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New records of mites from Cyprus, Kos (Greece) and Sicily (Italy) with notes on some Erythraeidae and Trombidiidae (Trombidiformes, Parasitengona)

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Abstract: *Allothrombium polikarpi* is new to the fauna of Cyprus and Greece (Kos), *Marantelophus rudaensis* and *M. iranicus* are new to the fauna of Sicily, *Erythraeus (Erythraeus) scilicus* is new to the fauna of Greece and *Abrolophus silesiacus* is new to the fauna of Kos. *Abrolophus iranicus* is transferred to the genus *Marantelophus*. *M. kamalii* is synonymized with *M. iranicus*. Specimens mentioned from Greece, Hungary, San Marino and Ukraine as *M. multisetosus* belong to *M. iranicus*. *Marantelophus sanandajensis* is synonymized with *M. rudaensis*. Metric data for *A. polikarpi*, *M. iranicus*, *M. rudaensis* and *E. (E.) kresnensis* are given.

Key words: *Abrolophus*, *Allothrombium*, *Erythraeus*, *Marantelophus*, new records, synonymization.

Introduction

The terrestrial fauna of Parasitengona of Cyprus is poorly studied. Hitherto only 9 species were noted: *Smaris pinus* ZHANG 1995, *Abrolophus halberti* (COOREMAN 1946), *Erythraeus (Zaracarus) arminouensis* HAITLINGER & ŁUPICKI 2011, *Leptus (Leptus) siculus* (CANESTRINI 1884), *Phanolophus oedipodarum* (FRAUENFELDT 1868), *Napassenia aginapaica* HAITLINGER 1999, *Allothrombium wolffi* KRAUSSE 1925, *Wohltmanella cypriense* (ROBAUX 1964) and *Eutrombidium feldmanmuhsamae* FEIDER 1977 (COOREMAN 1946, ROBAUX 1964, ZHANG 1995, HAITLINGER 1993, 1999, BERON 2008, HAITLINGER & ŁUPICKI 2011, MAKOL & WOHLTMANN 2012). *Allothrombium polikarpi* HAITLINGER 2006 is recorded for the first time for the fauna of Cyprus.

To date, 28 species of terrestrial Parasitengona were known from Sicily: *Smaris squamata* (HERMANN 1804) (Smaridiidae), *Abrolophus dagmarae* (HAITLINGER 2012), *A. norvegicus* (THOR 1900), *A. silesiacus* (HAITLINGER 1986), *A. anzelmi* HAITLINGER & ŁUPICKI 2013, *A. hieronimi* HAITLINGER & ŁUPICKI 2013, *Balaustium araneoides* (BERLESE 1910), *B. murorum* (HERMANN 1804), *Charletonia krendowskyi* (FEIDER 1954), *Erythraeus (Erythraeus) acis* (BERLESE, 1882), *E. (E.) cinereus* (DUGÈS, 1834), *E. (E.) picaforticus* HAITLINGER 2002, *E. (E.) etnaensis* HAITLINGER 2011, *E. (E.) sicilicus* HAITLINGER 2011, *E. (Zaracarus) adrianicus* HAITLINGER 2012, *E. (Z.) monrealicus* HAITLINGER 2012, *E. (Z.) budapestensis* FAIN & RIPKA 1998 (as *E. (Z.) preciosus* GOLDARAZENA & ZHANG 1998), *Leptus (Leptus) siculus* CANESTRINI 1884, *L. (L.) chiusicus* HAITLINGER & ŠUNDIĆ 2015, *L. (L.) hammameticus* HAITLINGER 1998

(Erythraeidae), *Allothrombium sicilianum* HAITLINGER 2012, *Sicilitrombium albanesianum* HAITLINGER 2013 (Trombidiidae), *Podothrombium subnudum* BERLESE 1910 (Podothrombiidae), *Eutrombidium sorbasiensis* MAYORAL & BARRANCO, 2004, *Valgotrombium valgum* (GEORGE 1909) (Microtrombidiidae), *Eothrombium echinatum* BERLESE 1910, *E. siculum* BERLESE 1910 and *Lassenia castronuoviensis* HAITLINGER 2012 (Tanaupodidae) (BERLESE 1882, 1910, BERON 2008, CANESTRINI 1884, HAITLINGER 2011, 2012a, b, 2013, 2015, HAITLINGER & ŁUPICKI 2013a, b, 2015, HAITLINGER & ŠUNDIĆ 2015). In this paper *Marantelophus rudaensis* (HAITLINGER 1986) and *M. iranicus* (HAITLINGER & SABOORI 1996) **comb. nov.** are recorded for the first time for the fauna of Sicily.

The small island Kos placed between larger islands Rhodes and Samos. Hitherto no species of Parasitengona terrestrial were known from Kos. The following species were known from neighbouring islands Rhodes and Samos (Sporads Islands): *Charletonia dalegori* HAITLINGER 2003, *C. glifadaensis* HAITLINGER 2003, *C. kaliksti* HAITLINGER 2003, *C. krendowskyi* (FEIDER 1954), *Leptus (Leptus) monolithosicus* HAITLINGER 2003, *L. (L.) andae* HAITLINGER 2003, *L. (L.) gennadicus* HAITLINGER 2003, *Erythraeus (Erythraeus) rutgeri* HAITLINGER 2003, *Marantelophus rudaensis*, *M. iranicus* (as *Grandjeanella multisetosa* ZHANG & GOLDARAZENA 1996), *Abrolophus silesiacus* (HAITLINGER 1986), *L. (L.) josifovi* BERON 1975, *C. kalithensis* HAITLINGER 2006, *C. samosensis* HAITLINGER 2006, *E. (Zaracarus) kastaniensis* HAITLINGER 2006, *E. (Z.) passidonicus* HAITLINGER 2006, *Allothrombium polikarpi* HAITLINGER 2006 and *A. triticium* ZHANG 1995 (HAITLINGER 2003a, b, 2006). Three species: *Abrolophus silesiacus*, *Erythraeus (Erythraeus) sicilicus* and *Allothrombium polikarpi* are new for the fauna of Kos.

New metric data are given for *E. (E.) kresnensis* BERON 1982 and *A. polikarpi*. *Abrolophus iranicus* (HAITLINGER & SABOORI 1996) is transferred to the genus *Marantelophus* HAITLINGER 2011. *Marantelophus kamalii* (SABOORI & ATAMEHR 2000) should be regarded as a synonym of *M. iranicus*. *M. sanandajensis* HAKIMITABAR & SABOORI 2015 should be regarded as a synonym of *M. rudaensis* (HAITLINGER 1986). Metric data of these species are given in Table 3.

Material and Methods

10 larvae of *Abrolophus silesiacus*, 1 larva of *Erythraeus (Erythraeus) sicilicus*, 7 larvae of *Podothrombium polikarpi* from Kos and 1 larva of *Marantelophus rudaensis* and 1 larva of *M. iranicus* from Sicily were obtained from herbaceous plants or undetermined Opilones. Mites were preserved in 70% ethanol. Later they were mounted on microscopic slides using Berlese medium. Measurements (given in micrometers) were made using microscope NIKON *Eclipse* 50i. The terminology and abbreviations follow SOUTHCOTT (1961), MAĞOL & WOHLTMANN (2000) and HAITLINGER (2013).

Family E r y t h r a e i d a e ROBINEAU-DESVOIDY 1828

Genus *Abrolophus* BERLESE 1891

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

Material examined: Kos, 2 km west of Pili, 11 May 2015, 6 larvae, Tigaki, 13 May 2015, 4 larvae, all from herbaceous plants; leg. R. Haitlinger.

In Greece *A. silesiacus* was known only from Samos (HAITLINGER 2006a). First record from Kos.

Genus *Marantelophus* HAITLINGER 2011***Marantelophus rudaensis* (HAITLINGER 1986)*****Hauptmannia rudaensis* (HAITLINGER 1986)*****Rudaemannia rudaensis* (HAITLINGER 2000)*****Abrolophus rudaensis* MAKOL & WOHLTMANN 2012*****Marantelophus sanandajensis* HAKIMITABAR & SABOORI 2015 nov. syn.**

Material examined: Sicily, San Teodoro Randazzo, 7 May 2014, 1 larva from herbaceous plants; leg. R. Haitlinger.

This species was described as *Hauptmannia rudaensis*. Later it was transferred to the genus *Rudaemannia* (HAITLINGER 2000). MAKOL & WOHLTMANN (2012) transferred it to the genus *Abrolophus* and recently HAITLINGER & ŠUNDIĆ (2014) this species transferred to the genus *Marantelophus*. First record from Sicily.

Recently from Iran was described *M. sanandajensis* HAKIMITABAR & SABOORI 2015 (HAKIMITABAR et al. 2015)). Metric (Table 4) and meristic data of *M. rudaensis* and *M. sanandajensis* are identical. *M. sanandajensis* should be regarded as a synonym of *M. rudaensis*.

Marantelophus iranicus* (HAITLINGER & SABOORI 1996) nov. comb.**M. kamalii* (SABOORI & ATAMEHR 2000) nov. syn.**

Material examined: Sicily, 3 km south of Cesaro, 8 My 2014, 1 larva, from herbaceous plants; leg. R. Haitlinger.

Distribution: Greece, Hungary, Iran, Italy (Sicily), Montenegro, San Marino, Ukraine.

This species was described as *Hauptmannia iranica* from Iran (HAITLINGER & SABOORI 1996). Later MAKOL & WOHLTMANN (2012) this species transferred to the genus *Abrolophus*. Now, based on two palpgenual setae, is transferred to the genus *Marantelophus*. SABOORI & ATAMEHR (2000) described from Iran *Hauptmannia kamalii*. HAITLINGER (2011b) transferred this species, to the genus *Marantelophus*. Later *M. kamalii* was collected from Montenegro (HAITLINGER & ŠUNDIĆ 2014). Metric and meristic data for *M. iranicus* and *M. kamalii* are identical. Therefore, *M. kamalii* should be regarded as a synonym of *M. iranicus*. Corrected and new etric data for holotype of *M. iranicus* are given in Table 3.

Leg setal formula (holotype). Leg I: Ta badly visible, 1 ω , 2 ζ , ?; Ti 2 ϕ , 1 κ , ?12; Ge 1 σ , 1 κ , 9; Tf 8; Bf 5; Tr 2; Cx 1. Leg II: Ta 1 ω , 2 ζ , 22; Ti 2 ϕ , 13; Ge 1 σ , 1 κ , 9; Tf 5; Bf 5; Tr 2; Cx 1. Leg III: Ta 1 ζ , 19; Ti 1 ϕ , 13; Ge 1 σ , 9; Tf 5; Bf 5; Tr 2; Cx 1.

Specimens from Greece, Hungary, San Marino and Ukraine were determined as *M. multisetosus* (ZHANG & Goldarazena 1996) (HAITLINGER 2006a, b, 2007, 2008) and 6 specimens from Montenegro as were determined as *M. kamalii*. In key by HAKIMITABAR et al. (2015) *M. kamalii* and *M. multisetosus* differ in number of normal setae on Ti III (13 *M. kamalii* vs. 11 *M. multisetosus*). In our collection 18 specimens have on Ti III 13 normal setae, 4 specimens 12 setae and one specimen 11 setae. Based on this character and number of dorsal setae less than 160 setae specimens from over mentioned countries are included to *M. iranicus*. However, is problem with differentiate *M. multisetosus* with *M. iranicus* (Ti III with 12 setae). It should be explained in future.

Genus *Erythraeus* LATREILLE 1806

***Erythraeus (Erythraeus) sicilicus* HAITLINGER 2011**

Material examined: Kos, Evangelista, 13 May 2015, 1 larva from herbaceous plants; leg. R. Haitlinger.

This species was known only from Sicily (HAITLINGER 2011a). First record from Greece, Kos.

***Erythraeus (Erythraeus) kresnensis* BERON 1982**

This species was described from Bulgaria, based on a single specimen (BERON 1982). Later HAITLINGER (2000) collected second specimen from Turkey. Metric and meristic data were given only for holotype. In Table 2 new metric data for specimen from Turkey are given.

Family Trombididae THOR 1935

Genus *Allothrombium* BERLESE 1903

***Allothrombium polikarpi* HAITLINGER 2006**

Material examined: Cyprus, Panaglia n. Paphos, 9 May 2010, 3 larvae from herbaceous plants; Kos, Passalidi, 12 May 2015, 1 larva, Zia, 13 May 2015, 2 larvae, all from herbaceous plants, 5 km east of Mastichari, 14 May 2015, 2 larvae from undetermined Opilones; leg. R. Haitlinger.

Not long ago this species was known only from Samos (Greece) and Bulgaria (HAITLINGER 2006a, 2009). Now, *A. polikarpi* was stated for the first time in Cyprus and Kos. These specimens somewhat differ from specimens previously collected in Samos and Bulgaria and show a greater range variability of some measurements. Therefore, measurements of specimens from Bulgaria, Cyprus, Kos and Samos are given in Table 1.

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Table 1. Metric data of *Allothrombium polikarpi* HAITLINGER 2006 from Samos (S), Bulgaria (B), Cyprus (C) and Kos (K).

Character	S n=5	B n=3	C n=3	K n=6	Range
IL	517-1280	753-1123	887-983	952-1311	517-1311
IW	406-932	542-820	588-703	644-841	406-932
L	122-130	117-120	127-142	138-146	117-146
W	94-114	104-110	100-118	98-110	94-118
AW	74-86	76-80	81-89	71-78	71-89
PW	92-98	89-94	87-97	80-99	80-99
AA	54-64	60-62	63-70	60-74	54-74
SB	56-62	55-61	61-68	58-65	55-68
AL	36-44	46-57	44-51	42-53	36-57
PL	62-66	66-75	69-75	61-69	61-75
AM	50-60	45-60	47-48	42-62	42-62
S	60-72	62-75	80-84	62-77	60-84
AP	40-42	36-42	46-58	40-55	36-58
MA	36-40	32-37	41-45	35-38	32-45
DS.	48-62	40-68	49-62	45-64	40-68
GL	84-88	80-93	81-99	80-89	80-99
<i>la</i>	44-48	31-47	52-59	39-54	31-59
<i>lb</i>	42-52	34-52	42-52	43-63	34-63
<i>3a</i>	56-60	44-56	48-75	37-48	37-75
<i>2b'</i>	42-52	35-45	48-58	54-59	35-59
<i>2b''</i>				39-52	39-52
<i>3b</i>	58-62	51-52	60-66	43-56	43-66
LSS	95	82-112	93-108	89-115	82-115
HS	31	28-41	31-37	26-40	26-41
SS	34	36-42	34-41	37-43	34-43
SL	57	52-62	60-65	52-64	52-65
OD				12-15	12-15
Ta I	86-96	95-102	92-100	87-96	86-102
Ti I	68-72	58-66	63-74	64-75	58-75
Ge I	40-48	37-40	37-46	40-45	37-48
Fe I	68-76	67-71	66-83	69-80	66-83
Tr I	42-46	42-46	45-51	44-49	42-51
Cx I	68-78	67-85	62-84	61-68	61-85
TaII	82-88	86-92	80-92	83-96	80-96
TiII	62-70	55-60	54-69	63-67	54-70

Character	S n=5	B n=3	C n=3	K n=6	Range
GeII	34-42	34-38	35-40	38-40	34-42
FeII	66-72	61-63	59-77	61-68	59-77
TrII	38-44	38-47	40-51	41-44	38-51
CxII	72-78	72-75	73-83	63-74	63-83
TaIII	90-98	93-98	91-101	92-104	90-104
TiIII	74-84	68-73	70-87	67-82	67-87
GeIII	38-44	36-40	37-43	34-43	34-44
FeIII	70-76	65-71	67-78	68-73	65-78
TrIII	42-50	41-44	48-55	46-53	41-55
CxIII	70-72	60-62	70-75	64-68	60-75
Leg I	382-406	384-390	374-438	382-396	374-438
Leg II	360-390	349-364	346-405	358-386	346-405
Leg III	394-418	371-383	383-418	375-420	371-420
IP	1136-1214	1106-1158	1103-1261	1137-1200	1103-1261

Table 2. Metric data of *Erythraeus (Erythraeus) kresnensis* BERON 1982. H – holotype, T – specimen from Turkey

Character	H	T	Character	H	T
IL		589	cs		28
IW		447	as		36
L	103	125	elcp		6
W	175	201	Ta I	141	165
AW	58	47	Ti I	212	240
PW	128	129	Ge I	162	172
ISD	75	78	Tf I	232*	116
AP	58	55	Bf I		138
AL.	83	97	Tr I		58
PL	63	74	Cx I		81
LX		29	Ta II	121	149
1a	45		Ti II	212	229
3a	40	35	Ge II	131	136
1b		110	Tf II	212*	107
2b		41	Bf II		125
3b		37	Tr II		63
GL		185	Cx II		98
DS		68-81	Ta III	146	173
PsFd	52	70	Ti III	323	353

Character	H	T	Character	H	T
PsGd	60	69	Ge III	154	168
ASE	30	33	Tf III	268*	138
PSE	78	76	Bf III		156
AA	28	24	Tr III		76
SB	20	21	Cx III		94
PaFe (L)		59	Leg I		970
PaFe (W)		59	Leg II		907
PaGe (L)		37	Leg III		1158
PaGe (W)		36	IP		3035
OD		33			

* Fe (Tf + Bf)

Table 3. Metric data for holotype of *Marantelophus iranicus* (HAITLINGER & SABOORI 1996) comb. nov.

IL	320	2b	32	Cx I	45
IW	167	3b	29	Ta II	62
L	42	PsFd	37	Ti II	57
W	70	PsGd	29	Ge II	57
AW	48	PaFe (L)	31	Tf II	31
PW	58	PaFe (W)	40	Bf II	40
ISD	30	PaGe (L)	23	Tr II	38
AP	14	PaGe (W)	34	Cx II	48
AL.	26	cs	23	Ta III	68
PL	34	as	16	Tti III	84
ASE	23	bs	32	Ge III	71
PSE	50	OD	27	Tf III	41
AA	16	elcp	7	Bf III	44
SB	10	Ta I	?47	Tr III	39
GL	120	Ti I	55	Cx III	50
DS	25-46	Ge I	61	Leg I	?306
la	24	Tf I	35	Leg II	333
lb	44	Bf I	41	Leg III	397
ω I	19	Tr I	29	IP	?1036

Table 4. Metric data of *Marantelophus rudaensis* (HAITLINGER 2000), n=9; B – Iran (HAKIMITABAR et al. 2015), n=5.

Character	A	B	Range	Character	A	B	Range
IL	318-571			<i>as</i>	9-10	9	9-10
IW	196-336			<i>bs</i>	16-24	23	16-24
L	57-70	58-69	58-70	Ta I	48-64	52-62	48-64
W	66-84	62-74	62-84	Ti I	52-64	58-67	52-67
AW	38-56	35-47	35-56	Ge I	54-62	55-67	54-67
PW	54-76	53-69	53-76	Tf I	24-32	28-37	24-37
MA		15-20		Bf I	34-36	30-40	30-40
AA	10-14	10-12	10-14	Tr I	28-34	30-37	28-37
SB	14-16	12-15	12-16	Cx I	44-50	43-50	43-50
ISD	46-56	44-52	44-56	Ta II	46-54	45-52	45-54
AP	16-26	17-23	16-26	Ti II	50-58	55-59	50-59
AL	22-30	23-27	22-30	Ge II	50-58	50-62	50-62
PL	30-38	33-42	30-42	Tf II	24-30	25-35	24-35
ASE	19-28	19-30	19-30	Bf II	28-36	30-38	28-38
PSE	50-57	48-62	48-62	Tr II	32-40	32-40	32-40
GL	90-114	85-109	85-114	Cx II	52-66	50-62	50-66
DS	20-38	25-45	20-45	Ta III	42-54	45-54	42-54
<i>la</i>	24-34	27-40	24-40	Ti III	62-74	70-77	62-74
<i>2a</i>	30-32	28-37	28-37	Ge III	56-68	58-71	56-71
<i>3a</i>		23-30		Tf III	32-36	30-42	30-42
<i>lb</i>	42-50	38-53	38-53	Bf III	36-42	37-42	36-42
<i>2b</i>	20-30	21-38	20-38	Tr III	36-40	37-47	36-47
<i>3b</i>	20-24	20-25	20-25	Cx III	52-64	47-62	52-64
OD	24-28			Leg I		305-348	
PsFd	38-48	33-47	33-48	Leg II		293-345	
PsGd	24-30	20-29	20-30	Leg III		332-343	
cs	24-31			IP		930-1086	

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