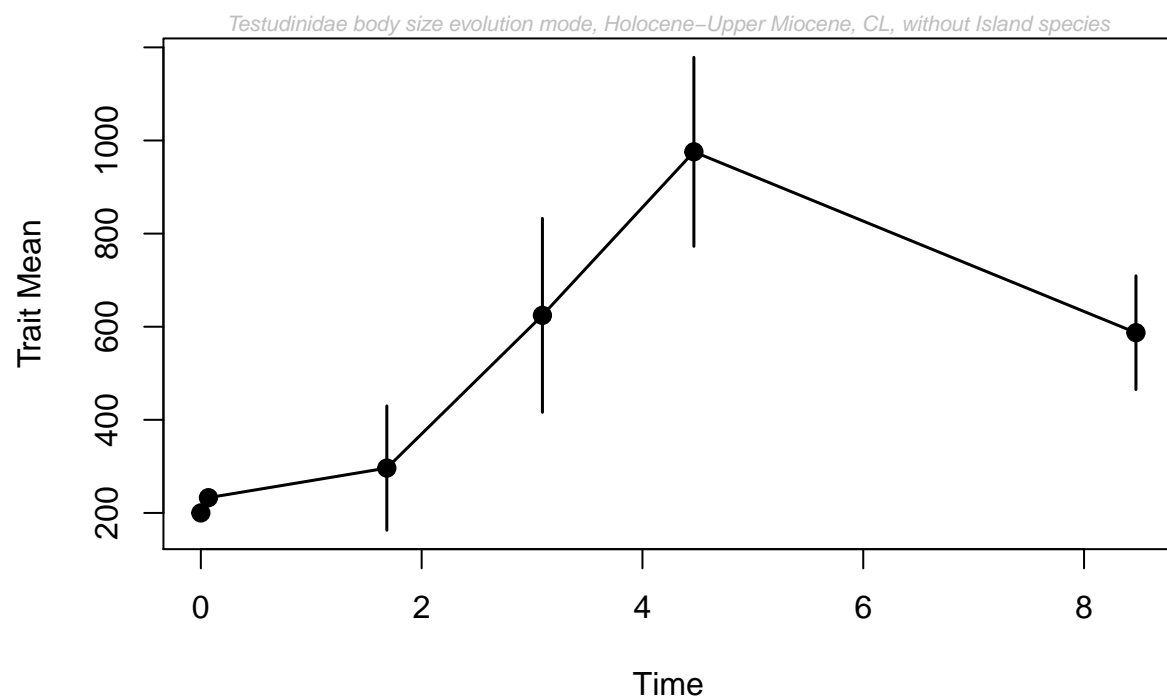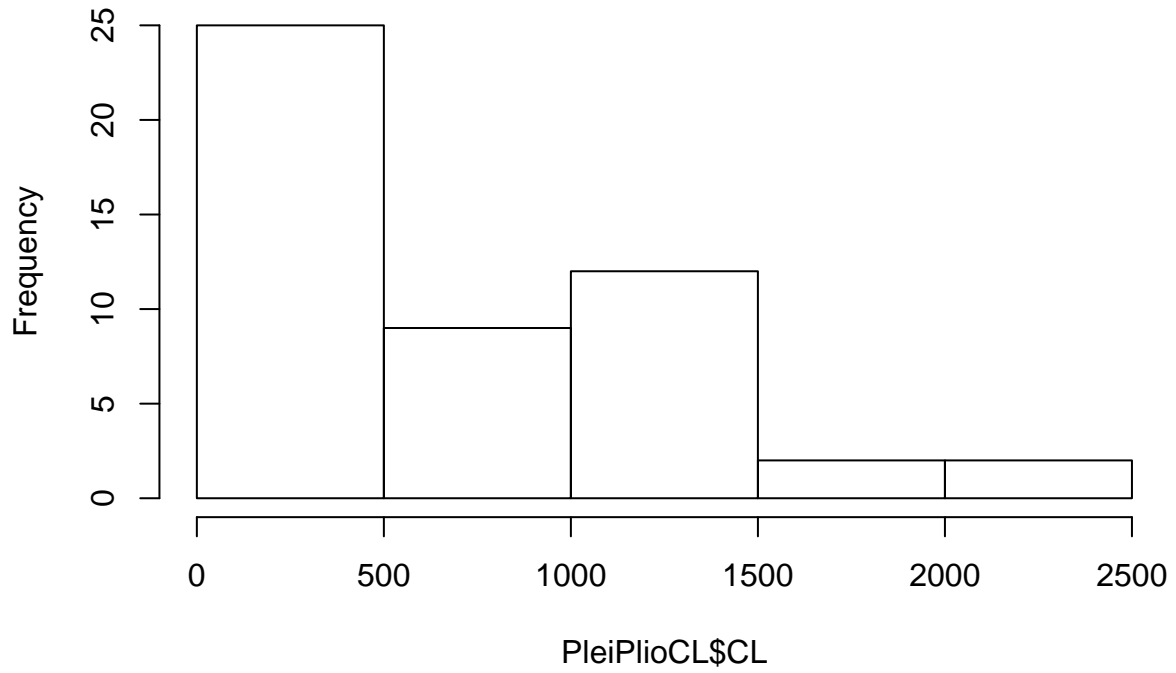
```
##
## Comparing 3 models [n = 5, method = AD]
##
##            logL K     AICc Akaike.wt
## GRW    -33.09592 2 76.19184    0.046
## URW    -33.41420 1 70.16174    0.946
## Stasis -34.93577 2 79.87153    0.007
```

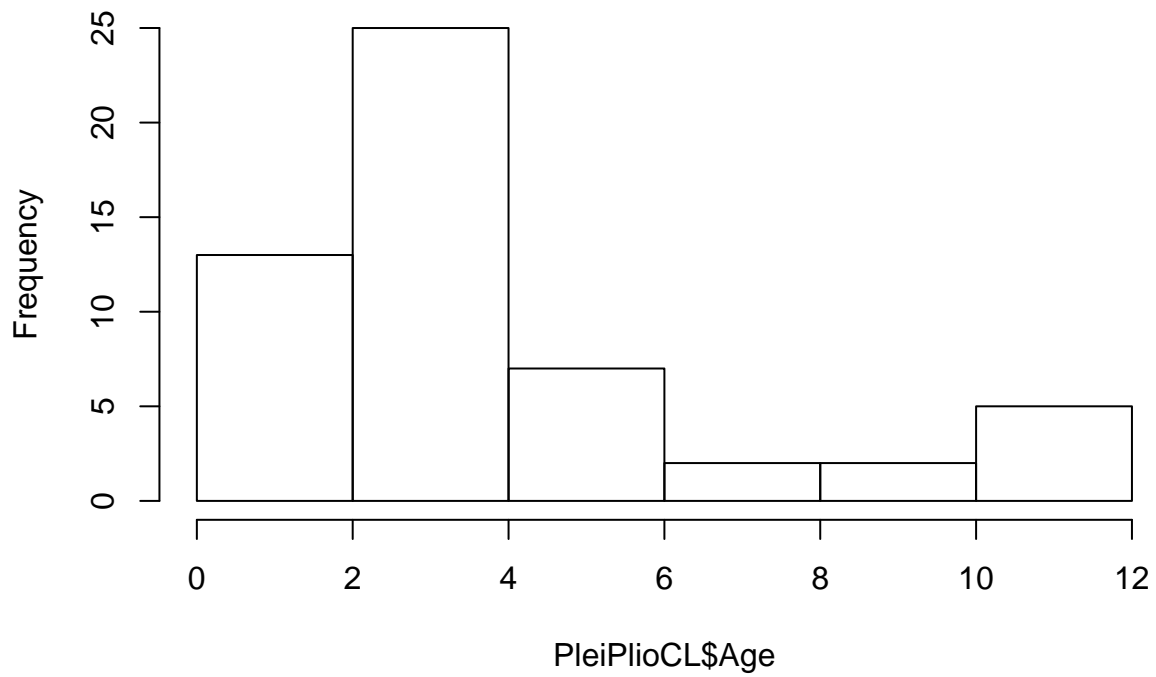|	logL	K	AICc	Akaike.wt
GRW	-33.09592	2	76.19184	0.046
URW	-33.41420	1	70.16174	0.946
Stasis	-34.93577	2	79.87153	0.007

Histograms

Frequency of body size data and distribution over time

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Histogram of PleiPlioCL$CL

Histogram of PleiPlioCL$Age

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