

```

1 Supplementary material 1. Phylogenetic matrices used in the study (TNT readable format).
2 xread
3 'Baetodes complex Nieto 2015 +1sp'
4 80 17
5
6 Metamonius_anceps
7 1011000012100100001022211000112100?0100110?11010010001011??000000001101101000110
8 Rivudiva_minantenna
9 0000010013200030211010100211011101100013012101000100010111000?1110?0000011121111
10 Rivudiva_trichobasis
11 0020010003200030211010200211011101100013002111000100010011?002111110010010--1101
12 Cryptonympha_copiosa
13 00010100110001111101022102110111021000011111010001210011110002?????????????????
14 Cryptonympha_dasilvai
15 00???1001??0?111110002211210011101000001111110001?001?111000?????????????????
16 Lугоiops_maya
17 001101011101?000011002212200000010?1200[12]110000211??2??0100?20?????????????????
18 Mayobaetis_ellenae
19 011011111320101011000120110000001000200[12]1110102110?0000100?11?111110000011111001
20 Mayobaetis_yala
21 011011111320101011000120110000001010200[12]111010111010000100?11111110000011111101
22 Moribaetis_macaferti
23 010102011121002111000221210010000000211[01]111010111110010111?000111110000011211?01
24 Moribaetis_maculipennis
25 010102001121000100110221110000000002210[01]1110101111200101110000111110000011211001
26 Moribaetis_salvini
27 010102001121002111000221110000000001210[12]110010[12]11110010111?000111110000011211?01
28 Moribaetis_mimbresaurus
29 ??????????????????????????????????????????????????????????0111110000011211001
30 Prebaetodes_sitesi
31 011102001320001011000001120100001010200[12]1110102112100110011100?????????????????????
32 Prebaetodes_meridinensis
33 011102001320001011000001120100001010200[12]1110102112?0011001?10?111110000010--1111
34 Spiritiops_silvudus
35 00010200011001111100021111000011011110011110100011201101110000111110010011121111
36 Spiritiops_tepuiensis 00010-
37 0011100111110002111100001101111001111010001110111110002111110010011111??
38 Baetodes
39 01?101011[023]2[01]101011000[12]21[012]2[01]0000010[01]0200[23]11[01]010211130000000120111111
40 0010010??1011
41 ;
42 proc/;
43
44 -----
45 nstates cont;
46 xread
47 'Callibaetis,_Cruz_et_al_2016'
48 129 37
49 &[continuous]
50
51 Cryptonympha_copiosa 0.690 1.180 1.250 1.660 0.940 0.870 1.130 0.430 2.000 1.000
52 Paracloeodes_binodulus 0.710 1.040 1.480 2.200-2.500 1.040 0.900 1.150 0.450 1.500 0.500-0.600
53 Paracloeodes_atroari 0.700 0.980 2.200 2.000-2.300 1.080 0.960 1.000 0.350 1.500 0.500
54 Adebrotus_amazonicus 0.720 1.020 1.700 1.000 1.300 0.920 1.280 0.450 1.000 ?
55 Rivudiva_trichobasis 0.680 1.160 1.300 3.000 1.360 0.760 1.170 0.380 1.250 0.600
56 Varipes_singuil 0.730 0.940 1.500 2.110 0.700 0.850 1.090 0.370 ? 0.500

```

57 Apobaetis_hamadae 0.600 1.040 1.400 1.270 0.540 0.800 1.110 1.000 1.500 0.600
58 Waltzoyphius_fasciatus 0.630 1.060 1.760 1.870 1.750 0.950 1.290 0.370 2.250 ?
59 Callibaetis_radiatus 0.660 1.060 1.000-1.200 1.000 1.460 1.340 1.160 0.590 2.000 0.850
60 Callibaetis_sp._B 0.720 1.380 1.050 1.000 1.420 0.930 1.140 0.750 2.000 0.710
61 Callibaetis_itannae 0.660 1.320 1.080 1.000 1.350 0.900 1.070 0.760 2.000 0.470
62 Callibaetis_capixaba 0.880 1.470 1.160 1.000 1.850 0.650 1.160 0.660 2.000 0.500
63 Callibaetis_dominguezi 0.740 1.430 1.360 1.000 0.820 0.710 1.120 0.580 2.000 0.600
64 Callibaetis_fasciatus 0.760 1.310 1.330 1.000 1.250 0.810 1.170 0.600 2.000 0.800
65 Callibaetis_sellacki 0.760 1.460 1.640 1.000 1.250 0.810 1.000 0.630 2.000 1.200
66 Callibaetis_pollens 0.760 1.780 1.370 1.000 1.250 0.590 1.000 0.830 2.000 0.500
67 Callibaetis_sp._A 0.840 1.260 1.780 1.000 1.190 0.590 1.190 0.620 2.000 ?
68 Callibaetis_zonalis 0.600 1.150 1.250 1.000 2.280 0.910 1.150 0.470 2.000 0.400
69 Callibaetis_gonzalezi 0.650 1.190 1.120 1.000 2.000 0.900 0.950 0.670 2.000 0.700
70 Callibaetis_guttatus 0.670 1.130 1.300 1.000 1.830 1.180 1.100 0.570 2.000 0.440
71 Callibaetis_jocosus 0.690 1.220 1.300 1.000 1.830 0.860 1.230 0.510 2.000 0.320
72 Callibaetis_sp._D 0.700 1.180 1.450 1.000 1.750 0.810 1.280 0.410 2.000 0.540
73 Callibaetis_willineri 0.690 1.180 1.100 1.000 1.250 0.920 1.190 0.510 2.000 0.460
74 Callibaetis_cruentus 0.720 1.250 1.130 1.000 1.500 0.960 1.120 0.660 2.000 0.600
75 Callibaetis_sp._C 0.740 1.280 1.160 1.000 1.660 0.950 1.090 0.470 2.000 0.500
76 Callibaetis_calloventer 0.720 1.400 0.770 1.000 2.000 1.000 1.100 0.820 2.000 0.480
77 Callibaetis_nigracyclus 0.710 1.260 1.080 1.000 1.320 1.000 1.340 0.820 2.000 0.400
78 Callibaetis_gelidus 0.710 1.260 1.080 1.000 1.320 1.000 1.340 0.820 2.000 0.530
79 Callibaetis_floridanus 0.650 1.190 1.120 1.000 2.000 0.900 0.950 0.670 2.000 0.700
80 Callibaetis_pictus 0.640 1.100 1.570 1.000 1.720 0.850 ? 0.560 2.000 0.570
81 Callibaetis_montanus 0.640 1.100 1.570 1.000 1.720 0.850 ? 0.450 2.000 0.440
82 Callibaetis_ferrugineus ? 1.100 ? 1.000 ? ? ? 0.510 2.000 0.500
83 Callibaetis_pallidus ? 1.100 ? 1.000 ? ? ? 0.430 2.000 0.600
84 Callibaetis_pretiosus 0.720 1.140 1.050 1.000 ? ? ? 0.600 2.000 ?
85 Callibaetis_californicus ? 1.100 ? 1.000 ? ? ? 0.480 2.000 0.600
86 Callibaetis_fluctuans ? 1.100 ? 1.000 ? ? ? 0.500 2.000 1.000
87 Callibaetoides_caaigua 1.180 4.000 1.810 1.000 0.400 0.770 1.140 0.380 1.500 0.690
88
89 &[numeric]
90 Cryptonympha_copiosa 1001-23201110100012120121111011010000--0-0000200-0111040--0020-1-1300-
91 00-10110010000-01-0001000010111001----00120100000
92 Paracloeodes_binodulus 1200-132011100201111010-0-11111010010--0-1000200-0100002--112101-1300-
93 10-10110010000-10-0001011002121001----01121000000
94 Paracloeodes_atroari 1100-132011100201111010-0-11111010010--0-1000200-0100002--1120-1-1100-00-
95 10110010000-10-1001011000101001----01121000000
96 Adebrotus_amazonicus 1000-1000110-000010101110-11011010010--0-1000200-00--002--0120-1-1300-00-
97 10110010000-11-101101100-0-????----0?????00000
98 Rivudiva_trichobasis 101-31320000-0201111010-0-01001011010--1-1021220-0100052--00012001001100-
99 14012010000-10-0011011000101001----01110000000
100 Varipes_singuil
101 ??01-122011100201111310-1111011010000--1-1010210-0100052--000121-1001000-10112010000-10-
102 001101101010?001----00110000000
103 Apobaetis_hamadae
104 1200-1030000-0200100-10-0-11011010010--1-1000000-0120002--0020-1-1000-00-0---2-10000-11-
105 1001111010101001----01120000000
106 Waltzoyphius_fasciatus 1000-1010141002000-0-10-0-11111010011212-1000200-0111041--0020-1-1300-
107 01010210010100-10-0001011111111101----01020000000
108 Callibaetis_radiatus 121-32001111102100-0-110110111100001130301000100-10--1--00002101-1200-20-
109 1111110001-10110101011111120000011211000000100
110 Callibaetis_sp._B 121-33001111102100-0-110110111100001100301000100-10--1--00002101-1200-
111 2101111010001-1011010101111112?0?01121??00?000

112 Callibaetis_itannae 121-3301111102100-0-110110111100001100301000100-10--1--00002101-1200-
113 2101111010001-1011010101111120001001201020000000
114 Callibaetis_capixaba 121-23021111102100-0-1101101111010111311-1022101100--1--11002101-1200-20-
115 1121020101-10110101011110100001001211020000000
116 Callibaetis_dominguezi 121-23021111102100-0-1101101111010111311-1021101100--1--11002101-1200-
117 20-1121020001-10110101011110100001011211020000100
118 Callibaetis_fasciatus 121-33011111102100-0-1101101111010011211-1021101000--1--11002101-1200-
119 2101121020001-10110101011110100001011011000001010
120 Callibaetis_sellacki 121-33011111102100-0-1101101111010011211-1021101000--1--11002101-1200-
121 2101121020101-10110101011110100001011011020001010
122 Callibaetis_pollens 121-33021111102100-0-1101101111010111211-1021101000--1--11002101-1200-20-
123 1111020101-10110101011110100001011211020000000
124 Callibaetis_sp._A
125 121-23021111102100-0-1101101111010111311-1022101100--1--11002101-1200-20-1121020001-
126 1011010101111010?00?????1???00?????
127 Callibaetis_zonalis 121-02001111102100-0-110110111100001130301000100-10--1--00002101-1200-
128 2111111110001-1011010101111120001001211020010110
129 Callibaetis_gonzalezi 121-02001111102100-0-110110111100001130301000100-10--1--00002101-1200-20-
130 1111110101-1011010101111120000011111020000100
131 Callibaetis_guttatus 121-32001111102100-0-110110111100001130301000100-10--1--00002101-1200-20-
132 1111110001-1011010101111120001011211020000010
133 Callibaetis_jocosus 121-32011111102100-0-110110111100001130301000100-10--1--00002101-1200-
134 2111111110001-1011010101111120001011211020001110
135 Callibaetis_sp._D 121-32001111102100-0-110110111100001130301000100-10--1--00002101-1200-
136 2111111110001-1011010101111120001011211020000110
137 Callibaetis_willineri 121-32001111102100-0-110110111100001130301000100-10--1--00002101-1200-20-
138 1111110001-1011010101111120001001211020000110
139 Callibaetis_cruentus 121-32001111102100-0-110110111100001130311000100-10--1--00002101-1200-20-
140 1111110001-1011010101111120001011211020001001
141 Callibaetis_sp._C 121-33011111102100-0-110110111100001110311100100-10--1--22002101-1300-
142 0111111010001-10110101011112110011011011020010100
143 Callibaetis_calloventer 121-33051111102100-0-110110111100001110311100100-10--1--22002101-1300-00-
144 1111010001-10110101011112110011011211020001001
145 Callibaetis_nigracyclus 121-33011111102100-0-110110111100001120311100100-10--1--22002101-1300-
146 00-1111010001-10110101011112110111001211120010100
147 Callibaetis_gelidus 121-33011111102100-0-110110111100001120311100100-10--1--22002101-1300-00-
148 1111010001-10110101011112110111001201120010100
149 Callibaetis_floridanus 121-02001111102100-0-110110111100001130301000100-10--1--00002101-1200-20-
150 1111110001-1011010101111120000011211020010100
151 Callibaetis_pictus 121-32001111102100-0-110110111100001130301000100-10--1--00002101-1200-
152 2111111110001-1011010101111120001011211020010100
153 Callibaetis_montanus 121-32001111102100-0-110110111100001130301000100-10--1--00002101-1200-
154 2111111110001-1011010101111120001011211020010100
155 Callibaetis_ferrugineus 121-020?1111102100-0-110110111100001130301000100-10--1--00002101-1200-
156 2111111110001-1011010101111120001011211020000100
157 Callibaetis_pallidus 121-020?1111102100-0-110110111100001130301000100-10--1--00002101-1200-
158 2111111110001-1011010101111120001011211120010100
159 Callibaetis_pretiosus 121-320?1111102100-0-110110111100001130301000100-10--1--00002101-1200-
160 2111111110001-1011010101111120001001211020000110
161 Callibaetis_californicus 121-020?1111102100-0-110110111100001130301000100-10--1--00002101-1200-
162 2111111110001-1011010101111120001011211020000100
163 Callibaetis_fluctuans 121-020?1111102100-0-110110111100001130301000100-10--1--00002101-1200-
164 2111111110001-1011010101111120000011211020000100
165 Callibaetoides_caigua 121-23041111102000-0-1101101110-1011111301122100-00-021--012111-1100-00-
166 1121020001000100101000110111001101301120000000
167 ;

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168 ccode [-.;
169 proc/;
170
171 -----
172
173 xread
174 'Allenhyphes-Traverhyphes group Molineri2004+2spp'
175 39 23
176 L_cornutus 0000000000100000000001000000000020010
177 L_eximius 1000010000010000000000100000000020010
178 A_flinti 11201101001200010101010111111010112100
179 A_vescus 11201101001200010101010111111010112100
180 A_spinosus ??????????????????????100111101010?100
181 A_asperulus ??????????????????????100111101010?100
182 Y_yapa 11101101101200010110000????????????????
183 Y_yuta 111011011012000101100000011111010113100
184 Y_mota 111011011012000101100000011111010113100
185 Y_ralla ??????????????????????0011111010113100
186 Lu_pijcha 01101001000112110100100100111110111101
187 Lu_guacra 01101011110110110100301100111110102101
188 Lu_Mexico 0110101111011011010030????????????????
189 Lu_yagua 01101011110110110100301100111110102101
190 T(T)_indicator 1111111010011000100200111111011101201
191 T(T)_pirai 1111111010111000100200????????????????
192 T(T)_chiquitano 1111111010111000100200111111011101201
193 T(M)_yuati 11101111101110111003001011111011102201
194 T(M)_edmundsi 1110111110111011100300111111011102201
195 T(B)_nanus 11101211100011010100100111111010113101
196 T(B)_yuqui 11101211100011010100100????????????????
197 Lu_cocal 1110101111011011010030????????????????
198 T(T)_frevo 1111111010111000100200????????????????
199 ;
200 proc/;
201
202 -----
203
204 xread
205 'Farrodes-Dominguez&Zuñiga2009'
206 27 23
207 Ecuaphlebia 0000100001000000?0000000000
208 Homothraulus 101001020100102101101001100
209 Simothraulopsis 100002020100211221110111100
210 F_roundsi 412111020010211210000001221
211 F_caribbeanus 202112211020211230000010221
212 F_maya 3021120210312112????????????
213 F_mexicanus 3021100200312101????????????
214 F_savagei 302112020030211210000111211
215 F_bimaculatus 302112021042200210000?0?2?2
216 F_grenadae 302111021030200110000?01211
217 F_hyalinus 302112021040200210000?01211
218 F_iguazuanus 30211202104220013????????????
219 F_maculatus 3021110210422001????????????
220 F_texanus 302111021042200110000001211
221 F_yungaensis 302112021042200130001001211
222 F_flavipennis 3021121210402001????????????
223 F_tulija 3021121210402101????????????

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224 F_carioca 302112021042210130001?0??11
225 F_ochraceous 3021110210422101??????????
226 F_longispinus 3021110210422101??????????
227 F_pakitza 3021110210422101??????????
228 F_xingu 30211102104221013??????????
229 F_tepui 30211102104221013??????????
230 ;
231 proc/;
232
233 -----
234
235 xread
236 'Simothraulopsis Nascimento et al 2017'
237 48 14
238 Massartella 00000000--100002000-000000100-00000-000011000000
239 Perissophlebioides 1112001-----0021113000101100-00111011-00-000202
240 Poranga 11020001110002021111000120000-00111--00010000202
241 Farrodes 11120101010002001210031020100-000000100011000202
242 Homothraulus 11210101000001010111000101100-00000011-010000201
243 S_demerara 11110001000111101112000121101000000021-011100211
244 S_plesius 102110011001111212100100011110110001101111000111
245 S_sabalo 11110001000111100111000121101000000021-011000211
246 S_diamantinensis 10210001110111110110000201101100000011-011111211
247 S_janae 112100010001111001131000100010000000100011100211
248 S_caliginosus 102111012001111212110100011110010001101111100111
249 S_dominguezi 112100010001111001130000100010000000100011100111
250 S_eurybasis 11210001100111110110000201101100000011-011111211
251 S_inaequalis 10210101100111120212020001110-110001100011000111
252 ;
253 proc/;
254
255 -----
256
257 xread
258 'Oligoneuria Salles et al 2013'
259 57 11
260 Homoeoneuria 21?1??1111?00??02?11?11001??1?011?101?11?0021001?200111?
261 O_amandae 101011010001011110110000110010000011100101101001000002000
262 O_amazonica 1011??1110000101101100001101?0000001100100001001000000000
263 O_anomala ?0101100?????????????00?????????????????????????????0????
264 O_itayana 0011??111000010?10?100000?0??0000??11?????00100100?00?001
265 O_macabaiba 1011??1100001???11000000?0?????????????????????????0????
266 O_mitra 001011011000010010010000110000200001100000101001001002000
267 O_truncata 10101101001000?00110000110010100010101101101010010001001
268 Lachlania 2020000100001??021100111101?10001?110011?10001101011?000
269 Fittkauneuria 1010020001??00??02?101??1001?13111?111?11?01?1011?2000000
270 Spaniophlebia 10000201100000??101101?????????????????????0?????1????
271 ;
272 proc/;
273
274 -----
275
276 nstates cont ;
277 xread
278 'Campsurus Molineri & Salles 2013 +amapaensis♀&egg'
279 20 13

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280 &[continuous]
281 violaceus 10.300-12.000 3.000 0.384 0.895 ? ? 0.165-0.176
282 truncatus 12.250-12.490 1.930-2.057 0.594 0.667 ? ? 0.162-0.175
283 segnis 7.000 3.100 0.563 0.963 0.746 ? 0.163-0.165
284 evanidus 10.000-12.500 1.124-1.199 0.438 0.930 0.572 ? 0.150-0.155
285 vulturorum 15.900-20.500 1.462-1.484 0.490-0.499 0.957 0.711-0.736 ? 0.153-0.158
286 major 12.000-14.200 0.491-0.553 ? ? 0.853 ? 0.150-0.153
287 argentinus 9.500-10.300 0.792 ? ? 0.840 ? 0.140-0.145
288 amapaensis 9.000-9.800 1.120-1.367 0.329 0.765-0.824 0.857-0.872 ? 0.150-0.158
289 albifilum 10.200-14.000 0.840-1.667 0.342-0.625 0.570-0.836 0.685-0.874 0.402-0.605 0.120-0.150
290 yavari 9.200-9.500 2.102-2.115 0.715-0.764 0.685-0.691 0.736-0.753 0.429-0.458 0.135-0.142
291 fuliginatus 10.100-13.500 1.000-1.400 0.453-0.670 0.566-0.862 0.543-0.702 0.366-0.605 0.130-0.143
292 homaulos 6.200-9.000 0.645-0.830 0.312-0.379 0.766-0.828 0.760-0.840 0.320-0.360 0.145-0.160
293 gracilipenis 7.200-8.900 0.591-0.750 0.255-0.321 0.804-0.952 0.750-0.805 0.250-0.282 0.154-0.160
294 &[numeric]
295 violaceus 0000000000001
296 truncatus 0000000000001
297 segnis 3010011000001
298 evanidus 40110110?0101
299 vulturorum 00110110?0101
300 major 2000121000020
301 argentinus 2000121000020
302 amapaensis 2300121000010
303 albifilum 0100121111102
304 yavari 0100131111102
305 fuliginatus 0300121111102
306 homaulos 1200121101102
307 gracilipenis 1200121101102
308 ;
309 cc - 7.11 13.17;
310 cc + 0.6 12 18.19;
311 proc/;
312
313 -----
314
315 xread
316 'Tortopus-Tortopsis Molineri 2010 +2spp'
317 27 23
318 Ephoron 000000--000000002-02-0-0001
319 Asthenopus 10000120003200002-1200-0002
320 C_segnis 21001120020212112-220200011
321 C_latipennis 21001120020212112-220200011
322 C_albifilum 21001120023210112-2200-0011
323 C_violaceus 21001120023211112-1200-0011
324 T_igaranus 21111210112113111-113201110
325 T_bellus 21111210112113111-112101110
326 T_arenales 21111210112003111-113201110
327 T_bruchianus 21112201011?????-??????10
328 T_sarae 211122010111131100101321010
329 T_obsc 211122010111131100102321010
330 T_unguic 211122010111131101101331010
331 T_limoncocha 211122010111131100101311010
332 T_harrisi 21111210112113111-113101110
333 T_parishi 21??????1?113110?101???0--
334 T_puella 211122010111131100102321010
335 T_circumfluus 21111210112?????-??????10

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336 T_primus 211122010111131100101321010
337 T_zottai 21??????12113111-1132011--
338 T_spatula 211122010111131101101321010
339 T_ipixuna 21-----12113111-1131011--
340 T_canum 211122010111131100101321010
341 ;
342 proc /;
343
344 -----
345
346 nstates cont ;
347 xread
348 'Asthenopodinae Molineri et al 2015'
349 72 17
350
351 &[continuous]
352 Ephoron 1.211 0.400 0.932-1.081 1.008-1.123 1.857-1.912 1.846-2.167 16.000 4.188 3.000 0.650 0.250
353 1.273 5.455 11.667 ? ? ? ? 0.778-0.992 1.322-1.551 0.727-1.625 2.000-5.000 ? 1.625 ? ? 4.145
354 Camp_violaceus 1.765 0.357-0.360 1.758-2.179 0.371-0.436 2.082-2.273 2.236-2.346 2.000-6.000 1.000-
355 1.667 1.000-3.000 1.580-1.830 0.205-0.261 1.333-1.440 ? 19.000-23.000 2.308-2.552 2.727-2.846 1.304-
356 1.500 2.600 1.118-1.410 0.287-0.375 1.091-1.300 2.625-3.333 3.000-4.000 ? 1.712 1.542 1.148-1.443 3.688
357 Povilla 1.571-2.000 0.645-0.755 1.661-1.736 0.316 1.831-2.214 2.095-2.447 1.000-15.000 0.467-0.700
358 1.000-2.000 1.324-1.801 0.100-0.235 3.333-3.928 3.375-5.429 4.333-7.428 4.400-6.800 4.667-6.800 4.300-
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421 proc /;
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423 Supplementary material 2. Geographical records for all the studied taxa (Scientific name,
424 Longitude, Latitude). Each group of coordinates begins with matrix name in Supl. mat. 1.
425

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'Farrodes-Dominguez&Zuñiga2009'
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'Simothraulopsis Nascimento et al 2017'

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Massartella -60.93207 5.05312
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S_demerara -61.67972 5.63556
S_demerara -61.57778 5.10806
S_demerara -61.54417 5.68028
S_demerara -61.4975 5.17472
S_demerara -61.40167 5.74694
S_demerara -61.36306 5.62
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S_janae -35.40614 -8.44281
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S_caliginosus -52.48888889 -14.81722222
S_caliginosus -43.6125 -19.004
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S_dominguezi -64.77330556 0.482916667
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S_eurybasis -40.51247222 -18.66427778
S_inaequalis -54.90916667 -2.534583333
S_inaequalis -54.83213889 -2.491666667
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S_inaequalis -59.89027778 -2.993388889
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S_inaequalis -54.98183333 -2.63

'Oligoneuria Salles et al 2013'

O_amandae -40.59325 -19.04808
O_amandae -40.24058 -19.12586
O_amazonica -64.93333333 -9.65
O_amazonica -64.35 -9.516666667
O_amazonica -64.33333333 -9.433333333
O_amazonica -61.13333333 3.016666667
O_amazonica -61 1.916666667
O_amazonica -59.9 3.35
O_amazonica -59.35 -15.2
O_amazonica -52.35944444 -14.8425
O_amazonica -52.23111111 -15.65972222
O_amazonica -52.21472222 -15.64805556
O_amazonica -52.20277778 -15.52055556
O_amazonica -49.6 -3.2
O_amazonica -47.26666667 -7.05
O_amazonica -47.2 -7.4
O_itayana -73.2722 -4.1322
O_macabaiba -41.88 -22.29525
O_macabaiba -41.873 -22.27714
O_macabaiba -41.80167 -22.26375

O_mitra -63.4897 0.80008
O_mitra -63.45893 0.57079
O_mitra -63.3908 0.6331
O_truncata -63.58602 0.55677
O_truncata -63.3881 0.40941
O_truncata -62.90556 0.42464
Fittkauneuria -61.41778 5.82083
Fittkauneuria -61.36306 5.62
Fittkauneuria -61.1458 4.4308
Fittkauneuria -66 0.816666667
Fittkauneuria -65.95 0.966666667
Fittkauneuria -65.83333333 0.866666667
Fittkauneuria -65.2 1.55
Homoeoneuria -62.68333 -1.1
Homoeoneuria -39.63333 -18.05
Homoeoneuria -65.35944444 -27.17972222
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Homoeoneuria -42.55272 -19.58354
Lachlania -42.6 -22.4
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Lachlania -65.26666667 -27.52138889
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Lachlania -71.54 -16.39917
Lachlania -77.25 1.2
Lachlania -78.62 -0.61
Lachlania -75.76 -9.07
Lachlania -42.6 -22.4
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Lachlania -66.30468 -26.67071
Lachlania -66.30015 -26.92611
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Lachlania -66.26529 -26.98564
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Spaniophlebia -52.4 -14.6
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Spaniophlebia -66.1 -2.5
Spaniophlebia -63.9 -8.76
Spaniophlebia -58.1 -32.31667
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Spaniophlebia -47.765278 -21.6175
Lachlania -41.1506 -20.1431
Lachlania -40.8744 -19.0507
Lachlania -41.3317 -20.0872

'Campsurus Molineri & Salles 2013

+amapaensis♀&egg'
albifilum -70.25583 -3.80778

albifilum -67.43333 8.78333
albifilum -60.82906 -3.57995
albifilum -53.81879 -22.31058
albifilum -53.29361 -22.72
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argentinus -58.11722 -33.39222
argentinus -57.9 -31.16667
argentinus -57.78333 -30.71667
argentinus -57.51667 -30.96667
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argentinus -55.56167 -31.53994
argentinus -55.46611 -31.57667
argentinus -55.40008 -27.6925
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argentinus -55.21917 -31.80778
argentinus -54.45956 -32.92425
argentinus -54.16944 -25.85806
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evanidus -55.61861 -33.34472
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segnis -61.40166667 5.746944444
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segnis -52.92889 4.62056
segnis -47.623 -1.127
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vulturorum -39.18333 -14.81667
yavari -70.29694 -4.28611
violaceus -59.180299 -3.560468

'Tortopus-Tortopsis Molineri 2010 +2spp'

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T_arenales -78.90917 0.69333
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T_bruchianus -64.43333 -31.65
T_canum -42.30167 -22.43042
T_canum -41.88 -22.29525
T_canum -39.99333333 -18.65472222
T_circumfluus -97.58333333 27.43333333
T_harrisi -71.86861 -7.36278
T_harrisi -57.65625 -18.99444
T_harrisi -56.33333 -23.9
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T_harrisi -53.29361 -22.72
T_harrisi -39.86806 -18.69528
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T_igaranus -71.77611 -2.17556
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T_igaranus -65.17972 -2.1875
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T_limoncocha -76.62778 -0.4
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T_parishi -79.83167 -2.17222
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T_primus -97.2141 38.9174
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T_primus -90.95701 40.93725
T_primus -90.197 38.895
T_primus -90.08669 40.25673
T_primus -89.49778 37.62639
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T_primus -89.01345 40.49156
T_primus -88.96666667 40.6

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T_primus -88.237 40.112
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T_primus -88.13488 37.69392
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T_puella -91.91666667 30.16666667
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T_puella -89.071 29.188
T_puella -87.16666667 33.3
T_puella -84.584 30.855
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T_spatula -70.25583 -3.80778
T_spatula -69.98361 -4.09472
T_spatula -69.95694 -4.125
T_unguic -73.2 3.76
T_zottai -58.5324 -34.43999
Ephoron 0.7 44.36666667
Ephoron -4.21666667 39.31666667
Ephoron 2.11666667 46.18333333
Ephoron 13.45 41.9
Ephoron 9.95 51.55
Ephoron 23.93333333 42.88333333
Ephoron 24.71666667 56
Ephoron 42.03333333 45.3
Ephoron 57.43333333 52.81666667
Ephoron 36.45 67.23333333
Ephoron 26.85 56.86666667
Ephoron 27.9 52.76666667
Ephoron 56.53333333 66.83333333
Ephoron 44.88333333 52.41666667
Ephoron 136.25 35.23333333
Ephoron 139.9 35.76666667
Ephoron 136.25 35.23333333
Ephoron 139.9 35.76666667
Ephoron 128.3666667 36.65
Ephoron 132.75 44.51666667
Ephoron 140.8666667 38.21666667
Ephoron 130.6666667 32.66666667

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Ephoron -116.5833333 39.4
Ephoron -111.8333333 39.5166667
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Ephoron -108.7666667 47.0833333
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Ephoron -98.4 38.0666667
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Ephoron -94.3 45.9333333
Ephoron -93.3166667 41.8
Ephoron -89.6166667 45.9333333
Ephoron -88.1833333 43.8666667
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Ephoron -87.0833333 32.6666667
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Ephoron -81.2833333 44.35
Ephoron -82.6833333 41.3166667
Ephoron -85.8166667 35.8666667
Ephoron -89.1833333 32.9666667
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Ephoron -80.6833333 33.5166667
Ephoron -79.7833333 35.6666667
Ephoron -78.2 37.1666667
Ephoron -71.4166667 45.9166667
Ephoron 23.8666667 -29.5
Ephoron 29.4266667 -30.5538889
Ephoron 40 -9.0833333
Ephoron 25.2052778 -29.4641667
Ephoron 30.6666667 -29.3333333
Ephoron 13.0394444 -5.8611111
Asthenopus -69.92869 -4.12
Asthenopus -68.97943 -3.46806
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