

Fossil Tortoises

paleoTS Plot with the following bins:

bin	n
(0,0.0117]	3
(0.0117,0.126]	2
(0.126,0.781]	1
(0.781,2.59]	7
(2.59,3.6]	9
(3.6,5.33]	14
(5.33,11.6]	13

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

paleoTS object:

`kable`(PPCL)

mm	nn	vv	tt
620.0618	178	208721440.31	0.00000
1163.3333	3	20033.33	0.00585
541.3800	2	190492.61	0.06885
833.8200	5	592545.66	1.68450
624.4125	8	346850.13	3.09400
975.6429	14	576600.86	4.46600
640.6077	13	297034.42	8.47000

```
library(paleoTS)
```

```
paleoPPCL <-as.paleoTS(PPCL$mm, PPCL$vv, PPCL$nn, PPCL$tt, MM = NULL, genpars = NULL, label = "Testudin
```

```
paleoPPCL
```

```
## $mm
```

```
## [1] 620.0618 1163.3333 541.3800 833.8200 624.4125 975.6429 640.6077
```

```
##
```

```
## $vv
```

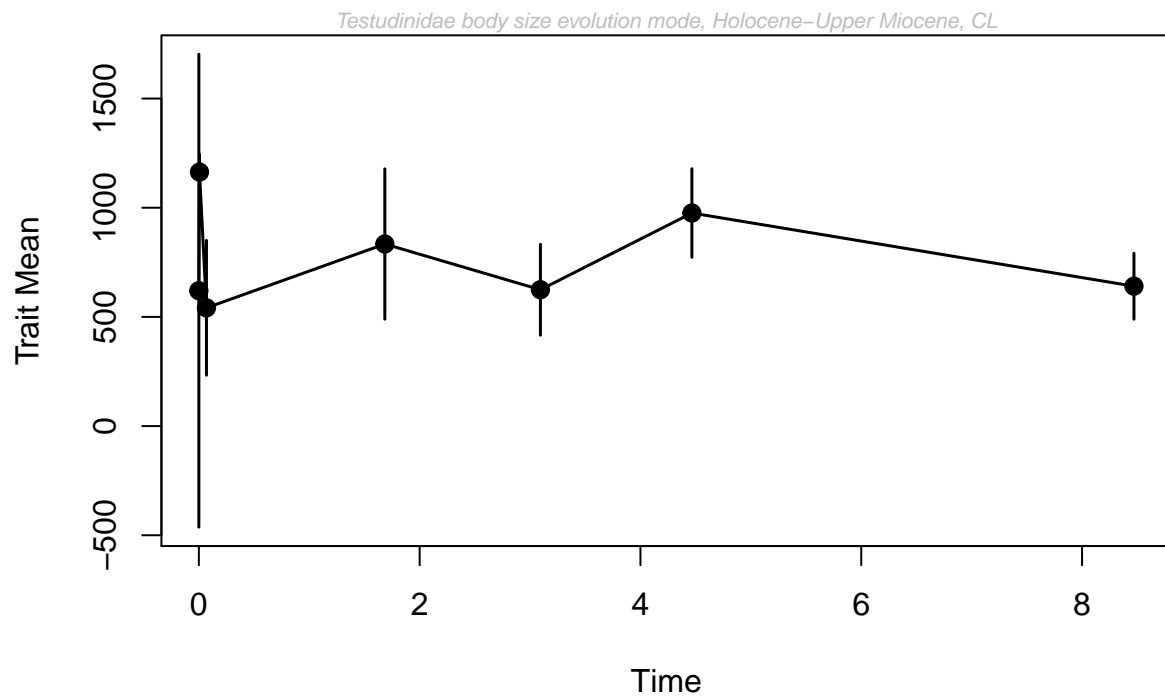
```
## [1] 208721440.31 20033.33 190492.61 592545.66 346850.13
```

```
## [6] 576600.86 297034.42
```

```
##
```

```
## $nn
```

```
## [1] 178 3 2 5 8 14 13
##
## $tt
## [1] 0.00000 0.00585 0.06885 1.68450 3.09400 4.46600 8.47000
##
## $MM
## NULL
##
## $genpars
## NULL
##
## $label
## [1] "Testudinidae body size evolution mode, Holocene-Upper Miocene, CL"
##
## $start.age
## NULL
##
## $timeDir
## [1] "increasing"
##
## attr("class")
## [1] "paleoTS"
plot(paleoPPCL)
```



```
fit3models(paleoPPCL, silent=FALSE, method="AD", pool=FALSE)
```

```
##  
## Comparing 3 models [n = 6, method = AD]  
##  
##           logL K      AICc Akaike.wt  
## GRW      -45.18277 2 98.36555    0.066  
## URW      -45.57379 1 94.14758    0.543  
## Stasis  -43.40326 2 94.80652    0.391
```