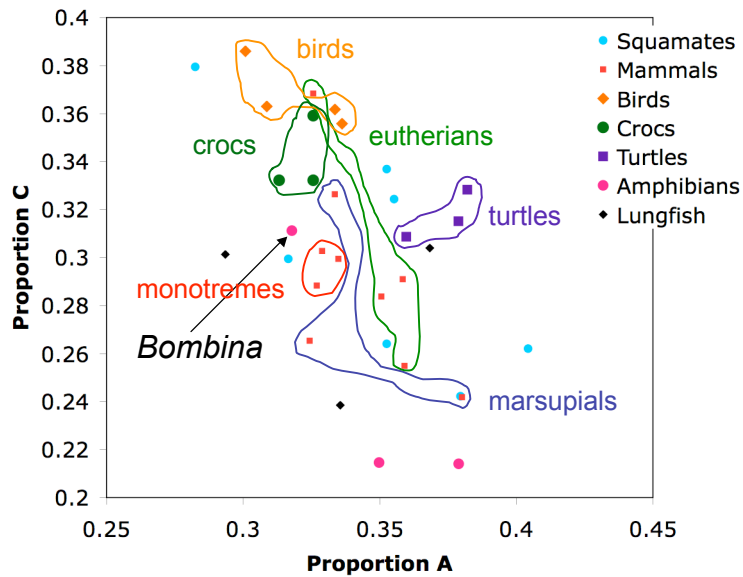
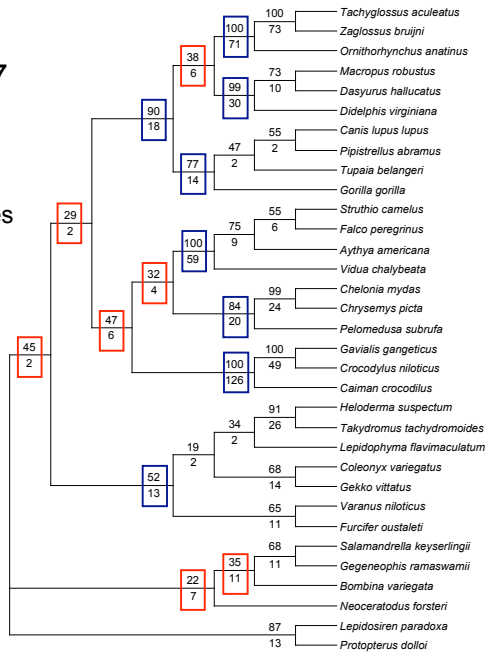
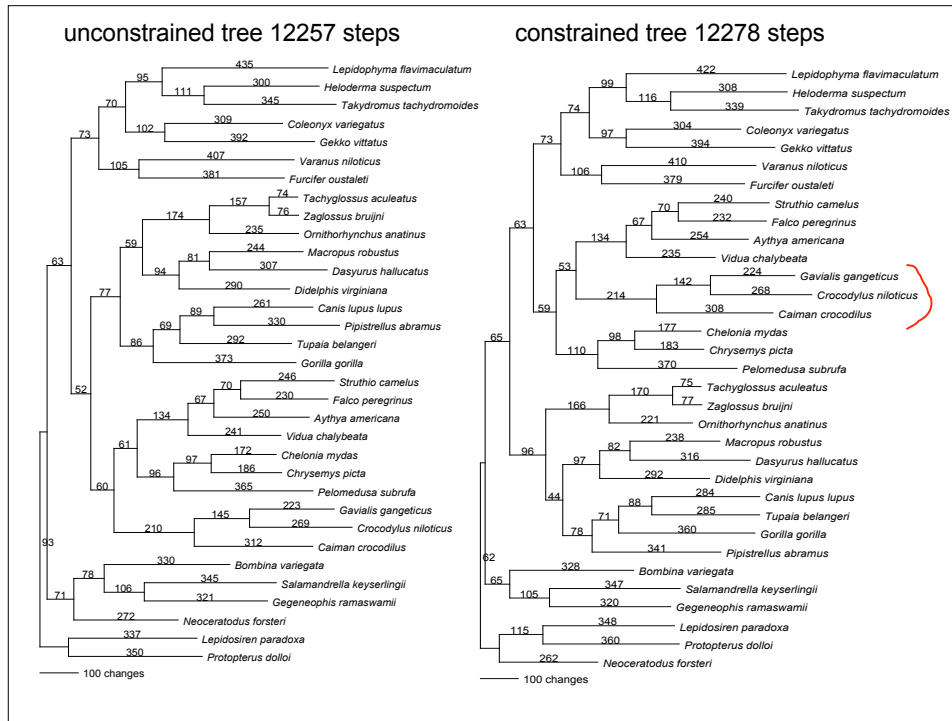


single MP tree  
length = 12257  
CI = 0.259

Bootstrap values  
above, decay indices  
below each node





### steps by data partition in constrained and unconstrained trees

#### Combined Analysis

	unconstrained	constrained (2 trees)		difference	%diff
ND2.1st	1960	1959	1958	-1.5	-0.08%
ND2.2nd	978	978	983	2.5	0.26%
ND2.3rd	3402	3401	3407	2	0.06%
cytb.1st	1478	1480	1480	2	0.14%
cytb.2nd	551	558	557	6.5	1.18%
cytb.3rd	3888	3902	3893	9.5	0.24%
all	12257	12278	12278	21	0.17%

#### Separate Analyses

	unconstrained	constrained	difference	%diff
ND2.1st	1928	1935	7	0.36%
ND2.2nd	957	973	16	1.67%
ND2.3rd	3321	3378	57	1.72%
cytb.1st	1443	1467	24	1.66%
cytb.2nd	535	546	11	2.06%
cytb.3rd	3789	3868	79	2.08%
all	11973	12167	194	1.62%

*steps by data partition in constrained and unconstrained trees*

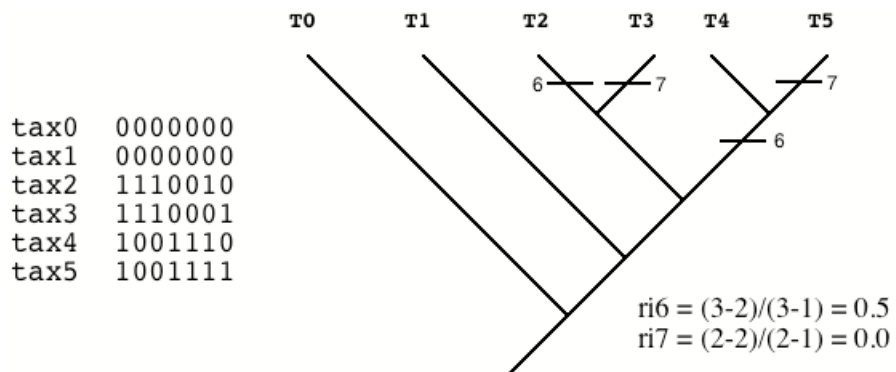
**Combined (tv only)**

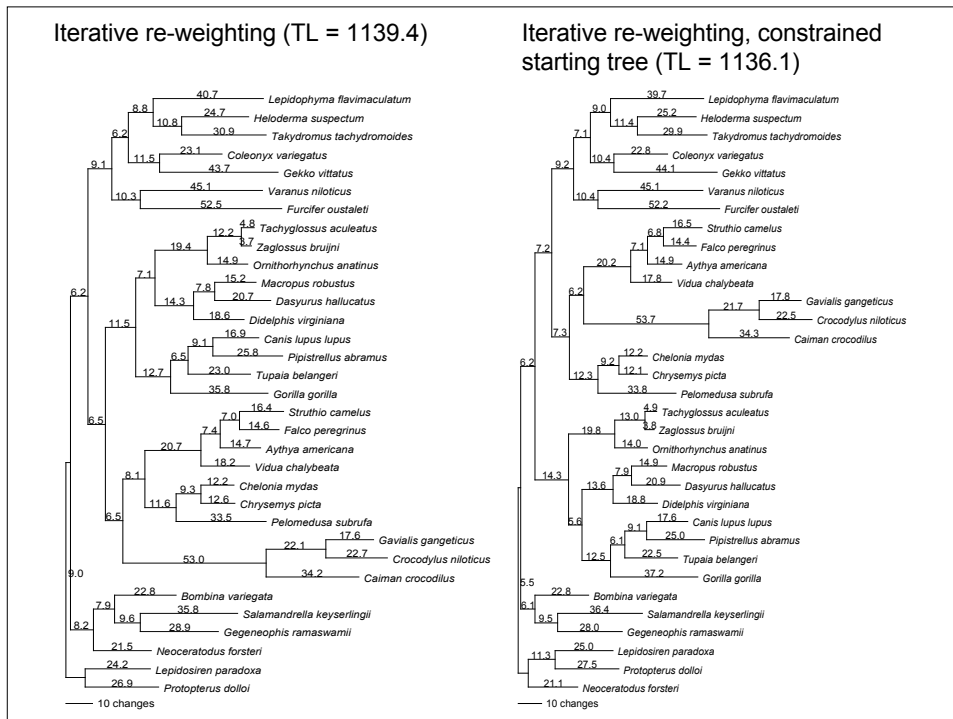
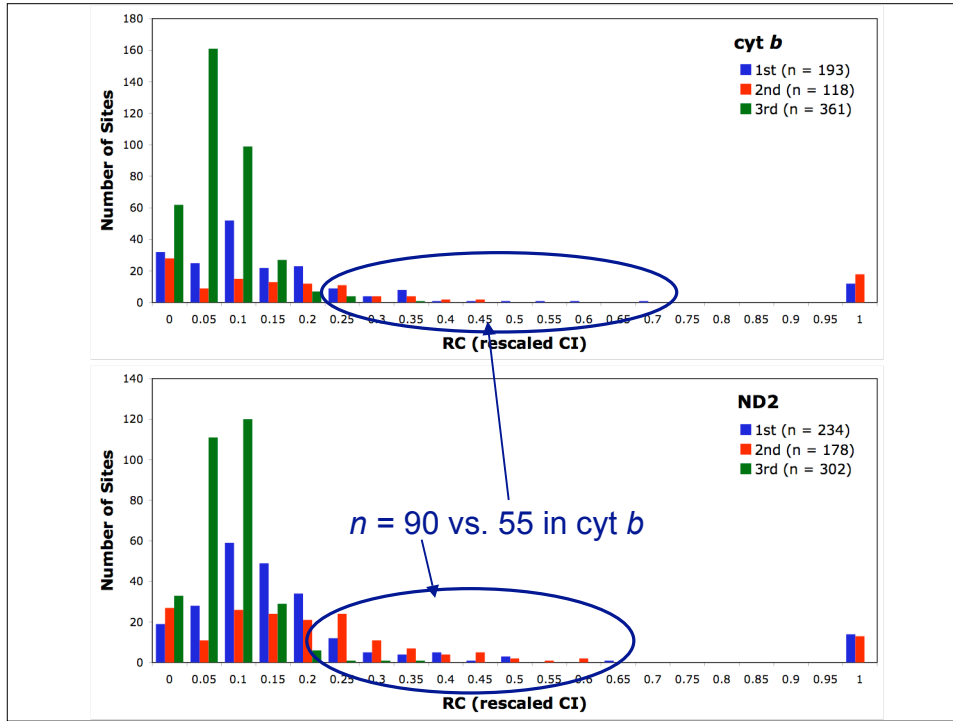
	unconstrained	constrained	difference	%diff
ND2.1st	1113	1111	-2	-0.18%
ND2.2nd	330	329	-1	-0.30%
ND2.3rd	2059	2067	8	0.39%
cytb.1st	687	685	-2	-0.29%
cytb.2nd	192	194	2	1.04%
cytb.3rd	2040	2043	3	0.15%
all	6421	6429	8	0.12%

**Separate (tv only)**

	unconstrained	constrained	difference	%diff
ND2.1st	1083	1095	12	1.11%
ND2.2nd	322	327	5	1.55%
ND2.3rd	1992	2043	51	2.56%
cytb.1st	663	671	8	1.21%
cytb.2nd	179	190	11	6.15%
cytb.3rd	1987	2019	32	1.61%
all	6226	6345	119	1.91%

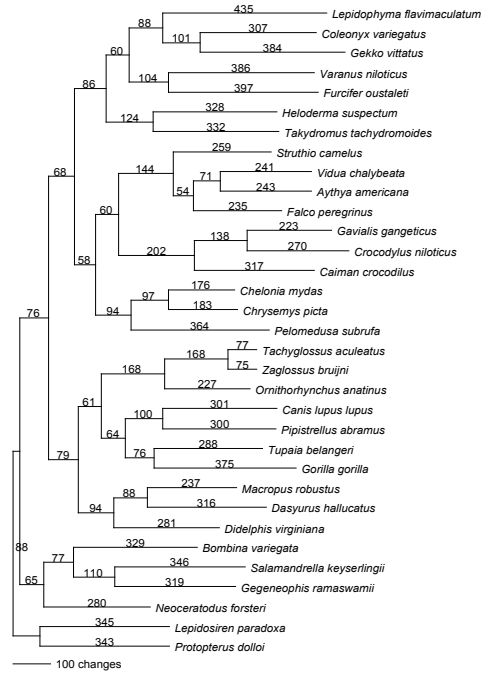
## Retention index





Unconstrained tree based on Goloboff weighting (implied weights), with  $k = 1$

Tree weight = 432.25



single MP tree length = 12257  
CI = 0.259

Bootstrap values above, decay indices below each node

