New Phytologist Supporting Information

Article title: Long-term responses of life-history strategies to climatic variability in flowering plants

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The following Supporting Information is available for this article:

Figure S1. Mean probability of an annual root state for each of the 32 analyzed clades. Error bars show the range of probabilities for ancestral state reconstructed in the root of each phylogeny depending on a given bioclimatic variable.

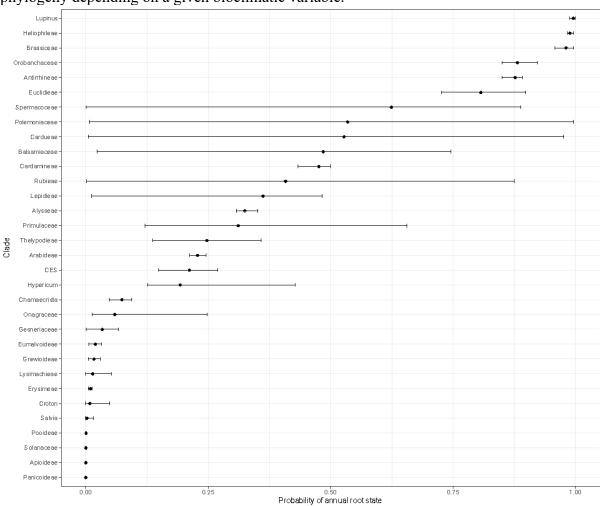


Table S1 Parameter estimates from the model averaged hOUwie fits for BIO1

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Salvia annual 0.01835306 0.09468796 2.79E-05 16.9541833 15.9886691 0.00014706 Solanaceae annual 0.03367712 0.10978934 3.28E-05 2.2.276894 22.0518739 0.00014929 Thelypodicae annual 0.03367712 0.10978934 3.28E-05 2.2.276896 22.0518739 0.00014929 Thelypodicae annual 0.03081334 0.60214063 0.00018454 16.0302033 15.1078576 0.00014456 Alysseae perennial 0.0120018 0.05288134 2.51E-05 15.7493571 16.1769452 0.0001455 Apioideae perennial 0.0120018 0.05283134 2.51E-05 15.7493571 16.1769452 0.00023455 Arabideae perennial 0.0130174 0.09463659 6.74E-05 10.437412 10.4937058 0.00035442 Arabideae perennial 0.01437154 0.12344513 5.84E-05 19.2453076 3.94547408 0.00023695 Brassiceae perennial 0.01437154 0.12344513 5.84E-05 <td>Rubieae</td> <td>annual</td> <td>0.20261902</td> <td>14.7219208</td> <td>0.00248467</td> <td>14.2412054</td> <td>14.2410898</td> <td>8.60E-05</td>	Rubieae	annual	0.20261902	14.7219208	0.00248467	14.2412054	14.2410898	8.60E-05
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Spermacoceae annual 0.03367712 0.10978934 3.28E-05 22.276896 22.0518739 0.00014929 Thelypodicae annual 0.0308134 0.00214063 0.00018454 16.0302033 15.1078576 0.00014456 Alysseae perennial 0.02199708 0.77642682 0.000172702 10.5103978 10.5140164 0.00011952 Antirrhineae perennial 0.0120018 0.05283134 2.51E-05 15.7493571 16.1769452 0.00024855 Apioideae perennial 0.01301074 0.09463659 6.74E-05 10.437412 10.4937058 0.00035442 0.00035442 0.07987928 1.43675206 0.00151978 3.9353647408 0.0003289 Balsamiaceae perennial 0.07987928 1.43675206 0.00151978 3.9353647408 0.00032695 Brassiceae perennial 0.01854014 7.38562273 0.0027768 13.9219199 13.9410979 0.00019018 Carduaieae perennial 0.03890428 1.56747447 0.00159958 7.4862357 7.55988708 0.00046145 Carduaeae perennial 0.02950397 8.01E-05 1.17E-05 5.05167277 5.06660478 0.00033127 CES perennial 0.02950397 8.01E-05 1.17E-05 5.05167277 5.06660478 0.00033127 CES perennial 0.02950397 8.01E-05 1.17E-05 2.2.5238456 22.5227251 9.53E-05 Erysimeae perennial 0.00522272 0.09443209 1.77E-05 22.5238456 22.5227251 9.53E-05 Erysimeae perennial 0.02713203 0.57528604 0.00021566 9.59452891 9.5930655 0.00023058 Euclidieae perennial 0.0341651 1.44339278 0.00119481 1.2958894 0.7259879 0.00066824 Eumalvoideae perennial 0.02447892 5.34179125 0.00021505 15.7401801 15.7456377 1.79E-05 Hypericum perennial 0.0193145 0.02400397 5.42E-06 22.5575966 22.576185 0.00011109 Cesariaceae perennial 0.01696327 0.38829114 0.00015788 15.1333481 15.1298741 0.00023052 Euclidieae perennial 0.01696327 0.38829114 0.00015788 15.1333481 15.1298741 0.00023052 Euclidieae perennial 0.01696327 0.38829114 0.00015788 15.333481 15.1298741 0.000230532 Poideae perennial 0.04045963 0.0930598 0.0013594 3.26E-05 13.								
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Lepidieae perennial 0.24003825 0.07966505 8.02E-05 14.3604909 14.3605583 0.00105854 Lupinus perennial 0.17200849 0.00771825 9.51E-05 13.7664455 13.7887147 0.00051338 Lysimachieae perennial 0.02562137 0.07225652 4.35E-05 12.0365717 12.1366828 0.00029724 Onagraceae perennial 0.01231289 0.33838161 0.00035963 14.5595015 14.5592252 0.00052732 Orobanchaceae perennial 0.04045963 0.0930598 0.00013524 12.8453955 12.9271392 0.00070211 Panicoideae perennial 0.04224172 5.12319916 0.00143819 20.9175867 20.9224078 0.00014036 Polemoniaceae perennial 0.0161253 0.0500847 6.56E-05 13.3968991 13.4439605 0.0005359 Poideae perennial 0.0305447 2.24398818 0.00230108 7.20217553 7.22005428 0.00051208 Primulaceae perennial 0.01659084 0.1964767	Hypericum	perennial	0.01696327	0.38829114	0.00015788	15.1333481	15.1298741	0.00020352
Lupinus perennial 0.17200849 0.00771825 9.51E-05 13.7664455 13.7887147 0.00051338 Lysimachieae perennial 0.02562137 0.07225652 4.35E-05 12.0365717 12.1366828 0.00029724 Onagraceae perennial 0.01231289 0.33838161 0.00035963 14.5595015 14.5592252 0.00052732 Orobanchaceae perennial 0.04045963 0.0930598 0.00013524 12.8453955 12.9271392 0.00070211 Panicoideae perennial 0.04224172 5.12319916 0.00143819 20.9175867 20.9224078 0.00014036 Polemoniaceae perennial 0.01061253 0.0500847 6.56E-05 13.3968991 13.4439605 0.0005359 Poideae perennial 0.0305447 2.24398818 0.00230108 7.20217553 7.22005428 0.00051208 Primulaceae perennial 0.01059084 0.1964767 0.00015072 6.8216377 6.78214719 0.00038336 Rubieae perennial 0.07609358 14.7219208								
Lysimachieae perennial 0.02562137 0.07225652 4.35E-05 12.0365717 12.1366828 0.00029724 Onagraceae perennial 0.01231289 0.33838161 0.00035963 14.5595015 14.5592252 0.00052732 Orobanchaceae perennial 0.04045963 0.0930598 0.00013524 12.8453955 12.9271392 0.00070211 Panicoideae perennial 0.04224172 5.12319916 0.00143819 20.9175867 20.9224078 0.00014036 Polemoniaceae perennial 0.01061253 0.0500847 6.56E-05 13.3968991 13.4439605 0.00053359 Pooideae perennial 0.0305447 2.24398818 0.00230108 7.20217553 7.22005428 0.00051208 Primulaceae perennial 0.01059084 0.1964767 0.00015072 6.8216377 6.78214719 0.00038336 Rubieae perennial 0.07609358 14.7219208 0.00645165 10.7557004 10.7626708 0.00021825 Salvia perennial 0.01337889 0.09468796 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Onagraceae perennial 0.01231289 0.33838161 0.00035963 14.5595015 14.5592252 0.00052732 Orobanchaceae perennial 0.04045963 0.0930598 0.00013524 12.8453955 12.9271392 0.00070211 Panicoideae perennial 0.04224172 5.12319916 0.00143819 20.9175867 20.9224078 0.00014036 Polemoniaceae perennial 0.01061253 0.0500847 6.56E-05 13.3968991 13.4439605 0.0005359 Pooideae perennial 0.0305447 2.24398818 0.00230108 7.20217553 7.22005428 0.00051208 Primulaceae perennial 0.01059084 0.1964767 0.00015072 6.8216377 6.78214719 0.00038336 Rubieae perennial 0.07609358 14.7219208 0.00645165 10.7557004 10.7626708 0.00021825 Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01348743 0.10978934								
Orobanchaceae perennial 0.04045963 0.0930598 0.00013524 12.8453955 12.9271392 0.00070211 Panicoideae perennial 0.04224172 5.12319916 0.00143819 20.9175867 20.9224078 0.00014036 Polemoniaceae perennial 0.01061253 0.0500847 6.56E-05 13.3968991 13.4439605 0.00053359 Pooideae perennial 0.0305447 2.24398818 0.00230108 7.20217553 7.22005428 0.00051208 Primulaceae perennial 0.01059084 0.1964767 0.00015072 6.8216377 6.78214719 0.00038336 Rubieae perennial 0.07609358 14.7219208 0.00645165 10.7557004 10.7626708 0.00021825 Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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Panicoideae perennial 0.04224172 5.12319916 0.00143819 20.9175867 20.9224078 0.00014036 Polemoniaceae perennial 0.01061253 0.0500847 6.56E-05 13.3968991 13.4439605 0.00053359 Pooideae perennial 0.0305447 2.24398818 0.00230108 7.20217553 7.22005428 0.00051208 Primulaceae perennial 0.01059084 0.1964767 0.00015072 6.8216377 6.78214719 0.00038336 Rubieae perennial 0.07609358 14.7219208 0.00645165 10.7557004 10.7626708 0.00021825 Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929	Orobanchaceae	perennial	0.04045963	0.0930598	0.00013524	12.8453955	12.9271392	0.00070211
Polemoniaceae perennial 0.01061253 0.0500847 6.56E-05 13.3968991 13.4439605 0.00053359 Pooideae perennial 0.0305447 2.24398818 0.00230108 7.20217553 7.22005428 0.00051208 Primulaceae perennial 0.01059084 0.1964767 0.00015072 6.8216377 6.78214719 0.00038336 Rubieae perennial 0.07609358 14.7219208 0.00645165 10.7557004 10.7626708 0.00021825 Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929		perennial			0.00143819			0.00014036
Pooideae perennial 0.0305447 2.24398818 0.00230108 7.20217553 7.22005428 0.00051208 Primulaceae perennial 0.01059084 0.1964767 0.00015072 6.8216377 6.78214719 0.00038336 Rubieae perennial 0.07609358 14.7219208 0.00645165 10.7557004 10.7626708 0.00021825 Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929								
Primulaceae perennial 0.01059084 0.1964767 0.00015072 6.8216377 6.78214719 0.00038336 Rubieae perennial 0.07609358 14.7219208 0.00645165 10.7557004 10.7626708 0.00021825 Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929								
Rubieae perennial 0.07609358 14.7219208 0.00645165 10.7557004 10.7626708 0.00021825 Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929								
Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929	Primulaceae	perennial	0.01059084	0.1964767	0.00015072			0.00038336
Salvia perennial 0.01337889 0.09468796 2.79E-05 15.5519714 15.5541254 0.00014708 Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929	Rubieae	perennial	0.07609358	14.7219208	$0.0064516\overline{5}$	10.7557004	10.7626708	0.00021825
Solanaceae perennial 0.01390362 0.11920195 7.30E-05 16.8991125 16.8973386 0.00030601 Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929	Salvia	perennial	0.01337889	0.09468796	2.79E-05	15.5519714	15.5541254	0.00014708
Spermacoceae perennial 0.01348743 0.10978934 3.28E-05 18.8112359 19.747762 0.00014929								
Inelypodieae perennial 0.07954879 0.60214063 0.00017023 9.30177869 9.40325401 0.00014408								
	Thelypodieae	perennial	0.07954879	0.60214063	0.00017023	9.30177869	9.40325401	0.00014408

Table S2 Parameter estimates from the model-averaged hOUwie fits for BIO4

		1	TOTTI UTO II			Wie Hits for B	
Group.1	Group.2	rates	alpha	sigma.sq	theta	expected_mean	expected_var
Alysseae	annual	0.04623064	0.29525668	0.01411517	1001.04014	1000.51526	0.02446976
Antirrhineae	annual	0.03545918	0.03345322	0.00156237	838.583326	839.489812	0.02628025
Apioideae	annual	0.02391669	0.07987379	0.01081229	943.663154	933.266706	0.07501499
Arabideae	annual	1.1513118	0.68015068	0.02881815	993.317362	992.392174	0.04742367
Balsamiaceae	annual	0.0145933	0.00380646	0.00582319	346378.375	849.973796	0.22211988
Brassiceae	annual	0.05688646	5.02214681	0.35297626	865.438844	865.480434	0.03502791
Cardamineae	annual	0.03194164	0.3267593	0.09297251	910.867313	908.066406	0.14241586
Cardueae	annual	0.07035134	0.09020761	0.00787459	938.278821	930.337622	0.04564716
CES	annual	0.10411611	0.00666191	0.00365852	1613.95006	832.713664	0.14640274
Chamaecrista	annual	0.06874797	0.13331923	0.00168011	421.584619	419.653079	0.00632869
Croton	annual	0.03179358	0.13380144	0.02210604	944.867343	786.431857	0.07999859
Erysimeae	annual	0.1982503	0.05325203	0.01549671	1008.16369	1007.71817	0.12207182
Euclidieae	annual	0.04590691	0.57957188	0.00504498	1159.92731	1159.7501	0.00417278
Eumalvoideae	annual	0.04196715	0.07993348	0.02366537	573.698439	564.939218	0.13420067
Gesneriaceae	annual	0.01034297	0.00011715	0.00273603	479.559184	479.624543	0.19744503
Grewioideae	annual	0.01839739	0.05615118	0.00826692	531.339029	521.780875	0.07368693
Heliophileae	annual	0.03394285	0.22994972	0.00241149	680.822714	680.805003	0.0066169
Hypericum	annual	0.10949778	0.02634112	0.0587529	1059.13797	892.645913	0.61556299
Lepidieae	annual	0.26785015	1.20419534	0.18476812	867.865367	860.580185	0.07780927
Lupinus	annual	0.03317324	0.00150559	0.00411432	767.461383	766.211687	0.07422281
Lysimachieae	annual	0.0339976	0.00206873	6.37E-05	815.378812	825.214515	0.19087424
Onagraceae	annual	0.07402165	0.05566329	0.0367747	716.509791	717.691354	0.2833446
Orobanchaceae	annual	0.04951053	0.10805047	0.01816022	864.614561	867.539143	0.08662163
Panicoideae	annual	0.04060338	5.82108862	0.98246451	549.640242	549.634825	0.08443686
Polemoniaceae	annual	0.01199421	0.03094406	0.00421092	936.138183	924.871046	0.06812361
Pooideae	annual	0.02256814	0.59969435	0.05025966	925.96754	916.432884	0.05014514
Primulaceae		0.03228184	2.55118575	0.19729472	1067.51702	1065.14705	0.03996562
	annual						
Rubieae	annual	0.13120271	0.95176001	0.01740108	885.231527	885.289456	0.00988396
Salvia	annual	0.03575222	0.04632607	0.01112849	889.904718	756.566801	0.12203424
Solanaceae	annual	0.03324896	0.10759233	0.0275607	565.977753	547.629476	0.12826102
Spermacoceae	annual	0.05419206	0.0574132	0.04481367	426.02468	451.752564	0.20473137
Thelypodieae	annual	0.03099634	0.00627389	0.00654888	841.947965	840.304406	0.09617648
Alysseae	perennial	0.02644351	0.29525668	0.01317552	996.015901	996.561161	0.02389206
Antirrhineae	perennial	0.01566215	0.03345322	0.00567421	837.302126	838.907877	0.0552575
Apioideae	perennial	0.01284296	0.07987379	0.01407058	923.416731	923.560248	0.09002476
Arabideae	perennial	0.25307988	0.68015068	0.14579052	991.071352	991.113327	0.10693386
Balsamiaceae	perennial	0.01369379	0.00380646	0.00053683	294.505224	418.545005	0.09613556
Brassiceae	perennial	0.0212001	5.02214681	0.35268411	904.628579	903.539404	0.03489985
Cardamineae	perennial	0.03668898	0.3267593	0.09180805	903.092943	903.216508	0.1406005
					926.199939		
Cardueae	perennial	0.01723469	0.09020761	0.01433502		926.071184	0.06900279
CES	perennial	0.03064458	0.00666191	0.00627936	790.30862	812.204552	0.15948445
Chamaecrista	perennial	0.01191969	0.13331923	0.00166961	417.479165	417.536707	0.0063186
Croton	perennial	0.00530538	0.13380144	0.01444485	441.669282	449.858644	0.05466812
Erysimeae	perennial	0.0282361	0.05325203	0.01877336	1006.94915	1006.95589	0.1251606
Euclidieae	perennial	0.05983	0.57957188	0.04756543	1135.80506	1136.15584	0.04448762
Eumalvoideae	•	0.03783	0.07993348	0.04750545	553.671627	554.652931	
	perennial						0.08879878
Gesneriaceae	perennial	0.00239728	0.00011715	0.0027086	479.622938	479.632455	0.19628061
Grewioideae	perennial	0.00198939	0.05615118	0.00888641	461.762101	465.804725	0.07974829
Heliophileae	perennial	0.02053737	0.22994972	0.00262652	676.483309	678.326028	0.00675669
Hypericum	perennial	0.0135637	0.02634112	0.00773588	859.501785	872.116987	0.33904791
Lepidieae	perennial	0.20604805	1.20419534	0.17984272	809.447138	820.311873	0.07520574
Lupinus	perennial	0.08571184	0.00150559	0.02851749	698.858054	759.650441	0.17487776
Lysimachieae	perennial	0.02746466	0.00206873	0.00905691	826.014558	825.973939	0.24500091
Onagraceae	perennial	0.010763	0.05566329	0.01796286	673.965449	682.706142	0.23232201
Orobanchaceae	perennial	0.04493717	0.10805047	0.02204674	878.88469	876.584242	0.10108514
Panicoideae	perennial	0.04248433	5.82108862	0.98241422	548.358333	548.364392	0.08443103
Polemoniaceae	perennial	0.01019994	0.03094406	0.00516661	418.137332	689.649525	0.07613777
Pooideae	perennial	0.0313471	0.59969435	0.15827396	873.220878	873.636097	0.13148293
	•						
Primulaceae	perennial	0.01169352	2.55118575	0.19162347	940.087717	940.121823	0.03752795
Rubieae	perennial	0.01132199	0.95176001	0.08604369	887.015009	886.936364	0.04423067
Salvia	perennial	0.01331384	0.04632607	0.01239111	732.177346	732.523841	0.12671422
Solanaceae	perennial	0.01325026	0.10759233	0.0277963	527.868206	528.177482	0.12907516
Spermacoceae	perennial	0.02360441	0.0574132	0.01400538	494.215488	491.398934	0.12128527
Thelypodieae	perennial	0.07839508	0.00627389	0.00666205	839.593379	840.144516	0.09670056
Therypouleae	perenniai	0.0/03/300	0.0002/309	0.00000203	007.070317	070.174310	0.070/0030

Table S3 Parameter estimates from the model averaged hOUwie fits for BIO5.

Aysseac annual 0.04337222 0.16994061 0.00181867 7.71166682 7.7115448 8.844-154 Antirhrinece annual 0.013134976 0.10723967 3.728-05 7.27492161 7.297062596 0.00021431 Antirhrinece annual 0.01500899 0.1915559 0.568-155 31.51510133 7.2942892 0.00021431 Arabideac annual 0.0149122 0.25696766 7.738-65 31.51510133 7.2942892 0.00021431 Cardinnicea annual 0.0149122 0.25696766 7.738-65 31.51510133 7.2942892 0.00021431 Cardinnicea annual 0.07595414 0.2964912 0.00437339 2.5050024 2.5050021 0.00015351 Cardinnicea annual 0.0714986 0.12847278 4.84E-05 2.96563315 2.98459034 0.00021431 Cardinnicea annual 0.0714986 0.12847278 4.84E-05 2.96563315 2.92459386 0.00051871 Chamacerista annual 0.0943656 0.45939341 2.18E-05 31.515013 3.199002 0.00018871 Croton annual 0.03490825 0.45993941 2.18E-05 31.515013 0.0002452 Eumalvoideae annual 0.03490325 0.4586416 0.0228441 2.8727655 2.8701489 0.00024352 Eumalvoideae annual 0.03909440 0.06037643 2.93E-05 2.93E-05 2.8701489 0.00024352 Eumalvoideae annual 0.0345661 3.816809 0.0002221 2.8760965 2.827108 0.00024352 Grosvindeae annual 0.0345661 3.816809 0.0002221 2.8760965 2.827608 0.0005174 Elepidiace annual 0.0314561 3.816809 0.0002221 2.8760965 2.827608 0.00024352 Elepidiace annual 0.0314561 3.816809 0.0002231 2.876065 2.827608 0.00024352 Enalvoideae annual 0.0249186 0.478698 0.00032541 0.00032641 0.0002646 Enalvoideae annual 0.0249186 0.0786097 2.588-65 2.8288688 0.0003848 0.0002635 Engineace annual 0.0249186 0.0786097 2.588-65 2.8288688 0.0003849 0.0002635 Engineace annual 0.0249186 0.0786097 2.588-65 2.8288688 0.0003849 0.0002635 Engineace annual 0.0249186 0.0469404 0.0003764 2.828656 2.8295742 0.0002697 0.0002698 Engineace annual 0.0248767 0.0004697 0.00							Wie ing for B	
Antrihineac	Group.1	Group.2		alpha		theta	expected_mean	expected_var
Antrihineac	Alysseae	annual	0.04337222	10.6994061	0.00181687	27.1166682	27.1134443	8.84E-05
Apriodeace annual 0.01620089 0.19195569 9.6816-05 31.5150133 29.4348292 0.00024946 Arabideace annual 0.014912 0.25968766 7.7316-05 2.44622633 24.4695021 0.00015536 Brassisceace annual 0.014912 0.25968766 7.7316-05 2.44622633 24.4695021 0.00015536 Brassisceace annual 0.0255818 6.74887649 0.00272862 26.0792835 25.8167091 0.00020681 Carduseac annual 0.0256818 6.74887649 0.00272862 26.0792835 25.8167091 0.00020681 Carduseac annual 0.014986 0.18487278 4.8486-03 29.665315 59.4253086 0.00015714 Carduseac annual 0.014986 0.18487278 4.8486-03 29.665315 59.4253086 0.00015714 Carduseac annual 0.02748667 0.1922311 2.218-05 18.146636 18.8662562 0.00015714 Carduseac annual 0.02748667 0.1922311 2.218-05 29.0584108 29.087245 9.278-05 Erysineac annual 0.1844664 4.08500477 0.00064567 23.4569097 25.4175552 0.00016716 Euclidieace annual 0.3940325 3.684164 0.02584441 2.878-055 28.445017 28.421948 0.00024352 0.000160004 0.0007603 0.0009575 0.958-05 2.64865403 26.4686758 9.00062452 0.00016004 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016016 0.00016	Antirrhineae	annual	0.03134976	0.10723967		29.7492161	29.7062696	0.00017423
Arabideace annual 0.27197746 2.01303375 0.00133574 23.0705727 21.9706136 0.0003325 Brassicace annual 0.0759514 0.2964912 0.00437339 28.505024 28.5050131 0.00021431 Cardamineac annual 0.0759514 0.2964912 0.00437339 28.505024 28.5050131 0.00021431 Cardamineac annual 0.0759514 0.2964912 0.00437339 28.505024 28.5050131 0.00021431 CES annual 0.0714956 0.12847278 4.84E-03 29.6563315 39.4250386 0.00018871 Chamacerista annual 0.0974056 0.45959341 2.18E-03 18.14666 18.645250 0.00018871 Chamacerista annual 0.0943656 0.45959341 2.18E-03 18.150002 30.6792633 2.95E-05 Erysimeae annual 0.02748667 0.19122311 2.21E-03 20.551018 39.0457245 9.27E-05 Erysimeae annual 0.02748667 0.0063764 2.21E-05 20.551018 39.0457245 9.27E-05 Erysimeae annual 0.03490615 0.06037643 2.93E-05 2.8465007 25.4175552 0.00016716 Euclideae annual 0.03490615 0.06037643 2.93E-05 2.8445017 28.4219481 0.00023524 Erysimeae annual 0.03990404 0.06037643 2.93E-05 2.8445017 28.4219481 0.0002352 Erysimeae annual 0.007603 0.0490575 0.58E-06 2.64865403 2.64866788 9.0002452 Erysimeae annual 0.03990404 0.06037643 2.93E-05 2.8485935 30.839455 6.42E-05 Erysimeae annual 0.03990404 0.06037643 2.93E-05 2.8485935 30.839455 6.42E-05 Erysimeae annual 0.03890404 0.00235241 0.8058595 30.839455 6.42E-05 Erysimeae annual 0.03890404 0.00235241 0.8058595 30.839455 6.42E-05 Erysimeae annual 0.0389040 0.0023221 0.0023259 0.002324 0.002325 0.002324 0.002325 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324 0.002324								
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Lepidieae perennial 0.23259435 12.7990663 0.00853369 27.1273164 27.1996417 0.00033105 Lupinus perennial 0.08186885 0.02696097 8.23E-05 25.6003891 25.8845822 0.00050458 Lysimachieae perennial 0.02547939 0.12980581 3.45E-05 26.3543955 26.3548318 0.00013576 Onagraceae perennial 0.01116725 0.47536547 0.00029177 25.5988822 25.9113943 0.00031558 Orobanchaceae perennial 0.04580571 0.36440144 0.0001489 26.1907864 26.2268877 0.00029035 Panicoideae perennial 0.0407256 10.1067817 0.00165495 29.6247791 29.6269721 8.18E-05 Polemoniaceae perennial 0.01145944 0.07125677 4.05E-05 28.8512318 28.8583737 0.00028402 Poideae perennial 0.03070636 9.27369114 0.00549692 21.7025115 21.7098626 0.00029637 Primulaceae perennial 0.0104393 0.22886667 </td <td>Hypericum</td> <td>perennial</td> <td>0.01772965</td> <td>0.05856605</td> <td>4.94E-05</td> <td>26.4522746</td> <td>26.4913315</td> <td>0.00047563</td>	Hypericum	perennial	0.01772965	0.05856605	4.94E-05	26.4522746	26.4913315	0.00047563
Lupinus perennial 0.08186885 0.02696097 8.23E-05 25.6003891 25.8845822 0.00050458 Lysimachieae perennial 0.02547939 0.12980581 3.45E-05 26.3543955 26.3548318 0.00013576 Onagraceae perennial 0.01116725 0.47536547 0.00029177 25.5988822 25.9113943 0.00031558 Orobanchaceae perennial 0.04580571 0.36440144 0.0001489 26.1907864 26.2268877 0.00029035 Panicoideae perennial 0.0407256 10.1067817 0.00165495 29.6247791 29.6269721 8.18E-05 Polemoniaceae perennial 0.01145944 0.07125677 4.05E-05 28.8512318 28.8583737 0.00028402 Pooideae perennial 0.03070636 9.27369114 0.00549692 21.7025115 21.7098626 0.00029637 Primulaceae perennial 0.01104393 0.22886667 0.00011736 20.0237445 20.0274335 0.00025704 Rubieae perennial 0.01330184 0.12517184 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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Onagraceae perennial 0.01116725 0.47536547 0.00029177 25.5988822 25.9113943 0.00031558 Orobanchaceae perennial 0.04580571 0.36440144 0.0001489 26.1907864 26.2268877 0.0002935 Panicoideae perennial 0.0407256 10.1067817 0.00165495 29.6247791 29.6269721 8.18E-05 Polemoniaceae perennial 0.01145944 0.07125677 4.05E-05 28.8512318 28.8583737 0.00028402 Pooideae perennial 0.03070636 9.27369114 0.00549692 21.7025115 21.7098626 0.00029637 Primulaceae perennial 0.01104393 0.22886667 0.00011736 20.0237445 20.0274335 0.00025704 Rubieae perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522								
Orobanchaceae perennial 0.04580571 0.36440144 0.0001489 26.1907864 26.2268877 0.00020935 Panicoideae perennial 0.0407256 10.1067817 0.00165495 29.6247791 29.6269721 8.18E-05 Polemoniaceae perennial 0.01145944 0.07125677 4.05E-05 28.8512318 28.8583737 0.00028402 Pooideae perennial 0.03070636 9.27369114 0.00549692 21.7025115 21.7098626 0.00029637 Primulaceae perennial 0.01104393 0.22886667 0.00011736 20.0237445 20.0274335 0.00025704 Rubieae perennial 0.02879279 11.3357708 0.00233061 24.2344206 24.2428943 0.00010212 Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.016530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Panicoideae perennial 0.0407256 10.1067817 0.00165495 29.6247791 29.6269721 8.18E-05 Polemoniaceae perennial 0.01145944 0.07125677 4.05E-05 28.8512318 28.8583737 0.00028402 Pooideae perennial 0.03070636 9.27369114 0.00549692 21.7025115 21.7098626 0.00029637 Primulaceae perennial 0.01104393 0.22886667 0.00011736 20.0237445 20.0274335 0.00025704 Rubieae perennial 0.02879279 11.3357708 0.00233061 24.2344206 24.2428943 0.00010212 Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138		perennial		0.47536547			25.9113943	0.00031558
Panicoideae perennial 0.0407256 10.1067817 0.00165495 29.6247791 29.6269721 8.18E-05 Polemoniaceae perennial 0.01145944 0.07125677 4.05E-05 28.8512318 28.8583737 0.00028402 Pooideae perennial 0.03070636 9.27369114 0.00549692 21.7025115 21.7098626 0.00029637 Primulaceae perennial 0.01104393 0.22886667 0.00011736 20.0237445 20.0274335 0.00025704 Rubieae perennial 0.02879279 11.3357708 0.00233061 24.2344206 24.2428943 0.00010212 Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138	Orobanchaceae	perennial	0.04580571	0.36440144	0.0001489	26.1907864	26.2268877	0.00020935
Polemoniaceae perennial 0.01145944 0.07125677 4.05E-05 28.8512318 28.8583737 0.00028402 Pooideae perennial 0.03070636 9.27369114 0.00549692 21.7025115 21.7098626 0.00029637 Primulaceae perennial 0.01104393 0.22886667 0.00011736 20.0237445 20.0274335 0.00025704 Rubieae perennial 0.02879279 11.3357708 0.00233061 24.2344206 24.2428943 0.00010212 Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138		1						
Pooideae perennial 0.03070636 9.27369114 0.00549692 21.7025115 21.7098626 0.00029637 Primulaceae perennial 0.01104393 0.22886667 0.00011736 20.0237445 20.0274335 0.00025704 Rubieae perennial 0.02879279 11.3357708 0.00233061 24.2344206 24.2428943 0.00010212 Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138								
Primulaceae perennial 0.01104393 0.22886667 0.00011736 20.0237445 20.0274335 0.00025704 Rubieae perennial 0.02879279 11.3357708 0.00233061 24.2344206 24.2428943 0.00010212 Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138								
Rubicae perennial 0.02879279 11.3357708 0.00233061 24.2344206 24.2428943 0.00010212 Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138								
Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138	Primulaceae	perennial	0.01104393	0.22886667	0.00011736	20.0237445	20.0274335	0.00025704
Salvia perennial 0.01330184 0.12517184 4.68E-05 27.1876332 27.1876988 0.00018666 Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138	Rubieae	perennial	0.02879279	11.3357708	0.00233061	24.2344206	24.2428943	$0.0001\overline{0212}$
Solanaceae perennial 0.01382659 0.16530149 7.87E-05 25.6218135 25.6218136 0.00023809 Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138		•						
Spermacoceae perennial 0.06163745 0.11487522 1.30E-05 29.1761336 29.1763155 0.0001138								
Thelypodieae perennial 0.07627419 0.0634584 7.21E-05 27.2564202 27.4590681 0.00057905								
	I helypodieae	perennial	0.07627419	0.0634584	7.21E-05	27.2564202	27.4590681	0.00057905

Table S4 Parameter estimates from the model averaged hOUwie fits for BIO6

Table 54 Fa	Tameter	estimates.	Hom the n	iouel avera	aged HOO	wie ms for b	100
Group.1	Group.2	rates	alpha	sigma.sq	theta	expected_mean	expected_var
Alysseae	annual	0.05161333	6.22818656	0.00420731	-2.5872065	-2.6130718	0.00035728
Antirrhineae	annual	0.03153751	0.05956301	4.77E-05	4.16352647	4.16319215	0.00040351
Apioideae	annual	0.01369082	0.11671906	5.17E-05	2.79702488	0.0871027	0.00036986
Arabideae	annual	1.57546449	1.02115052	0.00222512	-8.9057323	-9.3703577	0.0010899
Balsamiaceae	annual	0.01404574	0.00331545	2.63E-05	4.33322988	5.0580273	0.00160415
Brassiceae	annual	0.05940327	8.37844032	0.00515641	2.79205995	2.79147376	0.00031426
Cardamineae	annual	0.03710529	14.9016984	0.00896339	-0.8557734	-0.9579275	0.00031157
Cardueae	annual	0.07951689	0.04745138	5.89E-05	24.2413272	5.22621163	0.00075799
CES	annual	0.08983146	0.00061035	4.97E-05	-6.9837056	-8.0944107	0.00108717
Chamaecrista	annual	0.0776548	0.06377404	1.31E-05	17.7269466	17.5173651	0.00010645
Croton	annual	0.04789096	0.08200858	0.00012471	0.35893374	5.81302847	0.00067711
Erysimeae	annual	0.18334152	0.130955	0.00021388	-5.4326107	-5.4313851	0.00099315
Euclidieae	annual	0.04332979	0.78484052	0.00137342	-9.4705188	-9.5720676	0.00107547
Eumalvoideae	annual	0.04499692	0.0400512	4.37E-05	10.7729575	9.68704456	0.00054352
Gesneriaceae	annual	0.01200571	1.80E-05	1.86E-05	32.2990803	11.351057	0.00128112
Grewioideae	annual	0.0188415	0.03116208	2.40E-05	14.1142749	14.2676253	0.00038977
Heliophileae	annual	0.03543767	0.72214292	6.28E-05	4.42898155	4.42874101	6.42E-05
Hypericum	annual	0.08505912	0.38813508	0.00039905	3.66568345	3.60648487	0.0005244
Lepidieae	annual	0.24167275	0.15644081	0.00047588	1.37135046	1.53084075	0.00201487
Lupinus	annual	0.0298838	8.05E-05	1.85E-05	2.92253971	2.92250733	0.00037004
Lysimachieae	annual	0.03317461	0.01845862	1.65E-05	4.78979231	-0.226402	0.00108976
Onagraceae	annual	0.0729175	0.32771862	0.00056161	1.74824217	1.74069861	0.00086319
Orobanchaceae	annual	0.05366978	0.3059429	0.00059156	0.34673511	-0.2261732	0.00096534
Panicoideae	annual	0.02806071	0.89663704	0.00069173	11.7845865	11.7886472	0.00037604
Polemoniaceae	annual	0.01359697	0.03724123	3.41E-05	0.06272615	0.07136543	0.00062239
Pooideae	annual	0.03461644	7.60060832	0.00550049	0.55533901	0.46764762	0.00036478
Primulaceae	annual	0.02774153	1.80320897	0.00309142	-8.8019942	-8.8019938	0.00075187
Rubieae	annual	0.12070004	14.8097802	0.00561357	2.15523062	2.15510356	0.00019313
Salvia	annual	0.01857804	0.08850728	7.58E-05	4.04848497	3.96820796	0.00042913
Solanaceae	annual	0.03417268	0.11593327	0.00015636	7.97218075	8.47110923	0.00067372
Spermacoceae	annual	0.03577035	0.1393921	0.00014899	14.4334213	14.0807734	0.00052781
Thelypodieae	annual	0.03118705	0.76067528	0.00024656	2.44353163	1.62625784	0.00014893
Alysseae	perennial	0.02680039	6.22818656	0.00449874	-3.0347174	-3.0141286	0.00036718
Antirrhineae	perennial	0.01118818	0.05956301	5.19E-05	4.15231742	4.15845512	0.00042346
Apioideae	perennial	0.01391388	0.11671906	0.00019408	-3.4906913	-3.4356057	0.00082635
Arabideae	perennial	0.2551859	1.02115052	0.0022278	-10.24818	-10.241348	0.00109115
Balsamiaceae	perennial	0.01467325	0.00331545	7.37E-05	1534.9123	9.94250783	0.00229979
Brassiceae	perennial	0.02528941	8.37844032	0.005576	0.97804292	0.99501929	0.00032824
Cardamineae	perennial	0.03890158	14.9016984	0.04083057	-6.4841025	-6.4837457	0.00136872
Cardueae	perennial	0.03683252	0.04745138	0.00011318	-2.846125	-0.395766	0.00104146
CES	perennial	0.02897703	0.00061035	3.21E-05	-8.0927916	-8.0954344	0.00099018
Chamaecrista	perennial	0.00983694	0.06377404	1.32E-05	17.395518	17.3991579	0.0001079
Croton	perennial	0.01063973	0.08200858	4.48E-05	15.6573085	15.274565	0.00028631
Erysimeae	perennial	0.02610273	0.130955	0.00023434	-5.4284971	-5.4285068	0.00097366
Euclidieae		0.04535073	0.78484052		-16.337683	-15.828586	0.00113395
Eumalvoideae	perennial	0.01453831	0.0400512	4.36E-05	9.67899705	9.67982439	0.0005434
Gesneriaceae	perennial	0.00320575	1.80E-05	1.73E-05	18.2306078	11.3302853	0.00124577
Grewioideae	perennial	0.00187511	0.03116208	2.82E-05	14.723028	14.681001	0.00044835
Heliophileae	perennial	0.02302884	0.72214292	9.40E-05	4.03422465	4.17033371	6.92E-05
Hypericum	perennial	0.01869075	0.38813508	0.00037287	3.41154958	3.42875815	0.00052235
Lepidieae	perennial	0.20581917	0.15644081	0.00033798	2.06311666	1.82117735	0.00162877
Lupinus	perennial	0.07971378	8.05E-05	0.00020486	2.92213576	2.92224044	0.00116014
Lysimachieae	perennial	0.02647578	0.01845862	7.57E-05	-0.2681844	-0.2653882	0.00142268
Onagraceae	perennial	0.00338222	0.32771862	0.00056695	2.55685637	2.55235806	0.0008643
Orobanchaceae	perennial	0.04425846	0.3059429	0.00059516	-3.2859605	-3.0132383	0.00097497
Panicoideae	perennial	0.04004537	0.89663704	0.00081318	11.8072231	11.8068683	0.00047584
Polemoniaceae	perennial	0.01081812	0.03724123	0.00010675	0.22643204	0.15817461	0.00127746
Pooideae	perennial	0.03306141	7.60060832	0.0186809	-6.3391051	-6.3288309	0.00127710
Primulaceae	perennial	0.01066659	1.80320897	0.00261848	-8.7184746	-8.7184746	0.00072935
Rubieae	perennial	0.01063675	14.8097802	0.01562851	-2.2668226	-2.2582081	0.00052696
Salvia	perennial	0.01315338	0.08850728	7.72E-05	3.92992893	3.93018933	0.00043193
Solanaceae	perennial	0.01372745	0.11593327	0.00015632	9.1404873	9.12695341	0.0006736
Spermacoceae	perennial	0.01355562	0.1393921	0.00013589	8.69078007	9.93863497	0.0004926
Thelypodieae	perennial	0.08701517	0.76067528	0.00021697	-3.8061756	-3.7637158	0.00014794
	L					200,100	

Table S5 Parameter estimates from the model averaged hOUwie fits for BIO12

Table 55 Tu	- Tullicioi	Commune	irom the m	lodel avel	agea no c	wic his for D	1012
Group.1	Group.2	rates	alpha	sigma.sq	theta	expected_mean	expected_var
Alysseae	annual	0.04737243	0.20819149	0.04821967	515.233724	520.845008	0.11931237
Antirrhineae	annual	0.03270945	0.07240906	0.05400553	410.490149	412.728464	0.37246154
Apioideae	annual	0.01655018	0.10902763	0.07480959	600.605142	615.642547	0.34309049
Arabideae	annual	10.5059625	10.0883102	5.37488864	607.404663	608.118428	0.30136072
Balsamiaceae	annual	0.01408315	0.06439439	0.02217034	970.496073	1060.84788	0.17567393
Brassiceae	annual	0.0589668	1.76016765	1.31409528	492.717113	492.584541	0.37679678
Cardamineae	annual	0.03248418	0.53738209	0.21357371	862.892542	860.464327	0.19984715
Cardueae	annual	0.07146612	0.08485246	0.02860879	556.030133	555.226047	0.17498418
CES	annual	0.10051921	0.0897381	0.08183852	318.204754	316.975313	0.67019208
Chamaecrista	annual	0.09882294	0.04823854	0.00645252	1288.22694	1285.88771	0.10203044
Croton	annual	0.0657443	0.07057981	0.19837714	1259.94596	1263.75014	0.96853921
Erysimeae	annual	0.18059134	0.33982324	0.1062191	441.109953	459.592067	0.15821803
Euclidieae	annual	0.04122487	0.10512365	0.02499272	226.192034	226.189226	0.1351553
Eumalvoideae	annual	0.05066802	0.05628234	0.18044721	634.539604	652.647046	1.30019166
Gesneriaceae	annual	0.00933779	0.00586886	0.00540275	2401.60746	1754.24081	0.31425156
Grewioideae	annual	0.02251709	0.01408937	0.01068491	722.609891	989.06991	0.33630006
Heliophileae	annual	0.03311223	0.19296797	0.08350208	243.426276	243.520266	0.24173503
Hypericum	annual	0.08401337	3.0114711	0.6776461	1216.79566	1216.86001	0.11949485
Lepidieae	annual	0.2466082	14.5832526	6.02475324	393.737997	393.860982	0.20732368
Lupinus	annual	0.0297662	0.06025797	0.05970691	562.62679	625.787037	0.40368399
Lysimachieae	annual	0.02842698	0.11347005	0.0110182	969.797239	966.581562	0.09253496
Onagraceae	annual	0.39683951	0.02167004	0.09018649	954.557296	952.29553	1.42189999
Orobanchaceae	annual	0.04945723	0.07389371	0.04647261	730.129648	706.770783	0.33064432
Panicoideae	annual	0.02474128	0.48334241	0.247008	1035.40849	1049.03123	0.25616232
Polemoniaceae	annual	0.01148871	0.01947166	0.02355574	39.6677214	143.598729	0.53311352
Pooideae	annual	0.02238177	8.59686616	2.64449224	583.224332	583.224332	0.15427025
		0.02238177	0.20251442		424.745044	473.130039	0.04871923
Primulaceae	annual			0.00363834			
Rubieae	annual	0.04086928	0.5448742	0.01326983	577.69731	611.146904	0.03277425
Salvia	annual	0.02865751	0.05890604	1.66478395	532.772536	567.133825	5.73621352
Solanaceae	annual	0.03071688	0.11665591	0.19142686	511.278857	665.148487	0.81962612
Spermacoceae	annual	0.03606006	0.05363067	0.02618234	1238.42687	1218.88448	0.24925646
Thelypodieae	annual	0.03025708	0.28845223	0.29293827	656.824222	541.813074	0.52192279
Alysseae	perennial	0.02317844	0.20819149	0.03804949	579.780784	570.514228	0.0983292
Antirrhineae	perennial	0.01227838	0.07240906	0.0632659	505.82864	458.96603	0.41929557
Apioideae	perennial	0.01301137	0.10902763	0.07482765	634.694502	634.445528	0.34315586
Arabideae	perennial	1.48285992	10.0883102	5.4521792	613.045861	613.041922	0.27675403
Balsamiaceae	perennial	0.01451376	0.06439439	0.02015306	1871.70662	1679.55734	0.15954815
Brassiceae	perennial	0.02160555	1.76016765	1.29222597	416.796016	420.584472	0.36448539
Cardamineae	perennial	0.03955619	0.53738209	0.28257672	852.276083	852.355688	0.26755142
Cardueae	perennial	0.01769078	0.08485246	0.05928923	556.051389	555.551978	0.2925052
CES	perennial	0.03118811	0.0897381	0.10409495	316.056617	316.120842	0.7323502
Chamaecrista	perennial	0.01088525	0.04823854	0.00972918	1284.65185	1284.67505	0.11594419
Croton	perennial	0.00382829	0.07057981	0.03191024	1267.62649	1267.47535	0.30310253
Erysimeae	perennial	0.02581131	0.33982324	0.10191942	490.226032	489.919729	0.15299116
Euclidieae	perennial	0.04698327	0.10512365	0.18484741	220.197295	226.330659	0.71344613
	1						
Eumalvoideae	perennial	0.01704625	0.05628234	0.05717853	673.317734	670.450098	0.58206823
Gesneriaceae	perennial	0.00225536	0.00586886	0.00597045	1704.92509	1693.48979	0.32379055
Grewioideae	perennial	0.0033909	0.01408937	0.01036084	1366.88548	1323.32213	0.32981363
Heliophileae	perennial	0.02190553	0.19296797	0.06775391	467.928166	385.223352	0.21372747
Hypericum	perennial	0.01755665	3.0114711	0.23064585	1380.56798	1380.5384	0.03965665
Lepidieae	perennial	0.22744216	14.5832526	6.02021216	398.185235	398.029268	0.20592134
Lupinus	perennial	0.08012825	0.06025797	0.09324341	4292.69077	1012.19252	0.52254639
Lysimachieae	perennial	0.02461495	0.11347005	0.03375462	963.492792	963.560334	0.16066922
Onagraceae	perennial	0.19986618	0.02167004	0.13556119	956.241676	955.842784	1.52437791
Orobanchaceae	perennial	0.04446025	0.07389371	0.0555584	606.228458	642.711882	0.38035432
Panicoideae	perennial	0.04163422	0.48334241	0.24577139	1093.43089	1092.4182	0.25484125
Polemoniaceae	perennial	0.01023562	0.01947166	0.0247927	1015.12253	356.753845	0.54782084
Pooideae	perennial	0.02824956	8.59686616	5.69766657	583.224333	583.224333	0.33126481
Primulaceae	perennial	0.00759099	0.20251442	0.11394444	740.85253	727.995877	0.27999627
Rubieae	perennial	0.04769792	0.5448742	0.17420824	746.603781	743.041502	0.15812164
Salvia	perennial	0.01275457	0.05890604	0.05316311	575.924195	575.922976	0.83698316
Solanaceae	perennial	0.01689401	0.11665591	0.19105004	729.618851	752.517491	0.81823637
Spermacoceae	perennial	0.01306143	0.05363067	0.04043872	1000.56226	1097.78395	0.3387305
Thelypodieae	perennial	0.08492402	0.28845223	0.27379223	339.642254	343.354377	0.48334722
Therypourede	perennal	3.00 172702	J.200TJ22J	J.L.IJ.IJLLJ	337.07443T	5 15.55 75 1 1	0.10337144

Table S6 Parameter estimates from the model averaged hOUwie fits for BIO14

Group.1 Group.2 rates alpha segments a thest expected mean (approximation) annual (approximation) (approximati	I ubic bol u		ı				· ·	
Antrinhinea	Group.1	Group.2	rates	alpha	sigma.sq	theta	expected_mean	expected_var
Antrinhinea	Alysseae	annual	0.04579259	0.47798098	0.48552629	9.9509342	10.0914011	0.51430865
Apriodicace annual 0.1662286 0.1450909 0.33430338 10.7888516 10.5621439 1.242724 Arabideace annual 0.197567 0.16438049 0.18847685 13.2590231 14.024651 0.91156299 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.242724 1.2427	Antirrhineae	annual	0.03415206	0.24270092		6.59550892	6.60005843	1.05972644
Babamianea manual 0.175093961 7.15860715 12.3092249 13.303918 13.4428904 0.86253322 Brassicae annual 0.0437578 0.343894 0.18484785 13.2590231 14.04561 0.9020602 Cardaminea annual 0.0375767 0.1038054 7.8533242 27.2013022 27.162925 0.770020602 Cardaminea annual 0.032016 5.1038054 7.8533242 27.2013022 27.162925 0.77007645 CES annual 0.06311925 0.11819022 0.25717259 7.33199866 8.18382079 1.08767445 CES annual 0.08460887 0.06312635 0.09218532 15.4731671 15.5129028 0.80729012 Croton annual 0.08460887 0.06312635 0.09218532 15.4731671 15.5129028 0.80729012 Erysinace annual 0.0427994 0.08521853 0.09218532 15.4731671 15.5129028 0.80729012 Erysinace annual 0.0427994 0.0882185 0.09218532 15.4731671 15.5129028 0.908729012 Erysinace annual 0.0427994 0.08874811 0.1127588 3.36190799 3.363888 0.5918168 Eumalvoidene annual 0.04172981 0.06772997 0.1564478 4.5435306 6.11844567 1.01302439 Gessentiaceae annual 0.0435966 0.02525216 0.05538588 0.0583888 0.5818168 0.07526271 1.1755498 Heliophilaea annual 0.03554603 0.03523661 0.045307 7.56826004 7.56826037 0.38233642 Hypyricum annual 0.03543603 0.03527601 0.045307 7.56826034 7.56826037 0.38233642 Lypinischiene annual 0.02749713 0.00001556 0.1518548 3.79276909 8.39814018 3.07269938 3.07276909 3.3981808 8.08029821 1.653084 1.0900000000000000000000000000000000000								
Balsamineaee								
Brassicace annual 0.05477588 0.3993062 0.6134576 8.48687684 8.47316861 0.9020602 Cardunece annual 0.032016 5.10328054 7.8532042 2.7201202 2.7152055 0.710020602 Cardunece annual 0.0631025 0.11819022 0.25717259 7.93199866 8.18382079 1.08767445 Camacerista annual 0.08640677 0.06312635 0.09218532 1.54731671 1.55129028 0.80729012 Crotom annual 0.1499827 0.1482145 0.28026217 22.3380453 21.3961722 0.99944581 Erysimeae annual 0.04179749 0.09874811 0.11275788 3.36190769 3.3638688 0.5511196 Eunlavioideae annual 0.0417981 0.072797 0.15662478 4.435306 6.11844567 1.01302769 0.05738548 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.05738584 0.057385858 0.05738584 0.05738584 0.057385858 0.05738584 0.057385858 0.05738584 0.057385858 0.05738584 0.057385858 0.05738584 0.057385858 0.05738584 0.057385858 0.057385858 0.05738584 0.057385858 0.05738584 0.057385858 0.057385858 0.057385858 0.057385858 0.05738594 0.057385858 0.057385858 0.05738594 0.057385858 0.05738594 0.057385858 0.05738594 0.057385858 0.057385858 0.05738594 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.057385858 0.05738595 0.05738588 0.05738595 0.05738588 0.05738598 0.05738595 0.05738588 0.05738598 0.05738595 0.05738588 0.05738598 0.05738598 0.05738598 0.05738598 0.05738598 0.05738598 0.05738598 0.05738598 0.05738598 0.05738598 0.05738598 0.05738589 0.05738589 0.05738589 0.05738589 0.05738589 0.05738589 0.05738589 0.0573								
Cardueae annual 0.032106 5.10328054 7.85332442 27.2031202 27.1029205 0.77100991 Cardueae annual 0.06811925 0.18189022 0.25717259 7.93199866 8.18382079 1.08767445 CES annual 0.08640887 0.06312635 0.08218532 1.543131671 1.55230208 0.08729012 Croton annual 0.14998827 0.14082145 0.28026217 22.3380433 2.13961722 0.99944581 Erysineae annual 0.1277949 0.73359044 1.34351187 9.79937017 9.73358845 0.91958202 Gesneriaceae annual 0.04172981 0.0772997 0.15664278 4.5435306 6.11844567 1.01302429 Grewinideae annual 0.017218 0.05160354 0.11907702 5.83801168 7.07559271 1.37556298 Hypercium annual 0.03554063 0.05160354 0.11907702 5.83801168 7.07659271 1.15756398 Lypinus annual 0.02749911 1.171090885 3.03581415 <	Balsamiaceae	annual						0.91156299
Carducace annual 0.06311925 0.11819022 0.25717259 7.93199866 8.18382079 1.08767445 CES annual 0.0864087 0.06312635 0.0921852 15.4731671 15.5129028 0.88738149	Brassiceae	annual	0.05477588	0.33993062	0.6134576	8.48687684	8.47316861	0.9020602
CES	Cardamineae	annual	0.032016	5.10328054	7.85332442	27.2031202	27.1629205	0.77100091
CES	Cardueae	annual	0.06311925	0.11819022	0.25717259	7.93199866	8.18382079	1.08767445
Chamacrista annual 0.08640687 0.06312635 0.0921852 15.4731671 15.5120028 0.80720012 Cotton annual 0.1498827 0.14082145 0.28020217 22.38380453 21.3061722 0.99944581 Erysimeae annual 0.12707479 0.73359004 1.34351187 9.79397017 9.73528345 0.99943681 Cotton 0.04217904 0.09874811 0.11277588 3.36190769 3.3638688 0.55111196 0.04217904 0.09874811 0.11277588 3.36190769 3.3638688 0.55111196 0.0672678 4.345306 0.1438306 0.15181002429 0.0672678 4.345306 0.1438306 0.17218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.017218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.007218 0.00721								
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Eumalvoideae annual 0.04172981 0.0772997 0.15664278 4.5435306 6.11844567 1.01302429 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526829 1.07526	Euclidieae	annual	0.04217904	0.09874811	0.11277588	3.36190769	3.3638688	0.55111196
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Hypericium		annual						
Lupinus	Heliophileae	annual	0.03554063	0.03527601	0.045307	7.56826034	7.56826037	0.38233642
Lypimus	Hypericum	annual	0.09900478	0.63522607	0.71258968	27.9872035	28.2061366	0.57292021
Lypimus			0.27649931					
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Polemoniaceae annual 0.01190267 0.08065316 0.10943205 4.04979968 4.29508993 0.68488172 Pooideae annual 0.02832787 0.18388311 0.45658066 9.69604876 9.771603307 1.24200741 Rubicae annual 0.05232785 1.17350003 2.31212842 7.79785992 8.49551689 0.97091258 Salvia annual 0.04507623 0.04112045 0.12576575 8.17490282 8.11720532 1.42247451 Solanaceae annual 0.04807623 0.04112045 0.12576575 8.17490282 8.11720532 1.42247451 Solanaceae annual 0.01689352 0.17648081 0.42858963 6.80269218 9.15145633 1.18876228 Spermacoceae annual 0.03424268 0.01405353 0.07047834 7.15587134 10.2375225 1.84542428 Thelypodicae annual 0.0343999 0.0160098 0.35180244 5.30243797 5.05586878 2.05078883 Alysseae perennial 0.02561623 0.47798098 0.49790275 12.4415605 12.3116039 0.52624369 Antirrhineae perennial 0.01363252 0.1345099 0.3340401 0.22797576 0.3230775 1.24271999 Arabideae perennial 0.01351837 0.10438049 0.340401 0.22797576 0.2320775 1.24271999 Arabideae perennial 0.013783889 5.10328054 7.85333359 2.6174041 2.61743258 0.77104292 Cardueae perennial 0.03783889 5.10328054 7.85333359 2.6174041 2.61743258 0.77104292 Cardueae perennial 0.03783889 0.01810022 0.25722806 8.61387148 8.55311593 1.08786262 CES perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamacerista perennial 0.03783867 0.73359004 1.34366493 9.5409786 9.54214389 0.9191508 Euclideae perennial 0.02732867 0.73359004 1.34366493 9.5409786 9.54214389 0.9191508 Euclideae perennial 0.00249704 0.02525216 0.05382633 3.1524281 3.15495104 1.0542478 Greenial 0.0249704 0.02525216 0.05382633 3.1524281 3.15495104 1.0542478 Greenial 0.0249704 0.02525216 0.05382633 3.1542481 3.15495104 1.0542478 Greenial 0.0249704 0.02525216 0.05838633 1.15406482 9.7938108	Panicoideae	annual	0.02188394	9.91761498	15	12.7132505	12.714649	0.75623093
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Solanaceae annual 0.01689352 0.17648081 0.42858963 6.80269218 9.15145633 1.18876228 Spermacoceae annual 0.03242268 0.01405353 0.07047834 7.15587134 10.2375225 1.84542428 Thelypodieae annual 0.0349999 0.0160098 0.35180244 3.5024379 5.05586878 2.0507888 Alysseae perennial 0.019361623 0.47798098 0.49790275 12.4415605 12.3116039 0.52624369 Antirrhineae perennial 0.01193103 0.24270092 0.5156674 6.98042699 6.88094423 1.06624138 Apioideae perennial 0.02758788 7.13680715 12.3001201 14.2696304 14.2675431 0.86222939 Balsamiaceae perennial 0.02769703 0.3393062 0.1357049 6.66054602 6.97911116 0.9024216 Cardueae perennial 0.0378389 5.10328054 7.85333359 26.174041 26.1743258 0.77104292 CES perennial 0.0409831 0.15524033 <td< td=""><td>Salvia</td><td>annual</td><td>0.04507623</td><td>0.04112045</td><td>0.12576575</td><td>8.17490282</td><td>8.11720532</td><td>1.42247451</td></td<>	Salvia	annual	0.04507623	0.04112045	0.12576575	8.17490282	8.11720532	1.42247451
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Arabideae perennial 0.27782878 7.13680715 12.3001201 14.2696304 14.2675431 0.86222939 Balsamiaceae perennial 0.01531837 0.10438049 0.18619607 27.860556 25.2679439 0.89776156 Brassiceae perennial 0.02769703 0.33993062 0.61357049 6.66054602 6.97911116 0.9024216 Cardueae perennial 0.03783889 5.10328054 7.85333359 26.174041 26.1743258 0.77104292 CES perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamacerista perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamacerista perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamacerista perennial 0.02182828 0.06312635 0.0966641 15.5105721 0.86292059 Chamacerista perennial 0.023752867 0.73359004 1.34366493 <td>Antirrhineae</td> <td>perennial</td> <td>0.01193103</td> <td>0.24270092</td> <td>0.5156674</td> <td>6.98042699</td> <td>6.88094423</td> <td>1.06624138</td>	Antirrhineae	perennial	0.01193103	0.24270092	0.5156674	6.98042699	6.88094423	1.06624138
Arabideae perennial 0.27782878 7.13680715 12.3001201 14.2696304 14.2675431 0.86222939 Balsamiaceae perennial 0.01531837 0.10438049 0.18619607 27.860556 25.2679439 0.89776156 Brassiceae perennial 0.02769703 0.33993062 0.61357049 6.66054602 6.97911116 0.9024216 Cardueae perennial 0.03783889 5.10328054 7.85333359 26.174041 26.1743258 0.77104292 CES perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamacerista perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamacerista perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamacerista perennial 0.02182828 0.06312635 0.0966641 15.5105721 0.86292059 Chamacerista perennial 0.023752867 0.73359004 1.34366493 <td>Anioideae</td> <td>nerennial</td> <td>0.01356522</td> <td>0.13450909</td> <td>0.33430401</td> <td>10.2279576</td> <td>10.2320775</td> <td>1.24271999</td>	Anioideae	nerennial	0.01356522	0.13450909	0.33430401	10.2279576	10.2320775	1.24271999
Balsamiaceae perennial 0.01531837 0.10438049 0.18619607 27.860556 25.2679439 0.89776156 Brassiceae perennial 0.02769703 0.33993062 0.61357049 6.66054602 6.97911116 0.9024216 Cardueae perennial 0.03783889 5.10328054 7.8533359 26.174041 26.1743258 0.77104292 Cardueae perennial 0.03938396 0.11819022 0.25722806 8.61387148 8.55311593 1.08786262 CES perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamaccrista perennial 0.0185283 0.06312635 0.0969641 15.5104573 15.5105721 0.86454123 Croton perennial 0.02555118 0.14082145 0.2747635 20.5121542 20.5233836 0.97835386 Erysimeae perennial 0.02579518 0.09874811 0.11686501 3.39611739 3.38736917 0.56852722 Eumalvoideae perennial 0.01216178 0.0772997								
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CES perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamaecrista perennial 0.01085283 0.06312635 0.09696641 15.5104573 15.5105721 0.86454123 Croton perennial 0.03595118 0.14082145 0.2747635 20.5121542 20.5238386 0.97835386 Erysimeae perennial 0.02732867 0.73359004 1.34366493 9.5409786 9.54214389 0.91991508 Euclidieae perennial 0.05597158 0.09874811 0.11686561 3.39611739 3.38736917 0.56852722 Eumalvoideae perennial 0.001216178 0.0772997 0.15654563 9.20691145 8.79779358 1.0123657 Gesneriaceae perennial 0.00173364 0.05160354 0.10964436 20.5083508 19.0210843 1.07327493 Heliophileae perennial 0.00173364 0.05160354 0.10964436 20.5083508 19.0210843 1.073277583 Hypericum perennial 0.01491198 0.63522607 <td>Cardamineae</td> <td>perennial</td> <td>0.03783889</td> <td>5.10328054</td> <td>7.85333359</td> <td>26.174041</td> <td>26.1743258</td> <td>0.77104292</td>	Cardamineae	perennial	0.03783889	5.10328054	7.85333359	26.174041	26.1743258	0.77104292
CES perennial 0.04409831 0.15524033 0.1951037 8.51454294 8.5419729 0.86292059 Chamaecrista perennial 0.01085283 0.06312635 0.09696641 15.5104573 15.5105721 0.86454123 Croton perennial 0.03595118 0.14082145 0.2747635 20.5121542 20.5238386 0.97835386 Erysimeae perennial 0.02732867 0.73359004 1.34366493 9.5409786 9.54214389 0.91991508 Euclidieae perennial 0.05597158 0.09874811 0.11686561 3.39611739 3.38736917 0.56852722 Eumalvoideae perennial 0.001216178 0.0772997 0.15654563 9.20691145 8.79779358 1.0123657 Gesneriaceae perennial 0.00173364 0.05160354 0.10964436 20.5083508 19.0210843 1.07327493 Heliophileae perennial 0.00173364 0.05160354 0.10964436 20.5083508 19.0210843 1.073277583 Hypericum perennial 0.01491198 0.63522607 <td>Cardueae</td> <td>perennial</td> <td>0.03938396</td> <td>0.11819022</td> <td>0.25722806</td> <td>8.61387148</td> <td>8.55311593</td> <td>1.08786262</td>	Cardueae	perennial	0.03938396	0.11819022	0.25722806	8.61387148	8.55311593	1.08786262
Chamaecrista perennial 0.01085283 0.06312635 0.09696641 15.5104573 15.5105721 0.86454123 Croton perennial 0.03595118 0.14082145 0.2747635 20.5121542 20.5238386 0.97835386 Erysimeae perennial 0.02732867 0.73359004 1.34366493 9.5409786 9.54214389 0.91991508 Euclidieae perennial 0.05597158 0.09874811 0.11686561 3.39611739 3.38736917 0.56852722 Eumalvoideae perennial 0.01216178 0.09772997 0.15654563 9.20691145 8.79779358 1.01253657 Gesneriaceae perennial 0.00249704 0.02525216 0.05382633 31.5242881 31.5495104 1.0542478 Grewioideae perennial 0.00249704 0.02525216 0.05382633 31.5242881 31.5495104 1.0542478 Grewioideae perennial 0.02194734 0.05160354 0.10964436 20.5083508 19.0210843 1.07327493 Hypericum perennial 0.01491198 0.6352								
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Eumalvoideae perennial 0.01216178 0.0772997 0.15654563 9.20691145 8.79779358 1.01253657 Gesneriaceae perennial 0.00249704 0.02525216 0.05382633 31.5242881 31.5495104 1.0542478 Grewioideae perennial 0.00173364 0.05160354 0.10964436 20.5083508 19.0210843 1.07327493 Heliophileae perennial 0.02304538 0.03527601 0.03994513 17.5842476 9.9381081 0.37277583 Hypericum perennial 0.01491198 0.63522607 0.07844782 59.463865 57.103958 0.06760869 Lepidieae perennial 0.021766085 1.71090885 2.67169604 8.43403409 8.41705845 0.78448221 Lupinus perennial 0.06808381 0.00204536 0.40852831 11.4604872 9.12873959 2.80868967 Lysimachicae perennial 0.02524198 0.37000828 0.35031334 21.3256514 21.1974096 0.47590472 Orabarchaceae perennial 0.004431145	Euclidieae	perennial	0.05597158	0.09874811	0.11686561	3.39611739	3.38736917	0.56852722
Gesneriaceae perennial 0.00249704 0.02525216 0.05382633 31.5242881 31.5495104 1.0542478 Grewioideae perennial 0.00173364 0.05160354 0.10964436 20.5083508 19.0210843 1.07327493 Heliophileae perennial 0.02304538 0.03527601 0.03994513 17.5842476 9.9381081 0.37277583 Hypericum perennial 0.01491198 0.63522607 0.07844782 59.463865 57.103958 0.06760869 Lepidieae perennial 0.021766085 1.71090885 2.67169604 8.43403409 8.41705845 0.78448221 Lupinus perennial 0.06808381 0.00204536 0.40852831 11.4604872 9.12873959 2.80868967 Lysimachicae perennial 0.02524198 0.37000828 0.35031334 21.3256514 21.1974096 0.47590472 Orobanchaceae perennial 0.00193533 2.62375144 5.16135105 24.7771196 24.7621258 0.98358232 Orobanchaceae perennial 0.04431145 <td< td=""><td>Eumalyoideae</td><td>perennial</td><td>0.01216178</td><td>0.0772997</td><td>0.15654563</td><td>9.20691145</td><td>8,79779358</td><td>1.01253657</td></td<>	Eumalyoideae	perennial	0.01216178	0.0772997	0.15654563	9.20691145	8,79779358	1.01253657
Grewioideae perennial 0.00173364 0.05160354 0.10964436 20.5083508 19.0210843 1.07327493 Heliophileae perennial 0.02304538 0.03527601 0.03994513 17.5842476 9.9381081 0.37277583 Hypericum perennial 0.01491198 0.63522607 0.07844782 59.463865 57.103958 0.06760869 Lepidieae perennial 0.21766085 1.71090885 2.67169604 8.43403409 8.41705845 0.78448221 Lupinus perennial 0.06808381 0.00204536 0.40852831 11.4604872 9.12873959 2.80868967 Lysimachieae perennial 0.02524198 0.37000828 0.35031334 21.3256514 21.1974096 0.47590472 Onagraceae perennial 0.00193533 2.62375144 5.16135105 24.7771196 24.7621258 0.98358232 Orobanchaceae perennial 0.04431145 5.90084035 12.126715 13.3227365 13.322738 1.03114656 Panicoideae perennial 0.0177076 0.0806								
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Lupinus perennial 0.06808381 0.00204536 0.40852831 11.4604872 9.12873959 2.80868967 Lysimachieae perennial 0.02524198 0.37000828 0.35031334 21.3256514 21.1974096 0.47590472 Onagraceae perennial 0.00193533 2.62375144 5.16135105 24.7771196 24.7621258 0.98358232 Orobanchaceae perennial 0.04431145 5.90084035 12.126715 13.3227365 13.322738 1.03114656 Panicoideae perennial 0.03429727 9.91761498 15 16.5899866 16.5904226 0.75623093 Polemoniaceae perennial 0.01170706 0.08065316 0.14545828 14.8172803 10.4108599 0.87436157 Pooideae perennial 0.03047146 7.97966766 15 17.0460389 17.0333096 0.93988877 Primulaceae perennial 0.01208718 0.18388311 0.45738327 9.741042 9.74052118 1.24384541 Rubieae perennial 0.04250172 1.17350003	Lepidieae	perennial	0.21766085		2.67169604	8.43403409	8.41705845	0.78448221
Lysimachieae perennial 0.02524198 0.37000828 0.35031334 21.3256514 21.1974096 0.47590472 Onagraceae perennial 0.00193533 2.62375144 5.16135105 24.7771196 24.7621258 0.98358232 Orobanchaceae perennial 0.04431145 5.90084035 12.126715 13.3227365 13.322738 1.03114656 Panicoideae perennial 0.03429727 9.91761498 15 16.5899866 16.5904226 0.75623093 Polemoniaceae perennial 0.01170706 0.08065316 0.14545828 14.8172803 10.4108599 0.87436157 Pooideae perennial 0.03047146 7.97966766 15 17.0460389 17.0333096 0.93988877 Primulaceae perennial 0.01208718 0.18388311 0.45738327 9.741042 9.74052118 1.24384541 Rubieae perennial 0.04250172 1.17350003 2.36764626 16.1437052 15.9928824 1.01511516 Salvia perennial 0.01256396 0.04112045								
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Polemoniaceae perennial 0.01170706 0.08065316 0.14545828 14.8172803 10.4108599 0.87436157 Pooideae perennial 0.03047146 7.97966766 15 17.0460389 17.0333096 0.93988877 Primulaceae perennial 0.01208718 0.18388311 0.45738327 9.741042 9.74052118 1.24384541 Rubieae perennial 0.04250172 1.17350003 2.36764626 16.1437052 15.9928824 1.01511516 Salvia perennial 0.01256396 0.04112045 0.12576802 8.08740665 8.09385121 1.42252247 Solanaceae perennial 0.01383322 0.17648081 0.36442223 18.2393939 18.0283888 1.03435575 Spermacoceae perennial 0.01776849 0.01405353 0.07153936 11.3450197 11.2982585 1.86078232	Panicoideae	perennial	0.03429727	9.91761498	15	16.5899866	16.5904226	0.75623093
Pooideae perennial 0.03047146 7.97966766 15 17.0460389 17.0333096 0.93988877 Primulaceae perennial 0.01208718 0.18388311 0.45738327 9.741042 9.74052118 1.24384541 Rubieae perennial 0.04250172 1.17350003 2.36764626 16.1437052 15.9928824 1.01511516 Salvia perennial 0.01256396 0.04112045 0.12576802 8.08740665 8.09385121 1.42252247 Solanaceae perennial 0.01383322 0.17648081 0.36442223 18.2393939 18.0283888 1.03435575 Spermacoceae perennial 0.01776849 0.01405353 0.07153936 11.3450197 11.2982585 1.86078232								
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Salvia perennial 0.01256396 0.04112045 0.12576802 8.08740665 8.09385121 1.42252247 Solanaceae perennial 0.01383322 0.17648081 0.36442223 18.2393939 18.0283888 1.03435575 Spermacoceae perennial 0.01776849 0.01405353 0.07153936 11.3450197 11.2982585 1.86078232								
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Solanaceae perennial 0.01383322 0.17648081 0.36442223 18.2393939 18.0283888 1.03435575 Spermacoceae perennial 0.01776849 0.01405353 0.07153936 11.3450197 11.2982585 1.86078232	Salvia	perennial	0.01256396	0.04112045	0.12576802	8.08740665	8.09385121	$1.4225\overline{2247}$
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Inelypodicae perenniai 0.08/0640/ 0.0160098 0.03//4245 5.0502574 5.05519723 0.60973126								
	i neiypodieae	perennial	0.08/06407	0.0160098	0.03 / /4245	5.0502574	5.05519723	0.60973126

 Table S7 Parameter estimates from the model averaged hOUwie fits for BIO15

Table 57 1 a	Tallicter	Commates	irom me m	iouci aver	aged no c	wic his for D	1013
Group.1	Group.2	rates	alpha	sigma.sq	theta	expected_mean	expected_var
Alysseae	annual	0.04378608	2.13850345	0.46763675	44.6338786	44.6038733	0.11262597
Antirrhineae	annual	0.03372723	0.22175491	0.07540967	51.1135599	51.1235697	0.16993306
Apioideae	annual	0.01412433	0.11162976	0.06055915	45.4198392	47.5607071	0.27139224
Arabideae	annual	0.65368158	8.94282157	3.42358735	45.9269541	45.9181889	0.19142823
Balsamiaceae	annual	0.01491422	0.05322773	0.01526969	63.9284512	63.2497237	0.14428678
Brassiceae	annual	0.05721943	1.24043227	0.67799626	45.5538977	45.5556989	0.27514224
Cardamineae	annual	0.02936977	0.43801139	0.17261584	35.9267652	36.0347586	0.20407219
Cardueae	annual	0.05806122	0.18148917	0.04698407	48.1409986	48.4722471	0.12952768
CES	annual	0.09189669	0.01040016	0.0134917	54.8359681	55.0637738	0.42128873
Chamaecrista	annual	0.09217477	0.00349425	0.00627452	57.6550366	48.2869124	0.1696715
Croton	annual	0.02436305	0.15985228	0.06077946	32.3514008	39.0265804	0.1832457
Erysimeae	annual	0.18234183	2.02076521	0.82082664	45.8866138	46.0451014	0.18591706
Euclidieae	annual	0.04168759	0.09995358	0.06692274	63.2240541	63.2284362	0.47444223
Eumalvoideae	annual	0.0491412	0.09137134	0.00616466	69.6805507	69.1502102	0.05506522
Gesneriaceae	annual	0.00358917	0.04584437	0.01611679	54.6190547	54.5101167	0.17579113
Grewioideae	annual	0.01976282	0.06982646	0.00766736	80.3547339	77.7308253	0.05562106
Heliophileae	annual	0.03680605	0.14277521	0.04783703	45.2762252	45.2757689	0.30145577
Hypericum	annual	0.10033518	0.21882122	0.12442934	27.6950926	27.3387598	0.27752427
Lepidieae	annual	0.24903137	2.29896517	1.06967053	47.7279663	47.5693626	0.23158558
Lupinus	annual	0.02967714	0.04093387	0.03023619	46.6765906	46.6737109	0.28734436
Lysimachieae	annual	0.03009999	0.12299691	0.00949672	61.7952608	52.1695755	0.09018851
Onagraceae	annual	0.07922162	0.23355981	0.14765297	63.1929697	63.1855445	0.31580209
Orobanchaceae	annual	0.04711804	0.37223064	0.19990937	46.5125465	46.7670322	0.268549
Panicoideae	annual	0.02090337	9.51001499	3.00651428	65.7785569	65.7257723	0.15807046
Polemoniaceae	annual	0.01127168	0.06905906	0.01742792	53.5377775	53.5221929	0.1329685
Pooideae	annual	0.02274741	7.86548183	3.74703147	46.5796933	46.4778832	0.23815354
Primulaceae		0.02274741	0.09761794	0.02988087	58.9528172	58.703151	0.20198982
	annual						
Rubieae	annual	0.07596755	0.63042086	0.22932493	49.2887668	48.8010052	0.17998085
Salvia	annual	0.02433589	0.1049853	0.00563725	65.2748799	64.351494	0.09464866
Solanaceae	annual	0.03319608	0.22093706	0.09399433	61.1618086	59.6182792	0.21087085
Spermacoceae	annual	0.03715827	0.06165751	0.0224194	67.3608595	66.9352549	0.18361977
Thelypodieae	annual	0.02845831	0.02554676	0.03513655	59.9337805	59.1609533	0.38825591
Alysseae	perennial	0.02355089	2.13850345	0.46343081	44.1298154	44.1470453	0.10804074
Antirrhineae	perennial	0.01247936	0.22175491	0.08015895	51.8470419	51.661791	0.18138313
Apioideae	perennial	0.01350335	0.11162976	0.06057906	50.3990329	50.3670744	0.2714637
Arabideae	perennial	0.14104669	8.94282157	3.42358789	45.8690971	45.8688795	0.19142835
			0.05322773				
Balsamiaceae	perennial	0.01234129		0.01631923	57.2302199	58.789703	0.15279054
Brassiceae	perennial	0.02125496	1.24043227	0.54310231	46.0897561	46.0416265	0.22025939
Cardamineae	perennial	0.03796391	0.43801139	0.23265672	36.2660851	36.2622901	0.26891698
Cardueae	perennial	0.0196643	0.18148917	0.04748735	49.9004093	49.7022049	0.13089321
CES	perennial	0.02919222	0.01040016	0.01954551	55.1218605	55.0930156	0.45449213
Chamaecrista	perennial	0.01116501	0.00349425	0.00539632	48.594263	48.57248	0.17337735
Croton	perennial	0.00498416	0.15985228	0.05019135	57.7880607	57.4827946	0.15721404
Erysimeae	perennial	0.02781484	2.02076521	0.85160484	48.0497799	48.0463584	0.21413506
Euclidieae	perennial	0.04373934	0.09995358	0.09841652	63.3699991	63.3476004	0.57480906
	1						
Eumalvoideae	perennial	0.01325843	0.09137134	0.0256599	68.352852	68.4466995	0.13614075
Gesneriaceae	perennial	0.00254688	0.04584437	0.01615284	54.3060305	54.2927852	0.176156
Grewioideae	perennial	0.00180731	0.06982646	0.01823636	55.035188	56.4576795	0.12787361
Heliophileae	perennial	0.02387937	0.14277521	0.07500505	45.1016221	45.1560854	0.34996531
Hypericum	perennial	0.01532457	0.21882122	0.04701878	25.5684266	25.9791231	0.12917329
Lepidieae	perennial	0.21589796	2.29896517	0.98079118	46.280477	46.4951824	0.21619924
Lupinus	perennial	0.07455664	0.04093387	0.11066089	44.7449689	46.6546953	0.56394118
Lysimachieae	perennial	0.02615461	0.12299691	0.04818991	44.9787417	45.138593	0.19503272
Onagraceae	perennial	0.00342103	0.23355981	0.21365964	62.8869461	62.9021519	0.47123427
Orobanchaceae	perennial	0.04214628	0.37223064	0.19945829	48.2175298	48.1151881	0.26801508
Panicoideae	perennial	0.04139276	9.51001499	3.00651428	54.542389	54.5628577	0.15807046
Polemoniaceae	perennial	0.0110541	0.06905906	0.04797808	53.2298641	53.3349363	0.30786256
Pooideae	perennial	0.03194115	7.86548183	3.74729576	39.1310502	39.1398069	0.23832517
Primulaceae	perennial	0.02759849	0.09761794	0.07577813	58.3878572	58.3986934	0.27562567
Rubieae	perennial	0.03582593	0.63042086	0.26169783	46.4002425	46.4515327	0.21011538
Salvia	perennial	0.01389107	0.1049853	0.03814369	64.0361411	64.0393556	0.18099799
Solanaceae	perennial	0.01338455	0.22093706	0.08263792	54.9069813	54.9853456	0.18712184
Spermacoceae	perennial	0.01284506	0.06165751	0.02612719	60.9882376	63.540684	0.20485035
Thelypodieae	perennial	0.08355172	0.02554676	0.03295988	58.5349776	58.6836054	0.37862128
- mory pourous	pereinnai	5.00555172	5.02557070	J.UJ2/JJ/00	20.2277110	20.0020027	0.57002120

Table S8 Parameter estimates from the model averaged hOUwie fits for AI

			· ·				
Group.1	Group.2	rates	alpha	sigma.sq	theta	expected_mean	expected_var
Alysseae	annual	0.04741912	0.38185637	0.16395818	0.38496298	0.38680036	0.21213213
Antirrhineae	annual	0.03300114	0.05592467	0.06637453	0.24546177	0.24757722	0.59739377
				0.09000746			
Apioideae	annual	0.01272887	0.08639321		0.32564161	0.4333541	0.52083635
Arabideae	annual	6.71605987	13.2761943	6.84479096	0.56077937	0.57307342	0.25928284
Balsamiaceae	annual	0.01514862	0.4447766	0.11573094	0.91051857	0.91945291	0.12988799
Brassiceae	annual	0.05482146	4.47560605	5.86102179	0.32844235	0.32841307	0.65533017
Cardamineae	annual	0.0263482	7.88857953	2.49072211	0.75645611	0.76613676	0.15832056
Cardueae	annual	0.07430414	0.12069729	0.07107648	0.40347295	0.40343534	0.3026533
CES	annual	0.1055719	0.2152754	0.17490966	0.23474495	0.235634	0.45585831
Chamaecrista		0.09298248	0.01037084	0.00544259	0.84222147	0.84571574	0.17153597
	annual						
Croton	annual	0.3487838	0.09015602	0.51193033	0.68061433	0.73109794	1.9698587
Erysimeae	annual	0.1641971	0.46829282	0.25067817	0.37996341	0.3808037	0.27214973
Euclidieae	annual	0.04172836	0.83170587	0.25643256	0.15109421	0.15160889	0.29402523
Eumalvoideae	annual	0.44474892	0.06583692	0.14033964	0.33734537	0.3591446	1.03197494
Gesneriaceae	annual	0.00282602	0.03530129	0.0039124	1.50023931	1.29835025	0.08969555
Grewioideae	annual	0.01842587	0.02340999	0.02914529	0.43346657	0.56883783	0.5637227
Heliophileae	annual	0.03480187	0.29542962	0.15327667	0.11494827	0.11498846	0.29686255
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Hypericum	annual	0.08828198	0.51092575	0.25970734	0.9175962	0.9246502	0.24900597
Lepidieae	annual	0.22317806	13.3117024	9.95676983	0.23365704	0.23396872	0.37664908
Lupinus	annual	0.03089709	0.03150713	0.08740679	0.36252961	0.40667594	0.76877484
Lysimachieae	annual	0.0446519	0.12977973	0.02745905	0.66690291	0.73395597	0.10570229
Onagraceae	annual	0.09629999	0.01888626	0.22306228	1.58921687	0.74529052	3.00112032
Orobanchaceae	annual	0.04708388	0.1313756	0.14272336	0.52534545	0.5190375	0.55209252
Panicoideae			3.39489086	2.51189256			0.36995191
	annual	0.02900031			0.57060973	0.57204269	
Polemoniaceae	annual	0.01167439	0.03120088	0.03792434	0.14400596	0.14955336	0.58897847
Pooideae	annual	0.0202752	2.3078675	1.82053275	0.38629531	0.39451518	0.39445122
Primulaceae	annual	0.03031071	0.26184249	0.15220615	0.62981548	0.64549154	0.29090594
Rubieae	annual	0.0437942	1.9529575	0.74208245	0.41998133	0.43302712	0.18989197
Salvia	annual	0.02424448	0.04983273	0.04265632	0.22757194	0.32798969	0.64320078
Solanaceae	annual	0.0212215	0.08909914	0.21344954	0.47464643	0.49185838	1.2711778
Spermacoceae	annual	0.03614699	0.03330834	0.03165154	0.66272183	0.65808407	0.46702192
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Thelypodieae	annual	0.02820513	0.08249061	0.16148059	0.27164384	0.25040851	0.95179418
Alysseae	perennial	0.0259828	0.38185637	0.19055552	0.41248532	0.41049499	0.25207993
Antirrhineae	perennial	0.01305015	0.05592467	0.09786566	0.33171154	0.27992355	0.79199162
	•	0.01339697	0.08639321	0.09000812	0.56104836	0.55853994	0.52083972
Apioideae	perennial						
Arabideae	perennial	0.94544963	13.2761943	6.85569163	0.67105727	0.67083895	0.25941705
Balsamiaceae	perennial	0.01332795	0.4447766	0.11650805	1.28510119	1.26085942	0.13349789
Brassiceae	perennial	0.01996196	4.47560605	5.85491488	0.29661768	0.29756153	0.65066565
						0.92330596	
Cardamineae	perennial	0.03674209	7.88857953	2.48887785	0.92347171		0.15719276
Cardueae	perennial	0.01594176	0.12069729	0.14179715	0.4034354	0.40343542	0.5213694
CES	perennial	0.03109798	0.2152754	0.17711983	0.23702377	0.23697127	0.45370278
Chamaecrista	perennial	0.01308412	0.01037084	0.00718498	0.84640334	0.84637807	0.18420053
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Croton	perennial	0.00520383	0.09015602	0.04584149	0.7706868	0.76631665	0.41315199
Erysimeae	perennial	0.02629642	0.46829282	0.2540812	0.3826006	0.38258291	0.27579276
Euclidieae	perennial	0.04985159	0.83170587	1.69564046	0.28977824	0.28108604	1.0628657
Eumalvoideae	perennial	0.22596614	0.06583692	0.11351424	0.36789401	0.36647704	0.88562114
Gesneriaceae	perennial	0.0024349	0.03530129	0.01030294	1.16120073	1.15773544	0.14694208
Grewioideae	perennial	0.00206782	0.02340999	0.01917063	0.84083463	0.81014619	0.41462109
Heliophileae	perennial	0.01954472	0.29542962	0.14374822	0.23146351	0.19360034	0.27538873
	perennial					0.95859674	
Hypericum		0.01477116	0.51092575	0.02165941	0.96028264		0.02420785
Lepidieae	perennial	0.18862287	13.3117024	9.94213578	0.24430586	0.24389481	0.37283729
Lupinus	perennial	0.07555048	0.03150713	0.12334068	38.3543687	0.74860672	0.90423352
Lysimachieae	perennial	0.02658251	0.12977973	0.02650575	0.8319011	0.8271431	0.10307907
Onagraceae	perennial	0.08027997	0.01888626	0.10015971	0.91257906	0.66438018	2.27520612
Orobanchaceae	perennial	0.04453919	0.1313756	0.14391632	0.49402435	0.49905313	0.56662628
Panicoideae	perennial	0.04008822	3.39489086	2.51189256	0.65593639	0.65522354	0.36995191
Polemoniaceae	perennial	0.01162336	0.03120088	0.03289652	1.29437833	0.34390264	0.54184284
Pooideae	perennial	0.02749956	2.3078675	1.82053275	0.59697062	0.59608758	0.39445122
Primulaceae	perennial	0.01024173	0.26184249	0.15969248	0.69025438	0.6894189	0.30677686
Rubieae	perennial	0.05130808	1.9529575	0.74247167	0.63864692	0.63598294	0.19018348
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Salvia	perennial	0.01331045	0.04983273	0.06354232	0.35594196	0.35594142	0.61247128
Solanaceae	perennial	0.01452606	0.08909914	0.21376596	0.51286719	0.51241156	1.19297076
Spermacoceae	perennial	0.01183425	0.03330834	0.03574066	0.59469925	0.63138227	0.49608885
Thelypodieae	perennial	0.07986193	0.08249061	0.12528938	0.22268299	0.22625942	0.81137263
incrypoutcac	pereinilai	0.07700173	0.002T/001	0.12320330	0.22200277	0.22023772	0.0113/203