

Appendix 1. Oribatid mite species (Acari: Oribatida) from canopy suspended soils and forest floor habitats associated with western redcedar trees in the Walbran Valley, Vancouver Island, British Columbia, Canada. Numbers following each species are standardized abundance (number per 100 g dry weight substrate) and total number of individuals collected for each habitat in parentheses.

Family	Species	Canopy	Ground
Palaeacaridae	<i>Palaeacarus hystricinus</i>	0.14 (5)	3.04 (116)
Eniochthoniidae	<i>Eniochthonius minutissimus</i>	3.31 (117)	0.00 (0)
Atopochthoniidae	<i>Atopochthonius artiodactylus</i>	1.27 (45)	2.12 (81)
Pterochthoniidae	<i>Pterochthonius angelus</i>	0.06 (2)	2.10 (80)
Brachychthoniidae	<i>Synchthonius crenulatus</i>	0.34 (12)	2.12 (81)
	<i>Synchthonius</i> sp.	0.76 (27)	0.00 (0)
	<i>Eobrachychthonius</i> sp.	0.17 (6)	0.00 (0)
	<i>Brachychthonius</i> sp.	0.00 (0)	0.37 (14)
	<i>Mixochthonius</i> sp.	0.03 (1)	0.05 (2)
	<i>Sellnickochthonius</i> sp. 1 nr. <i>zelandensis</i>	3.59 (127)	1.55 (59)
	<i>Sellnickochthonius</i> sp. 2	18.51 (655)	2.36 (90)
	<i>Liochthonius</i> sp. 1	2.46 (87)	3.07 (117)
	<i>Liochthonius</i> sp. 2	8.90 (315)	1.81 (69)
	<i>Liochthonius</i> sp. 3	14.3 (506)	18.97 (723)
	<i>Liochthonius</i> sp. 4	0.90 (32)	0.03 (1)
Parhypochthoniidae	<i>Parhypochthonius aphidinus</i> sp. nr. <i>octofilamentis</i>	0.59 (21)	1.86 (71)
Gehypochthoniidae	<i>Gehypochthonius</i> sp.	0.00 (0)	0.10 (4)
Phthiracaridae	<i>Archiphthiracarus</i> sp. 1	42.54 (1505)	109.03 (4156)
	<i>Archiphthiracarus</i> sp. 2	0.06 (2)	3.28 (125)
	<i>Atropacarus striculus</i>	0.03 (1)	4.28 (163)
Oribotritiidae	<i>Mesotritia nuda</i>	0.17 (6)	0.13 (5)
	<i>Protoribotritia</i> sp. nr. <i>oligotritia</i>	0.00 (0)	1.94 (74)
	<i>Maerkeleotritia</i> sp. nr. <i>alaskensis</i>	0.06 (2)	0.58 (22)
Euphthiracaridae	<i>Euphthiracarus monyx</i>	0.31 (11)	3.75 (143)
	<i>Euphthiracarus cernuus</i>	0.03 (1)	3.80 (145)
Epilohmanniidae	<i>Epilohmannia</i> sp.	21.23 (751)	30.30 (1155)
Nothridae	<i>Nothrus silvestris</i>	0.00 (0)	0.10 (4)
	<i>Nothrus</i> sp.	0.00 (0)	0.52 (20)
Camisiidae	<i>Camisia foveolata</i>	0.00 (0)	0.03 (1)
	<i>Camisia</i> sp.	0.00 (0)	0.13 (5)
	<i>Platynothrus peltifer</i>	0.00 (0)	11.28 (430)
Trhypochthoniidae	<i>Trhypochthonius tectorum</i>	2.80 (99)	0.03 (1)
Malacanothridae	<i>Malacanothrus</i> sp. 1	0.00 (0)	9.50 (362)
	<i>Malacanothrus</i> sp. 2	0.08 (3)	0.00 (0)
Nanhermanniidae	<i>Nanhermannia elegantula</i>	0.25 (9)	21.30 (812)
	<i>Nanhermannia</i> sp. nr. <i>comitalis</i>	0.00 (0)	13.51 (515)
Hermannidae	<i>Hermannia gibba</i>	0.14 (5)	4.20 (160)
Hermannelliidae	<i>Hermannella</i> sp. nr. <i>occidentalis</i>	0.00 (0)	0.87 (33)
Neoliodidae	<i>Teleliodes</i> sp.	0.00 (0)	0.03 (1)
	<i>Platylodes macroprionus</i>	0.06 (2)	0.00 (0)
Gymnodamaidae	<i>Gymnodamaeus</i> sp.	0.06 (2)	0.00 (0)
Hungarobelbidae	<i>Hungarobelba</i> sp.	0.00 (0)	0.18 (7)
Damaeidae	Damaeidae nr. <i>Epidamaeus</i>	0.00 (0)	0.18 (7)
	<i>Epidamaeus</i> sp. nr. <i>floccosus</i>	0.76 (27)	0.00 (0)
	<i>Epidamaeus</i> sp.	0.00 (0)	0.16 (6)
	<i>Belba</i> (<i>Belba</i>) sp.	0.71 (25)	0.03 (1)
	<i>Belba</i> (<i>Protobelba</i>) <i>californica</i>	0.00 (0)	0.21 (8)

Cepheidae	<i>Eupterotegeus rhamphosus</i>	15.52 (549)	0.08 (3)
	<i>Eupterotegeus</i> sp. nr. <i>rostratus</i>	0.11 (4)	0.13 (5)
	<i>Ommatocephus</i> sp.	0.03 (1)	0.00 (0)
	<i>Sphodrocephus anthelionus</i>	0.00 (0)	0.03 (1)
Microzetidae	<i>Kalyptrazetes</i> sp. (possibly nr. <i>americanus</i>)	0.03 (1)	0.00 (0)
Damaeolidae	<i>Damaeolus</i> sp.	0.00 (0)	0.73 (28)
Eremaeidae	<i>Eueremaeus acostulatus</i>	0.08 (3)	0.03 (1)
	<i>Eueremaeus marshalli</i>	0.51 (18)	0.00 (0)
Megeremaeidae	<i>Megeremaeus montanus</i>	0.00 (0)	0.16 (6)
Tenuialidae	<i>Peltenuiala pacifica</i>	0.03 (1)	0.00 (0)
Liacaridae	<i>Liacarus</i> sp. 1 nr. <i>bidentatus</i>	0.20 (7)	8.45 (322)
	<i>Liacarus</i> sp. 2 nr. <i>robustus</i>	0.00 (0)	2.68 (102)
	<i>Liacarus</i> sp. 3	0.00 (0)	1.42 (54)
	<i>Liacarus</i> sp. 4	0.00 (0)	0.05 (2)
	<i>Liacarus</i> sp. 5	0.00 (0)	0.05 (2)
	<i>Dorycranosus</i> sp. 1	0.00 (0)	0.03 (1)
Astegistidae	<i>Cultroribula</i> sp. nr. <i>bicultrata</i>	0.00 (0)	1.60 (61)
Peloppiidae	<i>Ceratoppia</i> sp. 1	0.00 (0)	6.98 (266)
	<i>Ceratoppia</i> sp. 2	0.34 (12)	0.05 (2)
	<i>Ceratoppia</i> sp. 3	0.08 (3)	0.00 (0)
	<i>Metrioppia</i> sp.	0.20 (7)	0.10 (4)
Gustaviidae	<i>Gustavia</i> sp.	0.00 (0)	0.50 (19)
Kodiakellidae	<i>Kodiakella lutea</i>	4.21 (149)	0.16 (6)
Carabodidae	<i>Carabodes hob</i>	0.03 (1)	0.03 (1)
Tectocephidae	<i>Tectocephus velatus</i>	38.95 (1378)	13.30 (507)
Oppiidae	<i>Medioppia</i> sp.	0.68 (24)	0.03 (1)
	<i>Moritzoppia</i> sp.	37.73 (1335)	0.00 (0)
	<i>Multioppia</i> sp.	8.22 (291)	0.00 (0)
	<i>Oppiella nova</i>	101.18 (3580)	32.79 (1250)
	<i>Oppiella</i> sp. nr. <i>washburni</i>	0.00 (0)	0.03 (1)
	<i>Oppiella</i> sp. 1	0.00 (0)	0.16 (6)
	<i>Oppiella</i> sp. 2	0.00 (0)	0.16 (6)
	<i>Ramusella</i> (<i>Ramusella</i>) sp.	3.08 (109)	0.00 (0)
	<i>Ramusella</i> (<i>Insculptoppia</i>) sp. 1	0.20 (7)	0.81 (31)
Quadropiidae	<i>Quadropia quadricarinata</i>	50.34 (1781)	16.24 (619)
Suctobelbidae	<i>Suctobelbella</i> sp. 1	0.25 (9)	3.10 (118)
	<i>Suctobelbella</i> sp. nr. <i>longicuspis</i>	8.79 (311)	1.29 (49)
	<i>Suctobelbella</i> sp. 3	0.20 (7)	0.34 (13)
	<i>Suctobelbella</i> sp. 4	0.00 (0)	15.95 (608)
	<i>Suctobelbella</i> sp. 5	45.31 (1603)	31.93 (1217)
	<i>Suctobelbella</i> sp. 6	0.03 (1)	0.66 (25)
	<i>Suctobelbella</i> sp. 7	2.52 (89)	1.39 (53)
	<i>Suctobelbella</i> sp. 9	0.14 (5)	0.00 (0)
	<i>Allosuctobelba</i> sp. nr. <i>gigantea</i>	0.14 (5)	0.84 (32)
	<i>Allosuctobelba</i> sp. 2	0.03 (1)	1.00 (38)
	<i>Rhynchobelba</i> sp.	0.03 (1)	0.00 (0)
Autognetidae	<i>Autogneta</i> sp. nr. <i>longilamellata</i>	0.62 (22)	0.03 (1)
Thyrisomidae	<i>Banksinoma lanceolata</i>	0.34 (12)	0.00 (0)
Cymbaeremaeidae	<i>Scapheremaeus palustris</i>	0.14 (5)	0.08 (3)
Achipteriidae	<i>Achipteria</i> sp. nr. <i>curta</i>	0.08 (3)	0.39 (15)
	<i>Anachipteria acuta</i>	0.31 (11)	0.03 (1)
	<i>Anachipteria geminus</i>	0.03 (1)	0.00 (0)
	<i>Dentachipteria</i> sp.	0.00 (0)	21.83 (832)
Phenopelopiidae	<i>Eupelops</i> sp.	0.00 (0)	0.21 (8)
Scheloribatidae	<i>Scheloribates</i> (<i>Scheloribates</i>) sp.	55.54 (1965)	2.94 (113)
	<i>Parapirnodus coniferinus</i>	0.17 (6)	0.16 (6)
	<i>Parapirnodus hexaporosus</i>	0.03 (1)	0.03 (1)
Oribatulidae	<i>Oribatula</i> sp.	12.77 (452)	0.00 (0)
	<i>Phauloppia</i> sp.	0.17 (6)	0.05 (2)
	<i>Zygoribatula</i> sp.	0.03 (1)	0.03 (1)
Oribatellidae	<i>Ophidiotricus</i> sp.	0.00 (0)	0.34 (13)
Oripodidae	<i>Benoibates</i> sp.	0.03 (1)	0.00 (0)
Chamobatidae	<i>Chamobates</i> sp.	0.03 (1)	0.03 (1)
Ceratozetidae	<i>Ceratozetes pacificus</i>	18.26 (646)	1.65 (63)

	<i>Melanozetes crossleyi</i>	0.40 (14)	0.05 (2)
	<i>Sphaerozetes winchesteri</i>	4.13 (146)	0.03 (1)
	<i>Sphaerozetes</i> sp. 2	0.57 (20)	0.00 (0)
	<i>Sphaerozetes</i> sp. 3	0.17 (6)	0.00 (0)
Mycobatidae	<i>Mycobates acuspidatus</i>	0.00 (0)	0.03 (1)
	<i>Mycobates corticeus</i>	0.08 (3)	0.08 (3)
Galumnidae	<i>Pilogalumna</i> sp.	0.88 (31)	0.00 (0)

Species are numbered to be consistent with Lindo and Winchester 2006.

References

Lindo, Z. and Winchester, N. N. 2006. A comparison of microarthropod assemblages with emphasis on oribatid mites in canopy suspended soils and forest floors associated with ancient western redcedar trees. – *Pedobiologia* 50: 31–41.