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## ***Cretenessia roccamenaica* nov.sp. (Acari: Prostigmata: Chyzeriidae: Chyzeriinae) from Sicily, Italy**

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**A b s t r a c t:** *Cretenessia roccamenaica* nov.sp. is described and illustrated from larva collected on undetermined Orthoptera in Sicily. It is the second species of the genus *Cretenessia*.

**K e y w o r d s:** Acari, Chyzeriidae, Orthoptera, new species, Sicily.

### **Introduction**

The family Chyzeriidae contains three subfamilies: Chyzeriinae Womersley, Pteripodinae SOUTHCOTT and Ralphaudyaninae SOUTHCOTT. In Europe and Iran are known 4 genera in the subfamily Chyzeriinae: *Cretenessia* HAITLINGER, 1999, *Gryllochyeria* SABOORI, ZHANG & NEMATI, 2005, *Napassenia* HAITLINGER, 1999 and *Parawenhoekia* PAOLI, 1937 (PAOLI 1937, HAITLINGER 1999, SABOORI et al. 2005). The genus *Cretenessia* with one species *C. leoni* HAITLINGER, 1999 was described from Crete, Greece. In this paper we describe a larva of second species of this genus from Sicily based on a single specimen.

### **Material and methods**

One larva was collected 17 September 2016 in Sicily from undetermined Orthoptera. This larva was preserved in 70% ethanol and mounted on microscopic slide using Berlese's fluid. Mite specimen was cleared in Nesbitt's solution. All measurements are given in micrometers ( $\mu\text{m}$ ) using microscope NIKON Eclipse80i. Figures were drawn using Carl Zeiss Axio Imager A2 with differential contrast and phase contrast. The terminology and abbreviations follow ROBAUX (1974) and SOUTHCOTT (1986).

### **Results**

**Family C h y z e r i d a e WOMERSLEY, 1954**

**Subfamily Chyzeriinae WOMERSLEY, 1954**

***Cretenessia roccamenaica* nov.sp.**

**M a t e r i a l e x a m i n e d:** 1 l. Locus typicus: Sicily, Roccamena, 17 September 2016 from undetermined Orthoptera; coll. R. Haitlinger. Holotype deposited in the Museum of Natural History, Wrocław University (MNHWU), Poland.

**D i a g n o s i s :** Scutum trapezoidal with nasus. Tarsus I with two solenidia, genu III with one solenidion. Ta I 220, Ta II 200, Ta III 374, AL 66, PL 69, IP 2276.

**D e s c r i p t i o n** (larva): Dorsun with 32 barbed setae placed on platelets, longer setae placed in anterior part of idiosoma. Laterally of scutum two pairs of circular eyes on platelet, anterior 18, posterior 26 (Fig. 1). Scutum trapezoidal with nasus, lateral margins straight, posterior margin weakly concave. Scutalae AL and PL with short barbs, PL > AL; sensillary setae ASE and PSE barbed, PSE barbed only in distal part, PSE over twice longer than ASE. Beyond PSE short line (Fig. 3). Ventral side of idiosoma with setae *3a* and behind coxae III 39 barbed setae placed on small platelets. Coxae I with two setae: *1a* and *1b*, coxae II and III each with one seta; all setae barbed (Fig. 2).

Gnathosoma robust, with barbed hypostomala (*bs*) and nude galeala (*cs*). Short seta *elcp* present. Palpfemur and palpgenu each with one barbed seta, palptibia with three barbed setae (Fig. 4). Palptarsus with 6 normal setae with small barbs,  $\omega$  and  $\zeta$  (Fig. 5).

Leg setal formula: Leg I: Ta I 2  $\omega$ , 2  $\zeta$ , 43; Ti 2  $\phi$ , 1  $\kappa$ , 8; Ge 1  $\sigma$ , 1  $\kappa$ , 4; Tf 5 (right leg 4); Bf 1; Tr 1; Cx 2 (Fig. 6); Leg II: Ta I  $\omega$ , 2  $\zeta$ , 36; Ti 2  $\phi$ , 8; Ge 1  $\sigma$ , 1  $\kappa$ , 4; Tf 4; Bf 2; Tr 1; Cx 1 (Fig. 7). Leg III: Ta 1  $\zeta$ , 41; Ti 1  $\phi$ , 6; Ge 1  $\sigma$ , 4; Tf 4; Bf 2; Tr 1; Cx 1 (Fig. 8).

For measurements see Table 1.

**E t y m o l o g y :** The name of the species is based on the name of the place where the holotype was collected.

**R e m a r k s :** *Cretenessia roccamenaiica* nov. sp. differs from *C. leoni* in the longer W (202 vs. 178), AL (66 vs. 50), PSE (126 vs. 80-94), 1b (76 vs. 32), Ta I (220 vs. 180-190), Ta II (200 vs. 180), Ta III (374 vs. 244), shorter 1a (40 vs. 68) and shape of scutum.

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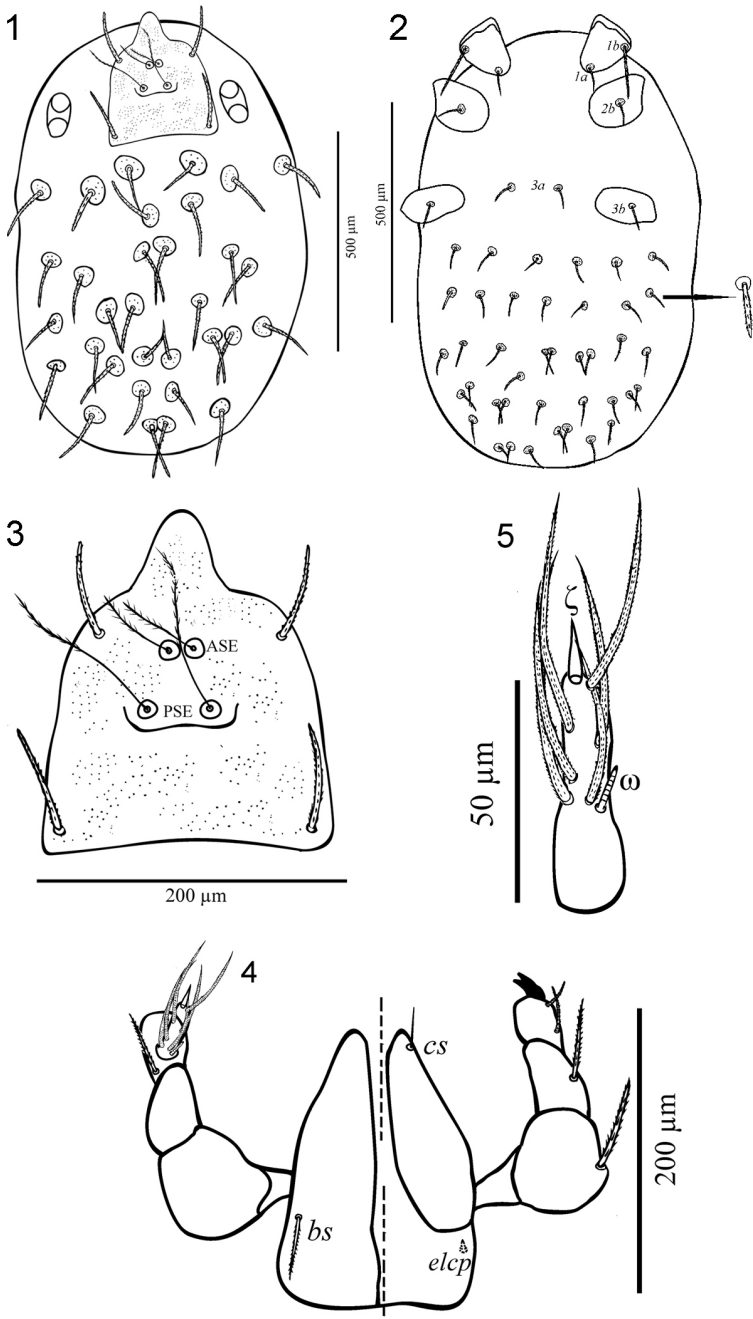
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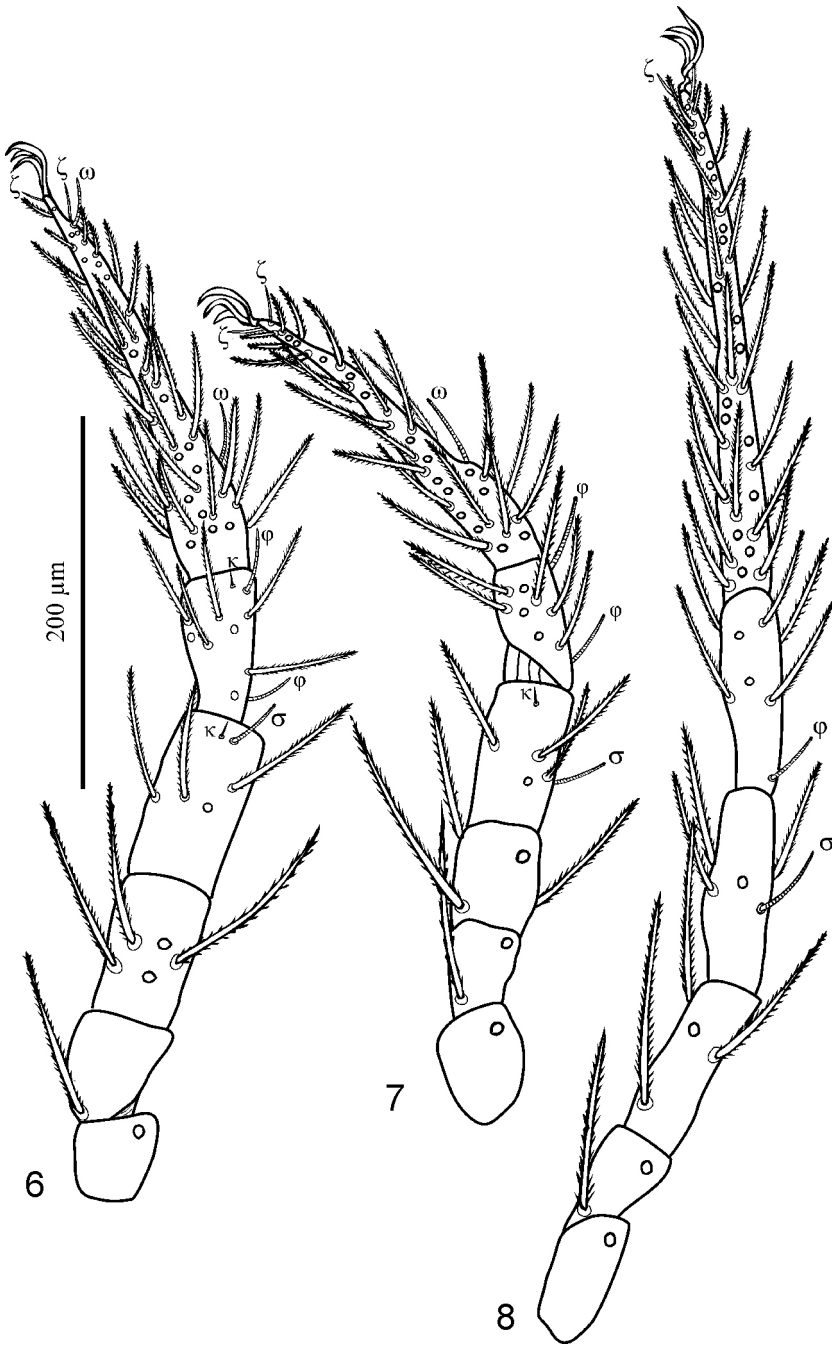
**Table 1.** Metric data of *Cretesnesia roccamaica* nov.sp., H - holotype

Character	H	Character	H	Character	H
IL	1006	2 <i>b</i>	28	Cx I	104
IW	661	3 <i>b</i>	27	Ta II	200
L	163	PsFd	70	Ti II	79
W	202	PdGd	68	Ge II	78
AW	121	PaFe (L)	66	Tf II	62
PW	183	PaFe (W)	58	Bf II	50
ISD	34	PaGe (L)	46	Tr II	49
AL.	66	PaGe (W)	32	Cx II	131
PL	69	OD	28	Ta III	374
ASE	50	<i>cs</i>	23	Ti III	117
PSE	126	<i>bs</i>	39	Ge III	115
AP	85	$\omega_1^*$	23	Tf III	98
AA	11	$\omega_2^{**}$	17	Bf III	70
SB	29	Ta I	220	Tr III	54
GL	195	Ti I	84	Cx III	101
DS	59-96	Ge I	93	Leg I	698
1 <i>a</i>	23	Tf I	82	Leg II	649
3 <i>a</i>	17	Bf I	65	Ldg III	020
1 <i>b</i>	76	Tr I	50	IP	2276

- $\omega_1^*$  proximal solenidion;  $\omega_2^{**}$  distal solenidion



**Figs 1-5:** *Cretessenia roccamenaica* nov.sp. (1) idiosoma, dorsal view; (2) idiosoma, ventral view; (3) scutum; (4) gnathosoma; (5) palptarsus.



Figs 6-8: *Cretessenia roccamenaica* nov.sp. (6) leg I; (7) leg II; (8) leg III.

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