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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*)

Ryszrd HAITLINGER & Miloje ŠUNDIĆ

A b s t r a c t : *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 esterae* and *Charletonia kalithensis* are new to the fauna of Montenegro and *Abrolophus quisquiliarus*, *Eruthraeus* (*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 esterae* and some *Abrolophus* species are provided. A list of Parasitengona mites for Albania and Montenegro is given.

K e y w o r d s : 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. petanovicae* 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.*) *ankaraicus* 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 efraimi* 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 & Š UNDIĆ 2015, Johnstonianidae: *Johnstoniana parva* WENDT, WOHLTMANN & EGGERS, 1994, Microtrombidiidae: *Atractotrombium sylvaticum* C. L. KOCH, 1835, *Camerotrombidium pexatum* C. L. KOCH, 1837, *Enemothrombium bifoliosum* (CANESTRINII, 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: *Sibummbella esterae*, Trombidiidae: *Allothrombium clavatum* SABOORI, PEŠIĆ & HAKIMITABAR 2010, A. *meridionale* BERLESE, 1910, *A. pulvinum* EWING, 1917, *A. wolmari* HAITLINGER, 2000, *Arknotrombium arknesianum* HAITLINGER, 2007, *Iranitrombium miandoabicum* SABOORI & HAJIQANBAR, 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 montenegrinus* 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 suboobscura*. 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)**

Material examined: 1 larva, Gjader, Albania, 9 June 2016.

Distribution: 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

Material examined: 4 larvae, Korita Kučka, Montenegro, 5 July 2015. Species widespread in Europe (HAITLINGER 1987b, BERON 2008, MĄKOL & WOHLTMANN 2012, STÅLSTEDT et al. 2016). First record from Montenegro.

Distribution: Belgium, Finland, France, Germany, Holland, Hungary, Italy, Macedonia, Montenegro, Norway, Poland, Romania, Sweden.

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

Material examined: 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**

Material examined: 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)

Material examined: 1 larva, Vatera, Lesbos, Greece, 1 larva, 17 June 2017, 5 larva, Korita Kučka, Montenegro, 5 July 2015.

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

Distribution: 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**

Material examined: 4 km west of Agiossos, Lesbos, 4 larva, 19 June, 2 larva, 21 June 2017. First record from Lesbos.

Erythraeus (Z.) *lancifer* SOUTHCOTT, 1995

M a t e r i a l e x a m i n e d : 2 larvae, Gjader, Albania, 9 June 2016.

Rare species was known 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

M a t e r i a l e x a m i n e d : 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)

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, 3 larva, 21 June 2017.

First record from Lesbos.

Genus *Leptus* LATREILLE, 1796

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

M a t e r i a l e x a m i n e d : 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, MĄKOL & 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)

M a t e r i a l e x a m i n e d : 17 larvae, Finiq, Albania, 12 June 2017.

D i s t r i b u t i o n : Albania, Greece, Hungary, Iran, Italy (Scily), Montenegro, San Marino, Ukraine. First record from Albania.

Genus *Abrolophus* BERLESE, 1891

Abrolophus aitapensis (SOUTHCOTT, 1948)

M a t e r i a l e x a m i n e d : 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

M a t e r i a l e x a m i n e d : 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, ased 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 etal formula: Leg I: Ta - 1ω, 2ζ, 17; Ti - 2φ, 1κ, 13;; Ge 1σ, 1κ, 11; Tf – 8; Bf – 4; Tr – 2; Cx – 1. Leg II: Ta - 1ω, 2ζ, 16; Ti - 2φ, 12; Ge - 1σ, 9; Tf – 5; Bf – 4; Tr – 2; Cx – 1. Leg III: Ta 1ζ, 16; Ti - 1φ, 13; Ge - 1σ, 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, bassed 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 - 1ω, 2ζ, 1Cp, 20; Ti - 2φ, 1κ, 12; Ge - 1σ, 1κ, 9; f – 8; Bf – 4; Tr – 2; Cx – 1. Leg II: Ta - 1ω, 2ζ, 16; Ti - 2φ, 13; Ge - 1σ, 9; Tf – 5; Bf – 4; Tr – 2; Cx – 1. Leg III: Ta - 1ζ, 16; Ti - 1φ, 13; Ge - 1σ, 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 - 1ω, 2ζ, 17; Ti - 2φ, 1κ, 12; Ge - 1σ, 1κ, 11; Tf – 8; Bf - 4,;Tr – 2; Cx - 1. Leg II: Ta - 1ω, 2ζ, 16; Ti - 2φ, 12; Ge - 1σ, 9; Tf – 5; Bf – 4; Tr – 2; Cx - 1. Leg III: Ta - 1ζ, 14; Ti - 1φ, 12; Ge - 1σ, 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 - 1ω, 2ζ, 17; Ti - 2φ, 1κ, 13; Ge - 1σ, 1κ, 11; Tf – 8; Bf – 4; Tr -2; Cx -1. Leg II: Ta - 1ω, 2ζ, 16; Ti 2φ, 12; Ge - 1σ, 9; Tf - 5,;Bf – 4; Tr – 2; Cx - 1. Leg III: Ta - 1ζ, 16; Ti - 1φ, 13; Ge – 1σ, 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 (MĄKOL & 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 - 1ω, 2ζ, 1Cp, 23; Ti - 2φ, 1κ, 13; Ge - 1σ, 1κ, 11; Tf - 7; Bf – 4; Tr – 2; Cx – 1. Leg II: Ta - 1ω, 2ζ, 1Cp, 20; Ti - 2φ, 13; Ge - 1σ, 1κ, 9; Tf – 5; Bf – 4; Tr – 2; Cx – 1. Leg III: Ta 1ζ, 20; Ti - 1φ, 13; Ge - 1σ, 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 - 1ω, 2ζ, 17; Ti - 2φ, 1κ, 13; Ge - 1σ, 1κ, 11; Tf -8; Bf – 4; Tr – 2; Cx - 1. Leg II: Ta - 1ω, 2ζ, 16; Ti - 2φ, 13; Ge - 1σ, 9; Tf – 5; Bf – 4; Tr – 2; Cx - 1. Leg III: Ta - 1ζ, 14; Ti - 1φ, 13; Ge - 1σ, 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 - 1ω, 2ζ, 18; Ti - 2φ, 1κ, 13; Ge - 1σ, 1κ, 11; Tf – 8; Bf – 4; Tr – 2; Cx -1. Leg II: Ta - 1ω, 2ζ, 16; Ti - 2φ, 13; Ge - 1σ, 9; Tf – 5; Bf – 4; Tr – 2; Cx – 1. Leg III: Ta - 1ζ, 18; Ti - 1φ, 13; Ge - 1σ, 9; Tf – 5; Bf – 4; Tr – 2; Cx – 1.

***Abrolophus nyminndegabicus* 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, as_1 16, as_2 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 formla: Leg I: Ta - 1ω, 2ζ, 16; Ti - 2φ, 1κ, 13; Ge - 1σ, 1κ, 11; Tf – 8; Bf – 4; Tr – 2; Cx – 1. Leg II: Ta - 1ω, 2ζ, 14; Ti - 2φ, 13; Ge - 1σ, 9; Tf – 5; Bf – 4; Tr – 2; Cx – 1. Leg III: Ta - 1ζ, 15; Ti - 1φ, 13; Ge - 1σ, 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 quiquiliarus* (HERMANN, 1804)**

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

Material examined: 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, MĄKOL & WOHLTMANN 2012). *A. pseudolongicollis* and *A. pseudolongicollis kiejstuti* were described based on larvae (HAITLINGER 1987a, 2006) and synonymized with *A. quisquiliauis* by ŁAYDANOWICZ & MĄKOL (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)**

Material examined: 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)**

Material examined: 5 km south of Valdichiana, prov. Toscana, Italy, 1 larva, 14 May 2017.

First record from Italy.

Distribution: 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 - 1ω, 2ζ, 15; Ti - 2φ, 1κ, 13; Ge 1σ, 1κ, 11; Tf – 8' Bf – 4; Tr – 2; Cx 1. Leg II: Ta - 1ω, 2ζ, 16; Ti - 2φ, 13; Ge - 1σ, 9; Tf – 5; Bf – 4; Tr – 2; Cx – 1. Leg III: Ta 1ζ, 14; Ti - 1φ, 13; Tf – 5; Bf – 4; Tr – 2; Cx – 1.

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

Material examined: 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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Authors addresses:

Prof. Dr. Ryszard HAITLINGER
Institute of Biology, Department of Invertebrate Systematics and Biology,
Wrocław University of Environmental and Life Sciences
Kożuchowska 5B
E-mail: ryszard.haitlinger@upwr.edu.pl

Dr. Miloje ŠUNDIĆ
Department of Biology, Faculty of Sciences and Mathematics,
University of Montenegro, G. Washington Street,
P. Box 5455, 20000 Podgorica, Monyenegro
E-mail: miloje.sundic@gmail.com

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
1a	34-44	37-42	37-44	34-44
2a	25-30	22-31	20-39	20-39
3a	27-35	27-29	26-31	26-35
1b	38-52	47-50	38-50	38-50
2b	30-46	24-32	27-33	24-42
3b	28-42	34-37	35-37	28-37
bs	36-48	42-43	40-42	36-48
cs	18-25	12-14	16-18	12-25
as_1	6-7	7-8	5	5-8
as_2	20-25	18-22	21-23	19-25
elcp	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
1a	34	38	31	36	31-38
2a	50	48	42	38	38-50
3a	32	31	31	27	27-32
1b	54	64	50	48	48-64
2b'	44	50	45	42	42-50
2b''	54	60	46	43	43-60
3b'	34	38	34	27	27-38
3b''	46	48	40	35	35-48
OD	21	22	18	16	16-22
cs	-	16	19	16	16-19
bs	22	22	16	24	16-24
as	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 Ii	426	446	399	407	399-446
Leg III	488	506	456	461	456-506
IP	1388	1432	1292	1310	1292-1432