

## Acarorum Catalogus I – First supplement (2008–2016)

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**Abstract.** The monograph of BERON (2008) is completed with the data in 166 papers published between 2008 and 2016 (some of them in 2017), or omitted. Many new taxa have been published, other taxa have been synonymized or altered, mostly by specialists from Germany, Poland, Iran, Spain, Montenegro, Ukraine, Bulgaria, and other countries. Now (by August 2017) are recognized (some of them gen. or sp. inquire.) one genus and nine recent sp. of Calyptostomatidae, 10 genera and 56 sp. of Smarididae and 57 genera and more than 850 sp. of Erythraeidae.

**Key words:** Catalogus, supplements, Calyptostomatoidea, Calyptostomatidae, Erythraeidea, Erythraeidae, Smarididae

### Introduction

After the publication of the first volume of the series *Acarorum Catalogus* (BERON, 2008), many new papers have been published by R. Haitlinger, P. Beron, J. Mąkol, G. Gabryś, M. Kamran, J. Łaydanowicz, A. Wohltmann, J.G. Mayoral, P. Barranco, M. Šundić, A. Khaustov and especially by the very active Iranian group of researchers (A. Saboori, S. Ahmadi, H. Hajiqanbar, M. Khanjani, M. Akrami, M. Bagheri, M. Hakimitabar and others). New genera and species have been described (almost all based on larvae, mostly from Iran, Montenegro and Spain), several other taxonomic changes took place and new synonymes were created. A few papers have been omitted from the Bibliography. This situation requires an updating of my Catalogue. Meanwhile has been published the Checklist of terrestrial Parasitengonae of MĄKOL & WOHLTMANN (2012, 2013).

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New genera (valid), described since 2008, or altered:

*Colleboerythraeus* Noei, Saboori et Hakimitabar, 2017

*Makolia* Saboori, Khaustov et Hakimitabar, 2009

*Iraniella* Karimi- Iravanlou, Kamali et Talebi, 2002

*Neomomorangia* Fain et Santiago-Blay – full generic status

*Madinahustium* Kamran et Alatawi, 2016

*Marantelophus* Haitlinger, 2011

*Monteustium* Haitlinger et Šundić, 2015

*Nagoricanelia* Haitlinger, 2009

*Pukakia* Clark, 2014

*Pararainbowia* Dunlop, 2010

Synonymized genera (partly as a result of rearing of larvae):

*Zhangiella* Saboori, Cobanoglu et Bayram, 2007, syn. f. *Curteria* Southcott, 1961

*Abalakeus* Southcott, 1994 = *Eatoniana* Cambridge, 1898

*Hauptmannia* Oudemans, 1910 = *Abrolophus* Berlese, 1891

*Clipeosoma* Southcott, 1948 = *Hirstiosoma* Womersley, 1934

*Pilosoma* Southcott, 1961 = *Fessonina* von Heyden, 1826

*Guatustium* Haitlinger, 2000 = *Balaustium* von Heyden, 1826

*Palenquustium* Haitlinger, 2000 = *Balaustium* von Heyden, 1826

As a result of the recent contributions, the number of genera and species in Calyptostomatoidea and Erythraeidea (some of them uncertain status) is updated as follows:

**Calyptostomatidae** – one genus, nine sp.

**Smarididae** – 10 genera, 56 sp.

**Erythraeidae** – 57 genera, more than 850 sp.

**New contributions to the Catalogue:**

**Fam. Calyptostomatidae**

*Calyptostoma giuliae* Haitlinger et Šundić (larval)

*Calyptostoma giuliae* HAITLINGER & ŠUNDIĆ, 2015: 920

Type locality: Cambodia

Distribution: Cambodia

Host: from herbaceous plants

*Calyptostoma gorganica* Saboori et Soukhtsaraii, in SABOORI, SOUKHTSARAII, YAZDANIAN, GOLPAYEGANI (2012)(larval)

*Calyptostoma gorganica* Saboori et Soukhtsaraii, in SABOORI, SOUKHTSARAII, YAZDANIAN & GOLPAYEGANI, 2012: 37

Type locality: Shast Kalateh forest, Gorgan City, Golestan prov.

Distribution: Iran

Host: *Limonia caucasica* (Diptera: Tipulidae)

*Calyptostoma marantica* Haitlinger et Šundić (larval)

*Calyptostoma marantica* HAITLINGER & ŠUNDIĆ, 2015: 923

Type locality: Sulawesi

Distribution: Indonesia

Host: from herbaceous plants

*Calyptostoma latisetata* (Shiba, 1976) – New Caledonia, Tasmania (MAKOL & WOHLTMANN, 2013)

*Calyptostoma velutinum* (Müller, 1776) – Montenegro (ŠUNDIĆ & HAITLINGER, 2015: 188); Serbia, Sicily (HAITLINGER & ŠUNDIĆ, 2015)

**Species inquirendae** (see MAKOL & WOHLTMANN, 2013):

*Calyptostoma exculpta* (Berlese, 1916)

*Calyptostoma neoguineana* (Canestrini, 1897)

**Fam. Smarididae**

**Smaridinae**

*Smaris maraghehiensis* Saboori et Bagheri (ad.)

*Smaris maraghehiensis* SABOORI & BAGHERI, 2011: 105

Type locality: Maragheh, 1450 m, East Azarbaijan Province

Distribution: Iran

**Hirstiosomatinae**

*Hirstiosoma latreillei* (Grandjean, 1947)

(syn. *Clipeosoma jupiter* Southcott, 1948) – Finland (GABRYŚ, ROLAND, MAKOL & LEHTINEN, 2009); Iran (NOEI, SABOORI, etc., 2013)

*Hirstiosoma amfilohije* Haitlinger et Šundić (larval)

*Hirstiosoma amfilohije* HAITLINGER & ŠUNDIĆ, 2017: 1411

Type locality: Korita Kučka (1200 m)

Distribution: Montenegro

*Hirstiosoma* Womersley, 1934 is the adult stage of *Clipeosoma* Southcott, 1948; *Pilosoma* Southcott, 1961 is the larval form of *Fessonina* von Heyden, 1826 (WOHLTMANN, 2010)

*Fessonina papillosa* (Hermann, 1804) – Iran (NOEI, SABOORI, etc., 2013); China (LI & FAN, 1997)

*Fessonina torshizica* Salarzahi et Hajiqaanbar

*Fessonina torshizica* SALARZEHI & HAJIQANBAR, 2012: 18

Type locality: Torshiz, Khorasan Razavi province, 1215 m a.s.l.

Distribution: Iran

*Sphaerotarsus baenai* Mayoral et Barranco (larval)

*Sphaerotarsus baenai* MAYORAL & BARRANCO, 2017: 623

Type locality: Vereda de los Labrados, Villa Manrique

Distribution: Spain

Host: on soil

**Fam. Erythraeidae**

**Erythraeinae**

Genus *Collemboerythraeus* Noei, Saboori et Hakimitabar

*Collemboerythraeus* Noei, Saboori & Hakimitabar, 2017:

Type species: *Collemboerythraeus vosoughae* Noei, Saboori et Hakimitabar, 2017

*Collemboerythraeus vosoughae* Noei, Saboori et Hakimitabar

*Collemboerythraeus vosoughae* Noei, Saboori & Hakimitabar, 2017:

Type locality: Jahrom City, Fars Province

Distribution: Iran

Host: undet. Collembola, Sminthuridae

*Eatoniana gonabadensis* (Ahmadi, Hajiqaanbar et Saboori) (larval)

*Abalakeus gonabadensis* AHMADI, HAJIQANBAR & SABOORI, 2012: 170

Type locality: Gonabad, Khorasan Razavi prov.

Distribution: Iran

Hosts: *Aphis craccivora* (Homoptera: Aphididae);

*Dociostaurus cf. tartarus* (Orthoptera: Acrididae)

***Eatoniana plumipes*** (L. Koch, 1856)

*Abalakeus jahromiensis* SEDGHI, SABOORI & HAKIMITABAR, 2010: 432 (synonymized with *Eatoniana plumipes* by MAKOL & SEVSAY, 2015)

Type locality: Jahrom

Distribution: Iran (for *A. jahromiensis*); Dumlu, Erzurum prov. (Turkey, for *E. plumipes*)

Host: undet. nymph of Pentatomidae (Heteroptera) and on soil (for *A. jahromiensis*)

***Curteria episcopalis*** (C.L. Koch, 1837) – Finland (GABRYŚ et al., 2009)

The genus *Zhangia* Saboori, Cobanoglu et Bayram, 2007 was synonymized with *Curteria* Southcott, 1961 by SABOORI, KHAUSTOV, HAKIMITABAR & HAJIQANBAR (2009: 29).

*Abalakeus* Southcott, 1994 became junior synonym of *Eatoniana* Cambridge, 1898 (MAKOL & SEVSAY, 2015). A female of *Eatoniana plumipes* (L. Koch, 1856) was selected as neotype.

*Abalakeus jahromiensis* Sedghi, Saboori et Hakimitabar, 2010 syn. of *Eatoniana plumipes*

*Abalakeus bambusae* Zhang, Zhang et Lin, 2000 becomes *Eatoniana bambusae* (Zhang, Zhang et Lin)

*Abalakeus chekei* Southcott, 1994 becomes *Eatoniana chekei* (Southcott)

*Abalakeus lorestanicus* Saboori et Lachinani, 2003 becomes *Eatoniana lorestanica* (Saboori et Lachinani)

*Abalakeus gonabadensis* Ahmadi, Hajiqanbar et Saboori, 2012 becomes *Eatoniana gonabadensis* (Ahmadi, Hajiqanbar et Saboori)

All these species were transferred to *Eatoniana* at synonymization (note of J. Makol)

***Erythraeus (Erythraeus) adanaensis*** Saboori et Cobanoglu (larval)

*Erythraeus (Erythraeus) adanaensis* SABOORI & COBANOGLU, 2010: 250; AZIMI, SABOORI & SHIRDEL, 2011: 51

Type locality: Adana

Distribution: Iran, Turkey

Host: unknown

***Erythraeus (Erythraeus) albanicus*** Haitlinger (larval)

*Erythraeus (Erythraeus) albanicus* HAITLINGER, 2012: 340; HAITLINGER & ŠUNDIĆ, 2015: 40

Type locality: Shënavasi nr. Sarandë

Distribution: Albania

Host: herbaceous plant

***Erythraeus (Erythraeus) ankaraicus*** Saboori, Çobanoğlu et Bayram, 2004 – Montenegro (SABOORI, PEŠIĆ & HAKIMITABAR, 2008)

***Erythraeus (Erythraeus) aphidivorous*** Šundić, Haitlinger, Michaud et Colares (larval)

*Erythraeus (Erythraeus) aphidivorous* ŠUNDIĆ, HAITLINGER, MICHAUD & COLARES, 2015: 43

Type locality: Hays, Kansas

Distribution: USA (Kansas)

Host: *Melanaphis sacchari* (Hemiptera: Aphididae)

***Erythraeus (Erythraeus) capeverdensis*** Haitlinger (larval)

*Erythraeus (Erythraeus) capeverdensis* HAITLINGER, 2009a: 1154

Type locality: Sal Island, three km north of Espargos (16°47'N, 22°57')

Distribution: Cape Verde

Host: Unknown; collected from herbaceous plants

***Erythraeus (Erythraeus) cinereus*** (Dugès) = *E. similis* (Canestrini)

***Erythraeus (Erythraeus) chrysoperlae*** Khanjani, Mirmoayedi, Fayaz et Sharifian (larval)

*Erythraeus (Erythraeus) chrysoperlae* KHANJANI, MIRMOAYEDI, FAYAZ & SHARIFIAN, 2012: 63

Type locality: Shahanjarin, Razan, Hamedan Province

Distribution: Iran

Host: *Chrysoperla kolthoffi* (Neuroptera: Chrysopidae)

***Erythraeus (Erythraeus) elmalicus*** Haitlinger (larval)

*Erythraeus (Erythraeus) elmalicus* HAITLINGER, 2010: 53

Type locality: Elmali, 1200 m

Distribution: Turkey

Host: from herbaceous plants

***Erythraeus (Erythraeus) etnaensis*** Heitlinger  
*Erythraeus (Erythraeus) etnaensis* HEITLINGER, 2011: 291

Type locality: Etna

Distribution: Sicily

***Erythraeus (Erythraeus) gertrudae*** Haitlinger, 1987 – Austria (HAITLINGER, 2009a). Syn. of *E. regalis* (C.L. Koch), acc. to STÄLSTEDT et al., 2016.

***Erythraeus (Erythraeus) gorcensis*** Gabryś

*Erythraeus (Erythraeus) gorcensis* GABRYŚ,

2016: 1 (pro *E. acis* sensu Schweizer, 1951)

Type locality: Switzerland

Distribution: Switzerland

***Erythraeus (Erythraeus) hilariae*** Haitlinger (larval)

*Erythraeus (Erythraeus) hilariae* HAITLINGER,

2010: 50

Type locality: Elmali, 1200 m

Distribution: Turkey

Host: from herbaceous plants

***Erythraeus (Erythraeus) jowitae*** Haitlinger, 1987 – Sweden (HAITLINGER, 2008c), Romania, Macedonia (HAITLINGER, 2009d). Syn. of *E. cinereus* (Dugès), acc. to STÅLSTEDT et al., 2016.

***Erythraeus (E.) kuyperi*** (Oudemans, 1910) – Estonia, Lithuania (HAITLINGER, 2010a). Syn. of *E. regalis* (C.L. Koch), acc. to STÅLSTEDT et al., 2016.

***Erythraeus (Erythraeus) layyahensis*** Kamran, Afzal et Bashir (larval)

*Erythraeus (Erythraeus) layyahensis* [KAMRAN, 2009: 48] KAMRAN, AFZAL & BASHIR, 2013: 35

Type locality: Punjab, 22 km east of district Layyah

Distribution: Pakistan

Host: from grass

***Erythraeus (Erythraeus) loomerus*** Kamran (larval)

*Erythraeus (Erythraeus) loomerus* KAMRAN, 2009: 55

Type locality: Punjab

Distribution: Pakistan

***Erythraeus (Erythraeus) mirabi*** Khanjani, Ueckermann et Ul-Hassan (larval)

*Erythraeus (Erythraeus) mirabi* KHANJANI, UECKERMANN & UL-HASSAN, 2012: 52

Type locality: Iran

Distribution: Iran

***Erythraeus (Erythraeus) picaforticus*** Haitlinger, 2002 – Sicily (HAITLINGER & ŁUPICKI, 2013)

***Erythraeus (Erythraeus) pistacicus*** Haitlinger, Mehrnejad et Šundić (larval)

*Erythraeus (Erythraeus) pistacicus* HAITLINGER, MEHRNEJAD & ŠUNDIĆ, 2016: 804; HAITLINGER R., MEHRNEJAD M. REZA, 2017: 320

Type locality: Rafsanjan, Raviz

Distribution: Iran

Hosts: [collected from *Pistacia atlantica mutica* (Anacardiaceae)]; *Agonoscena pistaciae* (Homoptera, Psyllidae); *Farsiana pistaciae* (Hemiptera: Miridae)

***Erythraeus (Erythraeus) populi*** Khanjani, Mirmoayed, Fayaz et Sharifian (larval)

*Erythraeus (Erythraeus) populi* KHANJANI, MIRMOAYEDI, FAYAZ & SHARIFIAN, 2012: 54

Type locality: Hamedan, 1828 m, Hamedan Province

Distribution: Iran

Host: *Stephanitis pyri* (Heteroptera: Tingidae)

***Erythraeus (Erythraeus) serbicus*** Šundić, Haitlinger et Hakimitabar

*Erythraeus (Erythraeus) serbicus* ŠUNDIĆ, HAITLINGER & HAKIMITABAR, 2015: 788

Type locality: Serbia

Distribution: Serbia

***Erythraeus (Erythraeus) shojaii*** Babolmorad et Saboori, 2000 – Pakistan (KAMRAN, 2009)

***Erythraeus (Erythraeus) sicilicus*** Haitlinger  
*Erythraeus (Erythraeus) sicilicus* HAITLINGER, 2011: 291

Type locality: Sicily

Distribution: Sicily

***Erythraeus (Erythraeus) smolyanensis*** Haitlinger (larval)

*Erythraeus (Erythraeus) smolyanensis* HAITLINGER, 2009d: 52; HAITLINGER & ŠUNDIĆ, 2015: 40

Type locality: Smolyan, Bulgaria

Distribution: Bulgaria, Montenegro

Host: from herbaceous plants

***Erythraeus (Erythraeus) southcotti*** Goldarazena et Zhang, 1998 – Montenegro (HAITLINGER & ŠUNDIĆ, 2015)

***Erythraeus (Erythraeus) uhadi*** Kamran et Alatawi (larval)

*Erythraeus (Erythraeus) uhadi* KAMRAN & ALATAWI, 2014a: 79

Type locality: Uhad Mt, Al-Madina

Distribution: Saudi Arabia

Host: *Opseius* sp. (Hemiptera: Cicadellidae)

***Erythraeus (Erythraeus) walii*** Kamran (larval)  
*Erythraeus (Erythraeus) walii* KAMRAN, 2009: 41

Type locality: Punjab

Distribution: Pakistan

*Erythraeus (Zaracarus) adrianicus* Haitlinger

*Erythraeus (Zaracarus) adrianicus* HAITLINGER, 2012: 137

Type locality: Palazzo Adriano n. Sciacca

Distribution: Sicily

Host: from herbaceous plants

*Erythraeus (Zaracarus) arminouensis*

Haitlinger et Łupicki

*Erythraeus (Zaracarus) arminouensis* HAITLINGER & ŁUPICKI, 2011: 405

Type locality: Arminou

Distribution: Cyprus

Host: from herbaceous herbs

*Erythraeus (Zaracarus) aydinicus* Saboori,

Cakmak et Nouri-Gonbalani, 2004 – Montenegro (HAITLINGER & ŠUNDIĆ, 2015)

*Erythraeus (Zaracarus) bibadakiensis*

Haitlinger

*Erythraeus (Zaracarus) bibadakiensis* HAITLINGER, 2011: 48

Type locality: Bibadaki Island n. Labuan Bajo, Flores

Distribution: Indonesia

Host: from herbaceous herbs

*Erythraeus (Zaracarus) budapestensis* Fain et Ripka, 1998 – Montenegro (SABOORI, PEŠIĆ & HAKIMITABAR, 2008), Turkey (HAITLINGER, 2010b); Serbia (HAITLINGER, 2012); Albania (HAITLINGER & ŠUNDIĆ, 2015)

*E. (Z.) preciosus* Goldarazena & Zhang, 1998; **syn.** by HAITLINGER & ŠUNDIĆ, 2015: 585

*E. (Z.) ueckermanni* Saboori, Nowzari et Bagheri-Zenouz, 2004; **syn.** by HAITLINGER & ŠUNDIĆ, 2015: 585

*Erythraeus (Zaracarus) coleopterus* Mortazavi, Hajiqanbar et Saboori

*Erythraeus (Zaracarus) coleopterus* MORTAZAVI, HAJIQANBAR & SABOORI, 2012: 110

Type locality: Ghanat Chenar village, Sirjan city, Kerman province, southeastern Iran (29° 52' 33" N, 55° 43' 56" E, 2253 m a.s.l.)

Distribution: Iran

Host: *Cyphonoxia* sp. (Coleoptera: Scarabaeidae)

*Erythraeus (Zaracarus) eleonora* Haitlinger, 1987 – Poland, neotype (HAITLINGER & ŠUNDIĆ, 2015)

*Erythraeus (Zaracarus) hafezi* Saboori, Hakimitabar et Mahmoudi (larval)

*Erythraeus (Zaracarus) hafezi* SABOORI, HAKIMITABAR & MAHMOUDI, 2014: 80

Type locality: Shiraz city, Fars Province

Distribution: Iran

Host: undet. (Heteroptera: Cicadidae)

*Erythraeus (Zaracarus) hamedanicus*

Khanjani, Mirmoayedi, Nahad et Fayaz (larval)

*Erythraeus (Zaracarus) hamedanicus* KHANJANI, MIRMOAYEDI, NAHAD & FAYAZ, 2010: 26

Synonyme of *E. (Z.) ueckermanni* Saboori, Nowzari et Bagheri-Zenouz, 2004 (**syn.** by MAHMOUDI et al., 2011)

Type locality: Hamedan

Distribution: Iran

Host: *Pyrrhocoris apterus* (Heteroptera: Pyrrhocoridae)

*Erythraeus (Zaracarus) lancifer* Southcott,

1995 – Saudi Arabia (KAMRAN & ALATAWI, 2014a)

*Erythraeus (Zaracarus) longipedus* Saboori et

Nowzari, 2001 – Pakistan (KAMRAN, 2009)

*Erythraeus (Zaracarus) monrealicus* Haitlinger

*Erythraeus (Zaracarus) monrealicus* HAITLINGER, 2012: 140

Type locality: Monreale n. Palermo

Distribution: Sicily

Host: from herbaceous plants

*Erythraeus (Zaracarus) passidonicus*

Haitlinger, 2006 – Turkey (HAITLINGER, 2010b)

*Erythraeus (Zaracarus) cf. ueckerman-*

*ni* Saboori, Nowzari et Bagheri-Zenouz, 2004 – Montenegro (SABOORI, PEŠIĆ & HAKIMITABAR, 2008)

*Erythraeus (Zaracarus) perpusillus* Kamran, Afzal, Raza, Irfanullah, Bashir et Ahmad (larval)

*Erythraeus (Zaracarus) perpusillus* KAMRAN, AFZAL, RAZA, IRFANULLAH, BASHIR & AHMAD, 2009: 358

Type locality: 5 km south of district Okara (Punjab)

Distribution: Pakistan

Host: *Pyrilla perpusilla* (Homoptera: Lophopidae)

*Erythraeus (Zaracarus) ruizporterae* Mayoral

et Barranco (larval)

*Erythraeus (Zaracarus) ruizporterae* MAYORAL & BARRANCO, 2008: 114  
 Type locality: Yeso de Sorbas (Almeria)  
 Distribution: Spain

*Erythraeus (Zaracarus) soleimanii* Khanjani, Mirmoayedi, Nahad et Fayaz (larval)  
*Erythraeus (Zaracarus) soleimanii* KHANJANI, MIRMOAYEDI, NAHAD & FAYAZ, 2010: 21  
 Type locality: Razan, Hamedan  
 Distribution: Iran  
 Host: *Chrysoperla kolthoffi* (Neuroptera: Chrysopidae)

*Erythraeus (Zaracarus) tuzicus* Haitlinger et Šundić  
*Erythraeus (Zaracarus) tuzicus* HAITLINGER & ŠUNDIĆ, 2015: 190  
 Type locality: Tuzi near Podgorica  
 Distribution: Montenegro  
 Host: from herbaceous plants

*Erythrithes otamahua* Clark  
*Erythrithes otamahua* CLARK, 2013: 394  
 Type locality: New Zealand  
 Distribution: New Zealand

*Forania sendrai* Mayoral et Barranco (larval)  
*Forania sendrai* MAYORAL & BARRANCO, 2010: 62  
 Type locality: Sierra Alhamilla, T.M. Turrilas, Almeria  
 Distribution: Spain  
 Host: *Tapinoma* sp. (Hymenoptera: Formicidae)

*Kamertonia polonica* Gabryś – Finland (GABRYŚ et al., 2009)

*Lasioerythraeus cardonensis* Haitlinger (larval)  
*Lasioerythraeus cardonensis* HAITLINGER, 2008b: 63  
 Type locality: Cardon, Margerita Island  
 Distribution: Venezuela  
 Host: from herbaceous plants

*Lasioerythraeus saboorii* Khanjani, Raisi et Izadi (larval)  
*Lasioerythraeus saboorii* KHANJANI, RAISI & IZADI, 2011: 546  
 Type locality: Boshrowyeh, Ferdous City, South Khorassan Prov.  
 Distribution: Iran  
 Host: *Aphis punicae* (Homoptera: Aphididae)

*Lasioerythraeus setarius* Kamran et Bashir (larval)  
*Lasioerythraeus setarius* KAMRAN & BASHIR, 2013: 722

Type locality: 22 km east of district Layyah (Punjab, Pakistan)  
 Distribution: Pakistan  
 Host: from foxtail grass (*Setaria viridis* L.)

Genus *Makolia* Saboori, Khaustov et Hakimitabar (larval)  
*Makolia* SABOORI, KHAUSTOV & HAKIMITABAR, 2009: 23

Type species: *Makolia crimeaensis* Saboori, Khaustov et Hakimitabar, 2009

*Makolia crimeaensis* Saboori, Khaustov et Hakimitabar (larval)  
*Makolia crimeaensis* SABOORI, KHAUSTOV & HAKIMITABAR, 2009: 24  
 Type locality: Crimea, Ay-Petri mountain pasture  
 Distribution: Crimea  
 Host: *Lasius* sp. (Hymenoptera: Formicidae)

**Phanolophinae** – according to WELBOURN (1991), BERON (2008), WOHLTMANN (2010), belongs to Erythraeidae

*Phanolophus oedipodarum* André, 1927 – Yemen, Germany (WOHLTMANN (2010))

Genus *Iraniella* Karimi Iravanlou, Kamali et Talebi  
*Iraniella* KARIMI IRAVANLOU, KAMALI & TALEBI, 2002: 124

Type species: *Iraniella moharrampuri* Karimi Iravanlou, Kamali et Talebi, 2002

*Iraniella moharrampuri* Karimi Iravanlou, Kamali et Talebi (larval)  
*Iraniella moharrampuri* KARIMI IRAVANLOU, KAMALI & TALEBI, 2002: 124  
 Type locality: Iran  
 Distribution: Iran

### Leptinae

MAKOL, GABRYŚ & ŁAYDANOWICZ (2011) “resurrected” and re-described *Leptus phalangii* (De Geer, 1778) (the type-species of genus *Leptus* Latreille) and synonymized under this species *Leptus nemorum* (C.L. Koch, 1836) and *L. beroni* Fain, 1991.

*Leptus (L.) aphidus* Kamran (larval)

- Leptus (L.) aphidus* KAMRAN, 2009: 66  
Type locality: Punjab  
Distribution: Pakistan
- Leptus (L.) astrubali* Haitlinger, 1999 – Nepal (HAITLINGER, 2009d)
- Leptus (L.) biljanae* Šundić et Haitlinger (larval)  
*Leptus (L.) biljanae* ŠUNDIĆ & HAITLINGER, 2015: 188  
Type locality: Župa, Nikšić, Montenegro  
Distribution: Montenegro  
Host: from Orthoptera indet.
- Leptus (L.) brasiliicus* Haitlinger, Šundić et Pompermaier (larval)  
*Leptus (L.) brasiliicus* HAITLINGER, ŠUNDIĆ & POMPERMAIER, 2017: 879  
Type locality: 30 km NE of Brasilia  
Distribution: Brazil
- Leptus (L.) cabareticus* Haitlinger, 2004 – Guadeloupe (HAITLINGER, 2011b)
- Leptus (L.) canaricus* Haitlinger (larval)  
*Leptus (L.) canaricus* HAITLINGER, 2009b: 148  
Type locality: Tenerife, Las Cañadas, Fuente Joco  
Distribution: Canary Islands  
Hosts: *Laparocerus crassifrons*, *L. tessellates* (Coleoptera: Curculionidae)
- Leptus (L.) chiusicus* Haitlinger et Šundić (larval)  
*Leptus (L.) chiusicus* HAITLINGER & ŠUNDIĆ, 2014b: 1509  
Type locality: Sicilia  
Distribution: Sicilia
- Leptus (L.) danelli* Southcott, 1992 raised to species (formerly *L. ignotus danelli*)(ŁAYDANOWICZ & MAKOL, 2010)
- Leptus (L.) delijanensis* Khademi, Saboori et Hakimitabar (larval)  
*Leptus (L.) delijanensis*: KHADEMI, SABOORI & HAKIMITABAR, 2015: 929  
Type locality: Delijan  
Distribution: Iran  
Host: Acrididae indet. (Insecta: Orthoptera)
- Leptus (L.) edwini* Haitlinger (larval)  
*Leptus (L.) edwini* HAITLINGER, 2009b: 145  
Type locality: Tenerife, Fuente Joco
- Distribution: Canary Islands  
Host: *Laparocerus tessellates* (Coleoptera: Curculionidae)
- Leptus (L.) eslamizadehi* Saboori, 2002 – Montenegro (HAITLINGER & ŠUNDIĆ, 2015)
- Leptus (L.) hammameticus* Haitlinger, 1998 – Sicily (HAITLINGER, 2012)  
Syn. *Leptus ignotus* (Oudemans, 1903) = *L. molochinus* (C.L. Koch, 1837) (ŁAYDANOWICZ & MAKOL, 2010)
- Leptus (L.) josifovi* Beron, 1975 – Albania, Montenegro (HAITLINGER, 2012)
- Leptus (Leptus) kattikus* Haitlinger (larval)  
*Leptus (Leptus) kattikus* HAITLINGER, 2009e: 61; MAKOL et al., 2012: 67  
Type locality: Nepal,  
Distribution: Nepal, Vietnam  
Hosts: from herbaceous plants; Phasmida
- Leptus (L.) korneli* Haitlinger (larval)  
*Leptus (L.) korneli* HAITLINGER, 2009a: 1152  
Type locality: Sal Island, 3 km north of Espargos  
Distribution: Rep. of Cape Verde  
Host: from herbaceous plants
- Leptus (L.) longipilis* (Berlese, 1910) – Finland (GABRYŚ, ROLAND, MAKOL & LEHTINEN, 2009)
- Leptus (L.) lugenus* Kamran (larval)  
*Leptus (L.) lugenus* KAMRAN, 2009: 81  
Type locality: Punjab  
Distribution: Pakistan
- Leptus (L.) mariae* Haitlinger, 1987 – Estonia, Latvia (HAITLINGER, 2010a), Macedonia (HAITLINGER, )
- Leptus (L.) maxorata* Haitlinger (larval)  
*Leptus (L.) maxorata* HAITLINGER, 2009b: 141  
Type locality: Fuerteventura, Malpais Grande  
Distribution: Canary Islands  
Host: *Herpisticus calvus* (Coleoptera: Curculionidae)
- Leptus (L.) multanensis* Kamran (larval)  
*Leptus (L.) multanensis* KAMRAN, 2009: 89  
Type locality: Punjab  
Distribution: Pakistan

***Leptus (L.) millipediis*** Southcott, 1992

**Madeira.** Known from this island on Diplopoda, but recorded by HAITLINGER (2009b) from *Laparocerus (Atlantis) lamellipes* and *L. (A.) noctivagans* (Coleoptera: Curculionidae).

***Leptus (L.) molochinus*** (C.L. Koch, 1837) – Montenegro (HAITLINGER & ŠUNDIĆ, 2015)

***Leptus (L.) multisolenidiae*** Mayoral et Barranco

*Leptus (L.) multisolenidiae* MAYORAL & BARRANCO, 2011b: 413

Type locality: Kaw mountain, Cayenne

Distribution: French Guiana

Host: *Episomacris gruneri* (Orthoptera: Acrididae)

***Leptus (L.) nikanori*** Haitlinger, 1998 – Costa Rica (MAYORAL & BARRANCO, 2011a), French Guiana (MAYORAL & BARRANCO, 2011b)

***Leptus (L.) pakistanensis*** Kamran, Afzal, Bashir, Raza et Saeed Khan (larval)

*Leptus pakistanensis* KAMRAN, AFZAL, BASHIR, RAZA & SAEED KHAN, 2009: 17

Type locality: five km south of district Okara (Punjab)

Distribution: Pakistan

Host: *Aphis* sp. (Homoptera: Aphididae)

***Leptus (L.) phalangii*** (De Geer, 1778)(larval, postlarval)

*Acarus phalangii* De Geer, 1778 – 117

*Leptus phalangii*: Gabryś, 1991: 104;

*Rhyncholophus nemorum* C.L. Koch, 1836: fasc.1, t.4

*Leptus nemorum*: Oudemans, 1914: 16 (more synonyms in MAKOL, GABRYŚ & ŁAYDANOWICZ, 2011)

*Leptus beroni* Fain, 1991: 109

*Leptus holmiai* Southcott, 1992: 60

***Leptus (L.) planaltensis*** Haitlinger, Šundić et Pompermaier (larval)

*Leptus (L.) planaltensis* HAITLINGER, ŠUNDIĆ & POMPERMAIER, 2017: 879

Type locality: 30 km NE of Brasilia

Distribution: Brazil

***Leptus (L.) salicus*** Haitlinger (larval)

*Leptus (L.) salicus* HAITLINGER, 2009a: 150

Type locality: Sal Island

Distribution: Rep. of Cape Verde

Host: Orthoptera indet.

***Leptus (L.) sulawesicus*** Haitlinger (larval)

*Leptus (L.) sulawesicus* HAITLINGER, 2011: 53

Type locality: Sulawesi, Kietekiesu, n. Rantepao

Distribution: Indonesia (Sulawesi)

Host: from herbaceous plants

***Leptus (L.) tenerificus*** Haitlinger (larval)

*Leptus (L.) tenerificus* HAITLINGER, 2009b: 147

Type locality: Tenerife, Granadilla, Las Vegas

Distribution: Canary Islands

Host: *Laparocerus fernandezi* (Coleoptera: Curculionidae)

***Leptus (L.) veletae*** Małkol et Wohltmann, 2012 (nom. nov. pro *Leptus incertus* Gabryś, 2000)

### Callidosomatinae

According to WOHLTMANN & MAKOL (2012), *Abrolophus* Berlese, 1891 is the adult form of *Hauptmannia* Oudemans, 1910.

***Caeculisoma argus*** Vitzthum, 1926 – species status by MAKOL & WOHLTMANN, 2013: 17 (for *C. argus argus*)

***Caeculisoma carmenae*** Haitlinger (larval)

*Caeculisoma carmenae* HAITLINGER, 2008d: 139

*Caeculisoma (C.) carmenae* Haitlinger: BERON, 2008: 128

Type locality: Rep. of South Africa, Port Elizabeth

Distribution: South Africa

Host: from herbaceous plants

***Caeculisoma io*** Southcott, 1961

Formerly *Caeculisoma argus io*, full status as species by MAKOL & WOHLTMANN, 2013: 17

***Callidosoma selmae*** Costa, Klompen, Dos Santos, Favretto et Pepato

*Callidosoma selmae* COSTA, KLOMPEN, DOS SANTOS, FAVRETTO & PEPATO, 2017: 42

Type locality: Brazil

Distribution: Brazil

***Callidosoma susanae*** Clark

*Callidosoma susanae* CLARK, 2014: 177

Type locality: Southern Alps

Distribution: New Zealand

Host: from recent glacial outwash in a braided river bed

***Momorangia binaloudensis*** Noei et Saboori



- Momorangia binaloudensis* NOEI & SABOORI, 2015: 790  
Type locality: Khorasan Razavi province, Binaloud Mountain, Shirbad  
Distribution: Iran  
Host: *Apamea impedita* (Christoph) (Lepidoptera: Noctuidae)
- Momorangia chambersi* Clark  
*Momorangia chambersi* CLARK, 2014: 186  
Type locality: Southern Alps  
Distribution: New Zealand  
Host: from recent glacial outwash in a braided river bed
- Neomomorangia* Fain et Santiago-Blay, 1993 – full genus status (CLARK, 2014)
- Abrolophinae** Witte, 1995
- Abrolophus aitapensis* (Southcott, 1948) – Guadeloupe (HAITLINGER, 2011b); Lombok (HAITLINGER, 2011: 48)
- Abrolophus alfalfus* Kamran (larval)  
*Abrolophus alfalfus* KAMRAN, 2009: 127  
Type locality: Punjab  
Distribution: Pakistan
- Abrolophus angustum* (Evans, 1953)  
Formerly *Balaustium angustum*, transferred to *Abrolophus* by MAKOL & WOHLTMANN, 2013: 16
- Abrolophus anzelmi* Haitlinger et Łupicki (larval)  
*Abrolophus anzelmi* HAITLINGER & ŁUPICKI, 2013: 682  
Type locality: Sicily  
Distribution: Sicily
- Abrolophus artemisiae* (Schrank, 1803) – Finland (GABRYŚ, ROLAND, MAKOL & LEHTINEN, 2009)
- Abrolophus balkanicus* Haitlinger et Šundić  
*Abrolophus balkanicus* HAITLINGER & ŠUNDIĆ, 2015: 1019  
Type locality:  
Distribution: Montenegro
- Abrolophus bipilum* (Meyer et Ryke, 1959)  
Formerly *Balaustium bipilum*, transferred to *Abrolophus* by MAKOL & WOHLTMANN, 2013: 16
- Abrolophus bohadani* Kamran (larval)
- Abrolophus bohadani* KAMRAN, 2009: 135  
Type locality: Punjab  
Distribution: Pakistan
- Abrolophus faisalabadensis* Kamran  
*Abrolophus faisalabadensis* KAMRAN, 2009: 136  
Type locality: Punjab  
Distribution: Pakistan
- Abrolophus hieronimi* Haitlinger et Łupicki  
*Abrolophus hieronimi* HAITLINGER & ŁUPICKI, 2013: 42; MAKOL & WOHLTMANN, 2013: 16  
Type locality: San Martin nr. Palermo, Sicily  
Distribution: Italy (Sicily)
- Abrolophus kazimierae* (Haitlinger, 1986) – Austria, Italy (HAITLINGER, 2009a)(new comb.), Montenegro (HAITLINGER & ŠUNDIĆ, 2015)
- Abrolophus khanjanii* (Haitlinger et Saboori, 1996) – Pakistan (KAMRAN, 2009)
- Abrolophus kotorensis* (Haitlinger, 2007) – Albania, Montenegro, Sicily (HAITLINGER, 2012) = *Abrolophus silesiacus* (Haitlinger, 1986) = *Abrolophus norvegicus* (Thor, 1900)
- Abrolophus montenegrinus* Saboori, Šundić et Pešić  
*Abrolophus montenegrinus* SABOORI, ŠUNDIĆ & PEŠIĆ, 2012: 54  
Type locality: bank of Krupac Lake, Nikšić  
Distribution: Montenegro  
Host: off host on grasses
- Abrolophus norvegicus* (Thor, 1900) – Neotype from N. Germany (WOHLTMANN & MAKOL, 2012)  
Syn. *Hauptmannia silesiacus* Haitlinger, 1986: 189; Type locality: Wrocław – Swojec, Poland. Syn. by WOHLTMANN & MAKOL (2012).  
Syn. *Hauptmannia amilberti* Haitlinger, 2010b: 5 (Type locality: Altnyaka n. Kemer; 7 km N of Cavus Koy, 11 km N Olympus; Kemer, Turkey)  
Syn. *Hauptmannia dagmarae* Haitlinger, 2012: 42; Type locality: Lago di Pian del Leone (Sicily), from herbaceous plants and from larva of undet. Hemiptera. Syn. by Wohltmann & Małkol (2012).  
Syn. *Hauptmannia striata* Saboori, Šundić & Pešić, 2011: 64; Type locality: Vranjske Njive, bank of Zeta River, Podgorica (Montenegro). Syn. by Wohltmann & Małkol (2012).  
Syn. *Abrolophus neobrevicollis* Zhang et Goldarazena, 1996: 127; Type locality: Pitillas,

- Navarra, Spain. Syn. by Wohltmann & Małkol (2012).  
 Supplement to distribution: Belgium (HAITLINGER, 2008), Romania (HAITLINGER, 2009d), Estonia, Latvia (HAITLINGER, 2010), Sicily (HAITLINGER & ŁUPICKI, 2015b), Montenegro (SABOORI, ŠUNDIĆ, PEŠIĆ & HAKIMITABAR, 2011, sub *Hauptmannia striata*).
- Abrolophus nymindegabicus*** Haitlinger  
*Abrolophus nymindegabicus* HAITLINGER, 2008c: 53  
 Type locality: Denmark, Nymindegab  
 Distribution: Denmark, Sweden
- Abrolophus petanovicae*** Saboori, Šundić et Pešić  
*Abrolophus petanovicae* SABOORI, ŠUNDIĆ & PEŠIĆ, 2012: 57; HAITLINGER & ŠUNDIĆ, 2015: 584  
 Type locality: Skadar Lake, Murići (Montenegro)  
 Distribution: Montenegro, Serbia  
 Host: on grasses .
- Abrolophus pyrillus*** Kamran (larval)  
*Abrolophus pyrillus* KAMRAN, 2009: 144  
 Type locality: Punjab  
 Distribution: Pakistan
- Abrolophus quisquiliarus*** (Hermann, 1804) – Serbia (HAITLINGER, 2012); Finland (GABRYŚ et al., 2009)
- Abrolophus quisquiliarus kiejestuti*** (Haitlinger, 2007) – Romania (HAITLINGER, 2009d)
- Abrolophus stanislavae*** (Haitlinger, 1986) – Serbia (HAITLINGER, 2012)(comb. in MAŁKOL & WOHLTMANN, 2013: 16)
- Abrolophus thripsus*** Kamran (larval)  
*Abrolophus thripsus* KAMRAN, 2009: 151  
 Type locality: Punjab  
 Distribution: Pakistan
- Abrolophus vignae*** (Meyer et Ryke, 1959)(for *Balaustium vignae*, see MAŁKOL & WOHLTMANN, 2013: 16)
- Abrolophus wratislaviensis*** (Haitlinger, 1986) – Austria, Bulgaria, Estonia, Italy, Latvia, Romania (HAITLINGER, 2009a, 2009d, 2010a); Montenegro (HAITLINGER & ŠUNDIĆ, 2015)
- Charletonia bahaensis*** Kamran et Alatawi (larval)  
*Charletonia bahaensis* KAMRAN & ALATAWI, 2014: 85  
 Type locality: Saudi Arabia  
 Distribution: Saudi Arabia  
***Charletonia baluchestanica*** Tashakor et Hakimitabar (larval)  
*Charletonia baluchestanica* TASHAKOR & HAKIMITABAR, 2015: 198  
 Type locality: Behshahr City, Ghalehpayan vil-  
 lage  
 Distribution: Iran  
 Host: *Ochrilidia* sp. (Orthoptera: Acrididae)
- Charletonia behbahanensis*** Haitlinger et Saboori (larval)  
*Charletonia behbahanensis* HAITLINGER & SABOORI, 2008: 74  
 Type locality: Behbahan  
 Distribution: Iran  
 Host: *Dociostaurus maroccanus* (Orthoptera: Acrididae)
- Charletonia behshahriensis*** Hakimitabar et Saboori (larval)  
*Charletonia behshahriensis* HAKIMITABAR & SABOORI, 2014: 295  
 Type locality: Behshahr City, Ghalehpayan vil-  
 lage  
 Distribution: Iran  
 Host: *Tettigonia* sp. (Orthoptera: Tettigoniidae)
- Charletonia bojnordensis*** Haitlinger et Saboori (larval)  
*Charletonia bojnordensis* HAITLINGER & SABOORI, 2008: 77  
 Type locality: Bojnord  
 Distribution: Iran  
 Host: indet. (Coleoptera: Buprestidae)
- Charletonia bucephalia*** Beron, 1975 – Montenegro (ŠUNDIĆ & PAJOVIĆ, 2013, redescription)
- Charletonia cameroonensis*** Haitlinger et Kekeunou (larval)  
*Charletonia cameroonensis* Haitlinger et Kekeunou, in HAITLINGER, KEKEUNOU & ŁUPICKI, 2014: 40  
 Type locality: Cameroon,  
 Distribution: Cameroon  
 Host: *Zonocerus variegatus* (Orthoptera: Pyrgomorphidae)
- Charletonia cardinalis*** (Pallas, 1772) – Latvia, Lithuania (HAITLINGER, 2010a), Serbia (HAITLINGER, 2012)

***Charletonia domawiti*** Haitlinger, 2004 – Costa Rica (MAYORAL & BARRANCO, 2011a), French Guiana (MAYORAL & BARRANCO, 2011b)

***Charletonia elbasani*** Šundić, Haitlinger et Milošević (larval)

*Charletonia elbasani* ŠUNDIĆ, HAITLINGER & MILOŠEVIĆ, 2017: 564

Type locality: Elbasan

Distribution: Albania

Host: from herbaceous plants

***Charletonia farajii*** Noei, Saboori et Hajizadeh (larval)

*Charletonia farajii* NOEI, SABOORI & HAJIZADEH, 2015: 442

Type locality: Lowshan, Rudbar, Rostamabad cities, Guilan Province

Distribution: Iran

Host: Orthoptera indet.

***Charletonia gabini*** (Haitlinger, 2004) – Kenya (CLARK, 2014, for *Momorangia gabini* Haitlinger)

***Charletonia jolantae*** Haitlinger, 1986 = *Ch. volzi* (Oudemans, 1910)(HAITLINGER, 2007c)

***Charletonia kosensis*** Haitlinger (larval)

*Charletonia kosensis* HAITLINGER, 2016: 1010

Type locality: Kos

Distribution: Greece

***Charletonia kovalamensis*** Haitlinger (larval)

*Charletonia kovalamensis* HAITLINGER, 2007c: 76

Type locality: India, Kovalam; Sri Lanka, Mount Lavinia

Distribution: India, Nepal, Sri Lanka

Host: Orthoptera indet.

***Charletonia krendowskii*** (Feider, 1954) – Italy, Macedonia (HAITLINGER, 2009a), Albania (HAITLINGER & ŠUNDIĆ, 2015)

***Charletonia lankensis*** Southcott, 1988 from India (HAITLINGER, 2007c) and from Sri Lanka (= *Ch. keralicus* Ramaraju & Mohanasundaram, 1998)

***Charletonia postojnensis*** Haitlinger (larval)

*Charletonia postojnensis* HAITLINGER, 2011: 28

Type locality: Postojna

Distribution: Slovenia

***Charletonia ramoni*** Haitlinger (larval)

*Charletonia ramoni* HAITLINGER, 2007: 78

Type locality: Nepal

Distribution: Nepal

***Charletonia salazari*** Mayoral et Barranco

*Charletonia salazari* MAYORAL & BARRANCO, 2011: 223

Type locality: Colonia Palmareña, San Ramón, Alajuela

Distribution: Costa Rica

Host: *Scopiorinus mucronatus* (Orthoptera, Tettigoniidae, Pseudophyllinae).

***Charletonia shahriari*** Saboori, Azimi et Shirdel (larval)

*Charletonia shahriari* SABOORI, AZIMI & SHIRDEL, 2012: 34

Type locality: Dizaj Olia village (38° 8.043' N, 46° 13.041' E, ~1470 m a.s.l.), Tabriz, East Azarbaijan province.

Distribution: Iran

Host: undetermined cercopid (Homoptera: Cercopidae)

***Charletonia shiroyama*** Yaita, Kato et Toriyama, 1961 – Laos, Thailand (HAITLINGER, 2007c); Java (HAITLINGER, 2011)

Syn.: ***Charletonia sureshi*** (Ramaraju et Mohanasundaram, 1998) = *Ch. volzi* (Oudemans, 1910)(HAITLINGER, 2007c)

***Charletonia stekolnikovi*** Hakimitabar et Saboori (larval)

*Charletonia stekolnikovi* HAKIMITABAR & SABOORI, 2011: 40

Type locality: Taleghan city, 214 m, Tehran province

Distribution: Iran

Host: from herbaceous plants

***Charletonia talebii*** Sedghi, Saboori et Hakimitabar (larval)

*Charletonia talebii* SEDGHI, SABOORI & HAKIMITABAR, 2010: 335

Type locality: Jahrom

Distribution: Iran

Host: undet. Cicadellidae (Heteroptera)

***Charletonia terianae*** Hakimitabar, Saboori et Seiedy

*Charletonia terianae* HAKIMITABAR, SABOORI & SEIEDY, 2013: 164

Type locality: Tehran, Karaj

Distribution: Iran  
Host: undet. Phalangiidae (Opiliones), undet. Cheliferidae (Pseudoscorpiones), Araneae

***Charletonia villingensis*** Haitlinger (larval)  
*Charletonia villingensis* HAITLINGER, 2007c: 73  
Type locality: Villing  
Distribution: Maldives  
Host: from herbaceous plants

***Charletonia volzi*** (Oudemans, 1910) – Laos, Malaysia, Thailand (HAITLINGER, 2007c)

[***Grandjeanella bella*** Zhang, 1996 is considered part of genus *Nagoricanelle* Haitlinger by SABOORI et al. (2016)]

***Grandjeanella londaensis*** Haitlinger  
*Grandjeanella londaensis* HAITLINGER, 2011: 50  
Type locality: Londa n. Rantepao  
Distribution: Indonesia  
Host: from herbaceous plants

***Grandjeanella macfarlanei*** Clark  
*Grandjeanella macfarlanei* CLARK, 2014: 191  
Type locality: Southern Alps  
Distribution: New Zealand  
Host: from recent glacial outwash in a braided river bed

***Grandjeanella multisetosa*** Zhang et Goldarazena, 1996 – Hungary, Romania, Macedonia, San Marino (HAITLINGER, 2009a, 2009d, 2012)

Genus ***Marantelophus*** Haitlinger  
*Marantelophus* HAITLINGER, 2011: 50  
Type species: *Marantelophus alaperti* Haitlinger, 2011

***Marantelophus ainae*** (Haitlinger, 2002) – transferred from *Grandjeanella* by HAITLINGER, 2011 (Mallorca)

***Marantelophus alaperti*** Haitlinger  
*Marantelophus alaperti* HAITLINGER, 2011: 50  
Type locality: Sulawesi, Marante n. Rantepao  
Distribution: Indonesia (Sulawesi)

***Marantelophus bella*** (Zhang, 1996) – transferred from *Grandjeanella* by HAITLINGER, 2011 (Iran and Turkey); Turkey, ex *Parlatoria oleae* (Homoptera: Diaspididae) (SABOORI & COBANOGU, 2010), transferred to *Nagoricanelle* by SABOORI et al. (2016)

***Marantelophus dubifurcatus*** Xu, Yi et Jin  
*Marantelophus dubifurcatus* XU, YI & JIN, 2017:  
Type locality: China  
Distribution: China  
Hosts: *Cacopsyllus* sp. (Homoptera: Psyllidae), Psocoptera

***Marantelophus emanueli*** (Haitlinger)  
*Grandjeanella emanueli* HAITLINGER, 2010b: 56  
*Marantelophus emanueli* (Haitlinger): KAMRAN & ALATAWI, 2015:  
Type locality: Elmali, 1200 m  
Distribution: Turkey  
Host: from herbaceous plants

***Marantelophus haitlingeri*** (Goldarazena et Zhang, 1997) – transferred from *Grandjeanella* by HAITLINGER, 2011 (Spain)

***Marantelophus kamalii*** (Saboori et Atamehr, 2000) – transferred from *Grandjeanella* by HAITLINGER, 2011 (Iran). Montenegro (HAITLINGER & ŠUNDIĆ, 2014: 40)

***Marantelophus multisetosa*** (Zhang et Goldarazena, 1996) – transferred from *Grandjeanella* by HAITLINGER, 2011 (Croatia, Greece, Hungary, Romania, San Marino, Spain, Turkey and Ukraine)

***Marantelophus ostovani*** (Haitlinger et Saboori, 1996) – transferred from *Grandjeanella* by HAITLINGER, 2011 (Iran)

***Marantelophus rudaensis*** (Haitlinger)  
*Hauptmannia rudaensis* HAITLINGER, 1986: 182  
*Rudaemia rudaensis* Haitlinger: HAITLINGER, 2000: 386  
*Abrolophus rudaensis* (Haitlinger): MAKOL & WOHLTMANN, 2012:

*Marantelophus rudaensis* (Haitlinger, 1986) – Montenegro (HAITLINGER & ŠUNDIĆ, 2014: 40)

***Marantelophus sanandajensis*** Hakimitabar et Saboori

*Marantelophus sanandajensis* Hakimitabar et Saboori, in: HAKIMITABAR, GHOBARI & SABOORI, 2015: 226

Type locality: Koushk Bala village, Chalous road, Karaj

Distribution: Iran  
Host: from unidentified Thysanoptera and Aphididae (Homoptera)

Genus ***Nagoricanelle*** Haitlinger (larval)

- Nagoricanellella* Haitlinger, 2009c: 40  
Type species: *Nagoricanellella egoni* Haitlinger, 2009
- Nagoricanellella arabellae* Haitlinger (larval)  
*Nagoricanellella arabellae*: HAITLINGER, 2009c: 41  
Type locality: 3 km north of Espargos, Sal Island  
Distribution: the Republic of Cape Verde  
Host: from herbaceous plants
- Nagoricanellella bella* (Zhang, 1996) – combination created by SABOORI et al. (2016) from *Grandjeanellella bella* Zhang, 1996 = *Marantelophus bella* (Zhang)
- Nagoricanellella egoni* Haitlinger (larval)  
*Nagoricanellella egoni* HAITLINGER, 2009c: 46  
Type locality: Staro Nagoričane n. Kumanovo  
Distribution: the Republic of Cape Verde  
Host: from herbaceous plants
- Nagoricanellella salehi* Kamran et Alatawi (larval)  
*Nagoricanellella salehi* KAMRAN & ALATAWI, 2015: 196  
Type locality: Saudi Arabia  
Distribution: Saudi Arabia
- Genus *Pukakia* Clark  
*Pukakia* CLARK, 2014: 198  
Type species: *Pukakia aoraki* Clark, 2014
- Pukakia aoraki* Clark  
*Pukakia aoraki* CLARK, 2014: 198  
Type locality: Southern Alps  
Distribution: New Zealand  
Host: from recent glacial outwash in a braided river bed
- Balaustiinae**  
Genus *Balaustium* von Heyden, 1826  
= *Guatustium* Haitlinger, 2000 – synonymized by MAKOL & WOHLTMANN, 2013  
= *Palenquustium* Haitlinger, 2000 – synonymized by FUENTES QUINTERO et al., 2014
- Balaustium biljanae* (Haitlinger, 2000)  
Formerly *Guatustium biljanae*, synonymized by MAKOL & WOHLTMANN, 2013: 17
- Balaustium biscutalae* Mayoral et Barranco (larval)  
*Balaustium biscutalae* MAYORAL & BARRANCO, 2009: 1161  
Type locality: Amoladeras. P.N. Cabo de Gata
- Nijar. T.M. de Nijar, Almeria  
Distribution: Spain
- Balaustium hernandezi* Mağkol, Arijs et Wäckers  
*Balaustium hernandezi* Mağkol, Arijs & Wäckers, 2012: 2  
Type locality: Spain  
Distribution: Spain
- Balaustium kacperi* Haitlinger, 1996 – Latvia (HAITLINGER, 2010a)
- Balaustium leanderi* (HAITLINGER, 2000) – formerly *Palenquustium* Haitlinger, 2000 – synonymized by FUENTES QUINTERO et al., 2014, 2015
- Balaustium nikae* Haitlinger, 1996 – Bulgaria (HAITLINGER, 2009d), Italy (HAITLINGER, 2009a), Serbia (HAITLINGER, 2012)
- Balaustium yousifi* Kamran et Alatawi (larval)  
*Balaustium yousifi* KAMRAN & ALATAWI, 2014a: 90  
Type locality: 5 km Taif Road, Baha  
Distribution: Saudi Arabia
- Genus *Madinahustium* Kamran et Alatawi  
*Madinahustium* Kamran & Alatawi, 2016: 79  
Type species: *Madinahustium acaiaum* Kamran & Alatawi, 2016
- Madinahustium acaciaum* Kamran et Alatawi  
*Madinahustium acaciaum* Kamran & Alatawi, 2016: 79  
Type locality: Saudi Arabia  
Distribution: Saudi Arabia
- Moldoustium haitlingeri* Noei, Saboori et Šundić (larval)  
*Moldoustium haitlingeri* NOEI, SABOORI & ŠUNDIĆ, 2013: 264  
Type locality: Loshan city, 1339 m, Guilan Province; paratypes from Montenegro, Plavnica, nr. Shkodar Lake  
Distribution: Iran, Montenegro  
Host: soil
- Genus *Monteustium* Haitlinger et Šundić  
*Monteustium* Haitlinger & Šundić, 2015: 2015  
Type species: *Monteustium* Haitlinger & Šundić, 2015
- Monteustium marezensis* Haitlinger et Šundić

*Monteustium marezensis* Haitlinger & Šundić,  
2015: 1108  
Type locality: Montenegro  
Distribution: Montenegro

***Pollux jhangensis*** Kamran

*Pollux jhangensis* KAMRAN, 2009: 108  
Type locality: Punjab  
Distribution: Pakistan

***Pollux kovalamicus*** Haitlinger, 2002 – Pakistan  
(KAMRAN, 2009), Indonesia (HAITLINGER, 2010)  
Syn. *Pollux walii* KAMRAN, AFZAL & RAZA, 2010  
Type locality: Punjab  
Distribution: Pakistan

***Pollux okaraensis*** Kamran

*Pollux okaraensis* KAMRAN, 2009: 100  
Type locality: Punjab,  
Distribution: Pakistan

***Pollux punctatus*** Kamran

*Pollux punctatus* KAMRAN, 2009: 115  
Type locality: Punjab  
Distribution: Pakistan

***Pollux workandae*** Southcott, 1961 – Pakistan  
(KAMRAN & BASHIR, 2013)

**Fossil Calyptostomatoidea and Erythraeoidea**

**Calyptostomatidae**

***Calyptostoma katyae*** Konikiewicz, Wohltmann  
et Małkol  
*Calyptostoma katyae* KONIKIEWICZ,  
WOHLTMANN & MAŁKOL, 2016: 337  
Type locality: Baltic Amber

**Smarididae**

***Fessonia grabenhorsti*** Bartel, Konikiewicz,  
Małkol, Wohltmann et Dunlop  
*Fessonia grabenhorsti* BARTEL, KONIKIEWICZ,  
MAŁKOL, WOHLTMANN & DUNLOP, 2015: 653  
Type locality: Baltic and Bitterfeld Amber

***Fessonia groehni*** Bartel, Konikiewicz, Małkol,  
Wohltmann et Dunlop  
*Fessonia groehni* BARTEL, KONIKIEWICZ,  
MAŁKOL, WOHLTMANN & DUNLOP, 2015: 655  
Type locality: Baltic and Bitterfeld Amber

***Fessonia wunderlichii*** Bartel, Konikiewicz,

Małkol, Wohltmann et Dunlop  
*Fessonia wunderlichii* BARTEL, KONIKIEWICZ,  
MAŁKOL, WOHLTMANN & DUNLOP, 2015: 649  
Type locality: Baltic and Bitterfeld Amber  
Erythraeidae

Genus ***Pararainbowia*** Dunlop

*Pararainbowia* DUNLOP, 2007: 96  
Type species: *Pararainbowia martilli* Dunlop, 2007

***Pararainbowia martilli*** Dunlop

*Pararainbowia martilli* DUNLOP, 2007: 96 –  
Brazil, from the Early Cretaceous (Aptian) Crato  
Formation from Ceará Stat.

**Distribution of Calyptostomatoidea and  
Erythraeoidea (suppl.)**

**EUROPE**

**Albania** (HAITLINGER, 2012a; HAITLINGER  
& ŠUNDIĆ, 2014, 2015; ŠUNDIĆ, HAITLINGER &  
MILOŠEVIĆ, 2016) – *Erythraeus (Erythraeus) al-*  
*banicus*, *Abrolophus kotorensis*, *Leptus (L.) josifovi*,  
*Charletonia elbasani*, *Ch. krendowskyi*

**Austria** (HAITLINGER, 2007d, 2009a) –  
*Abrolophus pseudolongicollis*, *A. kazimierae*, *A. wrat-*  
*islaviensis*, *Balaustium nikaie*, *Erythraeus (E.) gertru-*  
*dae*, *Leptus (L.) mariae*

**Belgium** (HAITLINGER, 2008c) – *Abrolophus*  
*norvegicus*

**Bulgaria** (HAITLINGER, 2009d) – *Balaustium*  
*nikaie*, *Charletonia cardinalis*, *Erythraeus (E.) smoly-*  
*anensis*, *E. (Zaracarus) budapestensis*, *Abrolophus ka-*  
*zimierae*, *A. wratislaviensis*

**Crimea** (SABOORI, KHAUSTOV, HAKIMITABAR &  
HAJIQANBAR, 2009) – *Makolia crimeaensis*

**Denmark** (HAITLINGER, 2008c) – *Abrolophus*  
*nymindegabicus*

**Estonia** (HAITLINGER, 2010a) – *Abrolophus nor-*  
*vegicus*, *A. wratislaviensis*, *Leptus (L.) mariae*, *L. (L.)*  
*molochinus*, *L. (L.) miromiri*, *Erythraeus (E.) kuyperi*

**Finland** (GABRYŚ, ROLAND, MAŁKOL &  
LEHTINEN, 2009) – **Smarididae:** *Hirstiosoma latreillei*;  
**Erythraeidae:** *Abrolophus artemisiae*, *A. miniatus*, *A.*  
*norvegicus*, *A. brevicollis*, *A. quisquiliarus*, *Charletonia*  
*cardinalis*, *Curteria episcopalis*, *Erythraeus cinereus*,  
*Kamertonia polonica*, *Leptus longipilis*, *L. rubricatus*,  
*L. molochinus* (= *L. ignotus*)

**Germany** (WOHLTMANN, 2010, WOHLTMANN  
& MAŁKOL, 2012) – *Abrolophus norvegicus* (neotype),  
*Phanolophus oedipodarum*

**Greece** (ANTONATOS & EMMANOUEL, 2014) –  
Erythraeidae

- Hungary** (HAITLINGER, 2007d, 2009a) – *Grandjeanella multisetosa*
- Italy** (HAITLINGER, 2007d, 2009a, 2012) – *Abrolophus mirabelae*, *A. kazimierae*, *A. wratislaviensis*, *Balaustium nikae*, *Charletonia austiensis*, *Ch. krendowskyi*, *Ch. berlesiana*, *Ch. cardinalis*, *Erythraeus* (*E.*) *malwinae*, *Leptus* (*L.*) *phalangii* (syn. *L. beroni*), *L.* (*L.*) *molochinus*, *L.* (*L.*) *slivovi*, *Marantelophus multisetosa*
- Sicily** (HAITLINGER, 2012b, HAITLINGER & ŠUNDIĆ, 2014b, 2015, HAITLINGER & ŁUPICKI, 2013a, b, 2015) – **Calyptostomatidae**: *Calyptostoma velutinum*; **Erythraeidae**: *Abrolophus anzelmi*, *A. norvegicus* (= *Hauptmannia dagmarae*), *Leptus hammameticus*, *L. chiusicus*, *Erythraeus* (*Zaracarus*) *adrianicus*, *E. (Z.) monrealicus*
- Latvia** (HAITLINGER, 2010a) – *Abrolophus norvegicus*, *A. wratislaviensis*, *Charletonia cardinalis*, *Erythraeus* (*E.*) *kuyperi*, *Leptus* (*L.*) *mariae*, *Balaustium kacperi*
- Lituania** (HAITLINGER, 2010a) – *Charletonia cardinalis*, *Erythraeus* (*E.*) *kuyperi*
- Luxemburg** (HAITLINGER, 2008c) – *Leptus* (*L.*) *trimaculatus*
- Macedonia** (HAITLINGER, 2009d, 2012a) – *Charletonia krendowskyi*, *Erythraeus* (*E.*) *cinereus* (= *jowitae*), *Leptus* (*L.*) *mariae*, *L. (L.) molochinus* (= *ignotus*)
- Montenegro** (SABOORI, PEŠIĆ & HAKIMITABAR, 2008; SABOORI et al., 2011, 2012; HAITLINGER, 2012a; NOEL, SABOORI et al., 2013; ŠUNDIĆ & PAJOVIĆ, 2012, 2013; ŠUNDIĆ, 2014; ŠUNDIĆ & HAITLINGER, 2015; HAITLINGER & ŠUNDIĆ, 2014A, 2015a, 2015C, 2016, 2017) – Smarididae: *Hirstiosoma amfilohijeji*; Erythraeidae: *Abrolophus montenegrinus*, *A. balkanicus*, *A. norvegicus* (= *Hauptmannia striata*), *A. kotozensis*, *A. petanovicae*, *A. wratislaviensis*, *Balaustium nikae*, *Charletonia bucephalia*, *Erythraeus* (*Z.*) *aydinicus*, *E. (E.) budapestensis*, *E. (Z.) cf. ueckermanni*, *E. (Z.) tuzicus*, *E. (E.) ankaraiscus*, *E. (E.) smolyanensis*, *E. (E.) southcotti*, *Leptus* (*L.*) *josifovi*, *L. (L.) biljanae*, *L. (L.) eslamizadehi*, *L. (L.) molochinus*, *Italustium eframi*, *Marantelophus kamalii*, *M. rudaensis*, *Moldoustium haitlingeri*, *Monteustium marezensis*
- Poland** (GABRYŚ & MAKOL, 1997; KLOSIŃSKA, FELSKA, ŁAYDANOWICZ & MAKOL, 2009) – *Abrolophus norvegicus*
- Portugal**
- Azorean Islands** (MCNEIL & TREAT, 1992; LORENZO – CARBALLA et al., 2011) – *Leptus killingtoni*
- Romania** (HAITLINGER, 2009d) – *Abrolophus quisquiliaris kiejestuti*, *A. norvegicus*, *Balaustium nikae*, *Erythraeus* (*E.*) *jowitae*, *E. (E.) monikae*, *Grandjeanella multisetosa*, *Abrolophus kazimierae*, *A. wratislaviensis*, *Leptus* (*L.*) *mariae*
- San Marino** (HAITLINGER, 2007d, 2009a) – *Balaustium nikae*, *Grandjeanella multisetosa*, *Leptus* (*L.*) *molochinus* (= *ignotus*)
- Serbia** (HAITLINGER, 2012; ŠUNDIĆ, 2014; ŠUNDIĆ, HAITLINGER, PETANOVIĆ, JOVICIĆ & HAKIMITABAR, 2015; HAITLINGER & ŠUNDIĆ, 2015) – **Calyptostomatidae**: *Calyptostoma velutinum*; **Erythraeidae**: *Abrolophus petanovicae*, *A. quisquiliaris*, *A. stanislavae*, *Balaustium nikae*, *Charletonia cardinalis*, *Erythraeus* (*Zaracarus*) *budapestensis*
- Slovenia** (HAITLINGER, 2011b) – *Charletonia postojnensis*, *Abrolophus podoresensis*
- Spain** (MAYORAL & BARRANCO, 2008, 2009, 2010, 2017; WOHLTMANN, 2010; MAKOL, ARIJS & WÄCKERS, 2012) – *Erythraeus* (*Zaracarus*) *ruizporterae*, *Forania sendrai*, *Balaustium biscutalae*, *B. hernandezii*, *Phanolophus oedipodarum*; Smarididae: *Sphaerotarsus baenai*
- Canary Islands** (HAITLINGER, 2009b) – *Leptus* (*L.*) *canaricus* *L. (L.) edwini*, *L. (L.) maxorata*, *L. (L.) tenerificus*
- Sweden** (HAITLINGER, 2008b, 2008c) – *Erythraeus* (*E.*) *jowitae*, *Leptus trimaculatus*, *Abrolophus nymindegabicus*
- Turkey (entire)** (HAITLINGER, 2010b; SABOORI & COBANOGU, 2010) – *Erythraeus* (*E.*) *adanaensis*, *E. (E.) elmalicus*, *E. (E.) hilariae*, *E. (Zaracarus) budapestensis*, *E. (Z.) passidonicus*, *Nagoricanelle bella*, *Marantelophus emanueli*, *Abrolophus amilberti*, *Zhangielli* (= *Curteria*); *Zhangielli duzgunesae* Saboori et al., 2007 = *Curteria duzgunesae* (syn. by SABOORI et al., 2009)
- AFRICA**
- Cameroon** (HAITLINGER, KEKEUNOU & ŁUPICKI, 2014) – *Charletonia cameroonensis*, *Ch. justynae*
- Cape Verde** (HAITLINGER, 2009a, 2009c) – *Erythraeus* (*E.*) *capeverdensis*, *Leptus* (*L.*) *korneli*, *L. (L.) salicis*
- Kenya** (CLARK, 2014) – *Charletonia gabini*, for *Momorangia gabini* HAITLINGER, 2004
- ASIA**
- Cambodia** (HAITLINGER & ŠUNDIĆ, 2015) – **Calyptostomatidae**: *Calyptostoma giuliae*
- China** (LI & FAN, 1997; ZHANG, 2010; XU, YI & JIN, 2017) – **Smarididae**: *Fessonina papillosa*; **Erythraeidae**: *Marantelophus dubifurcatus*
- Cyprus** (HAITLINGER & ŁUPICKI, 2011) – *Erythraeus* (*Zaracarus*) *arminouensis*

**India** (HAITLINGER, 2007c; AGARWAL, DHIMAN & AGARWAL, 2009) – *Charletonia kovalamensis*, *Ch. lankensis*, *Leptus* sp.

**Indonesia** (HAITLINGER, 2010c, 2011c; HAITLINGER & ŠUNDIĆ, 2015) – **Calyptostomatidae**: *Calyptostoma marantica*; **Erythraeidae**: *Leptus* (*L.*) *sulawesicus*, *Pollux kovalamicus*

**Iran** (KHANJANI, UECKERMANN & UL-HASSAN, 2007; KHANJANI, MIRMOAYEDI, NAHAD & FAYAZ, 2010; SEDGHI, SABOORI, AKRAMI & HAKIMITABAR, 2010; SEDGHI, RAVAN, etc., 2010; KHANJANI, RAISI & IZADI (2011); SABOORI, 2011; HAKIMITABAR & SABOORI, 2011; AHMADI, HAJIQANBAR & SABOORI, 2012; SABOORI, AZIMI & SHIRDEL, 2012; AZIMI, SABOORI & SHIRDEL, 2011; SABOORI, SOUKHTSARAI et al., 2012; KHANJANI, MIRMOAYEDI, FAYAZ & SHARIFIAN, 2012; HAKIMITABAR, SABOORI & SEIEDY, 2013; HAKIMITABAR, GHOBARI & SABOORI, 2013; NOEI, SABOORI et al., 2013; NOEI, SABOORI & HAJIZADEH, 2013; HAKIMITABAR, SABOORI, SAMANIPOUR & JALALIZAND, 2014; MAHMOUDI et al., 2014; NOEI & SABOORI, 2015; KHADEMI, SABOORI, AHADIYAT & HAKIMITABAR, 2015; HAITLINGER, MEHRNEJAD & SUNDIĆ, 2016) – **Calyptostomatidae**: *Calyptostoma gorganica* **Smarididae**: *Fessonia papillosa*, *Smaris maraghehiensis*; **Erythraeidae**: *Eatoniana gonabadensis*, *Eatoniana plumipes* [= *Abalakeus jahromiensis*], *Charletonia baluchestanica*, *Ch. behbahanensis*, *Ch. behshahriensis*, *Ch. bojnordensis*, *Ch. shahriari*, *Ch. stekolnikovi*, *Ch. talebii*, *Ch. terianae*, *Colleboerythraeus vosoughae*, *Erythraeus* (*E.*) *adanaensis*, *E.* (*E.*) *chrysoperlae*, *E.* (*E.*) *mirabi*, *E.* (*E.*) *pistacicus*, *E.* (*E.*) *populi*, *Erythraeus* (*Zaracarus*) *hafezi*, *E.* (*Z.*) *ueckermanni* (= *hamedanicus*), *E.* (*Z.*) *coleopterus*, *E.* (*Z.*) *soleimani*, *Iraniella moharrampouri*, *Leptus dilijanensis*, *Lasioerythraeus saboorii*, *Marantelophus sanandajensis*, *Momorangia binaloudensis*, *Moldoustium haitlingeri*, *Nagoricanelia bella*

**Laos** (HAITLINGER, 2007c) – *Charletonia shiroyama*, *Ch. volzi*

**Malaysia** (HAITLINGER, 2007c) – *Charletonia volzi*

**Maledives** (HAITLINGER, 2007c) – *Charletonia villingensis*

**Nepal** (HAITLINGER, 2009e) – *Charletonia ramoni*, *Ch. kovalamensis*, *Leptus* (*L.*) *astrubali*, *L.* (*L.*) *katticus*

**Pakistan** (KAMRAN, 2009; KAMRAN, AFZAL, RAZA, IRFANULLAH, BASHIR & AHMAD, 2009; KAMRAN, AFZAL, BASHIR, RAZA & SAEED KHAN, 2009; KAMRAN, AFZAL & BASHIR, 2013; KAMRAN & BASHIR, 2013) – *Abrolophus alfalfus*, *A. bohadani*, *A. faisalabadensis*, *A. khanjanii*, *A. pyrillus*, *A. thripsus*, *Erythraeus* (*E.*) *layyahensis*, *E.* (*E.*) *loomerus*, *E.* (*E.*) *shojaii*,

*Erythraeus* (*Zaracarus*) *longipedus*, *E.* (*Z.*) *perpusillus*, *Lasioerythraeus setarius*, *Leptus aphidius*, *L. eslamizadehi*, *L. hospeticus*, *L. lugenus*, *L. nearcticus*, *L. multanensis*, *L. pakistanensis*, *Pollux jhangensis*, *P. kovalamicus* (= *P. walli*), *P. okaraensis*, *P. punctatus*, *P. workandae*

**Saudi Arabia** (KAMRAN & ALATAWI, 2014, 2015, 2016) – *Abrolophus rudaensis*, *Balaustium yousifi*, *Charletonia bahaensis*, *Erythraeus* (*E.*) *uhadi*, *E.* (*Z.*) *lancifer*, *Madinahustium acaciaum*, *Marantelophus emanueli*, *Nagoricanelia salehi*

**Sri Lanka** (HAITLINGER, 2007c) – *Charletonia kovalamensis*, *Ch. ramoni*

**Thailand** (HAITLINGER, 2007c) – *Charletonia shiroyama*, *Ch. volzi*

**Vietnam** (MAKOL et al., 2012, HAITLINGER, 2013) – *Leptus* (*L.*) *kattikus*, *L. holgeri*

**Yemen** (WOHLTMANN, 2010) – *Phanolophus oedipodiarum*

## NORTH AMERICA

**USA** (ŠUNDIĆ, HAITLINGER, MICHAUD & COLARES, 2015) – *Erythraeus* (*Erythraeus*) *aphidivorous*

**Alaska** (MAKOL, 2010)

## SOUTH and CENTRAL AMERICA

**Brazil** (DUNLOP, 2007; PEREIRA, FADINI, PIKART, ZANUNCIO & SERRÃO, 2012; CLARK, 2014; SALVATIERRA & ALMEIDA, 2017; HAITLINGER, ŠUNDIĆ & POMPERMAIER, 2017; COSTA, KLOMPEN, DOS SANTOS, FAVRETTO & PEPATO, 2017) – *Leptus brasiliensis*, *L. planaltensis*, *Leptus* sp., *Callidosoma selmae*, *Neomomorangia asphaerae*. Fossil: *Pararainbowia martilli*

**Colombia** (MUÑOZ et al., 2009, MUÑOZ-CÁRDENAS et al., 2014, FUENTES-QUINTERO, 2015) – *Balaustium leanderi*

**Costa Rica** (MAYORAL & BARRANCO, 2011a) – *Charletonia domawiti*, *Ch. salazari*, *Leptus nikanori*

**French Guiana** (MAYORAL & BARRANCO, 2011b) – *Charletonia domawiti*, *Leptus multisolenidiae*, *L. nikanori*

**Guadeloupe** (HAITLINGER, 2011a) – *Abrolophus aitapensis*, *Leptus cabareticus*

**Trinidad** (TOWNSEND et al., 2008) – *Leptus* sp.

**Venezuela** (HAITLINGER, 2008b) – *Lasioerythraeus cardonensis*

## OCEANIA

**Papua New Guinea** (BERON, in prep.) – *Caeculisoma* (*Papuacaeculisoma*) *chapmani*, *C.* (*P.*) *novaeirlandiae*, *C.* (*C.*) *plantacionis*, *C.* (*C.*) *darwinense*

**New Zealand** (CLARK, 2013, 2014) – *Erythrites otamahua*, *Callidosoma susanae*, *Momorangia cham-*



bersi, *Grandjeanella macfarlanei*, *Pukakia aoraki*

**Hosts**

**Arachnida**

**Opiliones**

**Fam. Cranidae** – Erythraeidae

**Fam. Manaosbiidae** – Erythraeidae

**Fam. Phalangiidae** – *Charletonia terianae*

**Pseudoscorpiones**

**Fam. Cheliferidae** – *Charletonia terianae*

**Araneae**

**Mygalomorphae**

**Fam. Actinopodidae** – *Leptus* sp.

Araneae indet. – *Charletonia terianae*

**Insecta**

**Collembola**

**Fam. Sminthuridae** undet. –

*Collemborythraeus vosoughae*

**Orthoptera**

**Fam. Acrididae**

*Abracris flavolineata* – *Charletonia domawiti*

*Dociostaurus* cf. *tartarus* – *Eatoniana gonabadensis*

*Dociostaurus maroccanus* – *Charletonia behbahanensis*

*Episomacris gruneri* – *Leptus multisolenidiae*

*Ochrilidia* sp. – *Charletonia baluchestanica*

*Schistocerca nitens* – *Charletonia domawiti*

**Fam. Proscopiidae**

*Pseudoprosopia scabra* – *Leptus nikanori*

**Fam. Tettigoniidae**

*Anaulacomera* sp. – *Leptus nikanori*

*Neoconocephalus triops* – *Charletonia domawiti*

*Scopiorinus mucronatus* – *Charletonia salazari*

*Tettigonia* sp. – *Charletonia behshahriensis*

**Fam. Pyrgomorphidae**

*Zonocerus variegatus* – *Charletonia cameroonensis*, *Ch. justynae*

**Orthoptera indet.**

*Leptus* (*L.*) *salicus*, *L.* (*L.*) *biljanae*

**Mecoptera**

**Fam. Apteropanorpidae**

*Apteropanorpa tasmanica* – *Leptus agrotis*

**Odonata**

**Fam. Coenagrionidae**

*Ischnura hastata* – *Leptus killingtoni*

**Homoptera**

**Fam. Aphididae**

*Aphis craccivora* – *Eatoniana gonabadensis*

*Aphis* sp. – *Leptus pakistanensis*

*A. punicae* – *Lasioerythraeus saboorii*

*Melanaphis saccari* – *Erythraeus* (*E.*) *aphidivorous*

Aphididae undet. – *Marantelophus sanandajensis*

**Fam. Lophopidae**

*Pyrilla perpusilla* – *Erythraeus* (*Zaracarus*) *perpusillus*

**Fam. Psyllidae**

*Agonosцена pistaciae* – *Erythraeus* (*E.*) *pistacicus*

*Cacopsylla* sp. – *Marantelophus dubifurcatus*

**Fam. Cicadidae**

Undet. – *Erythraeus* (*Zaracarus*) *hafezi*

**Fam. Cicadellidae**

Undet. – *Charletonia talebii*

**Fam. Diaspididae**

*Parlatoria oleae* – *Nagoricanellella bella*

**Fam. Cercopidae**

Undet. – *Charletonia shahriari*

**Heteroptera**

**Fam. Pyrrhocoridae**

*Pyrrhocoris apterus* – *Erythraeus* (*Zaracarus*) *ueckermanni* (= *hamedanicus*)

**Fam. Coreidae**

*Cletus signatus* – *Leptus* sp.

**Fam. Nabidae**

Undet. – *Erythraeus* (*Zaracarus*) *hafezi*

**Fam. Pentatomidae**

Undet. – *Eatoniana plumipes* (= *Abalakeus jahromiensis*)

**Fam. Miridae**

*Farsiana pistaciae* – *Erythraeus* (*E.*) *pistacicus*

**Thysanoptera** undet. – *Marantelophus sanandajensis*

**Neuroptera**

**Fam. Chrysopidae**

*Chrysoperla kolthoffi* – *Erythraeus* (*E.*) *chrysoperlae*, *Erythraeus* (*Zaracarus*) *soleimanii*

Undet. – *Erythraeus* (*Zaracarus*) *hafezi*

**Hymenoptera**

**Fam. Formicidae**

*Lasius* sp. – *Makolia crimeaensis*

*Tapinoma* sp. – *Forania sendrai*

**Lepidoptera**

**Fam. Noctuidae**

*Apamea impedita* – *Momorangia binaloudensis*

*Pseudaletia unipuncta* – *Leptus killingtoni*

**Coleoptera**

**Fam. Scarabaeidae**

*Cyphonoxia* sp. – *Erythraeus* (*Z.*) *coleopterus*

**Fam. Buprestidae**

Undet. – *Charletonia bojnordensis*

**Fam. Tenebrionidae**

*Eupezus rufipes* – *Charletonia justinae*

**Diptera**

**Fam. Tachinidae**

Undet. – *Erythraeus* (*Zaracarus*) *hafezi*

## References

## Publications on Calyptostomatoidea (suppl. 2008 – 2016 and omissions)

- GABRYŚ G., MAKOL J. 1997. Trombidia = Parasitengona terrestrial (Calyptostomatoidea, Erythraeoidea, Tanaupodoidea, Chyzeroidea, Trombiculoidea, Trombidioidea). In: Razowski J. (ed.), Wykaz zwierząt Polski [Checklist of Animals of Poland], Vol.IV. Wydawnictwa Instytutu Systematyki Ewolucji Zwierząt PAN, Kraków, 225 – 229.
- GABRYŚ G., MAKOL J., ŁAYDANOWICZ, J. 2008. Calyptostomatoidea. Pp. 140-142, 209. In: Bogdanowicz W., Chudzicka E., Pilipiuk I. and E. Skibińska (Eds), Fauna of Poland, Characteristics and checklist of species. Museum i Instytut Zoologii PAN, Warszawa, 3, 603 pp.
- HAITLINGER R. 2010a. New records of mites (Acari: Prostigmata: Calyptostomatidae, Erythraeidae, Johnstonianidae, Microtrombididae, Podothrombidiidae, Trombididae) from Estonia, Latvia and Lithuania. – Zeszyty naukowe uniwersytetu Wrocławskiego, Biologia i Hodowla zwierząt, **61**(579): 49 – 55.

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#### Fossil Calyptostomatoidea and Erythraeoidea

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# Acarorum Catalogus I – Първо допълнение (2008–2016)

Петър БЕРОН

## (Резюме)

След публикуването на първия том на *Acarorum Catalogus* (BERON, 2008), бяха публикувани много нови данни за надсем. Calyptostomatoidea и Erythraeoidea (Erythraeidae, Smarididae) от мен и от мнозина полски, германски, ирански, черногорски, пакистански, испански и други колеги. Бяха описани нови таксони и извършени таксономични промени, както и допълнения в географското разпространение на тези акари. Бяха добавени 10 нови рода и повече от 120 нови вида, някои видове и 7 рода отпаднаха като синоними. Вследствие на това беше актуализиран броят на родовете и видовете в семействата: един род и девет вида Calyptostomatidae, 10 рода и 56 вида Smarididae и 57 рода и повече от 850 вида Erythraeidae. Библиографията на настоящото първо допълнение на Католага включва 166 нови и пропуснати заглавия за периода 2008-2016 (някои от тях през 2017 г.).