

# Body size trends in fossil tortoises

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

```
## Warning in bind_rows(x, .id): binding character and factor vector,
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```

bin	n
(0,1e-06]	234
(1e-06,0.0117]	10
(0.0117,0.126]	12
(0.126,0.781]	4
(0.781,2.59]	25
(2.59,3.6]	13
(3.6,5.33]	16
(5.33,11.6]	16

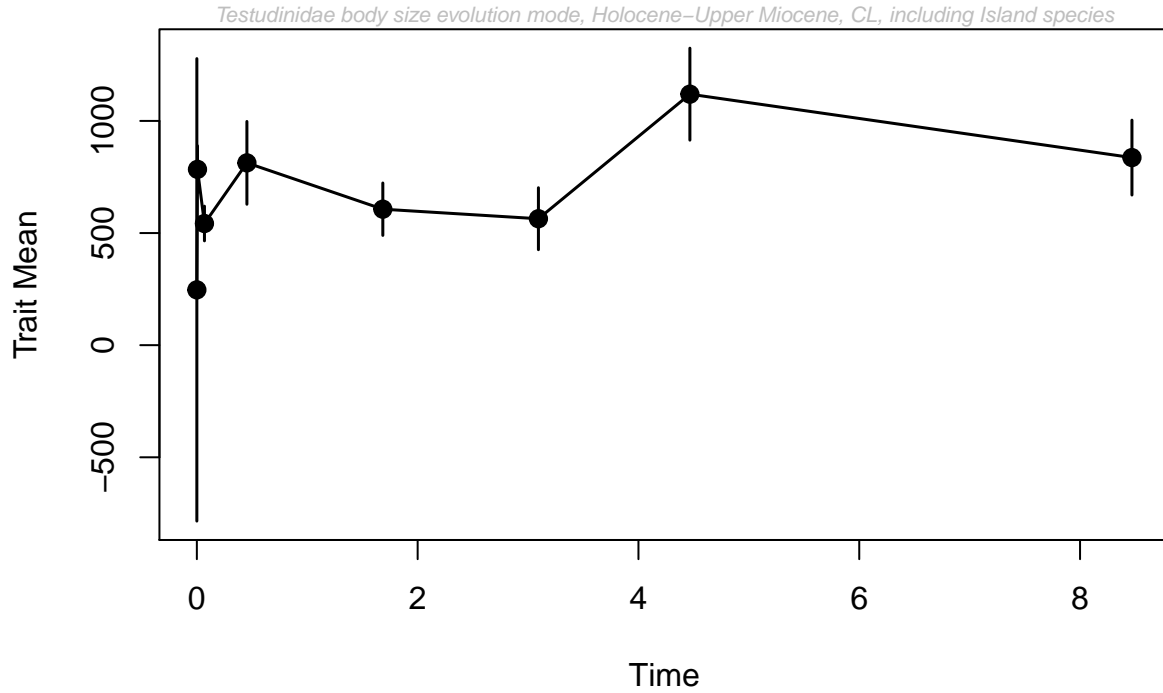
bin	EpochBins	MeanBins
(0,1e-06]	Modern	0.0000005
(1e-06,0.0117]	Holocene	0.0058500
(0.0117,0.126]	Upper Pleistocene	0.0688500
(0.126,0.781]	Middle Pleistocene	0.4535000
(0.781,2.59]	Lower Pleistocene	1.6845000
(2.59,3.6]	Upper Pliocene	3.0940000
(3.6,5.33]	Lower Pliocene	4.4660000
(5.33,11.6]	Upper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

**including Island species (n=2053)**

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

mm	nn	vv	tt
246.7213	1962	2.085874e+09	0.0000005
784.0000	9	9.923200e+04	0.0058500
542.4800	12	7.186028e+04	0.0688500
813.0000	3	1.022070e+05	0.4535000
606.3696	23	3.138774e+05	1.6845000
563.8583	12	2.288335e+05	3.0940000
1119.3125	16	6.725900e+05	4.4660000

mm	nn	vv	tt
836.4312	16	4.459653e+05	8.4700000



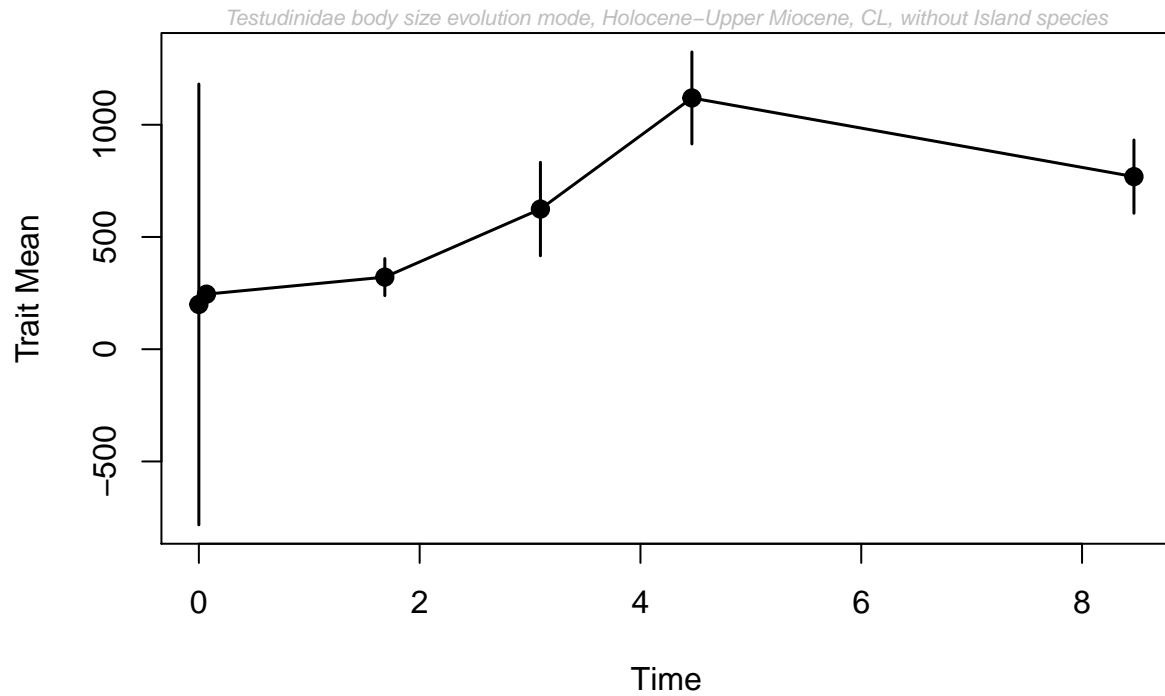
```
##
## Comparing 3 models [n = 7, method = AD]
##
##           logL K      AICc Akaike.wt
## GRW      -51.43359 2 109.86718    0.006
## URW      -51.55193 1 105.90386    0.044
## Stasis   -46.37180 2  99.74359    0.950
```

	logL	K	AICc	Akaike.wt
GRW	-51.43359	2	109.86718	0.006
URW	-51.55193	1	105.90386	0.044
Stasis	-46.37180	2	99.74359	0.950

Excluding Island species (n= 1823)

mm	nn	vv	tt
199.4961	1765	1.701509e+09	0.0000005
245.1900	4	2.445378e+03	0.0688500
321.2333	15	1.023536e+05	1.6845000

mm	nn	vv	tt
624.4125	8	3.468501e+05	3.0940000
1119.3125	16	6.725900e+05	4.4660000
768.8600	15	3.995478e+05	8.4700000

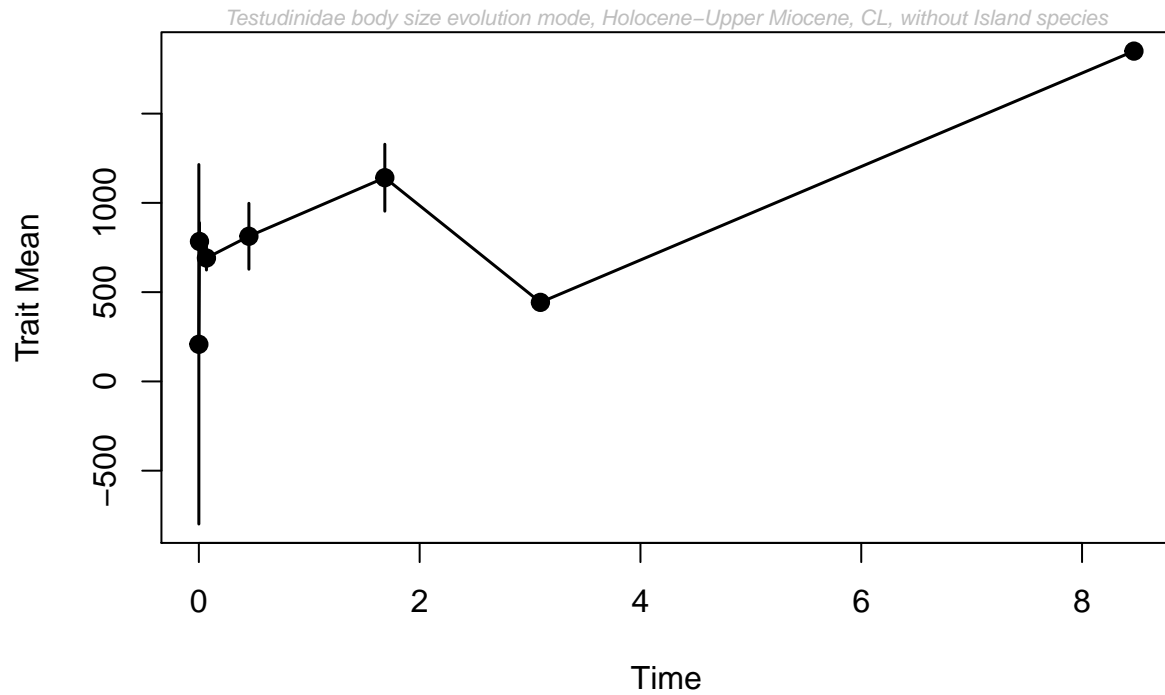


```
##
## Comparing 3 models [n = 5, method = AD]
##
##          logL K      AICc Akaike.wt
## GRW    -36.11123 2 82.22245    0.039
## URW    -36.23334 1 75.80000    0.956
## Stasis -38.13961 2 86.27921    0.005
```

	logL	K	AICc	Akaike.wt
GRW	-36.11123	2	82.22245	0.039
URW	-36.23334	1	75.80000	0.956
Stasis	-38.13961	2	86.27921	0.005

Only Island species

mm	nn	vv	tt
208.0755	1703	1.725832e+09	0.0000005
784.0000	9	9.923200e+04	0.0058500
691.1250	8	3.611984e+04	0.0688500
813.0000	3	1.022070e+05	0.4535000
1141.0000	8	2.808823e+05	1.6845000
442.7500	4	4.049167e+02	3.0940000
1850.0000	1	0.000000e+00	8.4700000

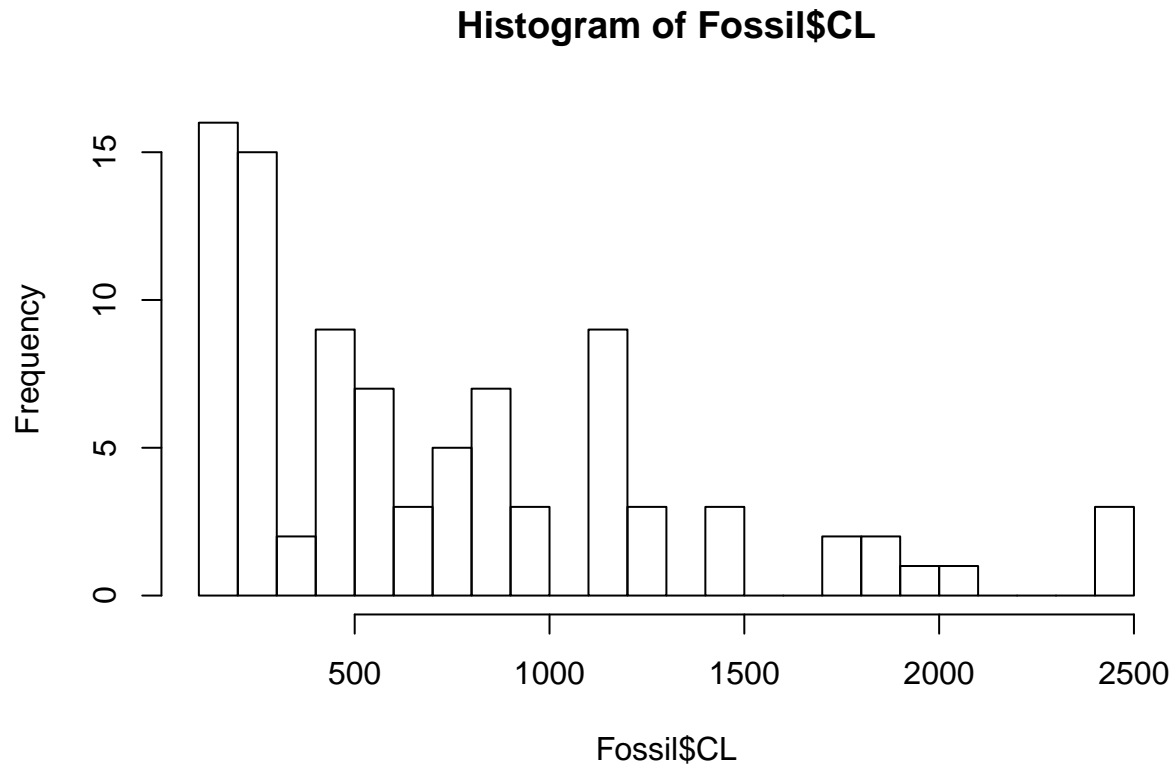


```
##
## Comparing 3 models [n = 6, method = AD]
##
##          logL K      AICc Akaike.wt
## GRW      -52.37629 2 112.7526    0.003
## URW      -50.23445 1 103.4689    0.266
## Stasis   -46.72431 2 101.4486    0.731
```

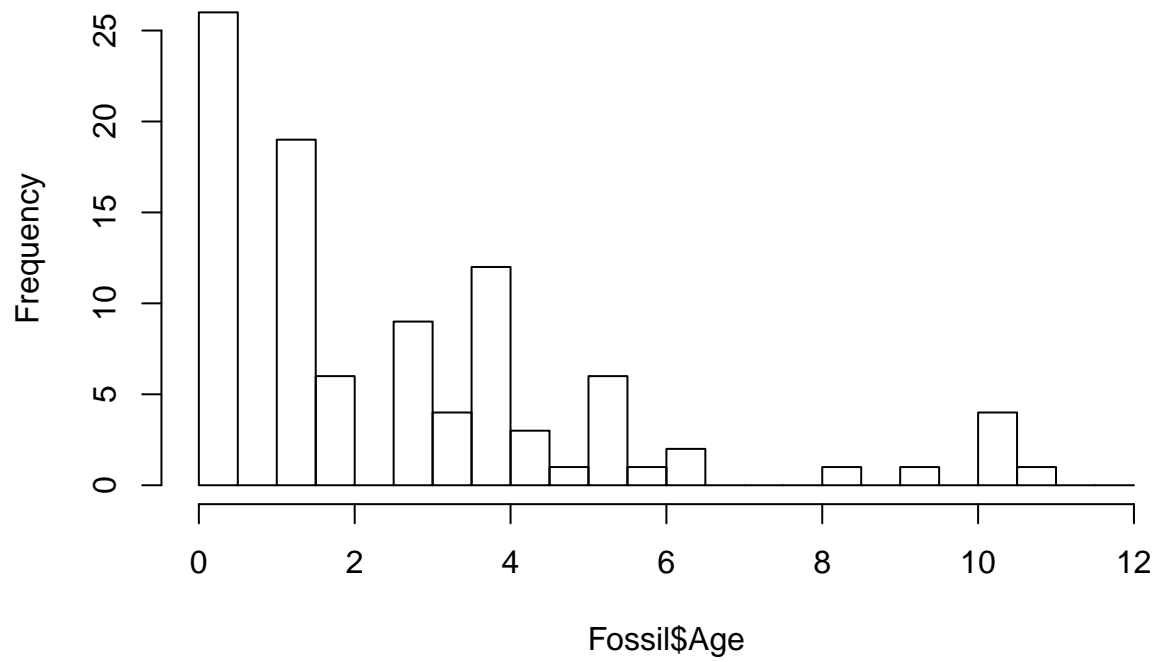
	logL	K	AICc	Akaike.wt
GRW	-52.37629	2	112.7526	0.003
URW	-50.23445	1	103.4689	0.266
Stasis	-46.72431	2	101.4486	0.731

## Histograms

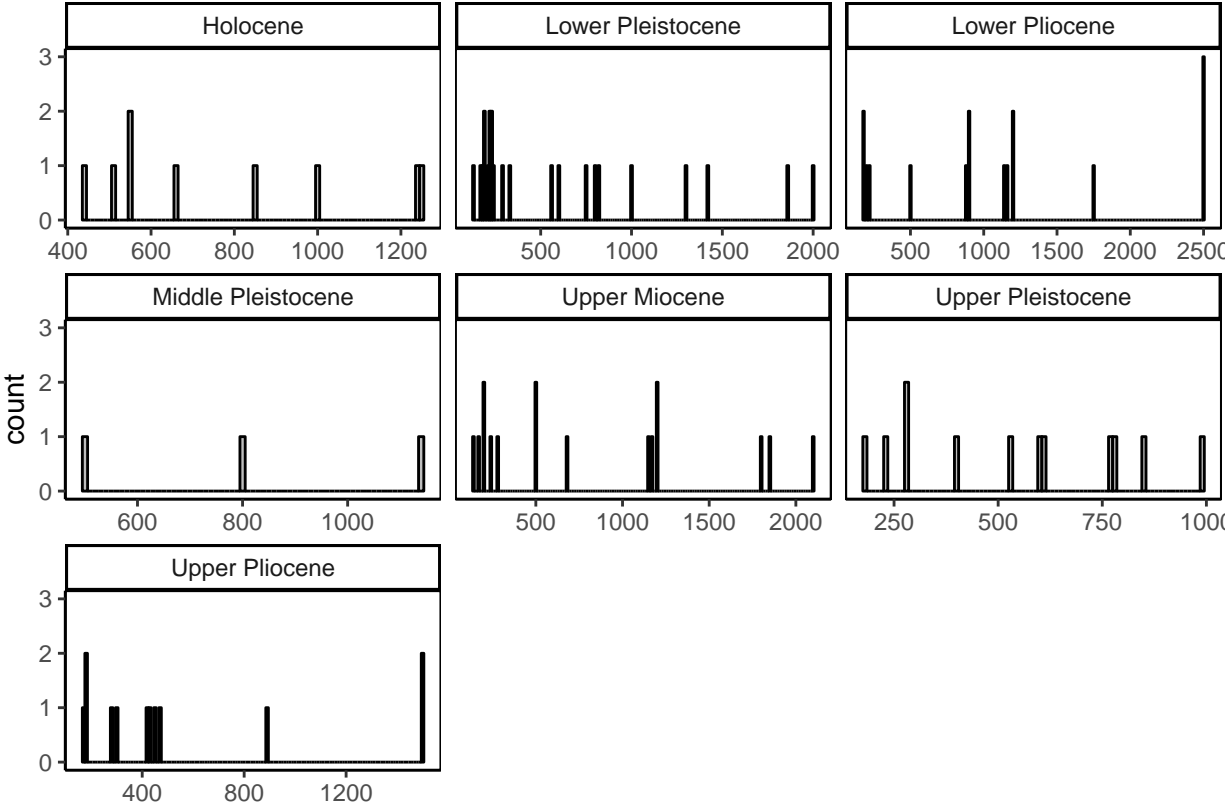
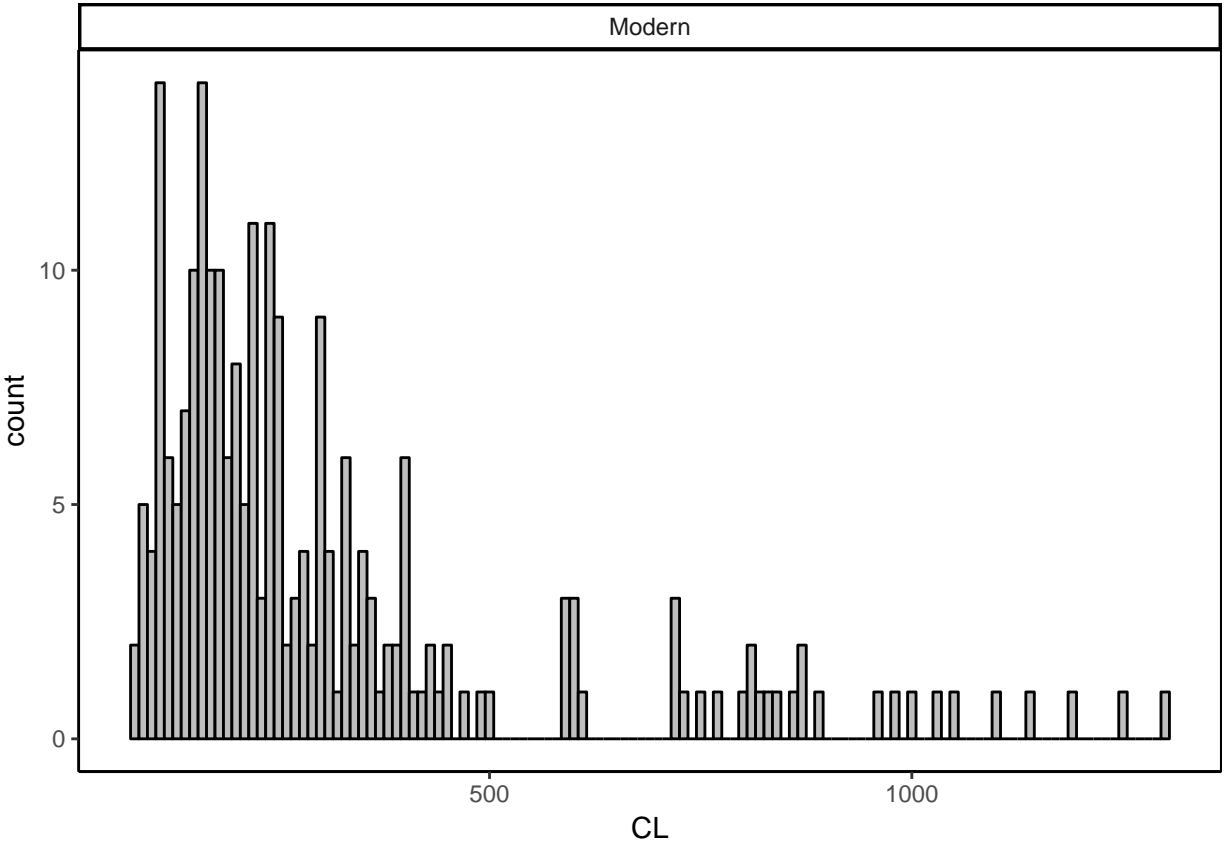
Frequency of body size data and distribution over time



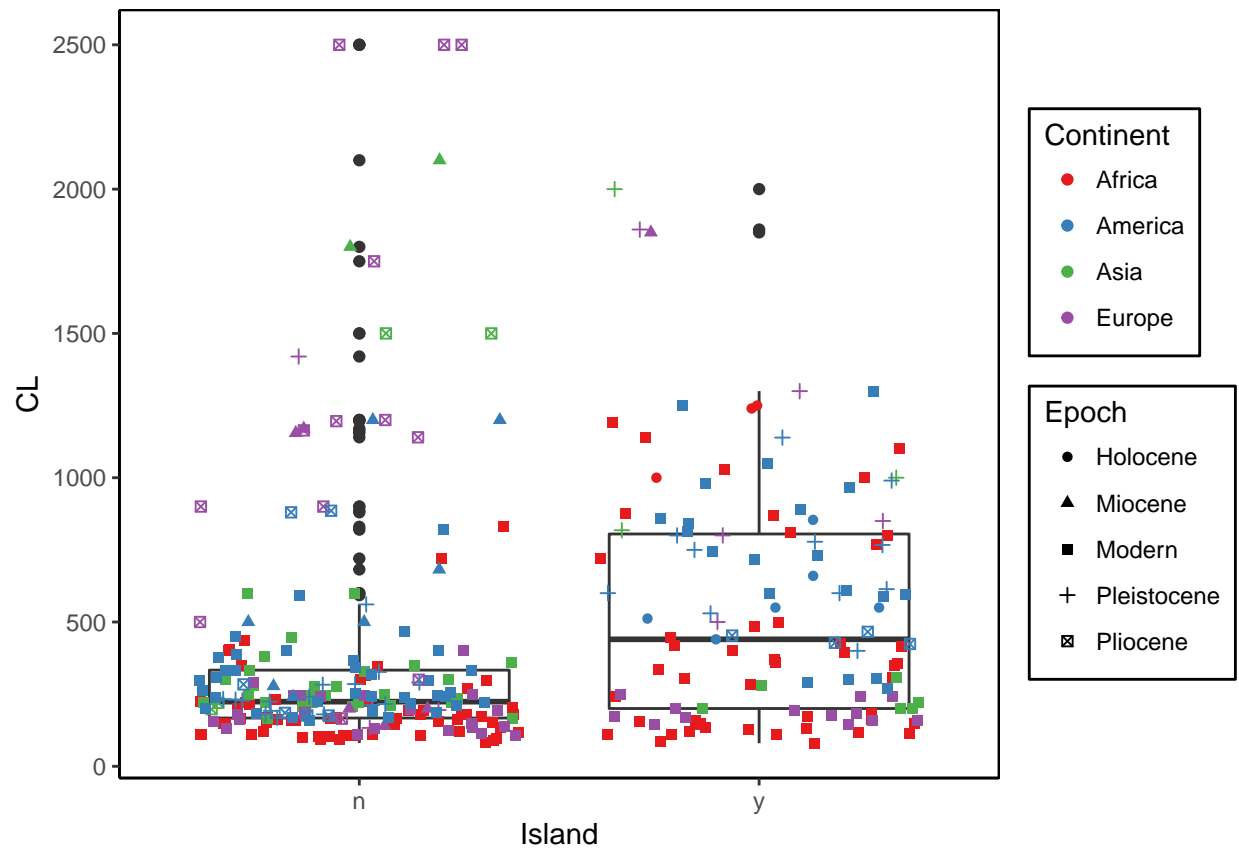
**Histogram of Fossil\$Age**



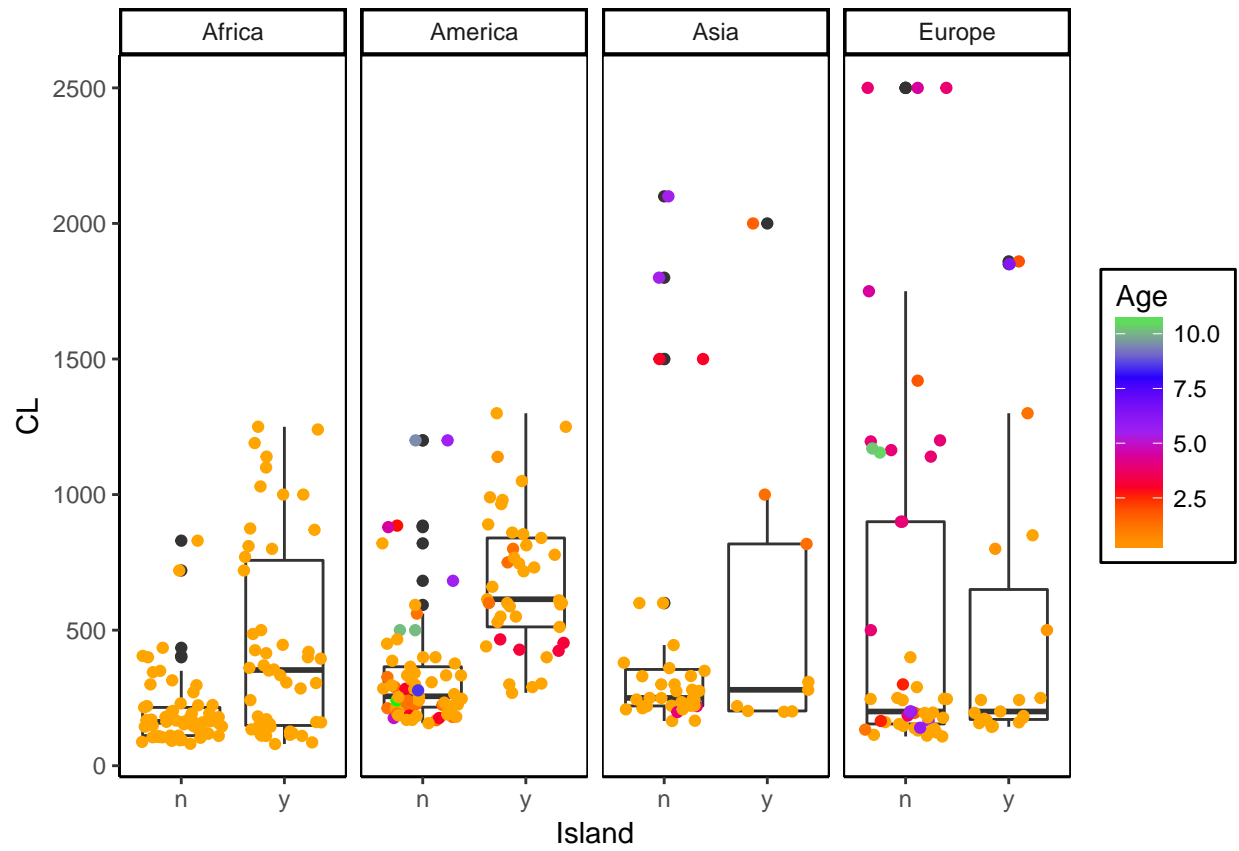
CL histogram per bin



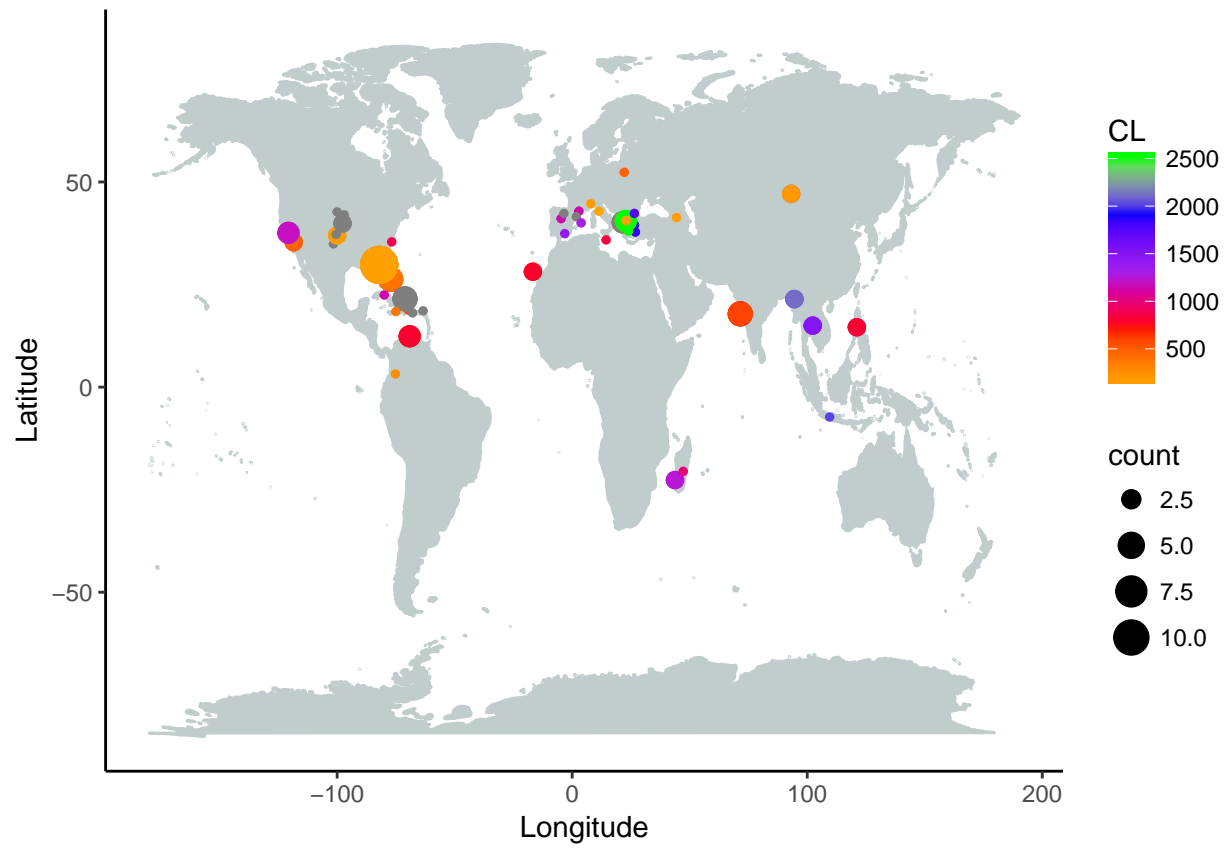
# Boxplots (continental (n) vs. Island (y) species)





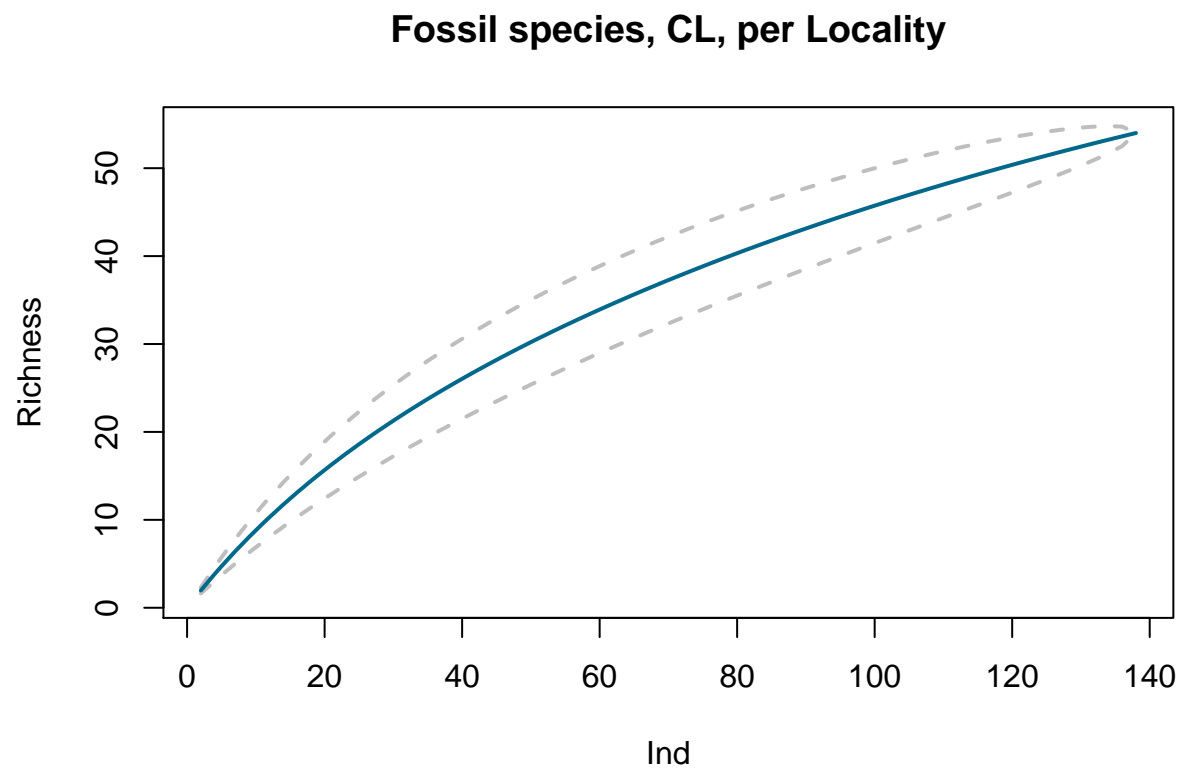


## Map

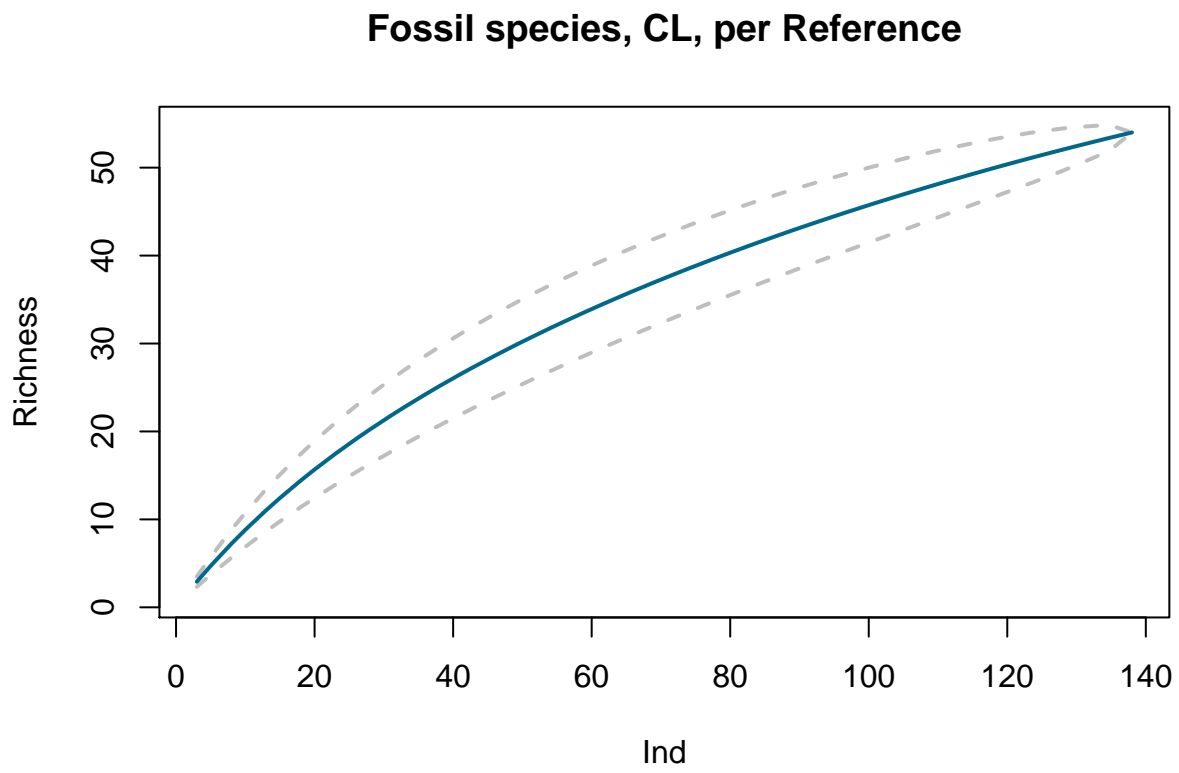


## Species Accumulation Curve

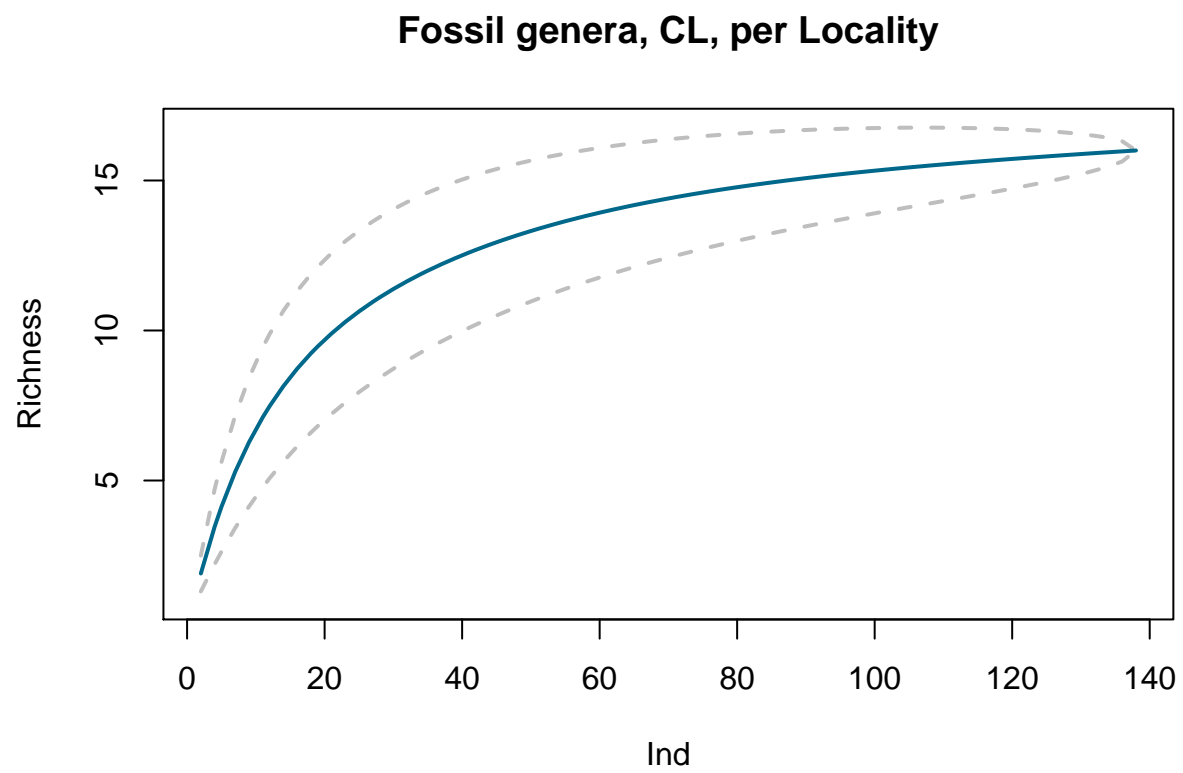
Fossil species (per Locality)



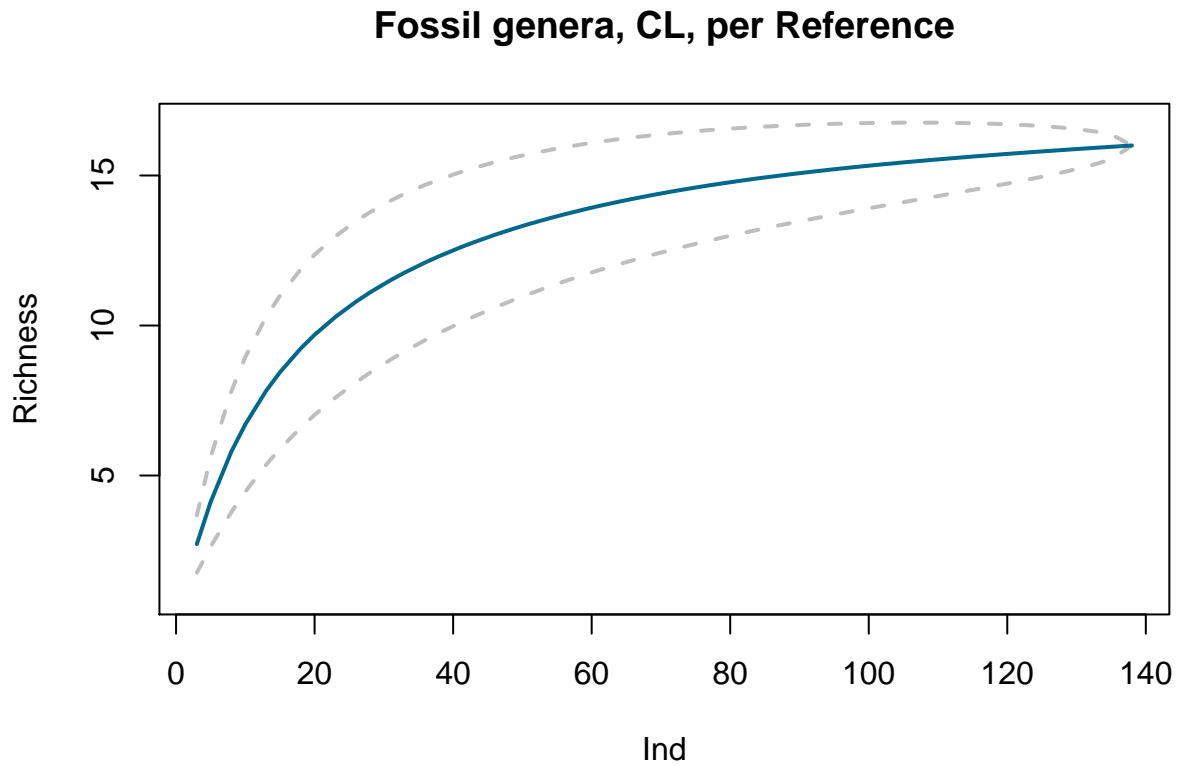
Fossil species (per Reference)



Fossil genera (per Locality)



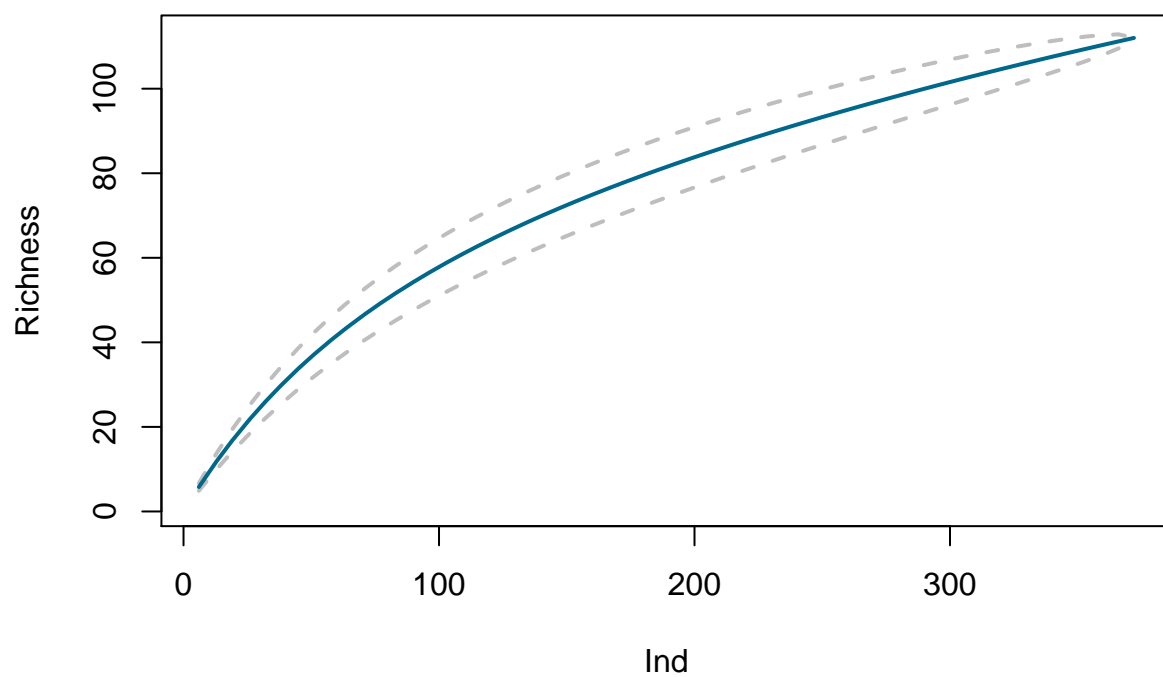
Fossil genera (per Reference)



Fossil and extant species (per Reference)

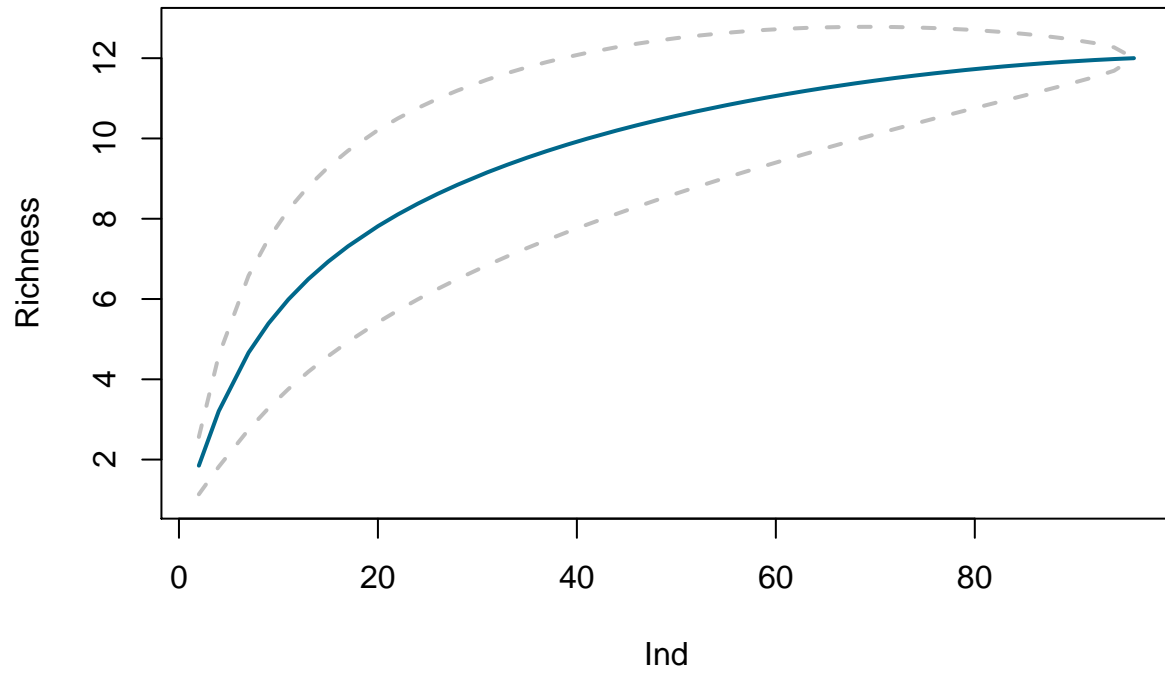
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**Fossil and extant species, CL, per Reference**



Occurrences from FosFarBase per Reference (all known occurrences, disregarding availability of CL-data)

### All fossil genera, per Reference





Occurrences from FosFarBase per Locality (all known occurrences, disregarding availability of CL-data)

