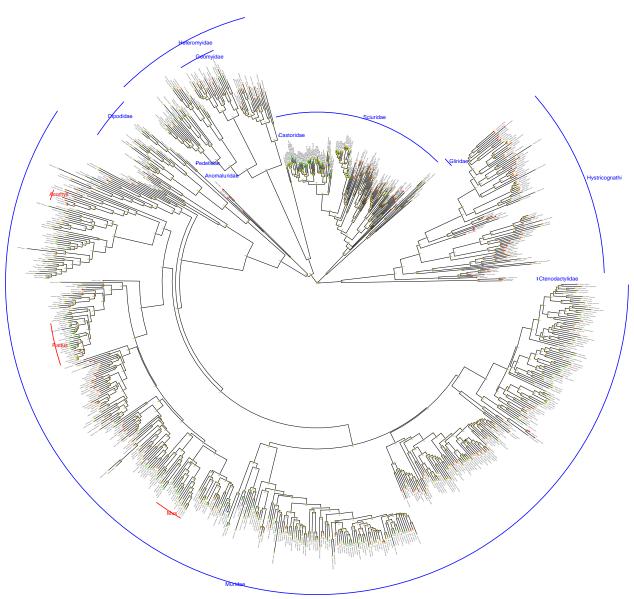
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ML

Warning in sqrt(diag(solve(h))): NaNs produced





Metadata about REML reconstruction:

Residual log-likelihood: -3620.553863

CI95 for ML:

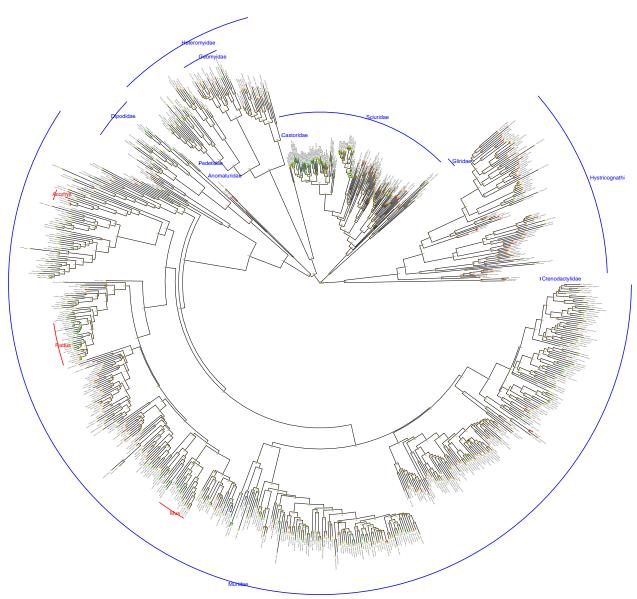
Table 1: sample ML confidence interval

	lower bound	upper bound
820	1.640912	5.569241
821	1.654606	5.555528
822	1.163133	6.046221
823	1.577236	5.630586
824	1.729779	5.480501
825	1.913126	5.296268
826	1.928765	5.270549
827	1.827166	4.456771
828	1.272778	1.908321
829	1.838788	5.368857

REML

Warning in sqrt(1/out\$hessian): NaNs produced





 ${\bf Metadata\ about\ REML\ reconstruction:}$

Residual log-likelihood: -5664.2874262

Sigma
2: 997.3621519, NaN

CI95 for REML:

Table 2: sample REML confidence interval

	lower bound	upper bound
820	-11.170629	16.942259
821	-11.075762	16.847165
822	-14.542507	20.307337
823	-11.577820	17.328727
824	-10.482808	16.261825
825	-9.168933	14.914383
826	-9.050760	14.727896
827	-7.636693	11.102322
828	-1.464976	3.070575
829	-9.671487	15.420109

PIC



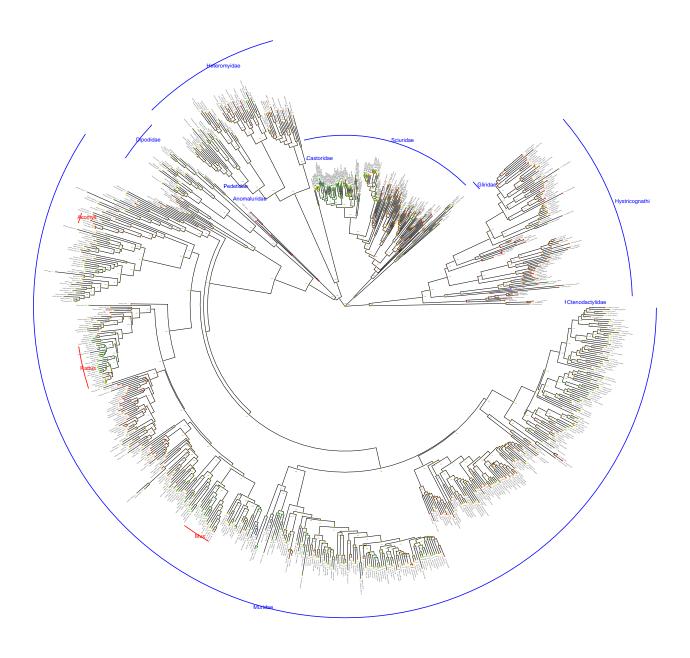
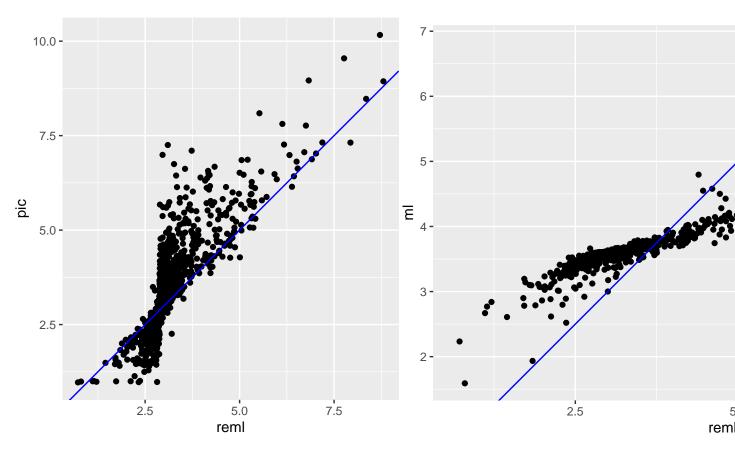


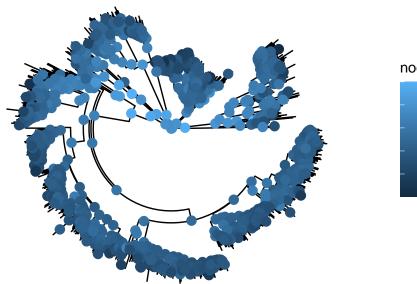
Table 3: sample PIC confidence interval

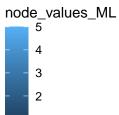
	lower bound	upper bound
820	2.0001156	3.771613
821	1.8748948	4.297813
822	0.8110138	4.270835
823	1.7176718	3.872031
824	2.4806467	4.499565
825	0.7682447	2.667815
826	0.7397868	2.736672
827	0.3333333	1.660659
828	0.8454750	1.137609
829	1.1800702	3.378577

Compare the values by plotting ML and PIC over REML

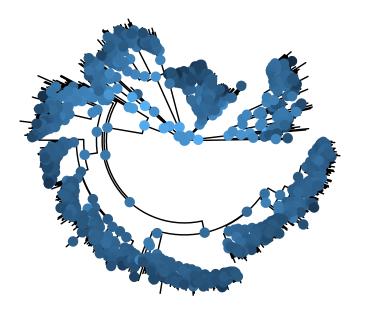


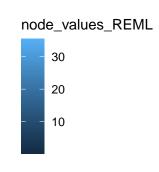
confidence interval ML





confidence interval REML





confidence interval PIC

