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New records of mites from Albania, Greece (Lesbos), Italy and Montenegro, with notes on some species (Acari: Prostigmata: Erythraeidae, Microtrombidiidae, Neotrombidiidae, Trombellidae, *Trombidiidae*)

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Abstract: *Abrolophus anzelmi*, *A. dagmarae* and *A. stanislavae* are the first time noted from continental Italy, *A. wratislaviensis* is first time noted from south Italy, *Erythraeus (Erythraeus) regalis* is new to the fauna of Greece. *Neotrombidium samsinaki*, *Sibumbella esteræ* and *Charletonia kalithensis* are new to the fauna of Montenegro and *Abrolophus quisquiliarus*, *Erythraeus (Erythraeus) lancifer*, *E. (E.) moeritzensis*, *E. (E.) southcotti*, *Marantelophus iranicus*, *C. kalithensis*, *Iranitrombium miandoabicum* and *Allothrombium fuliginosum* are new to the fauna of Albania. New species to fauna of Lesbos were found. *Abrolophus montenegrinus* is synonymized with *A. quisquiliarus*. New host is found for *Leptus (Leptus) mariae*. New or corrected metric and meristic data for *Sibumbella esteræ* and some *Abrolophus* species are provided. A list of Parasitengona mites for Albania and Montenegro is given.

Key words: Acari, Prostigmata, new records, new host, new metric and meristic data.

Introduction

To date, in Albania the following terrestrial Parasitengona mites were found: *Calyptostoma velutinum* (MÜLLER, 1776), *Erythraeus (Erythraeus) regalis* (C. L. KOCH, 1837), *E. (Zaracarus) albanicus* HAITLINGER, 2012, *E. (Z.) budapestensis* FAIN & RIPKA, 1998, *Leptus (Leptus) josifovi* BERON, 1975, *Abrolophus silesiacus* (HAITLINGER, 1986) [as *A. kotorensis* (HAITLINGER, 2007)], *Charletonia krendowwskyi* (FEIDER, 1954), *C. elbasani* ŠUNDIĆ, HAITLINGER & MILOSEVIĆ, 2017, *Valgothrombium melindae* HAITLINGER, 2008 (HAITLINGER 2012a, 2015, HAITLINGER & ŠUNDIĆ 2014, 2015, ŠUNDIĆ et al. 2017). In this paper *Arolophus quisquiliarus* (HERMANN, 1804), *Erythraeus (Zaraarus) lancifer* SOUTHCOTT, 1995, *E. (E.) moeritzensis* HAITLINGER, 2007, *E. (E.) southcotti* GOLDARAZENA & ZHANG, 1998, *Marantelophus irancus* (HAITLINGER & SABOORI, 1996), *Charletonia kalithensis* HAITLINGER, 2006, *Allothrombium fuliginosum* (HERMANN, 1804) and *Iranitrombium miandoabicum* SABOORI & HAJIQANBAR, 2003 are for the first time found in Albania. New locality for *Abrolophus silesiacus* is given.

To date, 28 species of terrestrial Parasitengona were known from Sicily (HAITLINGER 2016). In this paper *Abrolophus wratislaviensis* (HAITLINGER, 1986) is recorded for the first time for the fauna of Calabria and Sicily, *A. anzelmi* HAITLINGER & ŁUPICKI, 2013 and *A. dagmarae* (HAITLINGER, 2012) known only from Sicily, are recorded for the first time for the fauna of continental Italy (prov. Toscana).

Hitherto no species of Parasitengona terrestrial were known from Lesbos. Three species: *Abrolophus silesiacus*, *Charletonia krendowskyi* and *Erythraeus (Zaracarus) budapestensis* are new for the fauna of Lesbos and *E. (E.) regalis* is new for the fauna of Greece.

List of the 51 species found in Montenegro was given by SABOORI et al. (2017). Because, this list has errors we have corrected list with species the first time recorded from Montenegro: *Erythraeus (E.) cinereus*, *E. (E.) regalis*, *Charletonia kalithensis* HAITLINGER, 2006, *Neotrombidium smsinaki* (DANIEL, 1963) and *Simumbella esterae* HAITLINGER, 2005. Corrected list: Chyzeridae: *Parawenhoekia seadi* SABOORI & PEŠIĆ, 2008, Erythraeidae: *Abrolophus balkanicus* HAITLINGER & ŠUNDIĆ, 2015, *A. kazimierae* (HAITLINGER, 1986), *A. norvegicus* (THOR, 1900), *A. petanovicuae* SABOORI, ŠUNDIĆ & PEŠIĆ, 2012, *A. podorasensis* (HAITLINGER, 2007), *A. quisquiliarus* (HERMANN, 1804), *A. silesiacus*, *A. stanislavae* (HAITLINGER, 1986), *A. wratislaviensis*, *Balaustium murorum* (HERMANN, 1904), *B. nikae* HAITLINGER, 1996, *Charletonia bucephalia* BERON, 1975, *C. kalithensis*, *C. krendowskyi*, *Erythraeus (E.) ankaraiicus* SABOORI, ÇOBANOĞLU & BAYRAM, 2004, *E. (E.) cinereus* (DUGÉS, 1834), *E. (E.) regalis*, *E. (E.) smoylanensis* HAITLINGER, 2009, *E. (E.) southcotti*, *E. (Z.) aydinicus* SABOORI, CAKMAK & NOURI-GONBALANI, 2004, *E. (Z.) budapestensis*, *E. (Z.) tuzicus* HAITLINGER & ŠUNDIĆ 2015, *Italustium efraini* HAITLINGER, 2000, *Leptus (Leptus) biljanae* ŠUNDIĆ & HAITLINGER, 2015, *L. (L.) eslamizadehi* SABOORI, 2002, *L. (L.) josifovi*, *L. (L.) molochinus* C.L. KOCH, 1837, *Marantelophus iranicus* (HAITLINGER & SABOORI, 1996), *M. multisetosa* (ZHANG & GOLDARAZENA, 1996), *M. rudaensis* (HAITLINGER, 1986), *Moldoustium haitlingeri* NOEI, SABOORI & ŠUNDIĆ 2013, *Monteustium marezensis* HAITLINGER & ŠUNDIĆ 2015, Johnstonianidae: *Johnstoniana parva* WENDT, WOHLTMANN & EGGERS, 1994, Microtrombidiidae: *Atractotrombidium sylvaticum* C. L. KOCH, 1835, *Camerotrombidium pexatum* C. L. KOCH, 1837, *Enemotrombidium bifoliosum* (CANESTRINI, 1884), *Eutrombidium trigonum* (HERMANN, 1804), *Microtrombidium pusillum* (HERMANN, 1804), *Porttrombidium milicae* (SABOORI & PEŠIĆ, 2006), *Platytrombidium fasciatum* C. L. KOCH, 1836, *Trichotrombidium rafieiaie* SABOORI, 2002, Neotrombidiidae: *Neotrombidium samsinaki* Smarididae: *Hirstiosoma amfilohjei* HAITLINGER & ŠUNDIĆ, 2017; Tanaupodidae: *Lassenia novoseljensis* HAITLINGER & ŠUNDIĆ, 2015, Trombellidae: *Sibumbella esterae*, Trombidiidae: *Allothrombidium clavatum* SABOORI, PEŠIĆ & HAKIMITABAR 2010, *A. meridionale* BERLESE, 1910, *A. pulvinum* EWING, 1917, *A. wolmari* HAITLINGER, 2000, *Arknotrombidium arknesianum* HAITLINGER, 2007, *Iranitrombidium miandoabicum* SABOORI & HAJQANBAR, 2003, *Trombidium botovicum* HAITLINGER, 2004, *T. montenegrinum* SABOORI, ŠUNDIĆ & PEŠIĆ, 2017 (HAITLINGER 2007e, 2012a, 2015, 2016, HAITLINGER & ŠUNDIĆ 2014, 2015a, b, c, d, e, 2016, 2017, NOEI et al. 2013, SABOORI & PEŠIĆ 2006a, b, SABOORI et al. 2008a, b, 2010, 2012, ŠUNDIĆ, 2014, ŠUNDIĆ & HAITLINGER 2015, ŠUNDIĆ & PEJOVIĆ 2012, 2013). *Abrolophus montenegrinum* SABOORI, ŠUNDIĆ & PEŠIĆ, 2012 is synonymized with *A. quisquiliarus*. New host for *L. (L.) mariae* is noted. New or corrected metric and meristic data for some *Abrolophus* species are given.

Material and methods

Larvae from Italy and Lesbos (Greece) were collected by R. HAITLINGER. Larvae from Albania, Montenegro and Serbia were collected by M. ŠUNDIĆ, all from herbaceous plants, excluding larvae obtained from *Cerambyx cerdo* and *Drosophila subobscura*. Larvae were preserved in 70% ethanol and mounted on microscioic slides using Hoyer's medium. Measurements (given in micrometers) were made using microscope NICON Eclipse 80i. Figures were drawn using Carl Zeiss Axioscope A1 microscope. The terminology and abbrevuations follow HAITLINGER (1999, 2013).

Results

Family Neotrombidiidae FEIDER, 1955

Genus *Neotrombidium* LEONARDI, 1901

Neotrombidium samsinaki (DANIEL, 1963)

Cockingsia samsinaki DANIEL, 1963

M a t e r i a l e x a m i n e d : 159 larvae collected on *Cerambyx cerdo*, 10 July 2016, Petrovac, Montenegro.

This species was known only from Czech Republic (DANIEL 1963) is associated with *Cerambyx cerdo* LINNAEUS, 1758 (Inscta: Coleoptera: Cerambycidae). Metric and meristic data of specimens from Montenegro not differs from specimens obtained in Czech Republic. First record from Montenegro.

Family Trombellidae THOR, 1935

Subfamily Sibumbellinae HAITLINGER, 2005

Genus *Sibumbella* HAITLINGER, 2005

Simumbella esteraae HAITLINGER, 2005

M a t e r i a l e x a m i n e d : 1 larva, 10 July 2016, Petrovac, Montenegro.

This species was described from Croatia based on a single specimen (HAITLINGER 2005a). The second specimen was collected in Montenegro. New species to fauna of Montenegro. Measurements for holotype and specimen from Montenegro are given in Tab. 1.

Family Trombidiidae LEACH, 1815

Genus *Iranitrombium* SABOORI & HAJIQANBAR, 2003

Iranitrombium miandoabicum SABOORI & HAJIQANBAR, 2003

M a t e r i a l e x a m i n e d : 2 larvae, Gjader, Albania, 9 June 2016. This species was known only from Iran and Montenegro (SABOORI et al. 2003, HAITLINGER & ŠUNDIĆ 2014). First record from Albania.

Genus *Allothrombium* BERLESE, 1903

***Allothrombium fuliginosum* (HERMANN, 1804)**

M a t e r i a l e x a m i n e d : 1 larva, Gjader, Albania, 9 June 2016.

D i s t r i b u t i o n : Europe, Algeria, Tunisia, Turkey. First record from Albania.

Family Erythraeidae ROBINEAU-DESVOIDY, 1828

Genus *Erythraeus* LATREILLE, 1806

***Erythraeus (Erythraeus) cinereus* (DUGÉS, 1834)**

Syn. *E. (E.) jowitae* HAITLINGER, 1987

M a t e r i a l e x a m i n e d : 4 larvae, Korita Kučka, Montenegro, 5 July 2015. Species wide-spread in Europe (HAITLINGER 1987b, BERON 2008, MAKOL & WOHLTMANN 2012, STÄLSTEDT et al. 2016). First record from Montenegro.

D i s t r i b u t i o n : Belgium, Finland, France, Germany, Holland, Hungary, Italy, Macedonia, Montenegro, Norway, Poland, Romania, Sweden.

***Erythraeus (E.) hilariae* HAITLINGER, 2010**

M a t e r i a l e x a m i n e d : 2 larvae, Ganjolla, Albania, 8 June 2017.

Erythraeus (E.) hilariae was described from Turkey (HAITLINGER 2010). Now two larvae are collected in Albania. New to fauna of Albania.

***Erythraeus (E.) moeritzensis* HAITLINGER, 2007**

M a t e r i a l e x a m i n e d : 1 larva, Ganjolla, Albania, 7 June 2017.

Species known only from Switzerland (HAITLINGER 2007a). First record from Albania.

***Erythraeus (E.) regalis* (C. L. KOCH, 1837)**

Syn. *E. (E.) gertrudae* HAITLINGER, 1987, *E. (E.) kuyperi* (OUDEMANS, 1910)

M a t e r i a l e x a m i n e d : 1 larva, Vatera, Lesbos, Greece, 1 larva, 17 June 2017, 5 larva, Korita Kučka, Montenegro, 5 July 2015.

Common species in Europe (BERON 2008, MAKOL & WOHLTMANN 2012, STÄLSTEDT et al. 2016). First record from Montenegro and first record from Greece.

D i s t r i b u t i o n : Algeria, Austria, Bulgaria, Czech Republic, Denmark, Estonia, France, Germany, Great Britain, Greece (Lesbos), Holland, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lithuania, Montenegro, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine.

***Erythraeus (Zaracarus) budapestensis* FAIN & RIPKA, 1009**

M a t e r i a l e x a m i n e d : 4 km west of Agiossos, Lesbos, 4 larva, 19 June, 2 larva, 21 June 2017. First record from Lesbos.

***Erythraeus (Z.) lancifer* SOUTHCOTT, 1995**

Material examined: 2 larvae, Gjader, Albania, 9 June 2016.

Rare species was known hitherto from Sadi Arabia and Spain (SOUTHCOTT 1995, KAMRAN & ALATAWI 2014). First record from Albania.

Genus *Charletonia* OUDEMANS, 1910

***Charletonia kalithensis* HAITLINGER, 2006**

Material examined: 2 larvae, Canyon Cijvena n. Podgorica, Montenegro, 18 May 2017, 2 larvae, Funiq, Albania, 12 June 2017. Species known only from Samos, Greece, from 2 specimens (HAITLINGER 2006a). Metric data are given in Table 3. First record from Albania and Montenegro.

***Charletonia krendowskyi* (FEIDER, 1954)**

Material examined: 4 km west of Agiossos, Lesbos, 4 larva, 19 June, 3 larva, 21 June 2017. First record from Lesbos.

Genus *Leptus* LATREILLE, 1796

***Leptus (Leptus) mariae* HAITLINGER, 1987**

Material examined: 4 larvae, 2 larvae obtained on *Drosophila subobscura* COLLIN, 1936 (Insecta: Diptera: Drosophilidae), 2 larvae from herbaceous plants, Petrovac, Serbia, July 2014.

This species is wide-spread in Europe (BERON 2008, MAKOL & WOHLTMANN 2012). *L. (L.) mariae* has a many hosts. I was obtained from at least six hosts (BERON 2008). *Drosophila subobscura* is new host for *L. (L.) mariae*. From Drosophilidae erythraeid larvae were obtained very rarely. *Harpagella moxonae* SOUTHCOTT, 1996 was collected on *Drosophila inornata* MALLOCH, 1923 and *Drosophila* sp.(SOUTHCOTT, 1996)

Genus *Marantelophus* HAITLINGER, 2011

***Marantelophus iranicus* (HAITLINGER & SABOORI, 1996)**

Syn. *M. kamalii* (SABOORI & ATTAMEHR, 2000)

Material examined: 17 larvae, Funiq, Albania, 12 June 2017.

Distribution: Albania, Greece, Hungary, Iran, Italy (Scily), Montenegro, San Marino, Ukraine. First record from Albania.

Genus *Abrolophus* BERLESE, 1891

***Abrolophus aitapensis* (SOUTHCOTT, 1948)**

Material examined: 1 larva, Bali, 1 larva Macao, 4 larvae Madagascar, 1 larva Vietnam.

This species was known from Papua-New Guinea, Bali (Indonesia), Macao (China), Madagascar and Vietnam (SOUTHCOTT 1948, HAITLINGER 1987a, b, 2006, 2011). So far metric data were published only for holotype. New measurements are given in Table 1.

***Abrolophus anzelmi* HAITLINGER & ŁUPICKI, 2013**

Material examined: 1 larva, 4 km north of Vicari, prov. Palermo, Sicily, 25 April, 2017, 1 larva, 6 km south of Valdichiana, Toscana, 14 May 2017.

A. anzelmi hitherto was known only from Sicily and found in Msseria la Chiusa, Graniti and the vicinity of Bivona (HAITLINGER & ŁUPICKI 2013b, 2015). First record from continental Italy.

***Abrolophus basumtwiensis* HAITLINGER, 2007**

Species known only from Ghana (HAITLINGER 2007c). New measurements, based on holotype: 2a 26, 3a 18, PaFe (L) 23, PaFe (W) 40, PaGe (L) 10, PaGe (W) 22, PsFv 34, OD 19, Prd (L) 9, Prd (W) 6, *bs* 29, *cs* 27, ω_1 23. Corrected leg setal formula: Leg I: Ta - 1 ω , 2 ζ , 17; Ti - 2 ϕ , 1 κ , 13;; Ge - 1 σ , 1 κ , 11; Tf - 8; Bf - 4; Tr - 2; Cx - 1. Leg II: Ta - 1 ω , 2 ζ , 16; Ti - 2 ϕ , 12; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta - 1 ζ , 16; Ti - 1 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1.

***Abrolophus benoni* (HAITLINGER, 2002)**

Species known from Canary Islands and Madeira (HAITLINGER 2002, 2004). New measurements, based on holotype and paraatypes: 3a 28-34, PaFe (L) 39-42, PaFe (W) 39-43, PaGe (L) 10-14, PaGe (W) 24-28, OD 22-23, ω_1 31-35, *bs* 41-42, *as*₁ 8-12, *as*₂ 20-23, *cs* 16-18. Corrected setal formula: Ta - 1 ω , 2 ζ , 1Cp, 20; Ti - 2 ϕ , 1 κ , 12; Ge - 1 σ , 1 κ , 9; f - 8; Bf - 4; Tr - 2; Cx - 1. Leg II: Ta - 1 ω , 2 ζ , 16; Ti - 2 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta - 1 ζ , 16; Ti - 1 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1.

***Abrolophus bohdani* (HAITLINGER, 2003)**

Species known only from Poland (HAITLINGER 2003). New measurements, based on holotype and paratypes: 3a 23-25, PaFe (L) 29-34, PaFe (W) 31-38, PaGe (L) 9-11, PaGe (W) 21-26, OD 19-21, ω_1 20-25, *bs* 19-23, *cs* 12-14, *as*₁ 12-13, *as*₂ 17-22, *elcp* 4. Corrected leg setal formula: Leg I: Ta - 1 ω , 2 ζ , 17; Ti - 2 ϕ , 1 κ , 12; Ge - 1 σ , 1 κ , 11; Tf - 8; Bf - 4; Tr - 2; Cx - 1. Leg II: Ta - 1 ω , 2 ζ , 16; Ti - 2 ϕ , 12; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta - 1 ζ , 14; Ti - 1 ϕ , 12; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1.

***Abrolophus crimensis* HAITLINGER, 2008**

This species is known only from Crimea (HAITLINGER 2008a). The following new or corrected metric and meristic data are added, based on holotype: ASE 29, PSE 53, OD 30, *as*₁ 24, *as*₂ 32, *cs* 35, *bs* 43, ω_1 26, PaFe (L) 41, PaFe (W) 47, PaGe (L) 24, PaGe (W) 27, PsFv 41, corrected leg setal formula: Leg I: Ta - 1 ω , 2 ζ , 17; Ti - 2 ϕ , 1 κ , 13; Ge - 1 σ , 1 κ , 11; Tf - 8; Bf - 4; Tr - 2; Cx - 1. Leg II: Ta - 1 ω , 2 ζ , 16; Ti - 2 ϕ , 12; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta - 1 ζ , 16; Ti - 1 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Palpfemur with a distinct projection.

***Abrolophus dagmarae* (HAITLINGER, 2012)**

Material examined: Resuttano, prov. Caltanissetta, 1 larva, 1 May 2017, Riserve Naturale Orientata Monte Cammarata, prov. Agrigento, 1 larva, 7 May 2017, Prizzi, prov. Palermo, 1 larva, 7 May 2017 all from Sicily, 2 larvae, 5 km south of Valdichiana, prov. Toscana, 14 May 2017.

A. dagmarae was known from seven localities only from Sicily (HAITLINGER 2012b, HAITLINGER & ŁUPICKI 2015). First record from continental Italy.

***Abrolophus humberti* (HAITLINGER, 1996)**

Species known only from Poland (HAITLINGER 1996). New measurements, based on holotype and paratypes: *2a* 28-29, *3a* 27-28, PaFe (L) 41-43, PaFe (W) 45-52, PaGe (L) 17-18, PaGe (W) 29-33, OD 19-20, ω_1 27-30, *bs* 28-29, *as*₁ 12-13, *as*₂ 14-15.

***Abrolophus khanjani* (HAITLINGER & SABOORI, 1996)**

Species known only from Iran (HAITLINGER & SABOORI 1996). New measurements, based on holotype: *2a* 31, *3a* 29, PaFe (L) 31, PaFe (W) 33, PaGe (L) 10, PaGe (W) 20, OD 19, ω_1 19, *bs* 39, *as*₁ 10, *as*₂ 18, *cs* 15.

***Abrolophus longicollis* (OUDEMANS, 1910)**

Species known from middle and north Europe (MAKOL & WOHLTMANN 2012). New measurements, based on specimens from Poland: *2a* 53-63, *3a* 51-61, PaFe (L) 41-47, PaFe (W) 49-53, PaGe (L) 17-19, PaGe (W) 30-31, OD 28-32, *bs* 42-43, *as*₂ 22-28, *as*₁ 7-13, *cs* 36-40, ω_1 22-27.

Leg setal formula: Leg I: Ta - 1 ω , 2 ζ , 1Cp, 23; Ti - 2 ϕ , 1 κ , 13; Ge - 1 σ , 1 κ , 11; Tf - 7; Bf - 4; Tr - 2; Cx - 1. Leg II: Ta - 1 ω , 2 ζ , 1Cp, 20; Ti - 2 ϕ , 13; Ge - 1 σ , 1 κ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta 1 ζ , 20; Ti - 1 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1.

***Abrolophus marinensis* HAITLINGER, 2007**

Species known only from Corsica (HAITLINGER 2007d). New measurements, based on holotype: *3a* 28, PsFv 31, PaFe (L) 28, PaFe (W) 38, PaGe (L) 16, PaGe (W) 30, OD 27, ω_1 21, *bs* 23, *as*₁ 9, *as*₂ 19, *cs* 27, *elcp* 3.

Corrected setal formula: Leg I: Ta - 1 ω , 2 ζ , 17; Ti - 2 ϕ , 1 κ , 13; Ge - 1 σ , 1 κ , 11; Tf - 8; Bf - 4; Tr - 2; Cx - 1. Leg II: Ta - 1 ω , 2 ζ , 16; Ti - 2 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta - 1 ζ , 14; Ti - 1 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1.

***Abrolophus mirabelae* HAITLINGER, 2007**

Species known from France and Switzerland (HAITLINGER 2007a, b). New measurements, based on holotype and paratypes: *3a* 26-28, PsFv 28-30, PaFe (L) 30-31, PaFe (W) 34-35, PaGe (L) 11-12, PaGe (W) 25-26. OD 17-18, ω_1 23-24, *bs* 32-33, *as*₁ 6-7, *as*₂ 14-15, *cs* 13-15. Corrected setal formula: Leg I: Ta - 1 ω , 2 ζ , 18; Ti - 2 ϕ , 1 κ , 13; Ge - 1 σ , 1 κ , 11; Tf - 8; Bf - 4; Tr - 2; Cx - 1. Leg II: Ta - 1 ω , 2 ζ , 16; Ti - 2 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta - 1 ζ , 18; Ti - 1 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1.

***Abrolophus nymmindegabicus* HAITLINGER, 2008**

Species known only from Denmark and Sweden (HAITLINGER 2008b). New measurements, based on holotype: 2a 31, 3a 26, 2b 24, PsFv 27, PaFe (L) 32, PaFe (W) 32, PaGe (L) 8, PaGe (W) 25, OD 16, ω_1 20, bs 29, as₁ 16, as₂ 16, cs 16.

***Abrolophus penelopae* HAITLINGER, 2005**

Species known only from Ethiopia (HAITLINGER 2005b). New measurements, based on holotype: PaFe (L) 24, PaFe (W) 25, PaGe (L) 10, PaGe (W) 23, OD 17, ω_1 20, bs 23. Corrected leg setal formula: Leg I: Ta - 1 ω , 2 ζ , 16; Ti - 2 ϕ , 1 κ , 13; Ge - 1 σ , 1 κ , 11; Tf - 8; Bf - 4; Tr - 2; Cx - 1. Leg II: Ta - 1 ω , 2 ζ , 14; Ti - 2 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta - 1 ζ , 15; Ti - 1 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1.

***Abrolophus petanovicae* SABOORI, ŠUNDIĆ & PEŠIĆ, 2012**

Species known only from Montenegro and Serbia (SABOORI et al. 2017). Additional measurements, based on specimens from Montenegro: OD 24-30, ω_1 24-25, PaFe (L) 34-36, PaFe (W) 32-33, PaGe (L) 19-20, PaGe (W) 18-23.

***Abrolophus quisquiliarus* (HERMANN, 1804)**

Syn. *A. pseudolongicollis* (HAITLINGER, 1987) *A. pseudolongicollis kiejestuti* HAITLINGER, 2006, *A. montenegrinus* SABOORI, ŠUNDIĆ & PEŠIĆ 2012 **syn. nov.**

M a t e r i a l e x a m i n e d : 2 larvae, Finiq, Albania, 16 June 2016. First record from Albania.

Abrolophus quisquiliarus was described based on adults and was known from many European countries (BERON 2008, MAKOL & WOHLTMANN 2012). *A. pseudolongicollis* and *A. pseudolongicollis kiejestuti* were described based on larvae (HAITLINGER 1987a, 2006) and synonymized with *A. quisquiliauis* by ŁAYDANOWICZ & MAKOL (2008) but without reason for synonymisation. Now we have larvae obtained from field-collected females of *A. quisquiliarus*. These larvae and larvae of *A. pseudolongicollis* were compared with *A. montenegrinus* described from Montenegro by SABOORI et al. (2012). Metric and meristic data of *A. montenegrinus* are identical with these for *A. quisquiliarus* (Tab. 2). Based on these data we found that *A. montenegrinus* is synonym of *A. quisquiliarus*.

***Abrolophus silesiacus* (HAITLINGER, 1986)**

M a t e r i a l e x a m i n e d : 1 larva, 4 km west of Agiossos, Lesbos, 21 June 2017, 1 larva, Ganjolla, Albania, 7 June 2017. First record from Lesbos and new locality from Albania.

***Abrolophus stanislavae* (HAITLINGER, 1986)**

M a t e r i a l e x a m i n e d : 5 km south of Valdichiana, prov. Toscana, Italy, 1 larva, 14 May 2017.

First record from Italy.

D i s t r i b u t i o n : Austria, Bosnia and Hercegovina, France, Italy, Montenegro, Poland, Slovakia.

***Abrolophus unimiri* HAITLINGER, 2006**

Species known only from China (HAITLINGER 2006b). New measurements, based on holotype: 2a 29, 3a 28, PaFe (L) 36, PaFe (W) 44, PaGe (L) 12, PaGe (W) 32, OD 23, ω_1 26, *bs* 30, *as*₁ 7, *as*₂ 21, elcp 5.

Corrected leg setal formula: Leg I: Ta - 1 ω , 2 ζ , 15; Ti - 2 ϕ , 1 κ , 13; Ge 1 σ , 1 κ , 11; Tf - 8; Bf - 4; Tr - 2; Cx 1. Leg II: Ta - 1 ω , 2 ζ , 16; Ti - 2 ϕ , 13; Ge - 1 σ , 9; Tf - 5; Bf - 4; Tr - 2; Cx - 1. Leg III: Ta 1 ζ , 14; Ti - 1 ϕ , 13; Tf - 5; Bf - 4; Tr - 2; Cx - 1.

***Abrolophus wratislaviensis* (HAITLINGER, 1986)**

M a t e r i a l e x a m i n e d : Frascineto, prov. Cosenza, Calabria, 14 April 2017, Monreale prov. Palermo, Sicily, 19 April 2017.

A. wratislaviensis was known only from north Italy (prov. Trento) (HAITLINGER 2007b). First records from south Italy.

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Tab. 1. Metric data for *Sibumbella esterae* HAITLINGER, 2005 – 1 H – holotype, 1 – Montenegro and *Abrolophus aitapensis* (SOUTHCOTT, 1948) – 2 H – holotype, Papua New Guinea, 3 – Bali, 4 – Macao, 5 – Madagascar, 6 – Vietnam.

Character	1 H	1	2 H	3	4	5 n=4	6	Range
IL	787	692	350	362	373	405	496	350-496
IW	698	504	220	255	244	261	212	212-261
L	72	67	53	59	58	56	58	53-59
W	46	46	41	49	43	45	44	41-49
AW	-	36	-	28	27	31-37	36	27-37
PW	36	53	-	41	36	33-40	40	36-41
AL	-	-	41	44	40	38-45	44	38-45
PL	24	33	30	38	-	33-36	34	30-38
AM/ASE	18	24	24	25	23	21-28	28	21-28
PSE	-	63	56	49	-	48-59	60	48-60
ISD	50	-	-	38	40	39-45	44	38-45
AA	8	16	-	10	11	9-11	10	9-11
SB	14	-	-	9	10	10-11	10	9-11
AP	42	44	-	20	14	14-20	20	14-20
GL	72	84	-	85	83	81-87	-	81-87
DS	32-46	35-48	20-31	22-26	20-33	20-36	28-32	20-36
PsFd	30	31	-	-	28	26-30	-	26-30
PsFv	-	-	-	32	30	30-36	-	30-36
PsGd	24	21	-	-	-	-	-	-
PaFe (L)	20	28	-	26	23	26-27	-	23-27
PaFe (W)	21	22	-	26	24	28-31	-	24-31
PaGe (L)	14	14	-	10	8	10-12	-	8-12
PaGe (W)	18	18	-	22	18	18-20	-	18-22
1a	38	46	-	28	32	25-33	-	25-33
2a	-	-	-	24	-	21-24	-	21-24
3a	32	32	-	-	-	-	-	-
1b	40	58	31	36	32	30-40	-	30-40
2b	44	54	18	22	18	22-23	-	18-23
3b	44	54	20	20	25	24-29	-	20-29
as ₁	-	-	-	-	-	-	-	-
as ₂	-	-	-	-	11	14-15	-	11-15
Bs	20	15	-	33	24	24-35	-	24-35

Character	1 H	1	2 H	3	4	5 n=4	6	Range
Cs	-	-	-	-	15	12	-	12-15
OD	8	7	-	21	17	17-18	-	17-21
ω I	14	15	-	23	20	17-24	-	17-24
Ta I	76	89	41	44	43	42-46	44	41-46
Ti I	50	54	52	48	42	45-48	46	42-52
Ge I	40	43	-	49	46	44-50	52	44-52
Tf I	Fe60	Fe42	-	20	23	22-28	28	20-28
Bf I	-	-	-	32	35	31-39	36	31-39
Tr I	26	25	-	31	27	25-31	40	25-40
Cx I	44	46	-	46	42	47-48	44	42-48
Ta II	76	81	-	38	37	36-40	36	36-40
Ti II	46	56	-	45	43	43-47	46	43-47
Ge II	36	38	-	39	41	42-44	48	39-48
Tf II	Fe58	Fe56	-	20	18	20-22	28	18-28
Bf II	-	-	-	31	30	22-28	32	22-32
Tr II	28	32	-	24	23	27-30	36	23-36
Cx II	46	44	-	49	55	52-57	54	49-57
Ta III	86	96	-	38	41	36-42	40	36-42
Ti III	58	65	-	62	57	55-63	62	55-63
Ge III	42	47	-	47	51	50-55	60	47-60
Tf III	Fe62	Fe62	-	23	25	20-27	32	20-32
Bf III	-	-	-	30	34	26-29	32	26-34
Tr III	40	36	-	28	27	26-28	30	26-30
Cx III	40	47	-	46	54	51-57	56	46-57
Leg I	296	319	300*	270	258	272-289	290	258-290
Leg II	290	309	275*	246	247	251-258	280	246-280
Leg III	328	353	315*	274	289	281-284	312	274-312
IP	914	981	890*	790	794	808-827	882	790-882

* with claws

Tab. 2. Metric data for *Abrolophus quisquiliarus* (HERMANN, 1804) from Poland and Bosnia - 1, collected from females in laboratory (material from Italy and Poland) – 2, from Montenegro (as *A. montenegrinus*) – 3.

Character	1	2	3	Range
L	60-80	66-71	65-74	60-80

Character	1	2	3	Range
W	52-70	60-69	55-72	52-72
AW	30-48	41-43	38-45	30-48
PW	44-60	53-61	50-62	44-62
AL	38-52	36-41	37-45	36-52
PL	40-54	40-45	40-45	40-54
ASE	26-40	24-34	27-34	24-40
PSE	52-60	55-57	45-53	45-60
ISD	40-56	48-52	43-52	40-56
AP	16-24	20-21	20-24	16-24
GL	120-130	137-143	127-134	120-143
DS	30-60	28-56	25-52	25-58
PsFd	36-50	37-44	40-52	36-52
PsFv	52-60	51-57	40-59	40-60
PaFe (L)	35-45	33-39	34-42	33-45
PaFe (W)	40-47	39-44	35-42	35-47
PaGe (L)	15-18	10-15	12-15	10-18
PaGe (W)	29-33	28-30	24-28	24-33
<i>1a</i>	34-44	37-42	37-44	34-44
<i>2a</i>	25-30	22-31	20-39	20-39
<i>3a</i>	27-35	27-29	26-31	26-35
<i>1b</i>	38-52	47-50	38-50	38-50
<i>2b</i>	30-46	24-32	27-33	24-42
<i>3b</i>	28-42	34-37	35-37	28-37
<i>bs</i>	36-48	42-43	40-42	36-48
<i>cs</i>	18-25	12-14	16-18	12-25
<i>as₁</i>	6-7	7-8	5	5-8
<i>as₂</i>	20-25	18-22	21-23	19-25
<i>elcp</i>	4-5	5	-	4-5
OD	24-29	25-27	24-30	24-30
Prd	5-7	5-6	6-7	5-7
AA	8-14	10-12	10-12	8-14
SB	10-14	11-13	11-12	10-14
ω_1	25-33	27-30	26-28	25-33
Ta I	56-66	66-70	54-62	54-70
Ti I	66-84	77-79	71074	66-84

Character	1	2	3	Range
Ge I	62-76	71-75	65-72	62-76
Tf I	32-44	39-42	37-38	32-44
Bf I	38-52	46-53	30-58	30-58
Tr I	32-44	37-42	37-40	32-44
Cx I	50-60	58-63	44-59	44-63
Ta II	46-56	59-61	51-55	46-61
Ti II	58-84	70-74	67-69	58-84
Ge II	54-70	61-66	60-62	54-70
Tf II	28-36	31-36	27-30	27-36
Bf II	36-50	42-45	30-37	30-48
Tr II	30-44	39-43	35-37	30-44
Cx II	54-70	69-76	63-69	54-76
Ta III	52-60	60-63	54-56	52-63
Ti III	84-100	96-101	94-97	84-101
Ge III	70-86	72-83	74-77	70-86
Tf III	34-44	39-42	47-42	34-44
Bf III	36-52	47-54	41-45	36-54
Tr III	36-54	34-46	37-50	34-54
Cx III	54-70	65-71	72-75	54-75
Leg I	334-401	400-418	334-418	334-418
Leg II	320-368	377-394	320-394	320-394
Leg III	421-456	424-449	421-456	421-456
IP	1048-1206	1220-1273	1048-1273	1048-1273

Tab. 3. Metric data for *Charletonia kalithensis* HAITLINGER, 2006; H – holotype, P – paratype, M – specimens from Montenegro.

Character	H	P	M	M	Range
IL	648	336	350	342	336-648
IW	482	247	200	202	200-482
L	72	76	71	69	69-76
W	64	70	62	55	55-70
AW	40	42	37	36	36-42
MW	44	50	41	39	39-50
PW	50	62	54	47	47-62

Character	H	P	M	M	Range
ISD	46	52	45	51	45-52
AP	36	36	32	30	30-36
AL	42	40	38	-	38-42
ML	36	38	36	34	34-38
PL	38	34	40	33	33-40
ASE	34	40	29	31	29-40
PSE	62	60	-	50	50-62
AA	8	8	8	8	8
SB	16	16	14	11	11-16
GL	94	98	88	83	83-98
DS	32-46	30-50	30-44	31-41	30-50
PsFd	43	63	46	49	43-63
PsGd	27	31	27	26	26-31
PaFe (L)	37	35	34	32	32-37
PaFe (W)	37	32	25	20	20-37
PaGe (L)	19	18	20	16	16-20
PaGe (W)	21	24	17	18	17-24
<i>1a</i>	34	38	31	36	31-38
<i>2a</i>	50	48	42	38	38-50
<i>3a</i>	32	31	31	27	27-32
<i>1b</i>	54	64	50	48	48-64
<i>2b'</i>	44	50	45	42	42-50
<i>2b''</i>	54	60	46	43	43-60
<i>3b'</i>	34	38	34	27	27-38
<i>3b''</i>	46	48	40	35	35-48
OD	21	22	18	16	16-22
<i>cs</i>	-	16	19	16	16-19
<i>bs</i>	22	22	16	24	16-24
<i>as</i>	10	8	7	-	7-10
ω_1	31	30	26	27	26-31
Ta I	90	84	86	88	84-90
Ti I	96	106	90	89	89-106
Ge I	86	86	79	84	79-86
Tf I	48	54	42	44	42-54
Bf I	64	60	55	52	52-64

Character	H	P	M	M	Range
Tr I	38	38	36	32	32-38
Cx I	52	52	49	53	49-53
Ta II	74	76	75	80	74-80
Ti II	86	90	81	78	78-90
Ge II	76	80	70	73	70-80
Tf II	42	46	38	40	38-46
Bf II	52	52	48	47	47-52
Tr II	36	40	31	30	30-40
Cx II	60	62	56	59	56-62
Ta III	78	80	79	74	74-80
Ti III	114	120	108	109	108-120
Ge III	92	94	82	86	82-94
Tf III	52	58	46	48	46-58
Bf III	62	60	50	57	50-62
Tr III	38	40	37	39	37-40
Cx III	52	54	54	48	48-54
Leg I	474	480	437	442	437-480
Leg li	426	446	399	407	399-446
Leg III	488	506	456	461	456-506
IP	1388	1432	1292	1310	1292-1432