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# Aculodes deschampsiae (Sukhareva, 1972) (Acari: Eriophyoidea) found on *Deschampsia caespitosa* (L.) P.B. in Poland: supplement for the description

## ABSTRACT

Description of *Aculodes deschampsiae* (Sukhareva, 1972), new species from Poland, is supplemented. This species was found as vagrants on leaves of grass *Deschampsia caespitosa* (L.) P.B. The comparison of characters of populations from Poland and Russia is given.

Key words: Actinedida, phytophagous mite, tufted hairgrass, morphology.

## INTRODUCTION

Over 3000 name species of eriophyoid mites are known in the world fauna including 120 species from grasses (Amrine et Stasny, 1994; Amrine, 1996). Up to the present 13 species of eriophyoid mites from plants belonging to the family Poaceae were collected in Poland. These belong to the genera *Abacarus, Aculodes, Aceria* (Boczek, 1964; Boczek *et al.*,1976; Jezewska et Wieczorek, 1998; Skoracka et Boczek, 2000).

The genus *Aculodes* Keifer, 1966 belongs to the family Eriophyidae Nalepa, 1898, subfamily Phyllocoptinae Nalepa, 1892, tribe Anthocoptini Amrine et Stasny, 1994 and included 10 described species in the year 1996 (AMRINE, 1996).

Three species of genus *Aculodes* found on grasses in Poland have been known up to date: *A. agropyronis* (Keifer), *A. dubius* (Nalepa), *A. mckenziei* Keifer (Boczek *et al.*, 1976; Skoracka, Boczek, 2000).

A new species for polish fauna *Aculodes deschampsiae* (Sukhareva, 1972) was found recently on tufted hairgrass (*Deschampsia caespitosa* (L.)P.B.). It was found on the same host plant in 1972 in Russia and described as *Phytocoptes deschampsiae*. Tufted hairgrass (Sukhareva, 1972) is the only host plant for this species; the relation to the host was defined as vagrant in grooves on upper leaf surface. Similar relationship and narrow specifity related to *A. deschampsiae* were also confirmed in Poland.

Because of the original description of *A. deschampsiae* (in particular that of male and nymph) is not complete, the present paper is intended to give the supplementary morphological description of this species. A comparison of characters of specimens of *A. deschampsiae* collected in Poland and Russia is supplied.

## MATERIAL AND METHODS

Specimens of *A. deschampsiae* were collected from *D. caespitosa* originating from three different localities in Poland (Katowice, Bialowieza, Pieniny Mountains) by direct examination with a stereo-microscope. Mites were subsequently mounted on slides in the Heinze medium and studied with a phase-contrast microscope. The nomenclature of morphology follows that of Lindquist (1996). Lengths of legs are compared excluding coxae. All measurements are given in micrometers.

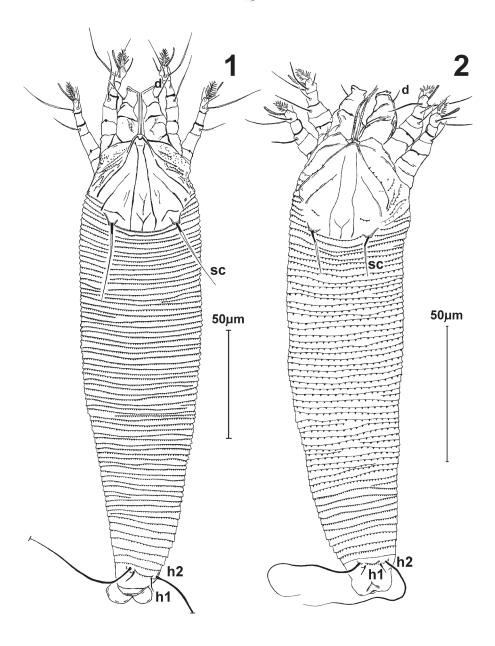
Measurements for the supplementary description were made using the sample collected 9.05.99, in Katowice. Additionally, measurements of specimens of the population from Pieniny and those from original description by Sukhareva are given in table 1. Specimens found in Bialowieza were not suitable for measuring.

All the examined material from Poland (63 females, 7 males, 4 nymphs) is kept in the collection of Department of Animal Taxonomy and Ecology, A. Mickiewicz University, Poznan, Poland.

# SUPPLEMENTARY DESCRIPTION OF A. DESCHAMPSIAE (SUKHAREVA, 1972):

**Female** (figs 1, 3, 5-7): body length 255 (217-264); width 55 (52-58); body elongate, vermiform. Gnathosoma 29 (28-31) long; dorsal pedipalp genual setae *d* 10 (8-10) long; chelicerae 26 (25-30) long, almost straight. Prodorsal shield elongate-triangular, 48 (46-49) long; 46 (40-49) wide, with pronounced and elongate frontal lobe over the gnathosoma; median line present and divided into two lines, at least one of them splitting anteriorly, admedian lines entire, diverging from the base of anterior lobe to the rear margin of the shield, submedian lines shorter than admedian. Tubercles *sc* large, located on the rear margin, 29 (29-32) apart; setae *sc* 31 (29-34) long, projecting to the rear.

Leg I 32 (32-34) long; femur 9 (9-11) long, with seta bv 10 (8-11) long, below the middle of the femur; genu 5 (5-6) long, with seta l'' 24 (22-26) long, in the transverse midline of the genu; tibia 7 (7-8) long, with seta l' 10 (10-11) long, in the midline of the tibia; tarsus 7 (7-8) long, with three setae,



Figs 1-2. Aculodes deschampsiae: 1) dorsal aspect of a female; 2) dorsal aspect of a nymph.

antaxial, fastigial tarsal seta ft" 27 (22-27); tarsal solenidion  $\omega$  10 (10-11) long; tarsal empodium simple, 8-rayed (7-8), symmetrical, 11 (10-11) long.

Leg II 32 (31-33) long; femur 10 (9-11) long, with seta bv 14 (11-14) long, located proximally of the midline of the femur; genu 5 (5-6) long, with seta l" 12 (11-13) long, in the transverse midline of the genu; tibia 6 (6-7) long; tarsus 8 (7-8) long, with three setae; antaxial fastigial tarsal seta ft" 26 (24-28) long; tarsal solenidion  $\omega$  10 (10-11) long; tarsal empodium 8-rayed (7-8), symmetrical, 11 long. Femoral setae located on ventral side of segment; genual, tibial and two tarsal (ft, ft") setae located on dorsal side of legs I and II.

Coxae with a pattern of short, slender lines, coxae I connecting medially; tubercles 1b 11 (11-12) apart, setae 1b 10 (8-10) long; tubercles 1a 9 (8-10) apart, setae 1a 24 (19-24) long; tubercles 2a 25 (21-26) apart, setae 2a 45 (42-46) long; distance between tubercles 1b and 1a 9 (8-10), distance between tubercles 1a and 2a 9 (8-9).

Opisthosoma with 62 (59-64) dorsal annuli, 70 (66-75) ventral annuli. Annuli with microtubercles triangular and pointed.

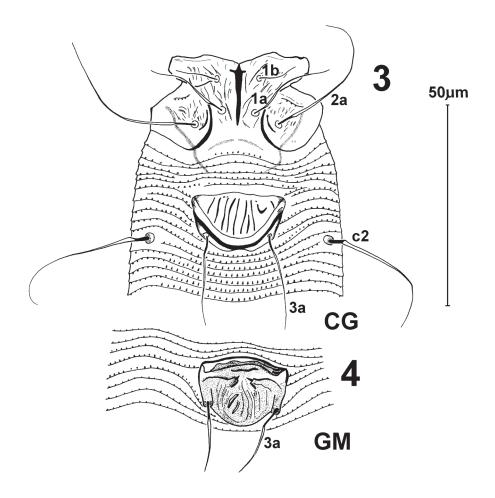
Setae c2 41 (35-43) long, located on 9<sup>th</sup> (8<sup>th</sup>-9<sup>th</sup>) ventral annulus from coxae II, tubercles c2 54 (46-55) apart; ventral setae d 36 (32-45) long, located on  $22^{\rm nd}$  (20<sup>th</sup>-24<sup>th</sup>) ventral annulus, tubercles d 37 (30-37) apart; setae e 26 (18-29) long, located on 41<sup>st</sup> and 43<sup>rd</sup> ventral annulus (37-45), tubercles e 16 (15-18) apart; setae f 26 (20-27) long, located on 66<sup>th</sup> (62<sup>nd</sup>-71<sup>st</sup>) ventral annulus, 5<sup>th</sup> annulus from the rear, tubercles f 23 (20-23) apart.

Setae h1 4 (4-5) long, 8 (8-10) apart; setae h2 83 (76-83) long, 11 (11-14) apart; distance between h1 and h2 - 3.

Genital parts 15 (14-16) long, 24 (22-24) wide, situated about 6 ventral annuli behind the coxae II, genital coverflap with 11 (10-11) longitudinal striae, setae *3a* 24 (24-30) long, 18 (14-18) apart.

**Male** (Fig 4): body length 185 (185-277); body width 49 (49-51); elongate, vermiform. Gnathosoma 26 (26-27) long; dorsal pedipalp genual seta *d* 7 (7-8) long; chelicerae 20 (19-20) long. Prodorsal shield elongate-triangular, with pronounced and elongate frontal lobe over the gnathosoma, similar to that of a female, 42 (41-42) long, 41 (41-43) wide. Tubercles s*c* large, located on rear margin, 30 (30-31) apart; setae *sc* 27 (24-27) long.

Leg I 29 long; femur 9 long, with seta bv 8 long; genu 5 long, with seta l'' 22 (21-22) long; tibia 7 long, with seta l' 10 long; tarsus 8 long; antaxial fastigial tarsal seta ft'' 24 (19-24) long; tarsal solenidion  $\omega$  10 long; tarsal empodium 7-rayed, 11 long.



Figs 3-4. Aculodes deschampsiae: 3) coxogenital region (CG) of a female; 4) male, genital region (GM).

Leg II 30 (28-30) long; femur 10 long, with seta bv 13 (10-13) long; genu 5 long, with seta l" 11 (11-12) long; tibia 6 long; tarsus 8 (7-8) long; antaxial, fastigial tarsal seta ft" 25 (24-25) long; tarsal solenidion  $\omega$  11 (10-11) long; tarsal empodium 7-rayed, 10 long; setae of both legs located as in female.

Coxae covered with a pattern of short, slender lines; tubercles 1b 11 apart, setae 1b 8 long; tubercles 1a 8 apart, setae 1a 19 (14-19) long; tubercles 2a 19 (19-22) apart, setae 2a 29 (26-29) long; distance between tubercles 1b and 1a 8; distance between tubercles 1a and 2a 8.

Opisthosoma with 48 (48-49) dorsal and 59 (58-59) ventral annuli. Annuli completely microtuberculate; microtubercles pointed; last 4-6 ventral annuli with elongate microtubercles.

Setae c2 38 (37-38) long, located on 9<sup>th</sup> ventral annulus from coxae II, tubercles c2 45 apart; ventral setae d 29 (29-32) long, 30 apart, located on 17<sup>th</sup> ventral annulus; setae e 24 (24-30) long, 13 (13-14) apart, located on 33<sup>rd</sup> (32<sup>nd</sup>-33<sup>rd</sup>) ventral annulus; setae f 23 (23-25) long, 20 apart, on 55<sup>th</sup> (54<sup>th</sup>-55<sup>th</sup>) ventral annulus, on 5 annulus from the rear.

Setae h1 5 long, 8 apart; setae h2 86 (86-95) long, 12 apart; distance between h1 and h2 - 2.

Genital parts 14 long, 19 wide; setae 3a 18 (18-22) long, tubercles 3a 15 apart.

**Nymph** (Fig 2): body length 205 (186-205); body width 48 (48-50); elongate, vermiform. Gnathosoma 26 (26-27) long; dorsal pedipalp genual seta *d* 6 long; chelicerae 22 (18-22) long. Prodorsal shield triangular, with little lobe over the gnathosoma, 38 (38-39) long, 40 wide. Tubercles of setae *sc* large, located on rear margin, 26 (24-26) apart; setae *sc* 19 long.

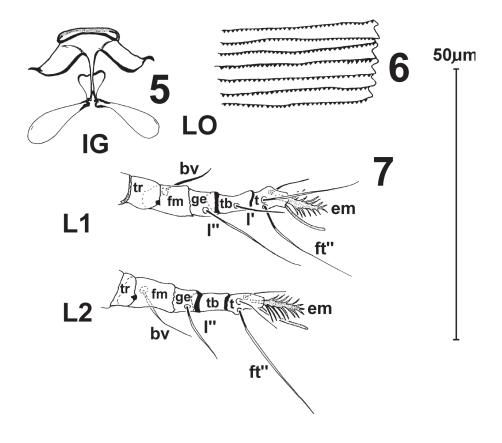
Leg I 22 (22-26) long; femur 8 long, with seta bv 7 long, in the transverse midline of ventral side of femur; genu 4 long, with seta l" 18 (18-20) long, in the transverse midline of latero-ventral side of genu; tibia 5 long, with seta l" 7 (6-7) long, in the transverse midline of dorsal side of tibia; tarsus 5 (5-7) long, with three setae; antaxial fastigial tarsal seta ft" 18 (18-20) long; tarsal solenidion  $\omega$  8 (8-9) long; tarsal empodium simple, 7-rayed, 9 long.

Leg II 24 (24-25) long; femur 6 long, with seta bv 8 long, in 1/3 from base of femur on ventral side; genu 3 long, with seta l" 8 (8-9) long, in the middle of latero-ventral side of genu; tibia 4 (4-5) long; tarsus 5 (5-6) long, with three setae; antaxial fastigial tarsal seta ft" 19 (19-20) long; tarsal solenidion  $\omega$  8 (8-9) long; tarsal empodium 7-rayed (6-7), 9 long.

Coxae covered with a pattern of short lines; tubercles 1b 11 apart; tubercles 1a 8 (8-9) apart; 2a tubercles 20 (20-21) apart, setae 2a 29 long; distance between tubercles 1b and 1a 8 (8-9); distance between tubercles 1a and 2a 7 (7-8).

Opisthosoma with 57 (57-58) dorsal and 58 (58-59) ventral annuli. Annuli completely microtuberculate, microtubercles pointed, last 3 ventral annuli with elongate microtubercles.

Setae c2 24 long, located on  $10^{\text{th}}$  (9<sup>th</sup>- $10^{\text{th}}$ ) ventral annulus from coxae II, tubercles c2 40 (40-41) apart; setae d 19 (16-19) long, 28 (22-28) apart, located on  $20^{\text{th}}$  (20<sup>th</sup>- $22^{\text{nd}}$ ) ventral annulus; setae e 11 long, 13 (11-13) apart,



Figs 5-7. Aculodes deschampsiae: 5) internal genitalia of a female (IG); 6) detail of some annuli of female (LO); 7) leg I (L1) and II (L2) of a female.

located on  $33^{\rm rd}$  ( $33^{\rm rd}$ - $34^{\rm th}$ ) ventral annulus; setae f 17 long, 21 apart, located on  $54^{\rm th}$  ( $54^{\rm th}$ - $55^{\rm th}$ ) ventral annulus, on  $5^{\rm th}$  annulus from the rear.

Setae h1 3 long, 7 apart; setae h2 61 long, 11 apart; distance between h1 and h2 - 2.

Setae 3a 8 (5-8) long, tubercles 3a 10 apart.

## REMARKS:

Four species of the genus *Aculodes* were found up to date in Poland on plants of family Poaceae: *A. agropyronis* (Keifer) on *Lolium perenne* L., *A. mckenziei* (Keifer) on *Agropyron repens* (L.)P.B., *A. dubius* (Nalepa) on *Festuca rubra* L., *Alopecurus aequalis* Sobol., *Bromus mollis* L., *Holcus lanatus* L., *L. perenne* L., *Phleum pratense* L., *Poa pratensis* L. (Boczek *et al.*, 1976; Skoracka, Boczek 2000) and *A. deschampsiae* (Sukhareva) only on *Deschampsia caespitosa* (L.)P.B.

*A. deschampsiae* in Poland was found in three remote localities (Katowice, Pieniny and Bialowieza), all specimens of this species were found as vagrants in the grooves of upper surfaces of leaves. Number of specimens in sample collected in Katowice were 30-40 per leaf.

This species can be well characterized by the shape and very characteristic sculpture pattern on prodorsal shield, size of prodorsal shield, shape and appearance of microtubercles, lengths of setae *sc* and setae on the venter.

A. deschampsiae appears to be most similar to A. agropyronis (Keifer) by pointed microtubercles, triangular prodorsal shield, presence of median and position of admedian lines, dimensions of prodorsal shield and female coverflap, and lengths of c2, e, f, b1 and 3a setae. In females of A. deschampsiae those measurements are: prodorsal shield – 48 long, genital parts 15 long, 24 wide, lengths of setae: c2 - 41, e - 26, f - 26, b1 - 4, 3a - 24. In females of A. agropyronis those: prodorsal shield – 46 long, genital parts 12 long, 22 wide, lengths of setae: c2 - 36, e - 24, f - 26, b1 - 6, 3a - 27.

Those two species differ in length of sc, ventral d and palpal d setae; there are also some differences in pattern on prodorsal shield (Keifer, 1960). In A. deschampsiae lengths of those setae are: sc - 31, ventral d - 36, palpal d - 10; while in A. agropyronis: sc - 46, ventral d - 70, palpal d - 4.

Sukhareva (1972) regards *A. dubius* as the most similar species to *A. deschampsiae*. They have similar shape of prodorsal shield, but in *A. dubius* prodorsal shield is larger and there is no median line, they also differ by form of microtubercles and lengths of setae.

Females of *A. deschampsiae* from Poland and from Russia are similar in morphology, however in the original description only a few measurements are given for male and nymph. Therefore, it is difficult to make the comparison between russian and polish populations of the species. There are no considerable differences between the two populations collected in Poland; some of them may result from intraspecific variability (tab. 1).

Tab. 1 - Comparison of measurements of *Aculodes deschampsiae* (Sukhareva, 1972) collected in Poland and Russia.

stage	Females			Males			Nymphs	- /
Date and locality of	5.09.68;	24.08.99;	09.05.99;	5.09.68;	24.08.99;	09.05.99;	5.09.68;	24.08.99;
collecting samples	Petersburg, Russia	Pieniny, Poland	Katowice, Poland	Petersburg, Russia	Pieniny, Poland	Katowice' Poland	Petersburg, Russia	Pieniny, Poland
	Russia			Russia			Russia	
		range of 9	range of 7		range of 4	range of 2		range of
	188 (176-250,6)	specimens 206-287	specimens 217-264	160-170	specimens 198-228	specimens 185-277	170 (140-200)	specimen 186-205
ength of body width of body	50 (42-52)	200-287 54-67	52-58	50	198-228 47-51	185-2// 49-51	50 (45-57)	48-50
length of gnatosoma	24,7 (24,3-25,9)	29-32	28-31	24.7	25-29	26-27	20 (19,5-21,2)	26-27
length of pedipalp seta d	24,7 (24,3=23,9)	8-10	8-10	29.7	7-8	7-8	20 (19,5=21,2)	6
length of chelicerae		22-31	25-30		21-24	19-20		18-22
length of prodorsal shield	42,5 (41,3-46)	46-51	46-49	37.7 (35,6-38)	43	41-42	31,8 (28,3-34,2)	
width of prodorsal shield	35,4	43-48	40-49	32 (31-32,8)	40	41-43	-	40
length of setae sc	29,5 (24-33)	26-36	29-34	23,6 (22,4-25)	23-24	24-27	21,2 (17,7-23,6)	19
tubercles of sc apart	23,2 (23-23,6)	28-30	29-32	24,7 (23,6-24,8)	26-28	30-31	-	24-26
No. of dorsal annuli	60-68	60-68	59-64	-	52-53	48-49	52-60	57-58
No. of ventral annuli	57-66	68-77	66-75	-	54-63	58-59	-	58-59
length of setae c2	32 (30-35)	29-38	35-43	-	26-35	37-38	-	24
location c2 on ventral annulus	7-8	7-10	8-9	-	7-8	9	-	9-10
tubercles of c2 apart	-	46-52	46-55	-	37-46	45	-	40-41
length of setae d	30 (27-32)	30-39	32-45	-	33-38	29-32	-	16-19
location d on ventral annulus	18-22	20-23	20-24	-	18-19	17	-	20-22
tubercles of d apart	-	26-36	30-37	-	27-30	30	-	22-28
length of setae e	19 (18-20)	18-31	18-29	-	14-19	24-30	-	11
location e on ventral annulus	35-38	37-46	37-45	-	35-36	32-33	-	33-34
tubercles of e apart	18 (17-20)	13-16	15-18	-	12-14	13-14	-	11-13
length of setae f location f on ventral annulus	4 from rear	24-27 63-73	20-27 62-71	-	19-24 59	23-25 54-55	-	17 54-55
tubercles of f apart	4 from rear	18-24	20-23	-	16-21	20	-	21
tubercies of j apart length of setae b1	3.5	18-24 4-5	20-25 4-5		3-5	5		3
length of setae b2	90	74-86	76-83		67-76	86-95		61
tubercles of b1 apart	-	8-9	8-10		7-8	8		7
tubercles of b2 apart	_	11-14	11-14	_	9-11	12	_	11
distance between b1 and b2	-	3-4	3	-	2-3	2	-	2
length of genital parts	10,6 (10,4-11,8)	12-16	14-16	10,6 (10,2-11,2)	14	14	-	
width of genital parts	20 (18,6-22,4)	21-25	22-24	18 (17,7-18,2)	19-21	19	-	
length of setae 3a	18 (17,6-20)	18-25	24-30	-	15-19	18-22	-	6-8
tubercles of 3a apart	-	15-17	14-18	-	14-18	15	-	10
No. striae on female coverflap	10-11	8-11	10-11	-	-	-	-	
tubercles of 1b apart	9,4 (8,6-9)	10-11	11-12	-	10-11	11	-	11
length of setae 1b	-	7-8	8-10	-	8	8	-	
tubercles of 1a apart	7 (6,7-7,2)	9-11	8-10	-	6-9	8	-	8-9
length of setae 1a		19-28	19-24	-	16-27	14-19	-	
tubercles of 2a apart	17 (17-18)	21-26	21-26	-	19-23	19-22	-	20-21
length of setae 2a	0 ( (0 ( 0 0	36-47 8-10	42-46 8-10	-	34-40 8-10	26-29	-	29 8-9
tubercles of 1b and 1a apart tubercles of 1a and 2a apart	9,4 (8,6-9,4) 12,5 (11,8-13)	8-10 8-9	8-10 8-9	-	8-10 8-9	8	-	8-9 7-8
length of leg I	33 (31-34)	30-39	32-34	30 (29-32,3)	30-33	29	21 (18,8-23,6)	22-26
length of femur I	55 (51-54) -	10-11	9-11	50 (29-52,5)	9-10	9	21 (10,0-25,0)	8
length of setae bv	-	8-10	8-11	-	7-8	8	-	7
length of genu I	-	5-7	5-6	_	6	5	-	4
length of setae I"	-	20-24	22-26	-	19-20	21-22	-	18-20
length of tibia I	5,7 (5,3-7)	6-8	7-8	6	6-7	7	-	5
length of setae I'	-	8-11	10-11	-	9-11	10	-	6-7
length of tarsus I	7	7-9	7-8	7	6-8	8	-	5-7
length of setae ft"	-	20-27	22-27	-	21-24	19-24	-	18-20
length of tarsal I solenidion	8,2 (8-9)	10-11	10-11	8.2	10-11	10	-	8-9
length of tarsal I empodium	7	8-11	10-11	7	10-11	11	-	9
No. of rays of tarsal I empodium	7-8	8	7-8	7	7	7	-	7
length of leg II	28 (27-29)	31-35	31-33	-	29-30	28-30	17,7 (17-18,8)	24-25
length of femur II	-	11	9-11	-	9-10	10	-	6
length of setae bv	-	11-13	11-14	-	10-11	10-13	-	8
length of genu II	-	5-8	5-6	-	5-7	5	-	3
length of setae I"		11-13	11-13	-	11	11-12	-	8-9
length of tibia II	5,3 (5,6-5,9)	6-7	6-7	-	5-6	6	-	4-5
length of tarsus II	7	7-9	7-8	-	6-7	7-8	-	4-6
length of setae ft"		23-27	24-28	-	24-25	24-25	-	19-20
					11	10-11	_	8-9
length of tarsal II solenidion length of tarsal II empodium	8,2 (8-9) 7	10-12 10-11	10-11 11	-	9-10	10		9

## ACKNOWLEDGEMENTS:

I am indebted to Dr. Wojciech Magowski, Department of Animal Taksonomy and Ecology, A. Mickiewicz University for his critical and valuable comments on the manuscript. I am grateful to Dr. Enrico de Lillo for reviewing the paper.

The study was supported by the Polish Scientific Research Committee (research grant No. 6 P04 C0 5418).

### RIASSUNTO

Aculodes deschampsiae (Sukhareva, 1972) (Acari: Eriophyoidea) associato a Deschampsia caespitosa (L.) P.B. in Polonia: supplemento di descrizione

La descrizione di *Aculodes deschampsiae* (Sukhareva, 1972), nuova segnalazione per la Polonia, viene ampliata. Questa specie fu rinvenuta come vagante su foglie di *Deschampsia caespitosa* (L.) P.B. Nel presente contributo è eseguita la comparazione dei caratteri delle popolazioni raccolte in Polonia e Russia.

Parole chiave: Actinedida, acari fitofagi, morfologia.

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