
Supplementary material

Colouration, chaetotaxy and molecular data provide species-level resolution in a species complex of *Dicranocentrus* (Collembola : Entomobryidae)

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Table S1. Sequencing primers and fragment length. Primers LR-J-12887M and LR-N-13398M were modified from Zhang *et al.* (2014) and used to amplify the common fragment

Gene	Primers	Sequence (5'–3')	Length (bp)	References
COI	LCO1490	GGTCAACAAATCATAAAGATATTGG	658	Folmer <i>et al.</i> (1994)
	HC02198	TAAACTTCAGGGTGACCAAAAAATCA		Folmer <i>et al.</i> (1994)
16S	LR-J-12887M	CCGGTCTGAACTCAAATCATGT	494	Simon <i>et al.</i> (1994)
	LR-N-13398M	C GACTGTTTAACAAAAACAT		Simon <i>et al.</i> (1994)
28S D1-D2	C1'	ACCCGCTGAATTTAAGCAT	788–789	D'Haese (2002)
	D2	TCCGTGTTTCAAGACGGG		D'Haese (2002)

References

- D'Haese, C. A. (2002). Were the first springtails semi-aquatic? A phylogenetic approach by means of 28S rDNA and optimization alignment. *Proceedings of the Royal Society B: Biological Science* **269**, 1143–1151.
- Folmer, O., Black, M., Hoeh, W., Lutz, R., and Vrijenhoek, R. C. (1994). DNA primers for amplification of mitochondrial cytochrome c oxidase subunit I from diverse metazoan invertebrates. *Molecular Marine Biology and Biotechnology* **3**, 294–299.
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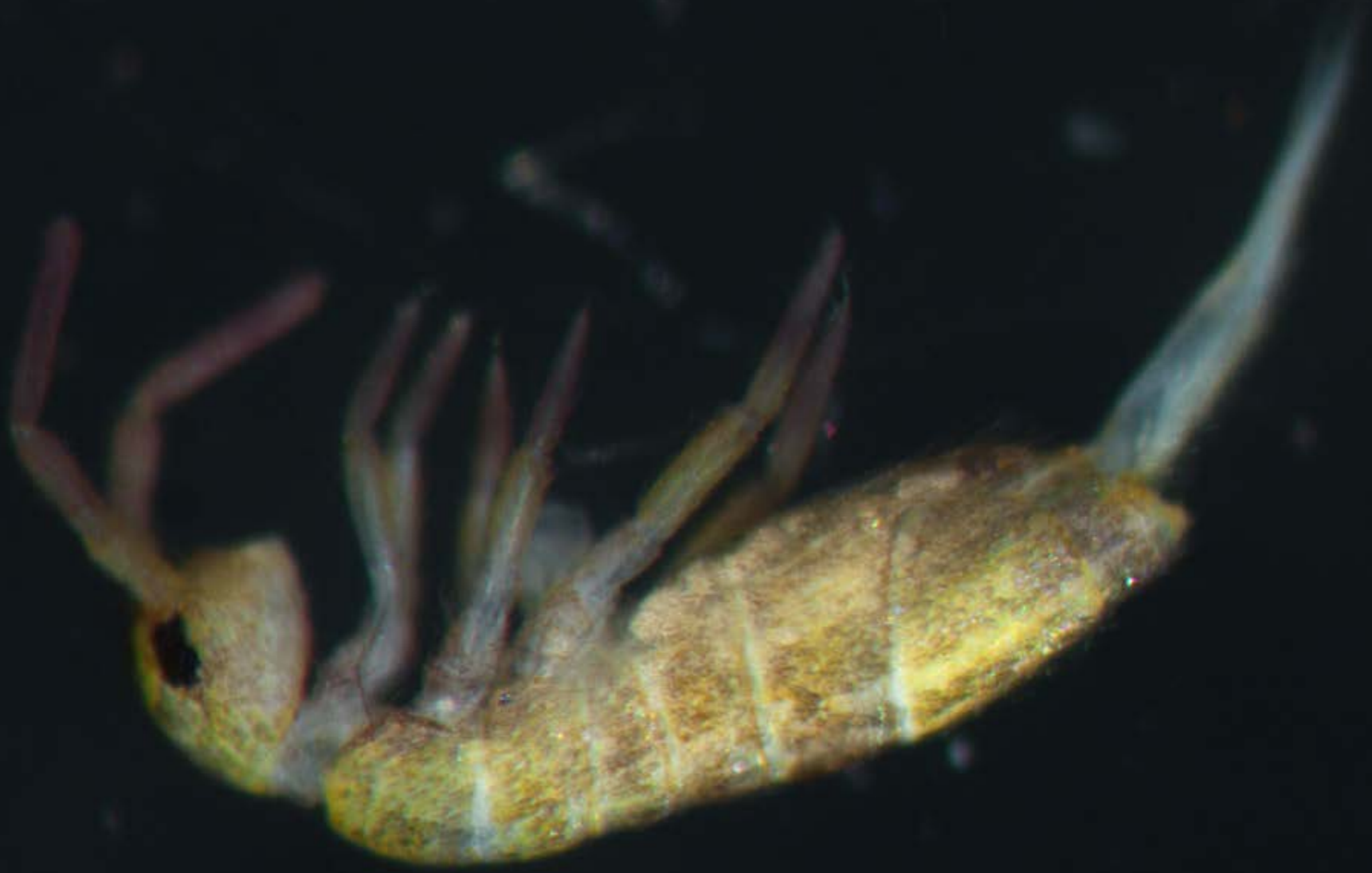
Table S2. Species names, sequenced terminals and GenBank accession numbers. All are newly sequenced in this study

Species	Individuals	16S	28S	COI
<i>Dicranocentrus similis zhangi</i>	16YN16_1_1_sp2	MG807223	MG807253	MG807178
	16YN16_1_2_sp2	MG807224	MG807254	MG807179
	16YN16_1_3_sp2	MG807225	MG807255	MG807180
	16YN16_1_4_sp2	MG807226	MG807256	MG807181
	16YN16_1_5_sp2	MG807227	MG807257	MG807182
	16YN16_1_6_sp2	MG807228	MG807258	MG807183
<i>Dicranocentrus similis similis</i>	16YN7_2_1_sp6	MG807217	MG807247	MG807195
	16YN7_2_2_sp6	MG807218	MG807248	MG807196
	16YN7_2_3_sp6	MG807219	MG807249	MG807197
	16YN7_2_4_sp6	MG807220	MG807250	MG807198
	16YN7_2_5_sp6	MG807221	MG807251	MG807199
	16YN7_2_6_sp6	MG807222	MG807252	MG807200
<i>Dicranocentrus pallidus</i>	16YN7_1_1_sp1	MG807213	MG807243	MG807174
	16YN7_1_2_sp1	MG807214	MG807244	MG807175
	16YN7_1_3_sp1	MG807215	MG807245	MG807176
	16YN7_1_5_sp1	MG807216	MG807246	MG807177
<i>Dicranocentrus gaoligongensis</i>	16YN17_1_1_sp3	MG807229	MG807259	MG807184
	16YN17_1_2_sp3	MG807230	MG807260	MG807185
	16YN17_1_3_sp3	MG807231	MG807261	MG807186
	16YN17_1_4_sp3	MG807232	MG807262	MG807187
	16YN17_1_5_sp3	MG807233	MG807263	MG807188
<i>Dicranocentrus varicolor</i>	16YN4_1_1_sp4	MG807204	MG807234	MG807189
	16YN5_1_1_sp5	MG807205	MG807235	MG807190
	16YN5_1_2_sp5	MG807206	MG807236	MG807191
	16YN5_1_3_sp5	MG807207	MG807237	MG807192
	16YN5_1_4_sp5	MG807208	MG807238	MG807193
	16YN5_1_5_sp5	MG807209	MG807239	MG807194
	16YN5_2_1_sp7	MG807210	MG807240	MG807201
	16YN5_2_2_sp7	MG807211	MG807241	MG807202
16YN5_2_3_sp7	MG807212	MG807242	MG807203	

Table S3. Genetic K2P distances within and between species/subspecies

locus	group	distances within groups	mean distances within groupns	mean distances between groups				
				<i>D. similis zhangii</i>	<i>D. similis similis</i>	<i>D. gaoligongensis</i>	<i>D. varicolor</i>	<i>D. pallidus</i>
COI	<i>D. similis zhangii</i>	0.000-0.003	0.001319748					
	<i>D. similis similis</i>	0.000-0.008	0.003360386	0.031				
	<i>D. gaoligongensis</i>	0	0	0.143	0.148			
	<i>D. varicolor</i>	0.000-0.003	0.000677509	0.152	0.147	0.147		
	<i>D. pallidus</i>	0.000-0.031	0.02087391	0.132	0.133	0.160	0.168	
16S	<i>D. similis zhangii</i>	0.000-0.004	0.001					
	<i>D. similis similis</i>	0.000-0.004	0.002	0.006				
	<i>D. gaoligongensis</i>	0	0.000	0.044	0.040			
	<i>D. varicolor</i>	0.000-0.002	0.000	0.066	0.064	0.068		
	<i>D. pallidus</i>	0.000-0.019	0.013	0.086	0.080	0.078	0.095	
28S	<i>D. similis zhangii</i>	0	0.000					
	<i>D. similis similis</i>	0	0.000	0.000				
	<i>D. gaoligongensis</i>	0	0.000	0.000	0.000			
	<i>D. varicolor</i>	0	0.000	0.008	0.008	0.008		
	<i>D. pallidus</i>	0	0.000	0.008	0.008	0.008	0.008	

Fig. S1. Coloration for each sequenced individual in this study.



16YN16_1_1_sp2_Dicranocentrus similis zhangii



16YN16_1_2_sp2_Dicranocentrus similis zhangi



16YN16_1_3_sp2_Dicranocentrus similis zhangi



16YN16_1_4_sp2_Dicranocentrus similis zhangi



16YN16_1_5_sp2_Dicranocentrus similis zhangi



16YN16_1_6_sp2_Dicranocentrus similis zhangi



16YN17_1_1_sp3_Dicranocentrus gaoligongensis



16YN17_1_2_sp3_Dicranocentrus gaoligongensis



16YN17_1_3_sp3_Dicranocentrus gaoligongensis



16YN17_1_4_sp3_Dicranocentrus gaoligongensis



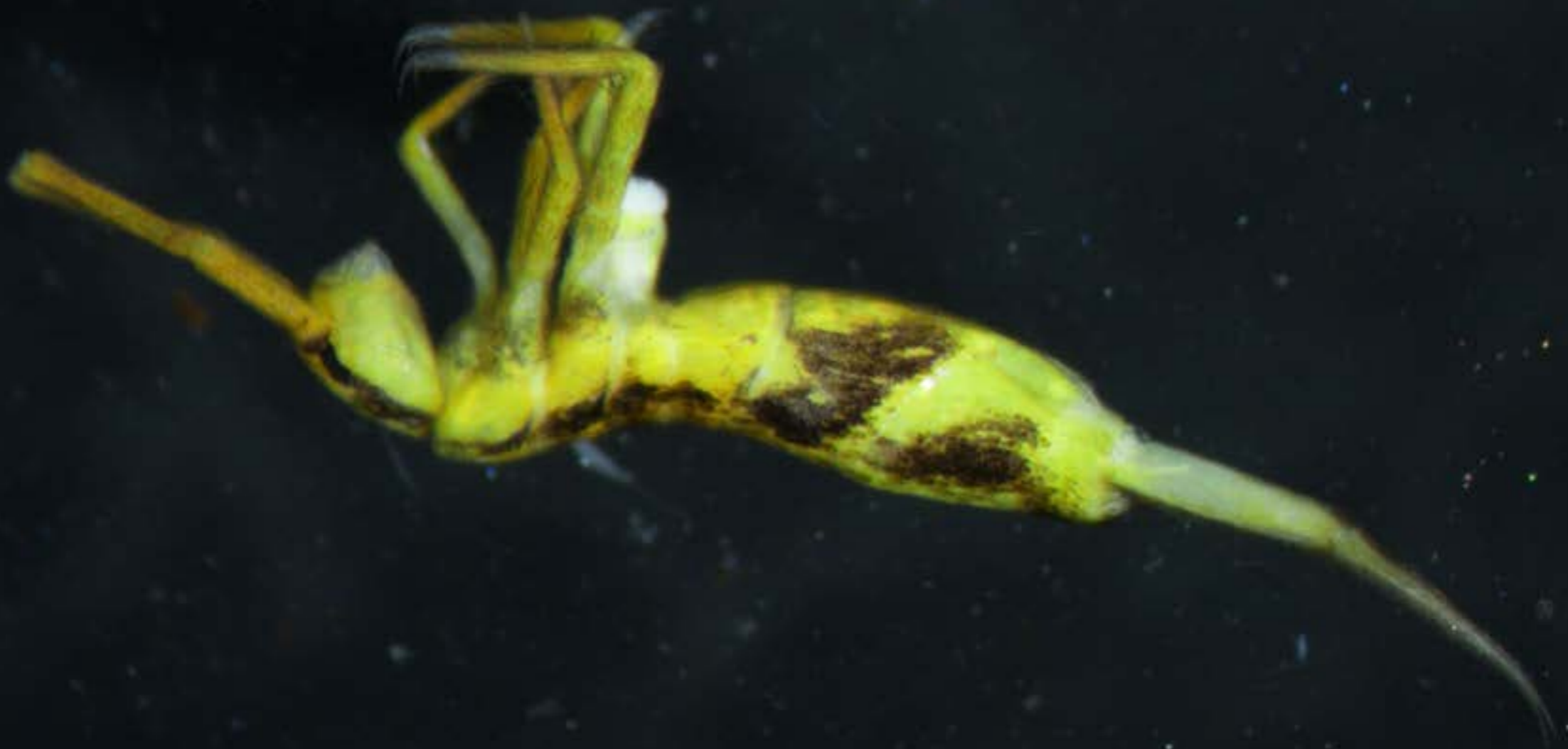
16YN17_1_5_sp3_Dicranocentrus gaoligongensis



16YN4_1_1_sp4_Dicranocentrus varicolor



16YN5_1_1_sp5_Dicranocentrus varicolor



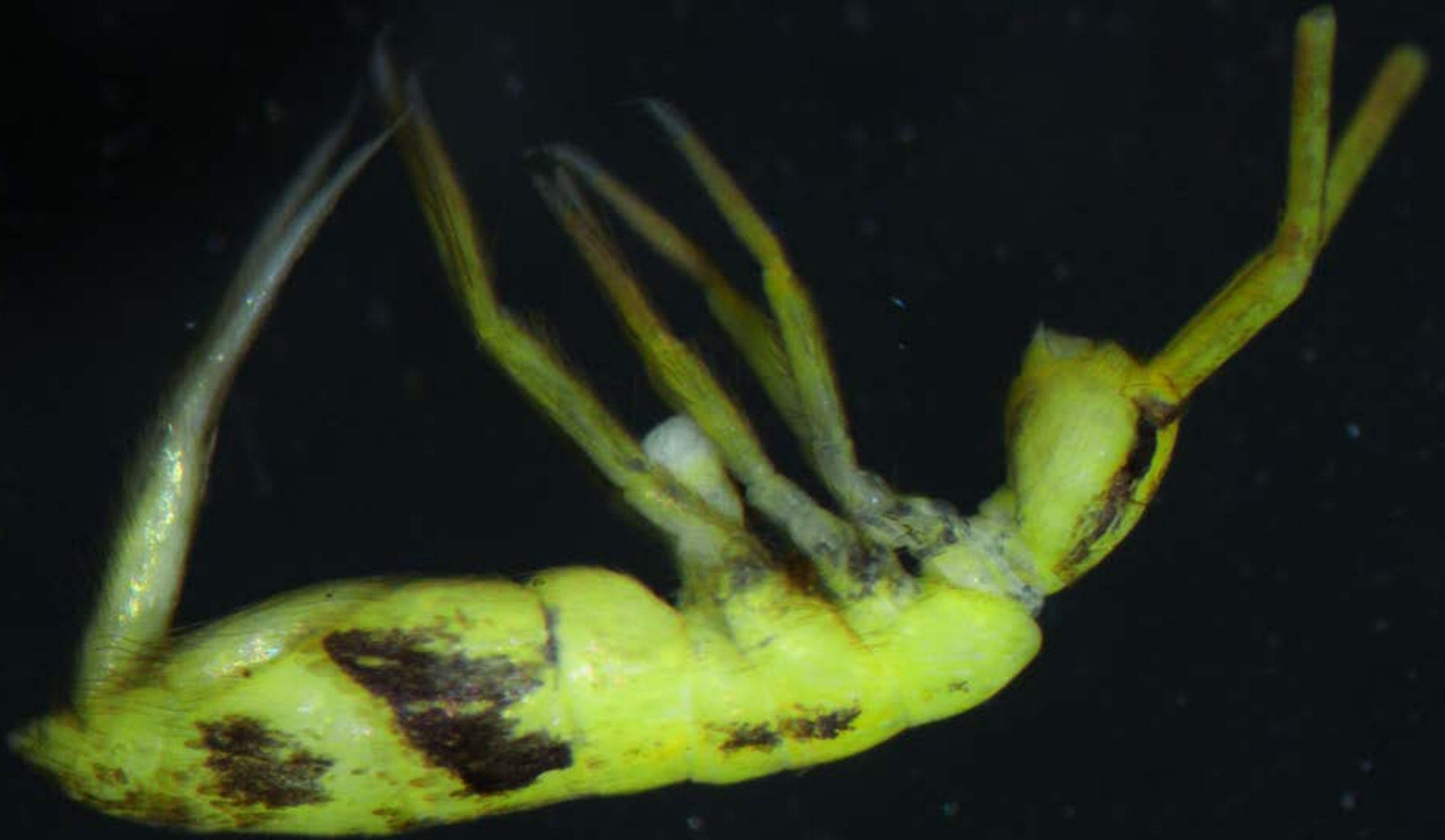
16YN5_1_2_sp5_Dicranocentrus varicolor



16YN5_1_3_sp5_Dicranocentrus varicolor



16YN5_1_4_sp5_Dicranocentrus varicolor



16YN5_1_5_sp5_Dicranocentrus varicolor



16YN5_2_1_sp7_Dicranocentrus varicolor



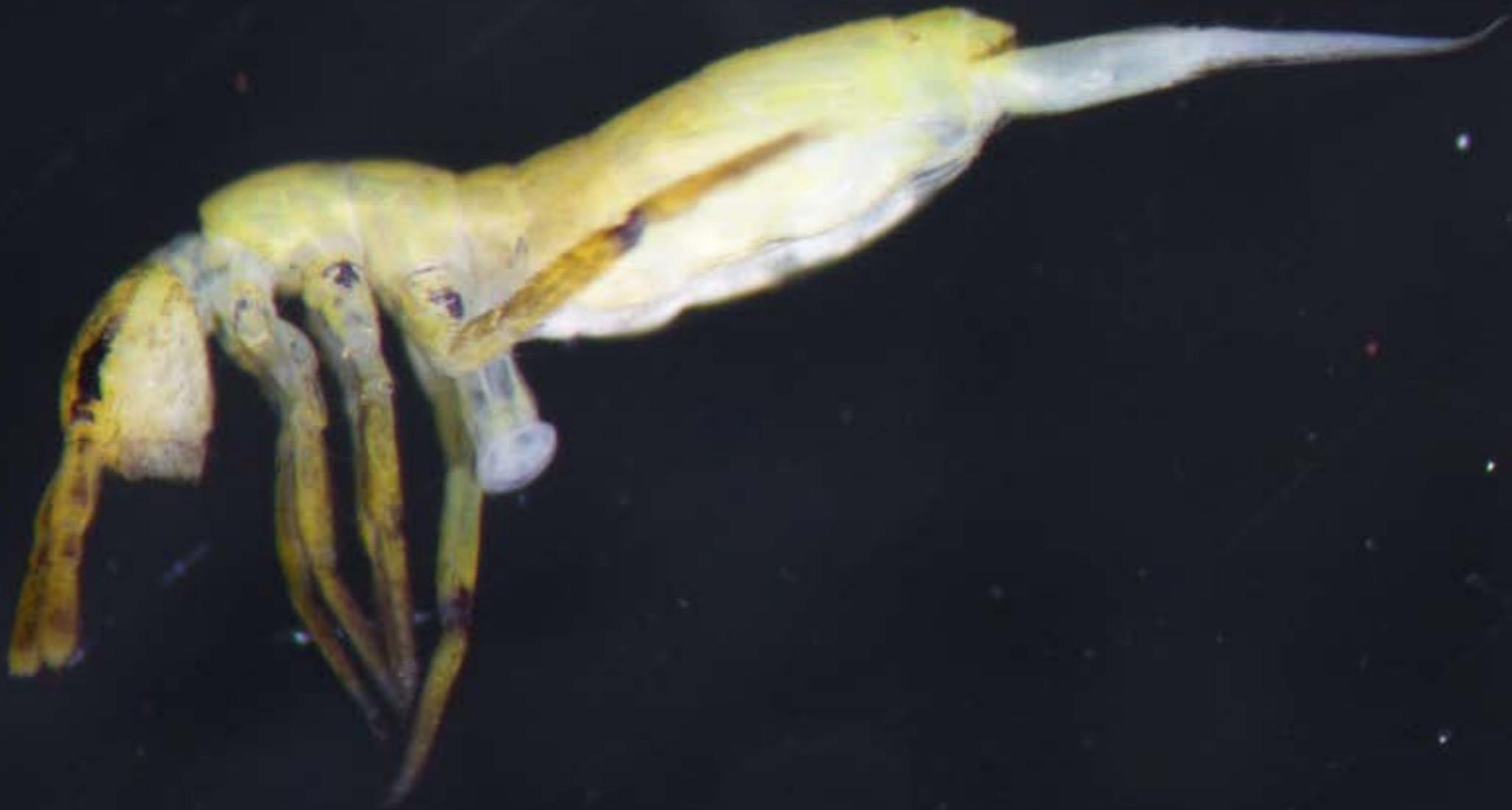
16YN5_2_2_sp7_Dicranocentrus varicolor



16YN5_2_3_sp7_Dicranocentrus varicolor



16YN7_1_1_sp1 *Dicranocentrus pallidus*



16YN7_1_2_sp1_Dicranocentrus pallidus



16YN7_1_3_sp1_Dicranocentrus pallidus



16YN7_1_5_sp1_Dicranocentrus pallidus



16YN7_2_1_sp6_Dicranocentrus similis similis



16YN7_2_2_sp6_Dicranocentrus similis similis



16YN7_2_3_sp6_Dicranocentrus similis similis



16YN7_2_4_sp6_Dicranocentrus similis similis



16YN7_2_5_sp6_Dicranocentrus similis similis



16YN7_2_6_sp6_Dicranocentrus similis similis

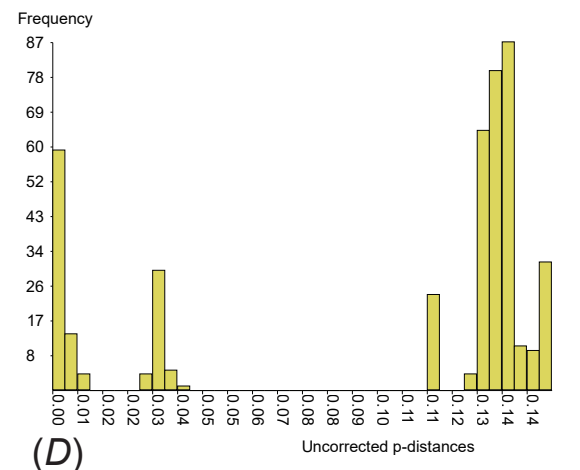
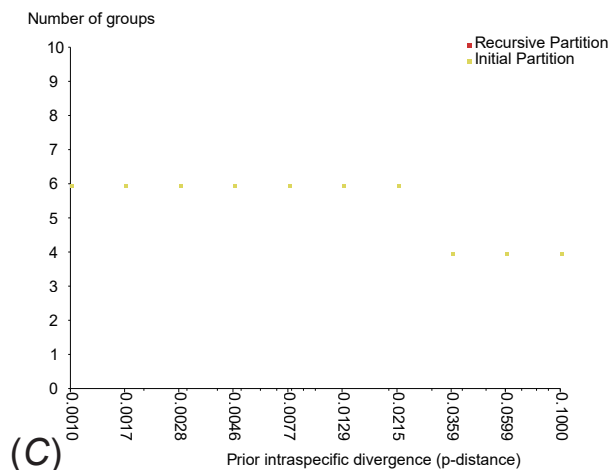
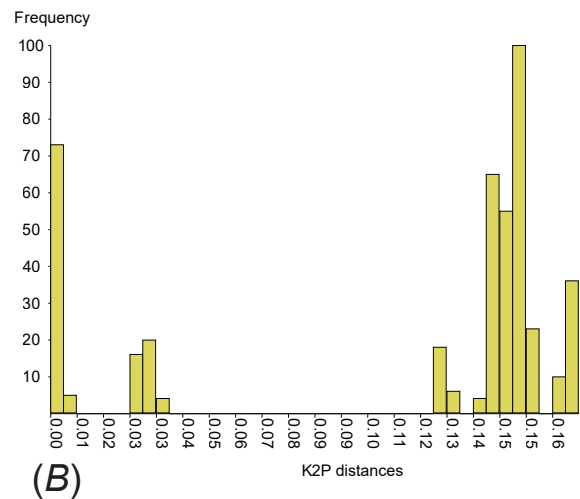
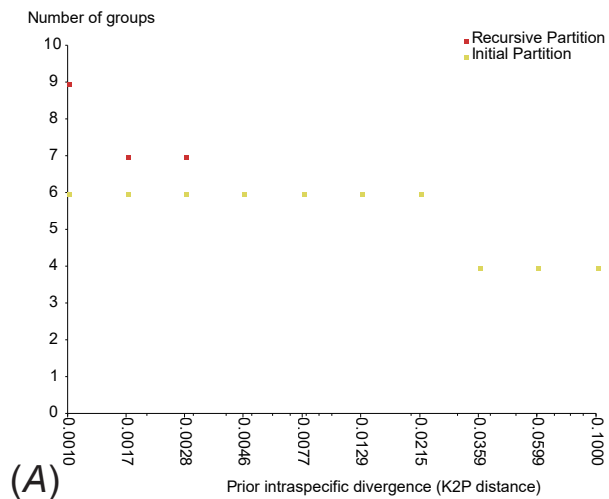


Fig. S2. ABGD species delimitations. (A) Partitions under different prior intraspecific divergences using K2P distances; (B) Frequency histogram of pairwise K2P distances; (C) Partitions under different prior intraspecific divergences using p-distances; (D) Frequency histogram of pairwise p-distances.