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Hotspots of mite new species discovery: Sarcoptiformes (2013–2015)

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Abstract

A list of of type localities and depositories of new species of the mite order Sarciptiformes published in two journals (*Zootaxa* and *Systematic & Applied Acarology*) during 2013–2015 is presented in this paper, and trends and patterns of new species are summarised. The 242 new species are distributed unevenly among 50 families, with 62% of the total from the top 10 families. Geographically, these species are distributed unevenly among 39 countries. Most new species (72%) are from the top 10 countries, whereas 61% of the countries have only 1–3 new species each. Four of the top 10 countries are from Asia (Vietnam, China, India and The Philippines).

Key words: Acari, Sarcoptiformes, new species, distribution, type locality, type depository

Introduction

This paper provides a list of the type localities and depositories of new species of the order Sarciptiformes (Acari: Acariformes) published in two journals (*Zootaxa* and *Systematic & Applied Acarology* (SAA)) during 2013–2015 and a summary of trends and patterns of these new species. It is a continuation of a previous paper (Liu *et al*. 2013), which provided the similar data for Acari (2007–2012). This paper is part of a series of three for the new species described in the same journals during 2013–2015. The other two deal with the Trombidiformes (Liu & Zhang 2016) and the Parasitiformes (Lam & Zhang 2016). The methods used in this paper follow those in Liu *et al*. (2013).

Results and discussion

Trends in the number of new species

The number of new species of the Sarcoptiformes published in *SAA* during 2013–2015 increased each year (Table 1), probably reflecting an increase in the number of papers published in this journal during this period (Zhang 2014, 2015, 2016). An average of 17 new species in *SAA* per year during 2013–2015 is over three times of that during 2007–2012 (Table 1). The number of new species of the Sarcoptiformes published in *Zootaxa* during 2013–2015 decreased each year (Table 1). However, the average of 63 new species per year in *Zootaxa* during 2013–2015 is still much higher than that during 2007–2012 (46 new species per year; Table 1). Overall, the average number of new species per year increased from 51 during 2007–2012 to 80 during 2013–2015. This is similar to the trend in the Trombidiformes (an increase from 132 during 2007–2012 to 163 during 2013–2015; Liu & Zhang 2016) but different from that in the Parasitiformes (a decrease from 57 during 2007–2012 to 47 during 2013–2015; Lam & Zhang 2016).

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TABLE 1. The number of new species of the order Sarcoptiformes published in *Zootaxa* and *SAA* during 2013–2015 in comparision with those during 2007–2012 (Data from Liu *et al.* 2013).

Year	*SAA*	*ZOOTAXA*	Total
2007	5	16	21
2008	3	37	40
2009	1	28	29
2010	5	48	53
2011	6	81	87
2012	11	68	79
2013	13	76	89
2014	17	71	88
2015	22	43	65
Total	**83**	**468**	**551**

Taxonomic distribution of new species

At the infraorder level within the Sarcoptiformes, over 73% of the 242 new species described in the two journals during 2013–2015 are in Desmonomata (versus 80.58% during 2007–2012; Tables 2, 3).

TABLE 2. Taxonomic distributions of new species from the order Sarcoptiformes reported in *SAA* and *Zootaxa* (2007–2015) among three infraorders.

Year	Infraorder	*SAA*	*ZOOTAXA*	Total	(% of order Sarcoptiformes)
2007–2012	Enarthronota	8	10	18	5.83%
	Mixonomata	1	41	42	13.59%
	Desmonomata	22	227	249	80.58%
2013–2015	Enarthronota	0	3	5	2.08%
	Mixonomata	17	43	58	23.96%
	Desmonomata	35	144	179	73.96%

At the family level, the distribution of new species among 50 families is highly uneven; most of these new species (62%) are from the top 10 families (two families shared the rank 10 so there are 11 families in top 10 (Table 3). The top family (Phthiracaridae) has over twice as many species as the second one (Malaconothridae, 21 species). Most families (60%) have only 1–3 new species during 2013–2015 (Tables 3, 4).

TABLE 3. The distribution of new species reported in *SAA* and *Zootaxa* (2013–2015) among families.
N_{sp}=number of new species within each paper, N_{fam}=number of families with N_{sp} species.

N_{sp}	N_{fam}	Families of the order Sarcoptiformes
44	1	Phthiracaridae
21	1	Malaconothridae
20	1	Galumnidae
12	2	Oppiidae, Pterolichidae

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TABLE 3. (Continued)

N_{sp}	N_{fam}	Families of the order Sarcoptiformes
9	1	Dermationidae
8	1	Euphthiracaridae
7	2	Aleurodamaeidae, Trouessartiidae
6	2	Haplozetidae, Listropsoralgidae
5	4	Oribatellidae, Oribotritiidae, Suctobelbidae, Xolalgidae
4	5	Carabodidae, Fortuyniidae, Mycobatidae , Otocepheidae, Proctophyllodidae
3	6	Achipteriidae, Autognetidae, Crotoniidae, Parakalummidae, Scheloribatidae, Sternoppiidae
2	8	Cerocepheidae, Granuloppiidae, Hermanniellidae, Mesoplophoridae, Paracoroptidae, Psoroptidae, Pteronyssidae, Ceratozetidae
1	16	Avenzoariidae, Caleremaeidae, Damaeidae, Epactozetidae, Lohmanniidae, Machadobelbidae, Maudheimiidae, Mochlozetidae, Niphocepheidae, Oribatulidae, Protoplophoridae, Psammochthoniidae, Synichotritiidae, Tegeocranellidae, Tegoribatidae, Thyrisomidae

TABLE 4. Systematic list of the number of new species of the order Sarcoptiformes reported in *SAA* and *Zootaxa* (2013–2015) in comparision with the number of species during 2007–2012 (Liu *et al*. 2013).

TAXA	$N_{sp.n—2013–2015}$	$N_{sp.n—2007–2012}$
Suborder Oribatida		
Infraorder Enarthronota		
Superfamily Atopochthonioidea		
Family Phyllochthoniidae	0	2
Superfamily Hypochthonioidea		
Family Hypochthoniidae	0	3
Family Lohmanniidae	1	4
Family Mesoplophoridae	2	2
Family Psammochthoniidae	1	0
Superfamily Protoplophoroidea		
Family Protoplophoridae	1	2
Infraorder Mixonomata		
Superfamily Epilohmannioidea		
Family Epilohmanniidae	0	1
Superfamily Euphthiracaroidea		
Family Euphthiracaridae	8	12
Family Oribotritiidae	5	4
Family Synichotritiidae	1	2
Superfamily Phthiracaroidea		
Family Phthiracaridae	44	23

.....continued on the next page

TABLE 4. (Continued)

TAXA	$N_{sp.n—2013–2015}$	$N_{sp.n—2007–2012}$
Infraorder Desmonomata		
Hyperorder Nothrina		
Superfamily Crotonioidea		
Family Crotoniidae	3	28
Family Hermanniidae	0	16
Family Malaconothridae	21	0
Family Nothridae	0	8
Family Trhypochthoniidae	0	1
Hyporder Brachypylina		
Superfamily Hermannielloidea		
Family Hermanniellidae	2	1
Superfamily Plateremaeoidea		
Family Aleurodamaeidae	7	0
Family Licnodamaeidae	0	2
Superfamily Damaeoidea		
Family Damaeidae	1	8
Superfamily Cepheoidea		
Family Cerocepheidae	2	0
Superfamily Microzetoidea		
Family Microzetidae	0	3
Superfamily Ameroidea		
Family Ameridae	0	2
Family Caleremaeidae	1	0
Superfamily Zetorchestoidea		
Family Niphocepheidae	1	0
Superfamily Gustavioidea		
Family Astegistidae	0	4
Family Liacaridae	0	1
Family Peloppiidae	0	6
Superfamily Carabodoidea		
Family Carabodidae	4	7
Family Nippobodidae	0	5
Family Otocepheidae	4	1
Superfamily Cepheoidea		
Family Cepheidae	0	1
Superfamily Oppioidea		
Family Machuellidae	0	1
Family Autognetidae	3	1
Family Granuloppiidae	2	0
Family Machadobelbidae	1	0

.....continued on the next page

TABLE 4. (Continued)

TAXA	$N_{sp.n—2013–2015}$	$N_{sp.n—2007–2012}$
Family Oppiidae	12	12
Family Sternoppiidae	3	0
Family Thyrisomidae	1	0
Superfamily Trizetoidea		
Family Suctobelbidae	5	0
Superfamily Tectocepheoidea		
Family Tegeocranellidae	1	0
Superfamily Ameronothroidea		
Family Fortuyniidae	4	1
Superfamily Cymbaeremaeoidea		
Family Cymbaeremaeidae	0	23
Superfamily Eremaeozetoidea		
Family Eremaeozetidae	0	10
Superfamily Licneremaeoidea		
Family Adhaesozetidae	0	2
Family Scutoverticidae	0	1
Superfamily Phenopelopoidea		
Family Unduloribatidae	0	2
Superfamily Achipterioidea		
Family Achipteriidae	3	0
Family Epactozetidae	1	0
Family Tegoribatidae	1	0
Superfamily Oribatelloidea		
Family Oribatellidae	5	17
Superfamily Oripodoidea		
Family Haplozetidae	6	1
Family Mochlozetidae	1	1
Family Oribatulidae	1	1
Family Parakalummidae	3	1
Family Scheloribatidae	3	0
Family Zetomotrichidae	0	1
Superfamily Ceratozetoidea		
Family Ceratozetidae	2	1
Family Maudheimiidae	1	0
Family Mycobatidae	4	0
Superfamily Galumnoidea		
Family Galumnellidae	0	2
Family Galumnidae	20	10
Hyperorder Astigmata		
Superfamily Hemisarcoptoidea		

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TABLE 4. (Continued)

TAXA	$N_{sp.n—2013–2015}$	$N_{sp.n—2007–2012}$
Family Winterschmidtiidae	0	1
Family Algophagidae	0	2
Superfamily Glycyphagoidea		
Family Euglycyphagidae	0	1
Superfamily Sarcoptoidea		
Family Psoroptidae	2	0
Family Atopomelidae	0	2
Family Chirodiscidae	0	14
Family Listrophoridae	0	3
Family Gastronyssidae	0	15
Family Listropsoralgidae	6	0
Superfamily Pterolichoidea		
Family Pterolichidae	12	1
Superfamily Analgoidea		
Family Avenzoariidae	1	0
Family Dermationidae	9	2
Family Proctophyllodidae	4	29
Family Psoroptoididae	2	0
Family Pteronyssidae	2	1
Family Trouessartiidae	7	0
Family Xolalgidae	5	1

Geographic distribution of new species

The distribution of 242 new species reported in *SAA* and *Zootaxa* (2013–2015) among 39 countries is highly uneven. Most new species (72%) are from the top 10 countries, whereas 61.5% of the countries have only 1–3 new species each (Table 5). Seven of the top 10 countries are also megadiversity countries (Mittermeier 1988). Four of the top 10 countries are from Asia (Vietnam, China, India, and The Philippines).

TABLE 5. Geographic distributions of new species reported in the order *SAA* and *Zootaxa* (2013–2015); N_{sp}=number of new species within each country (or region), N_c=number of countries with N_{sp} species.

N_{sp}	N_c	Name of countries (regions)
32	1	Vietnam
27	1	New Zealand
23	1	Brazil*
20	1	China*
17	1	South Africa*
14	1	Australia*
12	2	Cameroon, India*
11	1	Ecuador*
8	1	The Philippines*

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TABLE 5. (Continued)

N_{sp}	N_c	Name of countries (regions)
7	1	Papua New Guinea*
5	1	Russia
4	3	Bolivia, Canada, Costa Rica*
3	5	Cuba, Ethiopia, Indonesia*, Nepal, USA*
2	8	Cape Verde, Colombia*, D.R. Congo*, Germany, Maldives, Madagascar*, Peru, Tanzania
1	11	Iran, Malaysia*, Micronesia, New Caledonia, Panama, Portugal, Saudi Arabia, Singapore, Spain, Thailand, Virginia

*Megadiversity countries (Mittermeier 1988).

List of abbreviations of zoological collections:

AMU—Department of Animal Taxonomy and Ecology, Adam Mickiewicz University, Poznan, Poland.
ANIC—Australian National Insect Collection, CSIRO Entomology, Canberra, Australia.
CNC— Canadian National Collection of Insects, Arachnids and Nematodes, Agriculture and Agri-Food Canada, Ottawa, Ontario, Canada.
CUMNH—Acari collection of Chulalongkorn University Museum of Natural History, Bangkok, Thailand.
DATE—Department of Animal Taxonomy and Ecology, Adam Mickiewicz University, Poznań, Poland.
DZUnesp-RC—Acari Collection of the Department of Zoology of the Universidade Estadual Paulista, Rio Claro, São Paulo, Brazil.
IOZ—Institute of Zoology, Chinese Academy of Sciences, Beijing, China.
IRSNB—Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium.
KSMA—King Saud Museum of Arthropods, Riyadh, Saudi Arabia.
MGAB—Acarological Collection of the "Grigore Antipa" National Museum of Natural History, Bucharest, Romania.
MNHN—Muséum national d'Histoire naturelle, Paris, France.
MNRJ—Arachnological Collection of the National Museum of Rio de Janeiro, Brazil.
NHMW—Naturhistorisches Museum Wien, Austria.
NIGA—Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, Changchun, China.
NMB—Acarology collection of the National Museum, Bloemfontein, South Africa.
NZAC—New Zealand Arthropod Collection, Landcare Research, Auckland, New Zealand.
NZMC—National Zoological Museum of China, Institute of Zoology, Chinese Academy of Sciences, Beijing, China.
PMAE.IZ—Royal Alberta Museum, Invertebrate Zoology, 12845—102 Avenue, Edmonton, AB, T5N 0M6, Canada.
SMF—Collection of the Senckenberg Research Institute and Natural History Museum, Frankfurt, Germany.
SUC—Institute of Entomology, Southwest University, Chongqing, China.
SUI—Acarological Collection of the Department of Plant Protection, Shiraz University, Iran.
TUMZ—Museum of Zoology of Tyumen State University, Russia.
UMMZ—Museum of Zoology, University of Michigan, USA.
WAM—Western Australian Museum, Perth.
ZISP—Zoological Institute of the Russian Academy of Sciences, St. Petersburg, Russia.
ZMCAS—National Zoological Museum of China, Institute of Zoology, Chinese Academy of Sciences, Beijing, China.

List of type localities and depositories of new species in *Zootaxa* and *SAA* during 2013–2015

Order: **Sarcoptiformes** (242 species)

Suborder: **Oribatida** (242 species)

Infraorder: **Enarthronota** (5 species)

Superfamily: **Hypochthonioidea** (4 species)

Family: **Lohmanniidae** (1 species)

***Lohmannia (Carolohmannia) monosetosa* Ermilov & Anichkin, 2014b: 10—**Holotype female (ZISP), from soil, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°11'03.29"N, 108°41'25.06"E, 1450–1530 m).

Family: **Mesoplophoridae** (2 species)

Apoplophora minuscula **Niedbała *in* Niedbala & Ermilov, 2013b: 523—**Holotype (AMU), sifting samples, Dong Nai Biosphere Reserve, Dong Nai Province, Vietnam (11°25'N, 107°25'E).

Apoplophora paraspinosa **Niedbała *in* Niedbała & Ermilov, 2013a: 578—**Holotype (AMU), soil litter in forest, Hunli, Arunachal Pradesh, India (28°19'32"N, 95°57'31"E, 1300 m).

Family: **Psammochthoniidae** (1 species)

Psammochthonius kethleyi **Fuangarworn & Norton, 2013: 474—**Holotype female (CUMNH, CUMZ-AC-2013.01), from sandy soil of Melaleuca forest, Khao Lampi-Hat Thai Mueang National Park, Thai Mueang District, Phangnga Province, Thailand (8°29'45"N, 98°13'30"E).

Superfamily: **Protoplophoroidea** (1 species)

Family: **Protoplophoridae** (1 species)

Prototritia triangularibus **Niedbała *in* Niedbała & Ermilov, 2015: 136—**Holotype (TUMZ) from leaf litter, Ancon, Valle de Viñales National Park, Cuba (22°40'56.8"N, 83°42'57.5"W).

Infraorder: **Mixonomata** (58 species)

Superfamily: **Euphthiracaroidea** (14 species)

Family: **Euphthiracaridae** (8 species)

Acrotritia colombianus **Liu, 2015b: 896—**Holotype adult (NIGA, 76-0713-008), from litter and humus, Quebrada Guacoche near Don Diego, Magdalena, Colombia (11°14'28″N, 73°42'52″W).

Acrotritia paragranulata **Niedbała *in* Ermilov & Anichkin, 2014: 161—**Holotype (DATE), soil and litter (sifter) of polydominant forest, Dong Nai Biosphere Reserve, Dong Nai Province, Vietnam (11°21′–11°48′N, 107°10′–107°34′E).

Acrotritia furca **Niedbała & Starý, 2014a: 36—**Holotype (DATE), litter and soil sifting sample of montane foggy forest, North–West Province, Cameroon (06°13'17.64"N, 10°30'13.26"E, 2800 m).

Acrotritia quasidivida **Niedbała & Starý, 2014a: 38—**Holotype (DATE), litter and soil sifting sample of submontane foggy forest, Mt. Koup Ecological Reserve, North–West Province, Cameroon (04°49'09.18"N, 09°42'27.18"E, 1550 m).

Acrotritia proxima **Niedbała in Niedbala & Ermilov, 2013b: 524**—Holotype (AMU), sifting samples in polydominant forest, Dong Nai Biosphere Reserve, Dong Nai Province, Vietnam (11°25'N, 107°25'E).

Acrotritia tibetensis, **Liu & Chen, 2015: 130—**Holotype (ZMCAS, CJ-01-89), from litter under broad-leaved tree, Youyiqiao, Zhangmu, Nyalam, Tibet, China (1850 m).

Euphthiracarus (Euphthiracarus) quasitakahashii **Niedbała *in* Ermilov & Anichkin, 2014: 158—**Holotype (DATE), from soil and litter (sifter)of mixed pine dominated forest, Bi Dup—Nui Ba National Park, Lam Dong Province, Vietnam (12º10'–12º11'N, 108º40'–108º41'E).

Euphthiracarus (Parapocsia) medius **Niedbała *in* Ermilov & Anichkin, 2014: 160—**Holotype (DATE), from soil and litter (sifter)of mixed pine dominated forest, Bi Dup—Nui Ba National Park, Lam Dong Province, Vietnam (12º10'–12º11'N, 108º40'–108º41'E).

Family: **Oribotritiidae** (5 species)

Indotritia montkoupensis **Niedbała & Starý, 2014a: 34—**Holotype (DATE), litter and soil sifting sample of foggy submontane forest, Mt. Koup Ecological Reserve, South–West Province, Cameroon (04°49'09.18"N, 09°42'27.18"E, 1550 m).

Oribotritia mangamuka **Liu & Zhang, 2013a: 154—**Holotype: adult (NZAC, 76/101), from litter, Mangamuka Summit, Northland, New Zealand (400 m).

Oribotritia bilaminae **Liu & Zhang, 2013a: 156—**Holotype adult (NZAC, 77/22), from rotten branches in Nothofagus forest, Fiordland, Camp, New Zealand (950 m).

Oribotritia duotrisetosa **Niedbała *in* Niedbała & Ermilov, 2013: 580—**Holotype (AMU), soil litter in forest, Hunli, Arunachal Pradesh, India (28°19'32"N, 95°57'31"E, 1300 m).

Oribotritia hunchunensis **Liu, 2015a: 219—**Holotype adult (NIGA), from litter under tree, Hunchun, Yabian, Jilin Province, China.

Family: **Synichotritiidae** (1 species)

Sabahtritia dongnaiensis **Niedbała *in* Niedbala & Ermilov, 2013b: 526—**Holotype (AMU), soil of monsoon semi-deciduous tropical lowland forest, Dong Nai Culture and Nature Reserve, Dong Nai Province, Vietnam (11°18'N, 107°04'E).

Superfamily: **Phthiracaroidea** (44 species)

Family: **Phthiracaridae** (44 species)

Atropacarus (Hoplophorella) curtisetosus **Niedbała & Stary, 2014b: 75**—Holotype (DATE, TAN-002), litter sifting sample of leaf litter, deciduous forest, east slope of Southern Uluguru Mts, Tanzania (07°07'20"S, 37°38'37"E, 2058 m).

Atropacarus (Hoplophorella) distinctus **Niedbała & starý, 2014b: 75**—Holotype (DATE, MAG-032), sifting sample of forest litterof secondary forest, Ambohitantely Special Reserve, Madagascar (18°11'31,0"S, 47°17'06,9"E, 1620 m).

Atropacarus (Hoplophorella) gibbus **Niedbała & Starý, 2014a: 52—**Holotype (DATE), rainforest, litter and soil sifting sample, Korup National Park, South–West Province, Cameroon (05°02'11.64"N, 08°49'45.96"E, 300 m).

Atropacarus (Hoplophorella) inflatus **Niedbała**, **2014: 167—**Holotype female (NIGA), from rotten wood, Samage, Diqing, Yunnan Province, China.

Atropacarus (Hoplophorella) minimus **Niedbała, 2014: 169—**Holotype female (NIGA), from litter and moss, Qumei, Shigatse, Tibet, China.

Atropacarus (Hoplophorella) othneios **Niedbała & starý**, **2014b: 78**—Holotype (DATE, MAG-207), sifting of forest leaf litter sample from evergreen rain forest, Ranomafana National Park, Madagascar (21°15'10.3"S, 47°25'01.2"E, 1077 m).

Atropacarus (Hoplophorella) stenos **Niedbała & starý, 2014b: 78**—Holotype (DATE, TAN-006), sample of leaf litter siftingfrom decidous forest on steep slope, Turiani, Nguru Mts, Tanzania (06°06'24"S, 37°31'48"E, 1236 m).

Austrophthiracarus bah **Liu & Zhang, 2015: 266—**Holotype (NZAC, 78/273), from mosses, Mt. Moehau, Coromandel, New Zealand (760 m).

Austrophthiracarus bicarinatus **Niedbała & Starý, 2014a: 47—**Holotype (DATE), litter and soil sifting sample from montane foggy forest, North–West Province, Cameroon (06°13'17.64"N, 10°30'13.26"E, 2800 m).

Austrophthiracarus cronadun **Liu & Zhang, 2013c: 386—**Holotype adult (NZAC, 73/9), from litter, Capleston Bio. Res. Br., New Zealand.

Austrophthiracarus karioi **Liu & Zhang, 2014a: 590—**Holotype (NZAC, 81/96), from litter, Mt. Karioi near base, Waikato, New Zealand.

Austrophthiracarus kirikiri **Liu & Zhang, 2015: 268—**Holotype (NZAC, 76/81), from litter, Kirikiri Saddle, Coromandel, New Zealand (488 m).

Austrophthiracarus longisetosus **Niedbała & Starý, 2015: 134—**Holotype (DATE), sifted leaf litterfrom mountain cloudy forest, Amboró NP, Santa Cruz, Bolivia (17º49'02"S, 64º41'35"W, 2452 m).

Austrophthiracarus matuku **Liu & Zhang, 2014a: 586**—Holotype adult (NZAC, 87/8), from litter, Matuku Reserve, Bethells, Auckland, New Zealand.

Austrophthiracarus notoporosus **Liu & Zhang, 2014a: 588**—Holotype adult (NZAC, 77/12), from shaded litter, moss and liverworts, Tutoko Bench, Fiordland, New Zealand (1219 m).

Austrophthiracarus tawhai **Liu & Zhang, 2013c: 388—**Holotype adult (NZAC, 72/105), from litter, Catlins S. F. Otago, New Zealand.

Austrophthiracarus waitere **Liu & Zhang, 2015: 264—**Holotype (NZAC, 84/73), from litter, Waitere, Hawke's Bay, New Zealand.

Hoplophthiracarus kumboensis **Niedbała & Starý, 2014a: 39—**Holotype (DATE), litter and soil sifting samplefrom montane foggy forest, North–West Province, Cameroon (06°13'17.64"N, 10°30'13.26"E, 2800 m).

Hoplophthiracarus reticulatus **Niedbała & Starý, 2014a: 42—**Holotype (DATE), litter and soil sifting sample, montane foggy forest, North–West Province, Cameroon (06°13'17.64"N, 10°30'13.26"E, 2800 m).

Hoplophthiracarus spinus **Niedbała & Starý. 2014a: 42—**Holotype (DATE), litter and soil sifting sample, montane foggy forest, North–West Province, Cameroon (06°13'17.64"N, 10°30'13.26"E, 2800 m).

Hoplophthiracarus vinalesensis Niedbała in **Niedbała & Ermilov, 2015: 138—**Holotype (TUMZ) from leaf litter, Ancon, Valle de Viñales National Park, Cuba (22°40'56.8"N, 83°42'57.5"W).

Hoplophthiracrus clavatus Niedbala in **Ermilov & Anichkin, 2014: 162—**Holotype (DATE), soil and litter (sifter), mixed pine dominated forest, Bi Dup—Nui Ba National Park, Lam Dong Province, Vietnam (12º10'–12º11'N, 108º40'–108º41'E).

Notophthiracarus colombianus **Liu & Oconnor, 2015: 63—**Holotype (UMMZ, BMOC 76-0713-006), from litter, Quebrada Guacoche near Don Diego, Magdalena, Colombia (11°14'28″N, 73°42'52″W).

Notophthiracarus dugdalei **Liu & Zhang, 2013b: 393—**Holotype adult (NZAC, 77/14), from mosses under Dracophyllum scrub, Tutoko Bench, Camp, Darran Mts., Fiordland, New Zealand (950 m).

Notophthiracarus matatatipu **Liu & Zhang, 2013b: 395—**Holotype adult (NZAC, 77/27), from crevice plants, Tutoko Bench, Camp, Darran Mts., Fiordland, New Zealand (1585 m).

Notophthiracarus motumuka **Liu & Zhang**, **2014b: 190—**Holotype adult (NZAC, 82/7), from litter, Main Ridge above Grave Bay, Hen & Chickens Is. Lady Alice Island, Northland, New Zealand.

Notophthiracarus rimi **Liu & Zhang, 2014b: 194—**Holotype adult (NZAC, 72/227), from litter, Red I. Mercury Is., Coromandel, New Zealand.

Notophthiracarus tamaki **Liu & Zhang, 2014b: 192—**Holotype: adult (NZAC, 83/166), from litter, Tamaki Estuary Tohuna Torea, Auckland, New Zealand.

Notophthiracarus whakau **Liu & Zhang, 2013b: 397—**Holotype adult (NZAC, 72/227), from mainly Myrsine litter, Red I., Mercury Is., Coromandel, New Zealand.

Phrathicarus hikurangi **Liu & Zhang, 2013d: 236—**Holotype adult (NZAC, 79/1), from litter in subalpine bush dominated by *Nothofagus menziesii* and *Olearia colensoi*, Mt. Hikurangi, Gisborne, New Zealand (1372 m).

Phrathicarus longisensillus **Liu & Zhang, 2013d: 234—**Holotype adult (NZAC, 72/227), from mainly Myrsine litter, Red I.Mercury Is. Coromandel, New Zealand.

Phthiracarus allocotos **Niedbała & Starý, 2015: 132—**Holotype (DATE), sifted leaf litter, mountain cloudy forest, Amboró NP, Santa Cruz, Bolivia (17º49'02"S, 64º41'35"W, 2452 m).

Phthiracarus fujianensis **Liu *in* Ni & Liu, 2014: 178**—Holotype (NZMC, W-90-68), from fallen leaves under *Taxus chinesis,* Lishan, Longqishan Natural Reserve, Jiangle County, Fujian Province, China (26°33'1.95"N, 117°16'37.97"E).

Phthiracarus pachys **Niedbała, 2014: 304—**Holotype (DATE), litter sample from the beach forest, Province Burgos, North slope, Puerto de Catrales, Spain (950 m).

Phthiracarus sichuanensis **Liu *in* Ni & Liu**, **2014: 181**—Holotype adult (NZMC, W-90-32), from litter, Ya'an, Sichuan Province, China (29°58'49.93"N, 103°0'47.74"E, 660 m).

Phthiracarus yunnanensis **Liu *in* Ni & Liu**, **2014:183**—Holotype (NZMC, W-93-26), from litter under tropical forest, Pingbian County, Yunnan Province, China (22°56'8.28"N, 103°55'16.71"E, 1600 m).

Plonaphacarus kaluzi **Niedbała *in* Niedbała & Ermilov, 2013a: 581—**Holotype (AMU), soil litter in forest, Hunli, Arunachal Pradesh, India (28°19'32"N 95°57'31"E, 1300 m).

Protophthiracarus amboroensis **Niedbała & Starý, 2015: 134—**Holotype (DATE) sifted leaf litter, mountain cloudy forest, Amboró NP, Santa Cruz, Bolivia (17º49'02"S, 64º41'35"W, 2452 m).

Protophthiracarus diatropos **Niedbała & Starý, 2014a: 47—**Holotype (DATE), litter and soil sifting sample, montane foggy forest, North–West Province, Cameroon (04°49'09.18"N, 09°42'27.18"E, 1550 m).

***Protophthiracarus korupensis* Niedbała & Starý, 2014a: 49—**Holotype (DATE), rainforest, litter and soil sifting sample, Korup National Park, South–West Province, Cameroon (05°02'11.64"N, 08°49'45.96"E, 300 m).

***Protophthiracarus paratripartitus* Niedbała *in* Niedbała & Ermilov, 2015: 138—**Holotype (TUMZ) from leaf litter, Ancon, Valle de Viñales National Park, Cuba (22°40'56.8"N, 83°42'57.5"W).

***Protophthiracarus preptos* Niedbała & Starý, 2014a: 52—**Holotype (DATE), rainforest, litter and soil sifting sample, Korup National Park, South–West Province, Cameroon (05°02'11.64"N, 08°49'45.96"E, 300 m).

***Steganacarus (Rhacaplacarus) quaternarius* Niedbała & Starý, 2014a: 44—**Holotype (DATE), litter and soil sifting sample, submontane foggy forest, Mt. Koup Ecological Reserve, North–West Province, Cameroon (04°49'09.18"N, 09°42'27.18"E, 1550 m).

***Steganacarus (Rhacaplacarus) spinus* Niedbala *in* Ermilov & Anichkin, 2014: 164—**Holotype (DATE), soil and litter(sifter), mixed forest Bu Gia Map National Park, Binh Phuoc Province, Vietnam (12º05'–12º18'N, 107º03'–107º14'E).

Infraorder: **Desmonomata** (179 species)

Hyperorder: **Nothrina** (24 species)

Superfamily: **Crotonioidea** (24 species)

Family: **Crotoniidae** (3 species)

***Austronothrus kinabalu* Colloff & Cameron, 2014: 265**—Holotype female (CNC), base of St. John's Peak, Mount Kinabalu National Park, Sabah, Borneo, Malaysia (06°02'S, 116°33'E, 3950 m).

***Austronothrus rostralis* Colloff & Cameron, 2014: 266**—Holotype female (ANIC 3505), trough of flight intercept trap, Filmy Fern Gully, Norfolk Island National Park, Australia (29°0'.59"S, 167°56'58"E, 180 m).

***Crotonia ramsayi* Colloff, 2015: 5—**Holotype female (NZAC), Coprosoma cyanthoides litter, Dun Mountain Track, Nelson, New Zealand (41°19'S 173°19'E, 610 m).

Family: **Malaconothridae** (21 Species)

***Malaconothrus beecroftensis* Colloff & Cameron, 2013: 318—**Holotype female (ANIC) from moss, Point Perpendicular, Beecroft Peninsula, New South Wales, Austrialia (36°6'S, 150°48'E).

***Malaconothrus darwini* Colloff & Cameron, 2013: 320—**Holotype female (ANIC), soaking moss, Overcliff Walk, Blue Mountains, New South Wales, Austrialia (33°43'36"S, 150°22'14"E, 830 m).

***Malaconothrus dispela* Colloff, 2013: 410—**Holotype female (ANIC 418), litter, rainforest, Highlands Highway, near Komum (ca. 15 km east of Mt. Hagen), Papua New Guinea (5°49'43"S, 144°22'19"E, 1830 m).

***Malaconothrus gogolensis* Colloff, 2013: 413—**Holotype female (ANIC 404), litter, rainforest, Gogol Valley, Papua New Guinea (5°12'13"S, 145°34'53"E, 50 m).

***Malaconothrus gundungurra* Colloff & Cameron, 2013: 324—**Holotype female (ANIC), soaking wet liverworts, Leura Cascades Walk, Blue Mountains, New South Wales, Austrialia (33°43'17"S, 150°19'21"E, 880 m).

***Malaconothrus jowettae* Colloff & Cameron, 2013: 327—**Holotype female (ANIC 3507), trough of flight intercept trap, Maurge Jowett's garden, Red Road, Norfolk Island, Austrialia (29°0'37.73"S, 167°56'43.49"E, 250 m).

***Malaconothrus knuellei* Colloff & Cameron, 2013: 330—**Holotype female (ANIC), soaking wet liverworts, Leura Cascades Walk, Blue Mountains, New South Wales, Austrialia (33°43'17"S, 150°19'21"E, 880 m).

***Malaconothrus laensis* Colloff, 2013: 419—**Holotype female (ANIC 400), litter, rainforest, Papua New Guinea (6°42'S, 146°56'E).

***Malaconothrus liklik* Colloff, 2013: 421—**Holotype female (ANIC 407), litter, rainforest, Hayfield Mission, Papua New Guinea (3°41'55"S, 143°2'58"E, 50 m).

***Malaconothrus murmurensis* Colloff, 2013: 423—**Holotype female (ANIC 417), rainforest litter, Mur Mur Ridge, Papua New Guinea (5°53'S, 144°4'E, 2450 m).

Malaconothrus talaitae **Colloff & Cameron, 2013: 330**—Holotype female (ANIC), moss (Dicranoloma billiardieri), Nothofagus cunninghami forest, The Beeches, Yarra Ranges National Park, Victoria, Austrialia (37°29'14"S, 145°49'59"E, 800 m).

Malaconothrus tidbinbilla **Colloff, 2013: 424**—Holotype female (ANIC, NAM 013), Hanging Rock, Tidbinbilla Nature Reserve, Australian Capital Territory, Austrialia (35°28'21"S, 148°54'55"E, 840 m).

Malaconothrus weigmanni **Colloff, 2013: 416**—Holotype female (ANIC 396), litter, rainforest, McAdam National Park Papua New Guinea (7°14'33"S, 146°36'30"E, 1250 m).

Tyrphonothrus gnammaensis **Colloff & Cameron, 2013: 307**—Holotype females (WAM), 2–4 cm-deep temporary rock pools on granite outcrop, Cable Beach, Torndirrup National Park, Australia (35°07'S, 117°54'E).

Tyrphonothrus gringai **Colloff & Cameron, 2013: 309**—Holotype females (ANIC 756), Moss on rock faces, Nothofagus and Eucalyptus forest, New South Wales, Australia (31°53'22"S, 151°32'17"E, 1180 m).

Tyrphonothrus kanaka **Colloff, 2013: 404**—Holotype female (ANIC 581), rainforest litter, Mt. Koghis, New Caledonia (22°11'S, 166°31'E, 450 m).

Tyrphonothrus kimberleyi **Colloff, 2013: 406**—Holotype female (ANIC), moss, Corin Forest, Namadji National Park, Australian Capital Territory, Austrilia (35°30'50"S, 148°55'08"E, 1250 m).

Tyrphonothrus maritimus **Colloff & Cameron, 2013: 313**—Holotype female (ANIC), moss, New South Wales, Australia (36°6'S, 150°48'E).

Tyrphonothrus papuensis **Colloff, 2013: 403**—Holotype female (ANIC 411), litter, rainforest, Yawasora, Papua New Guinea (50 m).

Tyrphonothrus seniczaki **Colloff, 2013: 408**—Holotype female (ANIC), Wet moss, Cumberland Memorial Scenic Reserve, Victoria, Austrialia (37º33'S, 145º52'E).

Tyrphonothrus taylori **Colloff & Cameron, 2013: 315**—Holotype female (ANIC 345) Rainforest, Mount Tiptree, Queensland, Austrilia (17°03'S, 145°38'E, 730 m).

Hyporder: **Brachypylina** (105 species)

Superfamily: **Hermannielloidea** (2 species)

Family: **Hermanniellidae** (2 species)

Hermannobates dilatatus **Ermilov, Sandmann, Marian & Maraun**, **2014: 315**—Holotype females (ZISP), upper organic soil layer Podocarpus National Park, Bombuscaro, Ecuador (4°70'S, 78°58'W, 1050 m).

Rhynchoribates longisetosus **Ermilov, Sandmann, Marian & Maraun**, **2014: 317**— Holotype female (ZISP), upper organic soil layer, Estación Científica San Francisco, Ecuador (3°58'S, 79°50'W, 2000 m).

Superfamily: **Plateremaeoidea** (7 species)

Family: **Aleurodamaeidae** (7 species)

Aleurodamaeus salvadordalii **Hugo-coetzee, 2013: 533**—Holotype (NMB 2032.2.1), grassland biome, in the Free State, Phuthaditjhaba district, Korfshoek farm, South Africa (28º28'S, 28º47'E).

Aleurodamaeus vicinus **Hugo-coetzee, 2013: 538**—Holotype (NMB 3737.9.1), sampled in the savanna biome, in an indigenous forest, KwaZulu-Natal at Cape Vidal State Forest, South Africa (28º02'S, 32º32'E).

Aleurodamaeus angelae **Hugo-coetzee, 2013: 541**—Holotype (NMB 3662.5.1), grassland biome from decomposed plant debris Eastern Cape, Cintsa, South Africa (32°48'S, 28°05'E).

Aleurodamaeus niedbalai **Hugo-coetzee, 2013: 545**—Holotype (NMB 3774.4.1), grassland biome, on a high mountain from soil under bushes, Eastern Cape, South Africa (30°45'S, 28°01'E).

Aleurodamaeus minutus **Hugo-coetzee, 2013: 547**—Holotype (NMB 4206.25.1), Fynbos biome in the Western Cape, Wilderness National Park, South Africa (34º00'S, 22º41'E).

Aleurodamaeus woasi **Hugo-coetzee, 2013: 550—**Holotype (NMB 3313.2.1), Fynbos biome in the Western Cape, South Africa (34º04'S, 18º49'E).

Aleurodamaeus prominens **Hugo-coetzee, 2013: 552—**Holotype (NMB 4580.1.1), Fynbos biome in the Western Cape, South Africa (33º58'S, 22º49'E).

Superfamily: **Damaeoidea** (1 species)

Family: **Damaeidae** (1 species)

Tectodamaeus heterotrichus **Ermilov & Anichkin**, **2014b: 15—**Holotype female (ZISP) from litter, Bi Dup—Nui Ba National Park, Da Lat Plateau in Lam Dong Province, Vietnam (12°11'04.11"N, 108°40'36.27"E, 1450–1530 m)

Superfamily: **Cepheoidea** (2 species)

Family: **Cerocepheidae** (2 species)

Dicrotegaeus mariehammerae **Ermilov & Minor, 2015: 758—**Holotype male (NZAC), in soil and debris, Central Otago, South Island, New Zealand (44°52'19"S, 169°10'30"E, 1880 m).

Dicrotegaeus incurvus **Ermilov & Minor, 2015c: 763—**Holotype female (NZAC), in soil and debris, Central Otago, South Island, New Zealand (45°18'58"S, 169°11'45"E, 1646 m).

Superfamily: **Ameroidea** (1 species)

Family: **Caleremaeidae** (1 species)

Epieremulus bidupensis **Ermilov & Anichkin**, **2014b: 26—**Holotype female (ZISP) from litter, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°11'03.38"N, 108°41'31.23"E, 1450–1530 m)

Superfamily: **Zetorchestoidea** (1 species)

Family: **Niphocepheidae** (1 species)

Niphocepheus neotrichus **Ermilov, Kalúz & Martens, 2014: 65—**Holotype male (ZISP), soil with litter in forest, Arunachal Pradesh, Hunli, India (28°19'32"N, 95°57'31"E, 1300 m).

Superfamily: **Carabodoidea** (8 species)

Family: **Carabodidae** (4 species)

Yoshiobodes (Dongnaiobodes) hexasetosus **Ermilov, Shtanchaeva, Subias & Anichkin, 2014: 403—**Holotype female (ZISP), nest of Black-and-red Broadbill (Cymbirhynchus macrorhynchos), Lagerstroemia forest, Dong Nai Biosphere Reserve, Dong Nai Province, Vietnam (11°25'N, 107°25'E).

Yoshiobodes (Dongnaiobodes) biconcavus **Ermilov, Shtanchaeva, Subias & Anichkin, 2014: 408—**Holotype both males (ZISP), Dipterocarp forest, soil, Dong Nai Culture and Nature Reserve, Dong Nai Province, Vietnam (11°18'N, 107°04'E).

Yoshiobodes (Yoshiobodes) neotrichorostralis **Ermilov, Shtanchaeva, Subias & Anichkin, 2014: 413—**Holotype female (ZISP), coniferous pine dominated forest, soil, Bi Dup–Nui Ba National Park, Lam Dong Province, Vietnam (12°11'N, 108°40'E).

Chistyakovella insolita **Ermilov, Aoki & Anichkin, 2013: 182—**Holotype male (ZISP), in dark loamy soil and sifted semi-decayed leaves with soil litter of *Lagerstroemia* forest, Dong Nai Biosphere Reserve, Vietnam (11°25–26'N, 107°25–26'E, 145 m).

Family: **Otocepheidae** (4 species)

Dolicheremaeus dwalteri **Ermilov & Anichkin, 2014c: 206—**Holotype female(ZISP), from litter (sifting) of Dipterocarp forest, Dong Nai Culture and Nature Reserve, Dong Nai Province, Vietnam (11°18'N, 107°04'E).

Dolicheremaeus donacunarensis **Ermilov & Anichkin, 2014c: 210—**Holotype female (ZISP), from litter (sifting) of pine plantation, Dong Nai Culture and Nature Reserve, Dong Nai Province, southern Vietnam (11°16'N, 107° 40'E).

Dolicheremaeus insolitus **Ermilov & Anichkin**, **2014b: 31—**Holotype female (ZISP) from soil, Bi Dup—Nui Ba National Park, Dong Province, Vietnam (12°11'04.11"N, 108°40'36.27"E, 1450–1530 m)

Fissicepheus striganovae **Ermilov & Anichkin**, **2014b: 36—**Holotype female (ZISP) from litter, Bi Dup—Nui Ba National Park, Lam Dong Province, Vietnam (12°11'03.29"N, 108°41'25.06"E, 1450–1530 m)

Superfamily: **Oppioidea** (22 species)

Family: **Autognetidae** (3 species)

Autogneta aokii **Behan-Pelletier**, **2015: 61—**Holotype male (CNC, 24201), Pygmy Forest Trail, Salt Point State Park, California, Sonoma Co., USA (38.570°N, 123.319°W).

Autogneta flaheyi **Behan-Pelletier, 2013: 65—**Holotype male (CNC, 24202), from bracket fungi on log; Vancouver Island, British Columbia, Canada (48.893°N, 124.368°W).

Autogneta schusteri **Behan-Pelletier, 2015: 71—**Holotype male (CNC, 24203), from redwood litter in riparian area, Angelo Coast Range Reserve, Mendocino Co., USA (39.728°N, 123.645°W).

Family: **Granuloppiidae** (2 species)

Hammerella (Woasella) parasufflata **Ermilov, Sandmann, Marian & Maraun, 2013b: 220—**Holotype (ZISP) upper organic soil layer in a mostly undisturbed rain forest, Estación Científica San Francisco, Ecuador (3°58'S, 79°50'W, 2000 m).

Hammerella (Hammerella) excisa **Ermilov & Kalúz, 2013: 488—**Holotype female (ZISP), soil, Hunli vicinity, Arunachal Pradesh, India (28°19'32"N, 95°57'31"E, 1300 m).

Family: **Machadobelbidae** (1 species)

Machadobelba longiciliata **Ermilov, Sandmann, Marian & Maraun, 2013a: 146—**Holotype male (ZISP), upper organic soil layer in mostly undisturbed rain forest, Podocarpus National Park, Bombuscaro, Ecuador (4°70'S, 78°58'W).

Family: **Oppiidae** (12 species)

Arcoppia (Wallworkoppia) minima **Ermilov, Rybalov & Hundama, 2014: 199—**Holotype female (ZISP) from litter (sifter), Ambo Plant Protection Research Center, Ethiopia (8º58'N, 37º51'E, 2077 m).

Brachioppia louwi **Hugo-Coetzee, 2014: 535—**Holotype female (NMB 3435.20.1) from soil and decomposed plant material, Golden Gate Highlands National Park, Free State province, South Africa (28º30'S, 28º37'E).

Brachioppiella (Brachioppiella) dawidi **Hugo-Coetzee, 2014: 538—**Holotype female (NMB 3435.19.1), from soil and decomposed plant material, in Golden Gate Highlands National Park, South Africa (28º30'S, 28º37'E).

Brachioppiella (Brachioppiella) goblina **Hugo-Coetzee, 2014: 541—**Holotype male (NMB 3462.27.1) from soil and decomposed plant material, Golden Gate Highlands National Park, South Africa (28º30'S, 28º37'E).

Cycloppia asetosa **Ermilov & Kalúz, 2013: 483—**Holotype female (ZISP), soil, Hunli vicinity, Arunachal Pradesh, India (28°19'32"N, 95°57'31"E, 1300 m).

Cycloppia spindleformis **Ermilov & Kalúz, 2013: 486—**Holotype male (ZISP), soil, Hunli vicinity, Arunachal Pradesh, India (28°19'32"N, 95°57'31"E, 1300 m).

Kokoppia mandelai **Hugo-Coetzee**, **2014: 543—**Holotype male (NMB 3454.5.1) from moist soil and decomposed plant, Golden Gate Highlands National Park, South Africa (28º30'S, 28º37'E).

Lanceoppia (Baioppia) trapezoides **Ermilov & Minor, 2015a: 189—**Holotype male (NZAC) in the soil and debris Central Otago, South Island, New Zealand (45°3'38"S, 168°48'43"E, 1867 m).

Lanceoppia (Lanceoppia) scytheae **Hugo-Coetzee, 2014: 545—**Holotype male (NMB 3472.9.1) from moist soil and decomposed plant material, Golden Gate Highlands National Park, South Africa (28º30'S, 28º37'E).

Oppiella (Quattoppiella) goldengatensis **Hugo-Coetzee, 2014: 549—**Holotype female (NMB 3442.12.1), from moist soil under Leucosidea plants, Golden Gate Highlands National Park, South Africa (28º30'S, 28º37'E).

Tripiloppia alpina **Ermilov & Minor**, **2015a: 186—**Holotype female(NZAC), in soil and debris, Central Otago, South Island, New Zealand (45°18'58"S, 169°11'45"E, 1646 m).

Tripiloppia frigida **Ermilov & Minor, 2015a: 182—**Holotype female (NZAC), in soil and debris, Central Otago, South Island, New Zealand (44°52'11"S, 169°10'9"E, 1797 m).

Family: **Sternoppiidae** (3 species)

Sternoppia paraincisa **Ermilov, Sandmann, Marian & Maraun, 2013c: 566—**Holotype male (ZISP), upper organic soil layer in rain forest, Podocarpus National Park, Bombuscaro, Ecuador (4°70'S, 78°58'W, 1050 m).

Sternoppia paramirabilis **Ermilov, Sandmann, Marian & Maraun, 2013c: 569—**Holotype female (ZISP), upper organic soil layer in rain forest, Podocarpus National Park, Bombuscaro, Ecuador (4°70'S, 78°58'W, 1050 m).

Sternoppia fissurata **Ermilov, Sandmann, Marian & Maraun, 2013c: 572—**Holotype male (ZISP), upper organic soil layer in rain forest, Podocarpus National Park, Bombuscaro, Ecuador (4°70'S, 78°58'W, 1050 m).

Family: **Thyrisomidae** (1 species)

Pantelozetes unitjumeniensis **Ermilov, Salavatulin & Tolstikov, 2015: 53**—Holotype male (ZISP), soil litter and mosses, mixed forest, Maksimikha, near Lake Baikal, Siberia, Russia (53°16'34"N, 108°41'39"E).

Superfamily: **Trizetoidea** (5 species)

Family: **Suctobelbidae** (5 species)

Allosuctobelba vietnamensis **Ermilov & Anichkin, 2014b: 21—**Holotype male (ZISP), from soil, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°10'49.16"N, 108°41'01.52"E, 1450–1530 m).

Suctobelbata bituberculata **Ermilov & Anichkin**, **2013b: 228—**Holotype (ZISP), litter, regularly spaced plantation, Dong Nai Biosphere Reserve, Dong Nai Province, Vietnam (11°23'N, 107°22'E).

Suctobelbella triangulata **Liu & Wu**, **2013: 131—**Holotype (NIGA, LD-10-270), from litter, Bawusan Farm, Baoqing County, Shuangyashan City, Heilongjiang Province, China (46°30'30.76"N, 133°15'18.00"E, 142 m).

Suctobelbella obtusa **Liu & Wu**, **2013: 132—** Holotype adult (NIGA, LD-10-86), from litter, Honghe Nature Reserve, Tongjiang County, Jiamusi City, Heilongjiang Province, China (47°47'37.24"N, 133°41'9.92"E, 25 m).

Suctobelbella sanjiangensis **Liu & Wu**, **2013: 135—**Holotype adult (NIGA, LD-10-124), from litter, Fuyuan County, Jiamusi City, Heilongjiang Province, China (48°21'41.52"N, 134°17'10.52"E, 87 m).

Superfamily: **Tectocepheoidea** (1 species)

Family: **Tegeocranellidae** (1 species)

Tegeocranellus martinezi **Ermilov & Anichkin**, **2014b: 40—**Holotype female (ZISP) from litter, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°11'03.38"N, 108°41'31.23"E, 1450–1530 m).

Superfamily: **Ameronothroidea** (4 species)

Family: **Fortuyniidae** (4 species)

Alismobates pseudoreticulatus **Pfingstl**, **2015b: 366—**Holotype male (NHMW 27.593), algae growing on rocks, Pulau Ubin, Singapore.

Fortuynia maledivensis **Pfingstl**, **2015b: 353—**Holotype female (NHMW 27.590), calcareous algae; Island of Villingili, Malé atoll, Maldives.

Fortuynia longiseta **Pfingstl**, **2013b: 357—**Holotype male (NHMW 27.593), calcareous algae; Island of Villingili, Malé atoll, Maldives.

Fortuynia dimorpha **Pfingstl, 2015a: 568—**Holotype male (NHMW 27595), intertidal rock sample taken in front of University of San Carlos Research Station, Maribago on Mactan Island, Philippines (10º17'10"N, 124º00'01"E).

Superfamily: **Achipterioidea** (5 species)

Family: **Achipteriidae** (3 species)

Anachipteria svetlanae **Ermilov & Anichkin**, **2014b: 45—**Holotype female (ZISP), from litter, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°11'03.29"N, 108°41'25.06"E, 1450–1530 m)

Campachipteria brevisetosa **Ermilov, Sandmann, Marian & Maraun, 2013a: 149—**Holotype male(ZISP), upper organic soil layer in rain forest, Podocarpus National Park, Bombuscaro, Southern Ecuador (4°70'S, 78°58'W, 1050 m).

Plakoribates asiaticus **Ermilov & Anichkin, 2013a: 138—**Holotype male (ZISP), ferns and club-mosses on stones, Dong Nai Biosphere Reserve, Dong Nai Province, Vietnam (11°26'N, 107°26'E).

Family: **Epactozetidae** (1 species)

Truncozetes paraecuadoriensis **Ermilov, Alvarado-Rodríguez & Retana-Salazar, 2015: 274—**Holotype male (ZISP), in leaf litter in secondary forest, Jardín Botánico Lankester, Paraíso, Dulce Nombre, Cartago, Costa Rica (9º50'24"N, 83º53'17"W, 1400 m).

Familia: **Tegoribatidae** (1 species)

Lepidozetes bavaricus **Weigmann, 2013: 497—**Holotype (SMF), Valley of river Altmühl in Bavaria, near Obereichstätt, Germany (11°07'55.2"E, 48°53'45.6"N).

Superfamily: **Oribatelloidea** (5 species)

Family: **Oribatellidae** (5 species)

Fenestrobates marauni **Ermilov & Behan-Pelletier**, **2014: 261—**Holotype (ZISP), upper organic soil layer in rain forest, Cajanuma, Podocarpus National Park, Ecuador (4°60'S, 78°58'–79°10'W, 3000 m).

Joelia appalachia **Behan-pelletier, 2013: 265—**Holotype female (CNC, 24129), from deciduous litter, rotten wood, moss and substrate, Hills Creek Falls area, Pocahontas Co., Virginia.

Tectoribates alcescampestris **Behan-pelletier & Walter, 2013: 463—**Holotype female (CNC 24148), aspen litter under snow, Moose Pasture, Lamont Co., Alberta, Canada (53°39'15"N, 112°45'46"W).

Tectoribates borealis **Behan-pelletier & Walter, 2013: 469—**Holotype female (CNC, 24149), from soil, Cypress Hills, Provincial Park, Alberta, Canada.

Tectoribates campestris **Behan-pelletier & Walter, 2013: 479—**Holotype female (CNC, 24150), from rocky slope, Konza LTER, Kansas, USA (39°4.78'N, 96°35.847'W).

Superfamily: **Oripodoidea** (14 species)

Family: **Haplozetidae** (6 species)

Baloghiella foveolata **Akrami & Ebrahimi, 2013: 397—**Holotype (SUI), from soil and litter of pasture, Fars province, Iran (29º21'N, 52º48'E, 1491 m).

Haplozetes biheterodactylus **Ermilov & Tolstikov, 2015: 636—**Holotype male (SMF), from soil litter, Rio de Janeiro, Brazil (22°57'S, 43°09'W, 91 m).

Indoribates (Indoribates) bicarinatus **Ermilov & Anichkin**, **2014b: 51—**Holotype female (ZISP) from soil, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°10'48.13"N, 108°40'59.74"E, 1450–1530 m).

Peloribates tatyanae **Ermilov & Anichkin**, **2014b: 56—**Holotype female (ZISP), from litter, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°11'03.38"N, 108°41'31.23"E).

Protoribates lemensis **Ermilov & Tolstikov, 2015: 631—**Holotype female (SMF, Braz-2014–3), from soil litter, Rio de Janeiro, Brazil (22°57'S, 43°09'W, 91 m).

Protoribates haughlandae **Walter & Latonas, 2013: 486—**Holotype female (PMAE.IZ), from organic layer in rich fen, Wood Buffalo National Park, Canada (54°41'12"N, 115°33'22"W).

Family: **Mochlozetidae** (1 species)

Uracrobates (Parauracrobates) truncatus **Ermilov & Martens, 2015: 189—**Holotype male (SMF) from soil of secondary forest, Lamjung District, Nepal (1200 m).

Family: **Oribatulidae** (1 species)

Zygoribatula josefstaryi **Ermilov & Rybalov, 2013: 76—**Holotype, female (ZISP), moorland; Senetti Plateau, Bale Mountain National Park, Ethiopia (6º51'N, 39º53'E, 4077 m).

Family: **Parakalummidae** (3 species)

***Neoribates (Neoribates) monodactylus* Ermilov & Anichkin, 2014b: 61—**Holotype female (ZISP) from soil, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, southern Vietnam (12°10'48.13"N, 108°40'59.74"E).

***Neoribates (Pseudoneoribates) negrosensis* Ermilov & Corpuz-Raros, 2015a: 225—**Holotype male (ZISP), in litter from forest, Negros Oriental, Sibulan, Mahilog, Negros Island, Philippines.

***Neoribates (Pseudoneoribates) kontschani* Ermilov & Corpuz-Raros, 2015a: 231—**Holotype male (ZISP), in litter from mixed swamp forest, Agusan del Sur Province, Panlabuhan, Mindanao Island, Philippines.

Family: **Scheloribatidae** (3 species)

***Perscheloribates (Perscheloribates) paraluminosus* Ermilov, Alvarado-Rodríguez, Tolstikov & Retana-Salazar, 2015: 400—**Holotype female (SMF), in leaf litter in secondary forest, Dulce Nombre, Cartago, Costa Rica, (9º50'24"N, 83º53'17"W, 1400 m).

***Scheloribates (Bischeloribates) lizelhugoae* Ermilov & Rybalov, 2013: 73—**Holotype male (ZISP), litter and soil, afrotropical (afroalpine), moorland Senetti Plateau, Bale Mountain National Park, Ethiopia (6º51'N, 39º53'E, 4077 m).

***Scheloribates (Scheloribates) costaricensis* Ermilov, Alvarado-Rodríguez, Tolstikov & Retana-Salazar, 2015: 400—**Holotype female (SMF), in leaf litter Dulce Nombre, Cartago, Costa Rica, (9º50'24"N, 83º53'17"W, 1400 m).

Superfamily: **Ceratozetoidea** (7 species)

Family: **Ceratozetidae** (2 species)

***Magellozetes crassisetosus* Ermilov & Minor, 2015b: 908—**Holotype female (NZAC), in soil and debris, Pisa Range, Central Otago, South Island, New Zealand (44°52'3"S,169°9'3"E, 1700 m).

***Pedunculozetes ovatum* Ermilov & Minor, 2015b: 913**—Holotype female(NZAC), in the soil, Pisa Range, Central Otago, South Island, New Zealand (44°52'3"S,169°9'3"E, 1700 m).

Family: **Maudheimiidae** (1 species)

***Zealandozetes southensis* Ermilov, Minor & Behan-Pelletier, 2015: 43—**Holotype female (NZAC), in the soil and debris, Central Otago, South Island, New Zealand (45°3'38"S, 168°48'43"E, 1867 m).

Family: **Mycobatidae** (4 species)

***Afroleius amieae* Coetzee, 2014: 561—**Holotype male (NMB, 1768.15.1), litter underneath shrubs, Edenville, South Africa (27°29'S, 27°42'E).

***Afroleius inae* Coetzee, 2014: 564—**Holotype female (NMB, 1930.7.1), litter underneath dense indigenous shrubs, Ballito, KwaZulu-Natal, South Africa (29°31'S, 31°13'E).

***Afroleius lucidus* Coetzee, 2015: 390—**Holotype female (NMB, 2088.6.1), litter underneath tree in the grassland biome, Cradock, Eastern Cape Province, South Africa (32°11'S, 25°37'E).

***Afroleius valerieae* Coetzee, 2014: 568—**Holotype female (NMB, 2127.8.1) litter underneath dense shrubs, Makhado, Limpopo province, South Africa (23°02'S, 30°06'E).

Superfamily: **Galumnoidea** (20 species)

Family: **Galumnidae** (20 species)

***Allogalumna (Allogalumna) paramachadoi* Ermilov & Anichkin, 2014b: 66—**Holotype female (ZISP) from soil, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, southern Vietnam (12°10'48.13"N, 108°40'59.74"E).

***Allogalumna ampla* Ermilov, Starý, Sandmann, Marian & Maraun, 2013: 263—**Holotype female (ZISP), upper organic soil layer, Podocarpus National Park, Bombuscaro, Southern Ecuador (4°70'S, 78°58'W, 1050 m).

***Carinogalumna alineata* Ermilov & Martens, 2014: 467—**Holotype male (SMF), from soil,village Yamputhin, Taplejung District, eastern Nepal (27°60'N, 87°79'E, 1650–1800 m).

***Carinogalumna philippinensis* Ermilov & Corpuz-Raros, 2015c: 518—**Holotype male (ZISP), in soil, Mount Makiling, Luzon Island, Philippines.

***Dimidiogalumna grandjeani* Ermilov & Anichkin**, **2014a: 68—**Holotype female (ZISP); Lagerstroemia forest, Dong Nai Biosphere Reserve, Dong Nai Province, southern Vietnam, (11°25'N,107°25'E).

***Galumna (Cosmogalumna) dongnaiensis* Ermilov & Anichkin**, **2013c: 81—**Holotype (ZISP), soil from pine plantation, Dong Nai Culture and Nature Reserve at two plantations, Dong Nai Province, Southern Vietnam (11°16'N, 107°40'E).

***Galumna (Cosmogalumna) vladopesici* Ermilov & Corpuz-Raros, 2015c: 512—**Holotype female (ZISP), in the mosses, Mount Makiling, Luzon Island, Philippines, 700–900 m.

***Galumna (Galumna) paraoctopunctata* Ermilov, Alvarado-Rodríguez & Retana-Salazar, 2015: 278—**Holotype male (ZISP), in leaf litter Dulce Nombre, Cartago, Costa Rica (9º50'24"N, 83º53'17"W, 1400 m).

***Galumna (Neogalumna) longilineata* Ermilov & Anichkin**, **2014b: 72—**Holotype female (ZISP) from soil, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°10'49.16"N, 108°41'01.52"E).

***Galumna (Neogalumna) tolstikovi* Ermilov & Anichkin**, **2014b: 77—**Holotype female (ZISP) from soil, Bi Dup—Nui Ba National Park, Da Lat Plateau, Lam Dong Province, Vietnam (12°11'04.11"N, 108°40'36.27"E).

***Galumna miniporosa* Ermilov, Starý, Sandmann, Marian & Maraun, 2013: 265—**Holotype male (ZISP), upper organic soil layer, Estación Científica San Francisco, Southern Ecuador (3°58'S, 79°50'W, 2000 m).

***Mirogalumna leytensis* Ermilov & Corpuz-raros 2015: 557—**Holotype female (SMF), in leaf litter of mahogany Mt. Makiling, Mudspring area, Luzon Island, Philippines.

***Neoctenogalumna (Paractenogalumna) longiciliata* Ermilov, Starý, Sandmann, Marian & Maraun, 2013: 261—**Holotype male (ZISP), upper organic soil layer , Estación Científica San Francisco, Ecuador (3°58'S, 79°50'W, 2000 m).

***Pergalumna asetosa* Ermilov, Shtanchaeva, Kalúz & Subías, 2013: 415—**Holotype female(ZISP) Hunli vicinity, Arunachal Pradesh, India (28°19'32"N, 95°57'31"E, 1300 m).

***Pergalumna mahunkai* Ermilov, Shtanchaeva, Kalúz & Subías, 2013: 417**—Holotype male (ZISP), leaf debris underneath shrubs, Maharanipur, Tripura, India.

***Pergalumna minituberculata* Ermilov & Martens**, **2014: 463—**Holotype male (SMF), from soil, village Yamputhin, Taplejung District, Nepal (27°60'N, 87°79'E, 1650–1800 m).

***Pergalumna ornamenta* Ermilov, Starý, Sandmann, Marian & Maraun 2013: 267—**Holotype male (ZISP), upper organic soil layer Estación Científica San Francisco, Southern Ecuador (3°58'S, 79°50'W, 2000 m).

***Pergalumna panayensis* Ermilov & Corpuz-raros, 2015b: 561—**Holotype female (SMF), in leaf litter, Mt. Makiling, Luzon Island, Philippines (700–900 m).

***Pergalumna paratsurusakii* Ermilov, Shtanchaeva, Kalúz & Subías, 2013: 413—**Holotype female (ZISP), Hunli vicinity, Arunachal Pradesh, India (28°19'32"N, 95°57'31"E, 1300 m).

***Setogalumna luzonica* Ermilov & Corpuz-Raros, 2015c: 522—**Holotype male (ZISP), in litter Mount Makiling, Luzon Island, Philippines.

Hyperorder: **Astigmata** (50 species)

Superfamily: **Sarcoptoidea** (8 species)

Family **Psoroptidae** (2 species)

***Paracoroptes miopithecus* Bochkov & Grootaert, 2014: 226**—Holotype male (IRSNB), from *Miopithecus talapoin* (Primates: Cercopithecidae), host originated from the Democratic Republic of the Congo.

***Paracoroptes piliocolobus* Bochkov & Grootaert, 2014: 231—**Holotype male (IRSNB), from *Piliocolobus badius* (Primates: Cercopithecidae), the Democratic Republic of the Congo.

Family: **Listropsoralgidae** (6 species)

***Didelphialges metachirus* Bochkov, Oconnor & Grootaert, 2013: 67—**Holotype male (UMMZ, BMOC 86-0408-026), from *Metachirus nudicaudatus*, opposite Salvacion, Hacienda Erica, Rio Alto Madre de Dios, Peru.

***Listropsoralges brevisetosus* Bochkov, Oconnor & Grootaert, 2013: 39—**Holotype female (UMMZ, BMOC 06-0926-003, #1-3), from *Marmosa murina*, San Juan Bautista, Maynas, Loreto, Peru (03°54'24"S, 73°22'02"W, 120 m).

***Listropsoralges caenolestes* Bochkov, Oconnor & Grootaert, 2013: 26—**Holotype female (UMMZ, BMOC 81-0129-013, #1-5), from *Caenolestes fuliginosus*, Napo Province, Ecuador.

***Listropsoralges similis* Bochkov, Oconnor & Grootaert, 2013: 19—**Holotype female (IRSNB) from *Caluromy derbianus*, Capira, Aguacate, Panama Province, Panama (08°48′S, 79°51′W).

***Listropsoralges thylamys* Bochkov, Oconnor & Grootaert, 2013: 24—**Holotype male (UMMZ, BMOC 81-0128-002), from *Thylamys venustus* , Fabrica de Papel, Tarija, Bolivia (980 m).

***Listropsoralges vossi* Bochkov, Oconnor & Grootaert, 2013: 35—**Holotype male (IRSNB), from *Monodelphis domestica*, Pernambuco State, Brazil.

Superfamily: **Pterolichoidea** (12 species)

Family: **Pterolichidae** (12 species)

***Aniacarus ani* Mironov, Hernandes & A. Pedroso, 2015: 107—**Holotype male (DZUNESP-RC #2308), from *Crotophaga ani* (Cuculiformes: Cuculidae), Pedreira, São Paulo State, Brazil (22°44'S, 46°54'W).

***Aniacarus coronatus* Mironov, Hernandes & A. Pedroso, 2015: 117—**Holotype male (DZUNESP-RC #2366), from *Guira guira* (Cuculiformes: Cuculidae), Universidade Estadual de Campinas, São Paulo State, Brazil (22°50'S, 47°02'W).

***Aniacarus robustus* Mironov, Hernandes & A. Pedroso, 2015: 114—**Holotype male (DZUNESP-RC #2350), from *Gui Cuckoo* (Cuculiformes: Cuculidae), Rodovia SP-340, Campinas, São Paulo State, Brazil (22°50'S, 47°02'W).

***Aniacarus simplex* Mironov, Hernandes & A. Pedroso, 2015: 111—**Holotype male (DZUNESP-RC #2334), from *Guira guira* (Cuculiformes: Cuculidae), Universidade Estadual de Campinas (UNICAMP), Campinas, São Paulo State, Brazil (22°49'S, 47°04'W).

***Aniibius guirae* Mironov, Hernandes & A. Pedroso, 2015: 121—**Holotype male (DZUNESP-RC # 2373), from *Guira guira* (Cuculidae), Universidade Estadual de Campinas (UNICAMP), Campinas, São Paulo State, Brazil (22°50'S, 47°02'W).

***Ciganalichus boasfilhoi* Hernandes & Mironov, 2015: 425—**Holotype male (DZUNESP-RC #3146), from *Opisthocomus hoazin* (Opisthocomiformes: Opisthocomidae), Santana do Araguaia, Fazenda Fartura, Pará State, Brazil (09°40′S, 50°23'W).

***Hoazinacarus anisosetus* Hernandes & Mironov, 2015: 430—**Holotype male (DZUNESP-RC #3184), from *Opisthocomus hoazin* (Opisthocomiformes: Opisthocomidae), Santana do Araguaia, Fazenda Fartura, Pará State, Brazil (09°40′S, 50°23'W).

***Protolichus lorinus* Mironov, Ehrnsberger & Dabert, 2014: 141—**Holotype male (AMU 01754), from *Lorius lory erythrothorax,* New Guinea.

***Protolichus ornatus* Mironov, Ehrnsberger &Dabert, 2014: 133—**Holotype male (AMU), museum dry skins from lories and lorikeets (Aves: Psittaciformes) preserved in the Übersee Museum, Bremen, Germany.

***Protolichus placentis* Mironov, Ehrnsberger & Dabert, 2014: 137—**Holotype male (AMU 01752), from *Charmosyna placentis*, Obi Archipelago, Indonesia.

***Protolichus pulchellae* Mironov, Ehrnsberger & Dabert, 2014: 141—**Holotype male, (AMU 01753), from *Charmosyna pulchella*, New Guinea.

***Protolichus rubiginosus* Mironov, Ehrnsberger & Dabert, 2014: 141—**Holotype male (MNHN 34F2), from *Trichoglossus rubiginosus*, Ile Puynipet, Micronesia[1].

Superfamily: **Analgoidea** (30 species)

Family: **Avenzoariidae** (1 species)

***Zachvatkinia (Zachvatkinia) repressae* Negm, Nasser, Alatawi, Ahmad & Shobrak, 2013: 63—**Holotype male (KSMA), from *Sterna repressa* (Charadriiformes: Sternidae), Jana Island, Arabian Gulf, Saudi Arabia (27º22'10"N, 49º53'53"E).

1. No other details are available in the orginal reference, except "Ile Puynipet" (Mironov *et al.* 2014). We checked the website (http://www.geographic.org/) and found that Ile Puynipet is part of the Federated States of Micronesia.

Family: **Dermationidae** (9 species)

***Neodermation actitis* Bochkov & Mironov, 2015: 614**—Holotype male (ZISP 6044), from *Actitis hypoleucos* (Charadriiformes: Scolopacidae) skin, Margaritovka stream, Olga District, Primorye, Far East, Russia (43°21'16"N, 134°47'54"E).

***Passeroptes aegithalos* Mu, Kuang, Liu & wang, 2015: 63**—Holotype male (IOZ (E) 227743), from *Aegithalos iouschistos bonvaloti* (Passeriformes: Aegithalidae), Dujiangyan, Sichuan, China (31°03'38.35"N, 103°33'21.84"E).

***Passeroptes cyanodermae* Mu, Kuang, Liu & wang, 2015: 59**—Holotype male (IOZ(E) 227741), from *Cyanoderma ruficeps* (Passeriformes: Timaliidae), Dujiangyan, Sichuan, China (31°03'38.35"N, 103°33'21.84"E).

***Passeroptes formosus* Wang, Mu, Su & Liu, 2014: 88**—Holotype male (SUC), from *Garrulax formosus formosus* (Passeriformes: Timaliidae), Guiyang, Guizhou, China (26°56'04"N, 106°44'17"E).

***Passeroptes lioparis* Mu, Kuang, Liu & wang, 2015: 55**—Holotype male (IOZ (E) 227739), from *Lioparus chrysotis* (Passeriformes: Paradoxornithidae), Yunnan, China (24°52'48"N, 102°49'51"E).

***Passeroptes motacillae* Mu, Kuang, Liu & wang, 2015: 57**—Holotype male (IOZ (E) 227740), from *Motacilla cinerea* (Passeriformes: Motacillidae), Dujiangyan, Sichuan, China (31°03'38.35"N, 103°33'21.84"E).

***Passeroptes periparus* Mu, Kuang, Liu & wang, 2015: 61**—Holotype male (IOZ (E) 227742), from *Periparus ater* (Passeriformes: Paridae), Dujiangyan, Sichuan, China (31°03'38.35"N, 103°33'21.84"E).

***Passeroptes picae* Wang, Mu, Su & Liu, 2014: 92**—Holotype male (SUC), from *Pica pica sericea* (Passeriformes: Corvidae), Luoyang, Henan, China (34°8'21"N, 111°55'34"E).

***Passeroptes poecilorhynchus* Wang, Mu, Su & Liu, 2014: 91**—Holotype male (SUC), from *Garrulax poecilorhynchus berthemyi* (Passeriformes: Timaliidae), Guiyang, Guizhou, China (26°56'04"N, 106°44'17"E).

Family: **Proctophyllodidae** (4 species)

***Allodectes sejugaspis* Hernandes, 2013: 564**—Holotype male (DZUnesp-RC), from *Thalurania glaucopis* (Trochilidae), Reserva "Bicudinho-do-brejo", Guaratuba, Paraná, Brazil (25º45'23.1"S, 48º43'35.2"W).

***Allodectes thaluraniae* Hernandes, 2013: 568**—Holotype male (DZUnesp-RC), from *Thalurania glaucopis* (Trochilidae), Reserva "Bicudinho-do-brejo", Guaratuba, Paraná, Brazil (25º45'23.1"S, 48º43'35.2"W).

***Lamellodectes distinctus* Hernandes & Valim, 2014: 186**—Holotype male (MNRJ), from *Sporophila caerulescens* (Passeriformes, Emberizidae), Paraná, Guaratuba, Reserva Bicudinho-do-Brejo, Brazil (25º45'28.7"S, 48º43'24.6"W).

***Trochilodectes brevipenis* Hernandes, 2013: 572**—Holotype male (DZUnesp-RC), *Thalurania glaucopis* (Trochilidae), Reserva "Bicudinho-do-brejo", Guaratuba, Paraná, Brazil (25º45'23.1"S, 48º43'35.2"W).

Family: **Psoroptoididae** (2 species)

***Temnalges atelodiscus* Hernandes & Mironov, 2015: 419**—Holotype male (DZUNESP-RC #3141), from *Opisthocomus hoazin* (Opisthocomiformes: Opisthocomidae), Santana do Araguaia, Fazenda Fartura, Pará State, Brazil (09°40′S, 50°23'W).

***Temnalges hoazin* Hernandes & Mironov, 2015: 416**—Holotype male (DZUNESP-RC #3126), from *Opisthocomus hoazin* (Opisthocomiformes: Opisthocomidae), Santana do Araguaia, Fazenda Fartura, Pará State, Brazil (09°40′S, 50°23'W).

Family: **Pteronyssidae** (2 species)

***Pteroherpus meghalayensis Constantinescu* Constantinescu, Chişamera, Mukhim & Adam, 2014: 359**—Holotype male (MGAB, ANA084), from *Hemixos flavala* (Passeriformes: Pycnonotidae), the ion of Khahnar village, East Jaintia Hills District, Meghalaya, India (25°21'57.30"N, 92°36'51.72"E).

***Timalinyssus actinodurae Constantinescu* Constantinescu, Chişamera, Mukhim & Adam**, **2014: 352**—Holotype male (MGAB, ANA091), from *Hemixos flavala* (Passeriformes: Pycnonotidae); the region of Khahnar village, East Jaintia Hills District, Meghalaya, India (25°21'57.30"N, 92°36'51.72"E).

Family: **Trouessartiidae** (7 species)

***Neocalcealges chrysotis* Wang & Proctor, 2015: 571—**Holotype male (IOZ(E) 227735), from the Golden-breasted *Fulvetta lioparus chrysotis* (Passeriformes: Paradoxornithidae), Dujiangyan, Sichuan, China (31°14′21"N, 103°35′14"E).

***Neocalcealges davidi* Wang & Proctor, 2015: 569—**Holotype male (IOZ(E) 227734), from *Alcippe davidi* (Passeriformes: Leiothrichidae), Dujiangyan, Sichuan, China (31°14′07"N, 103°35′164).

***Trouessartia basileuteri* Hernandes, 2014: 59—**Holotype male (DZUnesp-RC), from *Basileuterus culicivorus*, Paraná, Guaratuba, Brazil (25º45'S, 48º43'W).

***Trouessartia latiducta* Hernandes, 2014: 51—**Holotype male (DZUnesp-RC), from *Phylloscartes kronei*, Paraná, Guaratuba, Brazil (25º45'S, 48º43'W).

***Trouessartia picumni* Hernandes, 2014: 67—**Holotype male (DZUnesp-RC), from *Picumnus fulvescens*, Macaíba, Rio Grande do Norte, Brizal (5°53'S, 35°23'W).

***Trouessartia savanae* Hernandes, 2014: 63—**Holotype male (DZUnesp-RC), from *Tyrannus savana*, Parque Alvorada, Brasília, Distrito Federal, Brazil (15°47'S, 47°50'W).

***Trouessartia sicaliae* Hernandes, 2014: 55—**Holotype male (DZUnesp-RC), from *Sicalis flaveola*, Paraná, Guaratuba, Brazil (25º45'S, 48º43'W).

Family: **Xolalgidae** (5 species)

***Gymnalloptes lacrimosus* Hernandes & Mironov, 2015: 404—**Holotype male (DZUNESP-RC #3105), from *Opisthocomus hoazin* (Opisthocomiformes: Opisthocomidae), Santana do Araguaia, Fazenda Fartura, Pará State, Brazil (09°40′S, 50°23'W).

***Gymnalloptes latihumeralis* Hernandes & Mironov, 2015: 409—**Holotype male (DZUNESP-RC #3120) from *Opisthocomus hoazin* (Opisthocomiformes: Opisthocomidae), Santana do Araguaia, Fazenda Fartura, Pará State, Brazil (09°40′S, 50°23'W).

***Ingrassia calonectris* Stefan, Gómez-díaz & Mironov, 2013: 107—**Holotype male (ZISP 5032), from *Clintonia borealis* Cory (Procellariidae), Azores Archipelago, Portugal.

***Ingrassia micronota* Stefan, Gómez-díaz & Mironov, 2013: 110—**Holotype male (ZISP 5042), from *Bulweria bulwerii* (Procellariidae), Cape Verde Archipelago, Raso Island, Cape Verde.

***Opetiopoda bulweriae* Stefan, Gómez-díaz & Mironov, 2013: 114—**Holotype male (ZISP 5030), from *Bulweria bulwerii* (Procellariidae), Montaña Clara, Lanzarote, Canary Islands, Spain.

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