

3. Specified priors, realised priors and posteriors for calibrated nodes in each analysis.

	Node	Specified Prior		Realised priors: median (95% HPD)				Posterior: median (95% HPD)			
		Distribution	median (95% HPD)	Dataset 1	Dataset 2	Lin et al.	Simon et al.	Dataset 1	Dataset 2	Lin et al.	Simon et al.
Root	Crustacea – Hexapoda split	Exponential	515.5 (510.2, 539.5)	515.0 (510.0, 531.6)	515.7 (510.0, 532.2)	-	-	515.6 (510.0, 534.2)	515.7 (510.0, 534.0)	-	-
1	Collembola	Log-normal	417.0 (399.6, 473.1)	422.8 (399.9, 460.8)	423.0 (399.8, 463.1)	420.5 (399.4, 458.7)	417.1 (399.1, 449.0)	473.8 (424.0, 517.7)	466.6 (418.3, 514.7)	443.8 (400.4, 526.9)	417.2 (398.8, 447.2)
2	Pterygota	Normal	369.0 (324.9, 413.1)	379.5 (342.8, 411.3)	374.0 (338.4, 408.1)	366.3 (326.1, 405.4)	368.9 (329.1, 409.3)	385.9 (355.3, 418.0)	372.4 (341.2, 403.9)	344.8 (311.0, 384.4)	367.2 (327.6, 404.9)
3	Orthoptera	Gamma	273.7 (254.3, 326.2)	267.2 (251.6, 296.1)	268.5 (251.7, 298.5)	-	-	269.6 (251.8, 298.2)	272.8 (252.7, 301.6)	-	-
4	Dictyoptera	Gamma	155.7 (107.7, 285.7)	134.8 (100.6, 198.1)	137.7 (100.2, 207.4)	173.5 (141.4, 235.5)	-	128.3 (100.6, 171.7)	163.6 (140.6, 198.3)	160.8 (112.7, 206.5)	-
5	Plecoptera	Gamma	273.7 (254.3, 326.2)	268.0 (251.6, 297.2)	268.2 (251.9, 297.8)	-	-	272.1 (251.9, 305.5)	264.9 (251.6, 286.2)	-	-
6	Hemiptera	Gamma	273.7 (254.3, 326.2)	267.7 (251.4, 296.0)	-	-	-	262.4 (251.2, 281.6)	-	-	-
7	Hymenoptera	Gamma	123.7 (73.5, 260.0)	99.0 (66.1, 162.0)	-	-	-	120.3 (69.8, 186.5)	-	-	-
8	Ephemeroptera	Gamma	199.6 (152.9, 326.1)	247.9 (174.7, 326.5)	195.9 (147.6, 270.4)	188.9 (147.0, 261.7)	-	250.3 (191.9, 319.6)	234.4 (177.6, 298.6)	177.3 (147.0, 227.4)	-
9	Anisozygoptera	Gamma	235.9 (202.6, 326.3)	245.8 (202.3, 302.5)	230.2 (198.4, 280.6)	-	-	219.6 (198.2, 250.8)	215.2 (197.7, 241.1)	-	-
10	Aeshnidae/ Petaluridae/ Gomphidae	Gamma	199.6 (152.9, 326.1)	175.1 (146.6, 218.5)	-	-	-	163.4 (145.8, 192.7)	-	-	-
11	Zygoptera	Gamma	239.2 (207.0, 326.4)	242.8 (204.9, 298.1)	233.2 (202.9, 281.6)	233.5 (202.8, 288.2)	-	216.2 (202.7, 241.2)	215.9 (202.2, 240.0)	220.3 (202.2, 250.5)	-
12	Archaeognatha	Gamma	239.2 (207.0, 326.4)	-	-	240.9 (208.3, 301.8)	-	-	-	241.1 (205.6, 285.6)	-

Note: All dates are in millions of years before present.