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Three new species of *Anthrenus* O. F. MÜLLER, 1764
from southern Africa
(Coleoptera: Dermestidae)

JIŘÍ HÁVA¹ & MARCIN KADEJ²

¹Private Entomological Laboratory and Collection, Branická 13/574, CZ-147 00 Praha 4, Czech Republic; e-mail: jh.dermestidae@volny.cz

²Department of Biodiversity and Evolutionary Taxonomy, Zoological Institute, University of Wrocław, ul. Przybyszewskiego 63/77, 51-148 Wrocław, Poland, e-mail: entomol@biol.uni.wroc.pl

ABSTRACT. *Anthrenus* (*Nathrenus*) *margarethae* n. sp. (South Africa), *A. (N.) katerinae* n. sp. (Namibia) and *A. (N.) cordis* n. sp. (South Africa) are described, illustrated and compared with related species. New faunistic records are given: *A. (Anthrenops) splendidus* HÁVA, 2004 (Botswana, Namibia); *A. (A.) coloratus* REITTER, 1881 (Namibia, South Africa); *A. (Anthrenus) oceanicus* FAUVEL, 1903 (Mauritius); *A. (A.) picturatus picturatus* SOLSKY, 1876 (South Africa); *A. (A.) senegalensis* PIC, 1927 (Gambia); *A. (A.) tarnawskii* KADEJ & HÁVA, 2006 (South Africa); *A. (A.) kenyaensis* HÁVA, 2004 (South Africa); *A. (Nathrenus) boyesi* HÁVA, 2004c (South Africa: Cape, Namaqualand, Natal, Zimbabwe); *Anthrenus (N.) basilewskyi* KALIK, 1965 (Tanzania).

Key words: entomology, taxonomy, Coleoptera, *Dermestidae*, *Anthrenus*, new species, faunistic records, Afrotropical region.

INTRODUCTION

The genus *Anthrenus* O.F. MÜLLER, 1764 comprises more than 160 species (HÁVA 2003, 2006) - numerous of them described recently (HÁVA 2005; KADEJ & HÁVA 2006; ZHANTIEV 2006). Genus is characterized by wide or elongate scales of different colors occurring on the dorsum and venter. They create a pattern which is proved to be a diagnostic feature useful for species identification (BEAL 1998; HÁVA 2004b, MROCKOWSKI 1975; ZHANTIEV 1976, 2000). In the present paper three new species collected in Afrotropical region are described.

MEASUREMENTS AND METHODS

Explanation of abbreviations:

- JHAC: Private Entomological Laboratory and Collection, Prague, Czech Republic;
 SANC: South African National Collection of Insects, Museum Pretoria, South Africa;
 SMWN: State Museum of Namibia, Windhoek, Namibia;
 PPRI: Plant Protection Research Institute, Pretoria, South Africa;
 TMSA: Transvaal Museum Pretoria, South Africa;
 MZLU: Museum of Zoology Lund University, Lund, Sweden;
 MNHU: Museum für Naturkunde der Humboldt-Universität zu Berlin, Berlin, Germany;
 MNHN: Muséum National d'Histoire Naturelle, Paris, France
 ZMUB: Zoologisches Museum, Museum für Naturkunde, Berlin, Germany;
 ZMUC: Universitets Museum, University, København, Denmark;
 ZSMC: Zoologische Staatssammlung, München, Germany.
 BL: body length (measured from the head anterior margin to the apex of the elytra).
 BW: body width (measured between two anterolateral humeral calli).
 PL: pronotum length (measured from the top of the anterior margin to scutellum).
 PW: pronotum width (measured between the two posterior angles of pronotum).
 SL:- sternites length (measured from the anterior margin to the apex of posterior margin).
 SW: sternites width (measured between two lateral margins in the anterior part of sternites).
 AFL: antennal fossa length (measured along the antennal fossa).
 LMP: length of lateral margin of pronotum (measured as a distance between inferior part of pronotum and exterior angle).

All measurements are given in millimeters. The morphological structures (antenna, wing, leg, genitalia, galea and lacinia, abdominal sternite IX, abdominal tergite and sternite IV) were observed under phase contrast microscope Nikon Eclipse E 600 with a drawing attachment in transparent light in glycerin. All morphological structures were put into plastic micro vials with glycerin under proper specimens. Photos were taken with the camera Nikon Coolpix 4500.

FAUNISTICS

Anthrenus (Anthrenops) splendidus HÁVA, 2004

MATERIAL EXAMINED

Botswana, Serowe Farmers Brigade, 22.25S 26.44E, 03.ix.1986, P. Forchhammer leg., 1 female, (PPRI); Namibia, Helmeringhausen, 25.53S 16.49E, 1250 m, 17.ii.1988, B. Brobbelaar lgt., collected on *Ziziphus* sp. (Rhamnaceae), 1

female, (PPRI); Namibia, Gelukkie, Okavango, West Caprivi Park, 18°03'S 21°27'E, 6.iv.1990, E. Marais lgt., 1 female, (SMWN).

DISTRIBUTION

Species known only from South Africa (HÁVA 2005), new records from Botswana and Namibia.

***Anthrenus (Anthrenops) coloratus* REITTER, 1881**

MATERIAL EXAMINED

Namibia, Windhoek, SE 2217 Ca, 15-17.dec.1973, H 15487, 1 ex., (SMWN); Namibia, Windhoek, SE 2217 Ca, 9-12.nov.1973, H 15007, 1 ex., (SMWN); Namibia, Windhoek, 22.34'S, 17.05'E, 9.12.86, J. Irish [lgt.] (coll. Namibia), 1 ex., (SMWN); Namibia, Naukluft Park, Dunes near Gobabeb, 23.34S 15.03E, 1983, R. Oberprieler lgt., collected from *Trianthema hereroensis* (Aizoaceae), 1 ex., (PPRI); South Africa, Roodeplaatdam, 25.41S 28.18E, 18.iv.1986, C. J. Cilliers lgt., ex fruit of *Ziziphus mucronata*, 1 ex., (PPRI); South Africa, Gauteng Arcadia, Pretoria, 25.45S 28.12E, 20.ii.2004, W. Breytenbach lgt., found dead inside National Collection of Insects, 1 ex., (JHAC).

DISTRIBUTION

Species known from Europe, Canary Is., Turkey, Algeria, Egypt, Eritrea, Morocco, Sudan, Tunisia, U.S.A., Afghanistan, India, Israel, Kazakhstan, Kyrgyzstan, Saudi Arabia, Syria, Tadjikistan, Turkmenistan (HÁVA 2003, 2005), first records from Namibia.

***Anthrenus (Anthrenus) oceanicus* FAUVEL, 1903**

MATERIAL EXAMINED

Mauritius, Candos, 3.5.1962, C. M. Courtois lgt., 2 exx., (PPRI).

DISTRIBUTION

Species known from Czech Republic (intr.), England (intr.), Egypt, Hawaiian Is., India, Indonesia: Java, Madura, Malaysia, Sri Lanka, New Caledonia (HÁVA 2003, 2005), new record from Mauritius.

***Anthrenus (Anthrenus) kenyaensis* HÁVA, 2004**

MATERIAL EXAMINED

South Africa, Tvl [Transvaal], Roedtan, 24.36S 29.05E, 9.1.1990, M. Jonsson lgt., 26 exx., (PPRI); South Africa, Tvl [Transvaal], Naboomspruit, 24.32S 28.36E, 8.1.1990, M. Jonsson lgt., 6 exx., (PPRI); [South Africa], Pretoria, jan.1941, SN.3699, *Anthrenus* sp.in B.M. unnamed, R. D. Pope det. 1949, 1 ex., (PPRI).

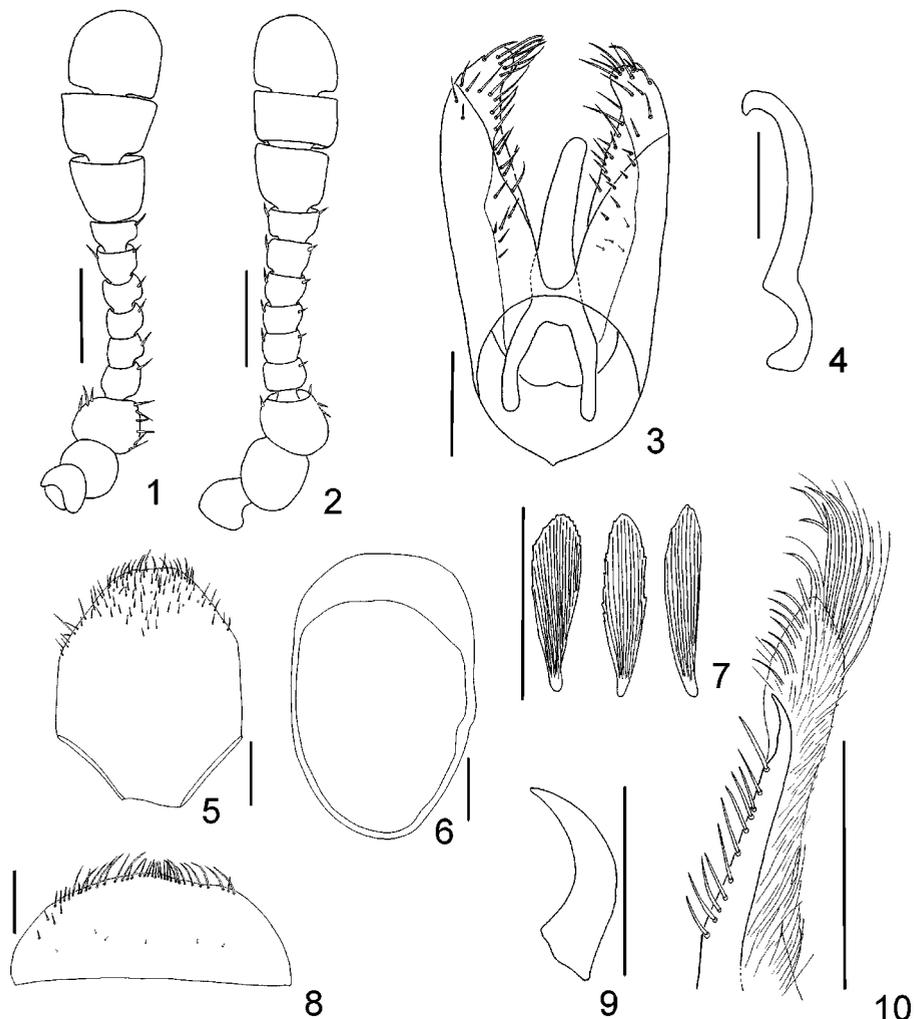
DISTRIBUTION

Species described from Kenya, new records from South Africa.

Anthrenus (Anthrenus) picturatus picturatus SOLSKY, 1876

MATERIAL EXAMINED

South Africa, Pretoria, 20.ix.1955, G. van Son lgt., 1 ex., (SANC); South Africa, Pretoria, L. Vári, Ac. No., 1 ex., (SANC); South Africa, Klipplaat, x.1948, C. Koch lgt., 1 ex., (JHAC); South Africa, Pretoria, Tvl., Des.1960, R.H.Ford lgt.,



1-10. *Anthrenus boyesi* HÁVA, 2004: 1 – female antenna; 2 – male antenna; 3 – male genitalia; 4 – aedeagus (lateral view); 5 – ninth abdominal sternite; 6 – ninth abdominal tergite; 7 – scales; 8 – sixth abdominal tergite; 9 – tarsal claw; 10 – galea and lacinia (scale bar figs 1-10: 0.01 mm)

AcCol.37, 3 exx., (PPRI); South Africa, Pretoria, TP., Sept. 1952, H. K. Munro lgt., 1 ex., (PPRI).

DISTRIBUTION

Species known from Georgia, Afghanistan, Caucasus, Iran, Kyrgyzstan, Kazakhstan, Tadjikistan, Turkey, Turkmenistan and Uzbekistan (HÁVA 2003, 2005). First records from Afrotropical region and South Africa (probably alien species).

***Anthrenus (Anthrenus) tarnawskii* KADEJ & HÁVA, 2006**

MATERIAL EXAMINED

South Africa, Transvaal, 5-15 km S Mooketsi, on Houtbosdorp rd., 23.40 S 30.02 E, 15.i.198[?], C. D. Eardley lgt., 1 ex., (PPRI).

DISTRIBUTION

Species described from Namibia and Zimbabwe (KADEJ & HÁVA 2006), first record from South Africa: Transvaal province.

***Anthrenus (Anthrenus) senegalensis* PIC, 1927**

MATERIAL EXAMINED

Gambia, Bakau, W of Banjul, 10-20.i.1979, B. Petersen leg., 1 ex., (ZMUC).

DISTRIBUTION

Species known only from Senegal (HÁVA 2003), first record from Gambia.

***Anthrenus (Nathrenus) basilewskyi* KALÍK, 1965**

Anthrenus falsatum REITTER (unpublished name)

MATERIAL EXAMINED

Zanzibar Raffray / Type Reitter / falsatum Rtt. (1 ex.); Zanzibar Raffray (2 exx.), (MNHN).

DISTRIBUTION

Species known from Kenya; Malawi; Tanzania; Zambia (HÁVA 2005).

***Anthrenus (Nathrenus) boyesi* HÁVA, 2004**

(Figs 1-11, 17)

Anthrenus multisignatus KALÍK (unpublished name)

MATERIAL EXAMINED

Paratypes of *A. multisignatus* n. sp. Kalík det.: (MNHU): 1 PT: 9303 (blue label): melagrinus, N. Port. Natal. Popp; 3 PT: 9303 /Paratype / (blue label):

Hist.-Coll. (Coleoptera) Nr. 9303 *Anthrenus melagrinus* N. Port Natal, Poepig Zool. Mus. Berlin; 1 PT: Transvaal ex coll. Fruhstorfer / Paratype; 14 PT: (blue label): Durban Natal P. Reineck / Paratype; 5 PT: (blue label): Durban Natal P. Reineck / Paratype; (SANC): 1 PT: SATARA V'78 24°23' 31°41' H. J. Theron Ca Dept: of Entomology University of Pretoria./Lek. 54-16; 3 PT: SE 28.29.Ba V



11, 17. *Anthrenus (Nathrenus) boyesi* HAVA, 2004: 11- dorsal habitus; 17 – sternites; 12-16, 18, 19. *Anthrenus (Nathrenus) margarethae* n. sp.: 12-16 – dorsal habitus; 18 – sternites; 19 - wing

1977 R. Dreyer Dept of Entomology University of Pretoria/caught on flowers/ Lek. 54-14; (MZLU): 8 PT: S. Afr. Natal. Huhluwe Game Reserve. 17.IV.51 No. 276 / Swedish South Africa Expedition 1950-1951 Brinck-Rudebeck / Paratype; (SANC): 6 PT: Natal, 1887; 3 PT: Durban W. Haygarth [leg.] 4.1913; 5 PT: Johannesburg, 14.4.99, Gregor [lgt.]; (ZSMS): 14 PT: Nqutu Zululand 21.3.1951 A. L. Capener [lgt.].

NON TYPE MATERIAL

S. Afr., Namaqualand, Hoekbaai 2 km ENE, 31.11S-17.47E/ 27.8.1979; E-Y: 1608, on flow. Mesembran, leg. Endrödy-Younga, 72 exx., (TMSA); S. Afr., Namaqualand, Titiesbaai, 3 km NW, 31.10S-17.46E/ 28.8.1979; E-Y: 1614, singled, white sand, leg. Endrödy-Younga, 43 exx., (TMSA); S. Afr., E Transaal, Bosbokrand, 24.49S-31.04E/ 6.5.1981; E-Y: 1782, flow. Composite bush, leg. Endrödy-Younga, 2 exx., (TMSA); Zimbabwe, Harare, 17-19 June 1977, leg. R. K. Brooke, 3 exx., (TMSA).

DISTRIBUTION

Species described from Swaziland, first records from South Africa: Cape, Namaqualand, Natal and Zimbabwe.

DESCRIPTIONS

Anthrenus (Nathrenus) margarethae n. sp.

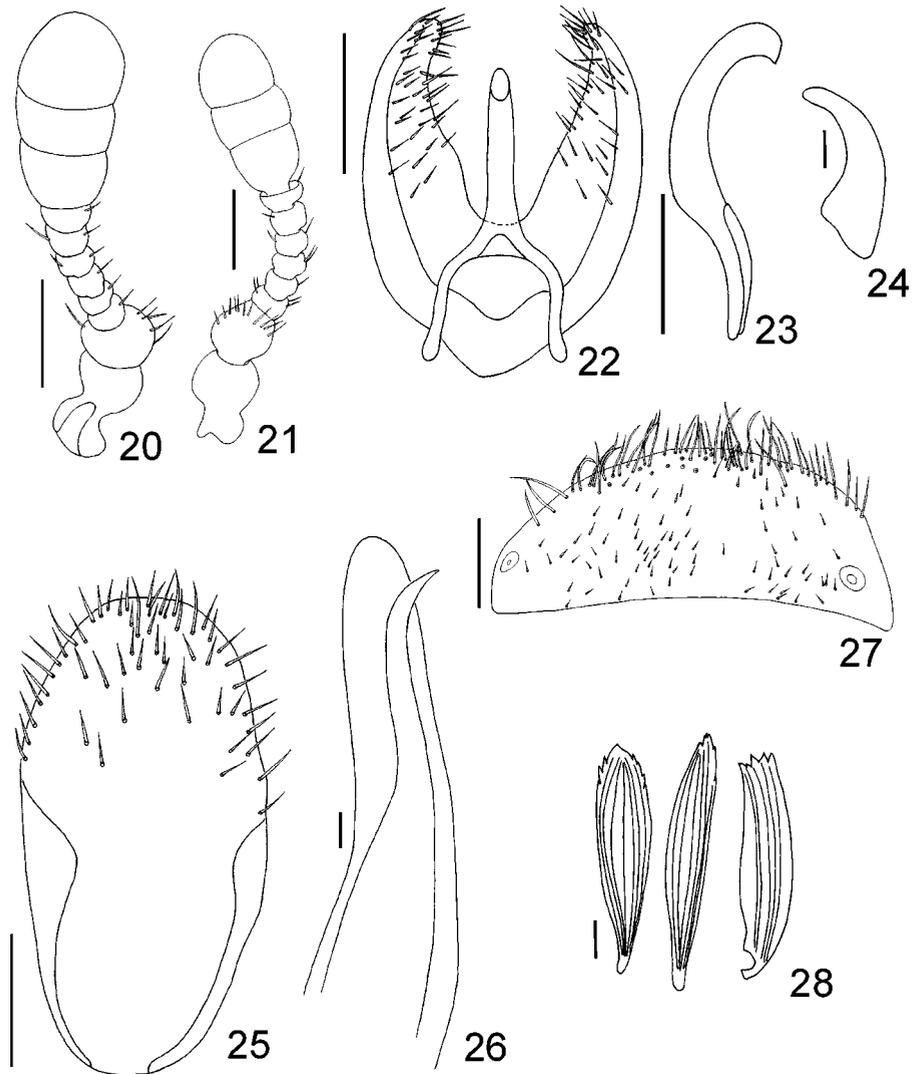
(Figs 12-16, 18-28)

TYPE MATERIAL

Holotype (male): "South Africa, CP [Central Cape province], Ruitersbos, Outeniqua Mts., 800 m, 33.53S 22.02E, 03.xii.1988, R. Oberprieler lgt.", (PPRI). Allotype (female): the same data as holotype, (PPRI). Paratypes: (9 paratypes): the same data as holotype, (8 PPRI, 1 JHAC); (1 paratype): "South Africa, CP [Central Cape province], Nico Malan Pass, 5 km NE Seymour, 1400 m, 32.30S 26.50E, 25.xi.1988, R. Oberprieler lgt.", (PPRI); (1 paratype): "South Africa, CP [Central Cape province], Phantom Pass nr Knysna, 34.00S 22.59E, 04.xii.1988, R. Oberprieler lgt.", (PPRI); (1 paratype): "South Africa, CP [Central Cape province], Suurberg Pass, 900 m, 33.17S 25.44E, 28.xi.1988, R. Oberprieler lgt.", (PPRI); (1 paratype): "South Africa, W Cape, Roadsine, 8 km W Knysna, 34.02S 22.58E, c.150m, 10.xi.1998, J. du Plessis lgt.", (PPRI); (3 paratypes): "South Africa, CP [Central Cape province], Knysna, 34.02S 23.03E, 26.xi.1983, R. Oberprieler lgt.", (PPRI); (8 paratypes): "South Africa, CP [Central Cape province], Humansdorp. 34.02S 24.46E, 27.xi.1983, R. Oberprieler lgt.", (PPRI); (1 paratype): "South Africa, W Cape, Heideplaas, 18.5km ENE Knysna, 33.59S 23.15E, 21.xi.2000, E. Grobbelaar lgt.", (PPRI); (7 paratypes): "South Africa, W Cape, Karatara, 33.54S 22.50E, 28.xii.1996, Stals & Stahmer lgt.", (6 PPRI, 1 JHAC); (1 paratype): "South Africa, S Cape, Knysna forest, 33.56S 23.08E,

19.11.1973, E-Y: 272 sift. Podocarpilit, Endrödy-Younga lgt.", (TMSA); (1 paratype): "South Africa, S Cape, Tsitsikama, Witelsberg, 33.58S 24.02E, 10.12.1978, E-Y: 1529, sift forest litter, Endrödy-Younga lgt.", (TMSA).

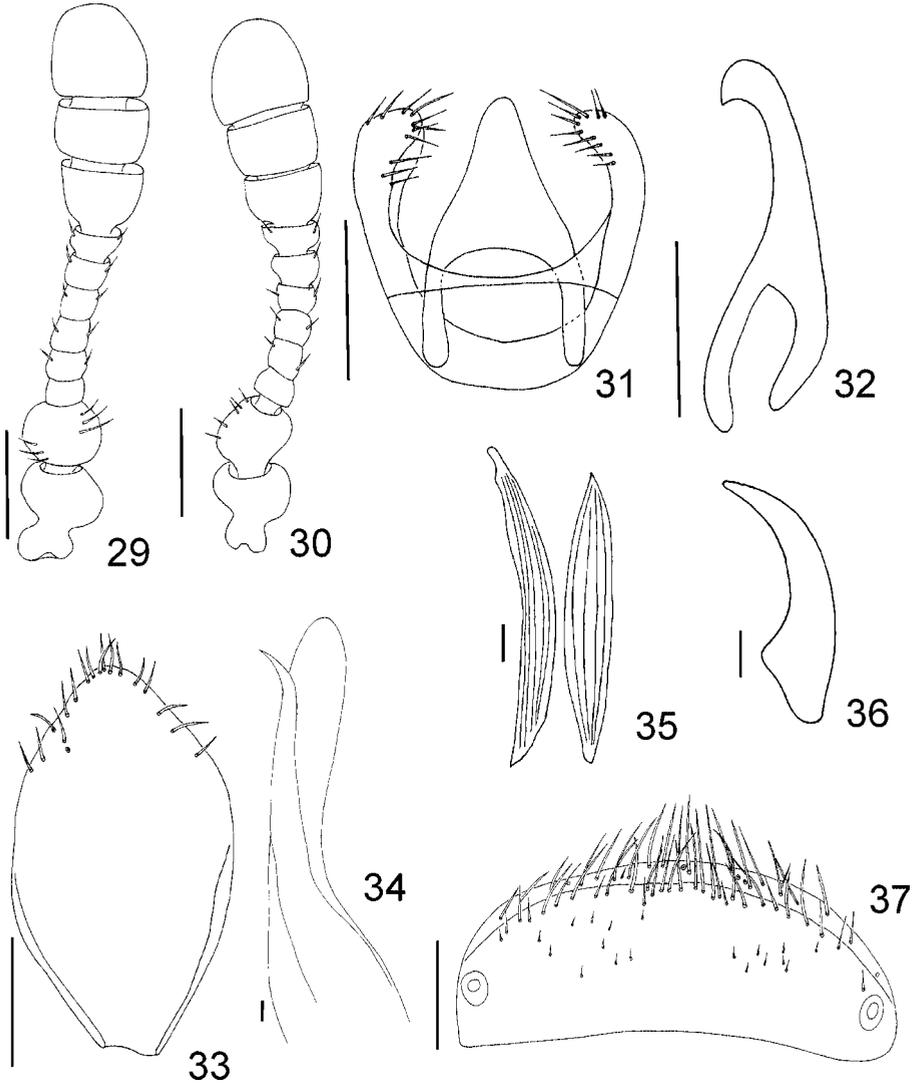
Type specimens provided with label "Holotype [or Allotype, Paratype respectively] *Anthrenus (Nathrenus) margarethae* n. sp., J. Hava & M. Kadej det. 2005 [red, printed].



20-28. *Anthrenus (Nathrenus) margarethae* n. sp. : 20 – male antenna; 21 – female antenna; 22 – male genitalia; 23 – aedeagus (lateral view); 24 – tarsal claw; 25 – ninth abdominal sternite; 26 – galea and lacinia; 27 – sixth abdominal tergite; 28 – scales (scale bar figs 20-23, 25, 27: 0.1 mm; 24, 26, 28: 0.01 mm)

NON TYPE MATERIAL

RSA, W Cape, Herbertsdale, Cloetes pass, 24.11.2002, M. Snížek lgt., 7 exx., (JHAC); RSA, W Cape, Natures Valley env., 24.1.2001, M. Snížek lgt., 2 exx., (JHAC).



29-37. *Anthrenus (Nathrenus) albostictus* REITTER, 1881: 29 – male antenna; 30 – female antenna; 31 – male genitalia; 32 – aedeagus (lateral view); 33 – ninth abdominal sternite; 34 – galea and lacinia; 35 – scales; 36 – tarsal claw; 37 – sixth abdominal tergite and sternite (scale bar figs 29-33, 37: 0.1 mm; 34-36: 0.01 mm)

NAME DERIVATION

The species name is dedicated to the wife of the second author – Małgorzata KADEJ.

DIAGNOSIS

Anthrenus (Nathrenus) margarethae n. sp. is similar to *A. (N.) boyesi* HÁVA, 2004 and *A. (N.) albostictus* REITTER, 1881, but differs from it with the following characters:

	antennal segments	scales on elytra	abdominal spots	paramers
<i>A. boyesi</i> HÁVA	black	black and white; white scales forming only small isolated spots	each abdominal sternite with two median, small spots with black scales	V-shaped
<i>A. albostictus</i> REITTER	black	black and white; white scales forming three transverse bands and a small apical spot	each abdominal sternite without two median, small spots with black scales	U-shaped, but visibly broader
<i>A. margarethae</i> n. sp.	I-VIII brown, IX-XI black	black and orange-red; orange-red scales forming three transverse bands and a small apical spot	each abdominal sternite with two median, small spots with black scales	U-shaped

DESCRIPTION

Body strongly convex, covered with scales (BL: 2.2-2.6; BW: 1.5-1.75) (Figs 12-16, 18). Head with big convex eyes. Frons with median ocellus, covered with dark brown scales. Antenna of both sexes brown, 11-segmented, antennal club 3-segmented (Figs 20-21), covered densely with brown pubescence. Terminal segment oval. Antenna occupies the whole cavity of antennal fossa. Antennal fossa completely open (AFL: 0.15-0.2) along the lateral margin of pronotum (LMP: 0.3-0.4). Dorsal and ventral surface of integument dark brown, slightly punctated, covered with dark brown and yellowish (almost orange) scales (Figs 12-16). Pronotum (PL: 0.7; PW: 1.25), covered with brown scales in the central part, yellowish-orange scales on the angles, lateral parts and on the anterior lateral margin. Elytra covered with dark brown and yellowish-orange scales, which usually create three transverse, nearly complete bands. The anterior part of the elytra covered with dark brown scales. Inferiorly yellowish scales create thin and irregular transverse band. The terminal parts covered with yellowish-orange scales creating two distinctive spots.

Abdominal sternites covered with mixture of yellowish-orange and brown scales – especially anterolateral parts of the sternites I-V (SL: 1.1-1.25; SW: 1.65-1.7) (Fig. 18).

Legs brown, covered with dark brown scales on dorsal surface. Tarsus with two slightly curved tarsal claws (Fig. 24). Male genitalia as in figure 22. Parameres covered with numerous short setae. Median lobe of the same width, slightly bent with the apex curved (Figs 22-23). Abdominal sternite IX oval with numerous short setae on the top and central part (Fig. 25). Abdominal tergite VI light-brown, with two types of setae: longer on the posterior margin and shorter centrally in the anterior part (Fig. 27). Galea and lacinia as in fig. 26. Wing as in Fig. 19.

VARIABILITY

Figs 12-15.

Anthrenus (Nathrenus) cordis n. sp.

(Figs 38-49)

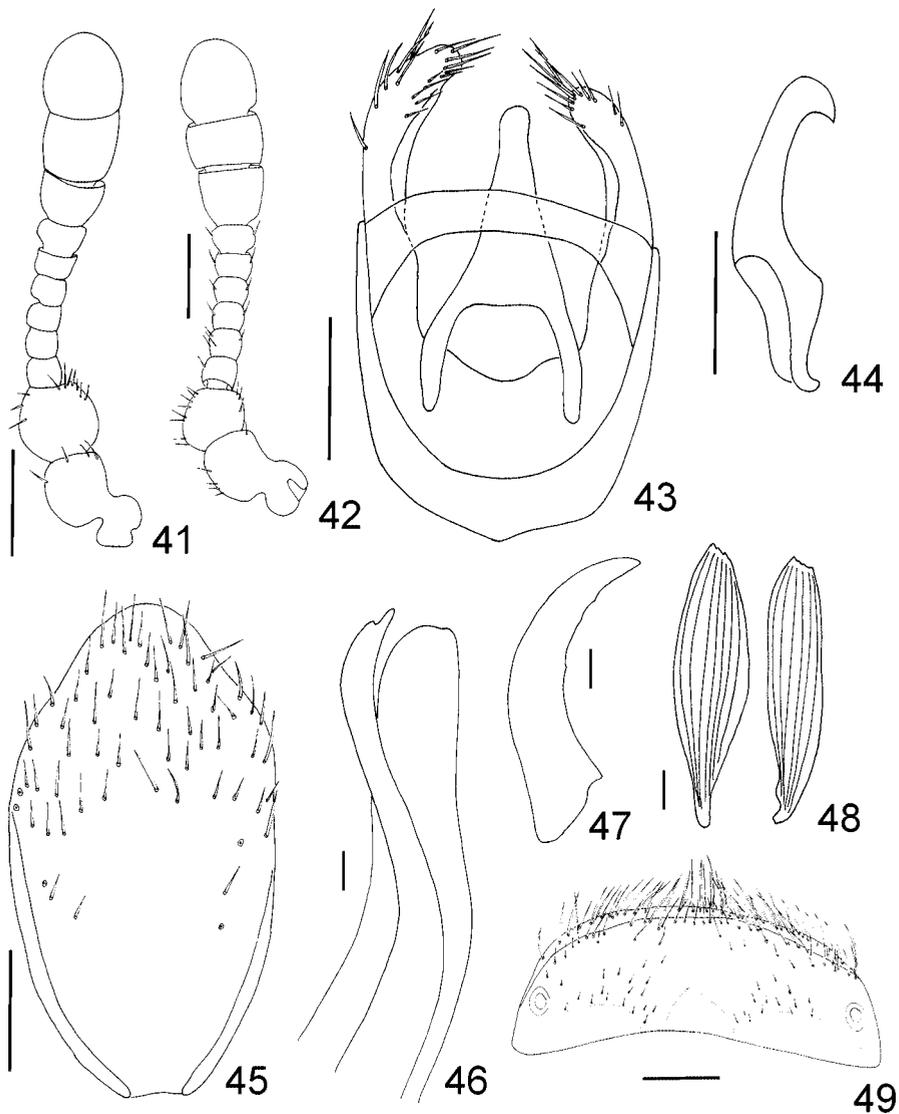
TYPE MATERIAL

Holotype (male): "South Africa: E Cape, Baavianskloof Mts. N of Coleskeplaas, 33 34'S 24 15', 3400 ft., 10.viii.1978, W. Breytenbach [lgt.]", (SANC); (4 paratypes): "South Africa, C.P. Ecce Pass nr. Grahams-town, 33.12S 26.37E; 500m, 4.xii.1992, R. Oberpieler [lgt]", 2 exx., (SANC); "South Africa: Ecape, Baavianskloof Mts. N of Coleskeplaas, 33 34'S 24 15', 3400 ft., 10.viii.1978, W. Breytenbach [lgt.]", 1 ex., (SANC); "South Africa, CP Suurberg Nature Reserve, 900m, 33.16S 25.45E, 28.xi.1988, B. Grobbelaar [lgt.]", 1 ex., (SANC); (1 paratype): South Africa, E Cape, Baviaanskloof Mts., N of



38-40. *Anthrenus (Nathrenus) cordis* n. sp.: 38- dorsal habitus; 39 – sternites; 40 - wing

Coleskeplaas, 33°34'S 24°15' E, 3400 ft., 10.viii.1978, W. Breytenbach leg., (JHAC); (1 paratype): South Africa, CP Nico Malan Pass, 5 km NE Seymour, 1400m, 32.30S 26.50E, 25.xi.1988, R. Oberprieler lgt., (PPRI); (1 paratype): South Africa, CP Cintsa Mouth, 32.49S 28.07E, 26.xi.1988, R. Oberprieler lgt.,



41-49. *Anthrenus (Nathrenus) cordis* n. sp.: 41 – male antenna; 42 – female antenna; 43 – male genitalia; 44 – aedeagus (lateral view); 45 – ninth abdominal sternite; 46 – galea and lacinia; 47 – tarsal claw; 48 – scales; 49 – sixth abdominal tergite and sternite (scale bar figs 41-45, 49: 0.1 mm; 46-48: 0.01 mm)

(PPRI); (1 paratype): RSA, W Cape, Franschoekberge, N of Grabouw, 21.xi.2002, R-321, M. Snížek lgt., (JHAC).

NAME DERIVATION

The species name is derived from the yellowish elytral heart-shaped pattern.

DIAGNOSIS

Anthrenus (Nathrenus) cordis n. sp. is similar to *A. (N.) nideki* HÁVA, 2005 but differs from it with the following characters:

A. cordis n. sp.: antennae brown; each elytron with fasciae as in (Fig. 38); aedeagus short, parameres U-shaped.

A. nideki HÁVA: antennae black; each elytron with transverse fasciae and apical spot with yellow scales; aedeagus very long, parameres very narrow, parallel.

DESCRIPTION

Body strongly convex, oval, almost round, covered by scales (BL: 2.65; BW: 1.85) (Figs 38, 48). Head with big convex eyes. Frons with median ocellus, covered with brown scales. Antenna of both sexes brown, 11-segmented, antennal club 3-segmented (Figs 41, 42), covered densely with brown pubescence. Terminal segment oval. Antenna occupies the whole cavity of antennal fossa. Antennal fossa completely open (AFL: 0.25) along the lateral margin of pronotum (LMP: 0.6). Dorsal and ventral surface of integument dark brown, slightly punctated, covered with dark brown and yellowish scales (Fig. 38). Pronotum (PL: 0.65; PW: 1.55) covered with brown scales in the central part, yellowish scales on the angles, lateral parts and on the anterior lateral margin. Elytra covered with dark brown and yellowish scales, which create transverse, nearly complete bands. Along the internal elytral margin, near the suture yellowish scales occur, external margin with dark brown scales. Inferiorly yellowish scales create thin and irregular transverse band.

Abdominal sternites covered with grey, yellowish and brown scales – especially anterolateral parts of the sternites I-IV (SL: 1.25-1.35; SW: 1.65-2.05) (Fig. 39).

Legs brown, covered with brown scales on dorsal surface. Tarsus with two slightly curved tarsal claws (Fig. 47). Male genitalia as in figure 43. Parameres covered with numerous setae on the apex. Median lobe wide at the base, slightly bent with the apex curved (Figs 43-44). Abdominal sternite IX oval with numerous short setae on the top and central part (Fig. 45). Abdominal tergite VI light-brown, with two types of setae: longer on the posterior margin and shorter centrally in the anterior part (Fig. 49). Galea and lacinia as in fig. 46. Wing as in Fig. 40.

***Anthrenus (Anthrenus) katerinae* n. sp.**

(Figs 50-61)

TYPE MATERIAL

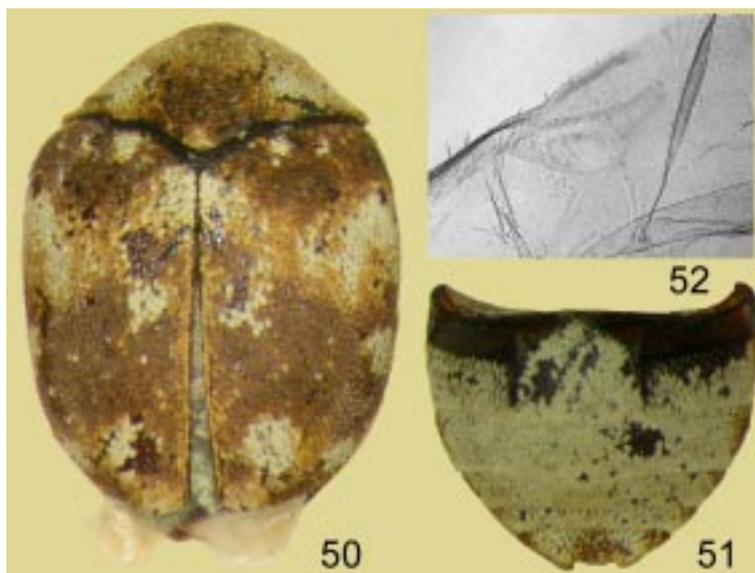
Holotype (male): “S.W.Afr., ErongoMT. Farm Ameib, 21.45S – 15.39E/ 23.2.1975; E-Y: 689 beaten, leg. Endrödy-Younga”, (TSMA); allotype (female): “S.W.Afr., Damaral., Spitzkoppe (small) 21.50S – 15.09E/ 22.2.1975; E-Y: 683 beaten, leg. Endrödy-Younga”, (TSMA); (6 paratypes): “S.W.Afr., Damaral., Spitzkoppe (small) 21.50S – 15.09E/ 22.2.1975; E-Y: 683 beaten, leg. Endrödy-Younga”, 3 exx., (TSMA); “S.W.Afr., Naukluft Naukluft Park, 24.16S – 18.15E/ 12.3.1975; E-Y: 739 light collection leg. Endrödy-Younga”, 2 exx., (TSMA); “Bullspoor 30.3.49: SWA R.G. Strey [lgt.]”, 1 ex., (TSMA); (2 paratypes): “D. S. W. Afrika, Windhuk, Krause S. V.“, (ZMUB, JHAC); (1 paratype): “Windhuk-Swakopmund, Lindt S. G.“, (ZMUB); (2 paratypes): “South West Africa, Windhoek, 22.34S 17.05E, 22.-30.xii.1983, R. Oberprieler”, (PPRI, JHAC); (1 paratype): “Namibia, Naukluft, 23-24.iii.1994, Arndt & Gröger lgt.“, (JHAC).

NON TYPE MATERIAL

“South West Africa Windhoek 22.34S 17.05E, 22-30.xii.1983, R. Oberprieler [lgt.]”, 3 exx., (SANC).

NAME DERIVATION

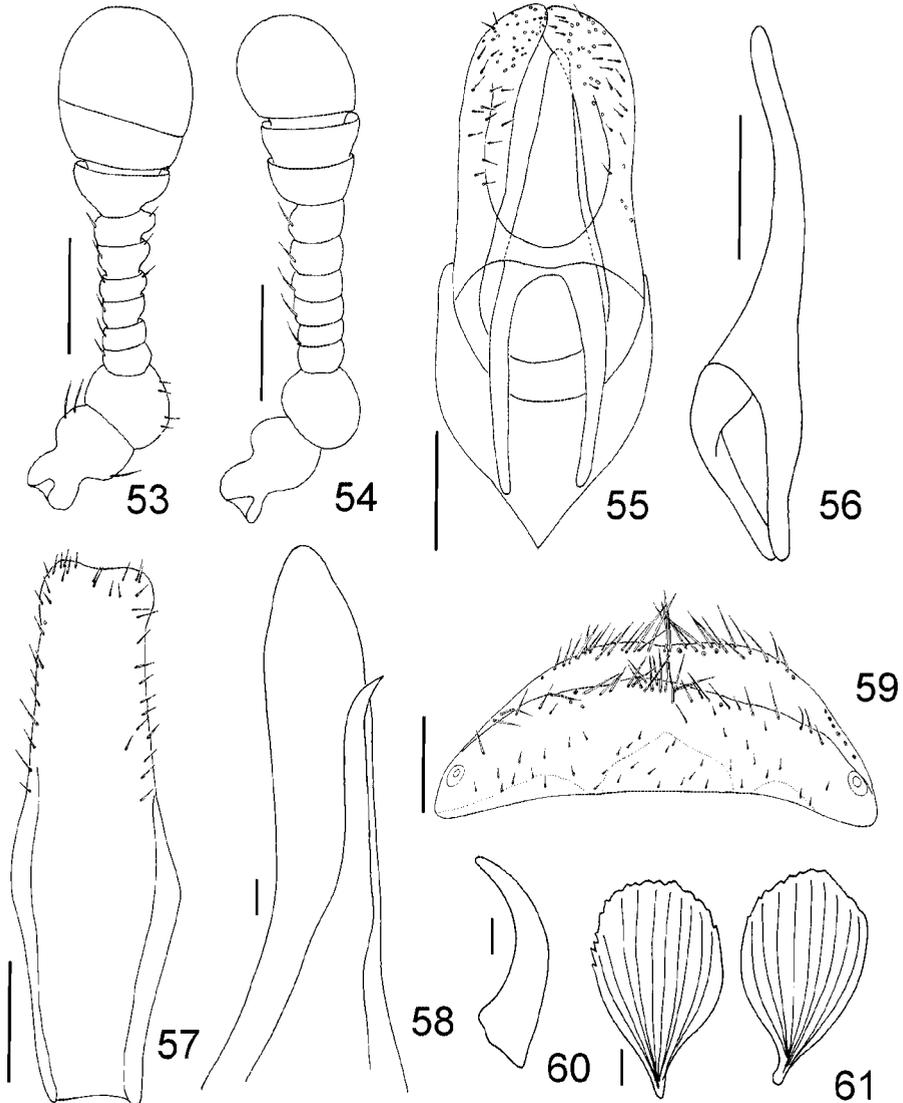
The species name is dedicated to the wife of the first author – Kateřina HÁVOVÁ.



50-52. *Anthrenus (Anthrenus) katerinae* n. sp.: 50 - dorsal habitus; 51 - sternites; 52 - wing

DIAGNOSIS

Anthrenus (Anthrenus s. str.) katerinae n. sp. is similar to *A. (s.str.) namibicus* HÁVA, 2000 and *A. (s.str.) flavipes* LECONTE, 1854, but differs from it with the following characters:



53-61. *Anthrenus (Anthrenus) katerinae* n. sp.: 53 – male antenna; 54 – female antenna; 55 – male genitalia; 56 – aedeagus (lateral view); 57 - ninth abdominal sternite; 58 - galea and lacinia; 59 - sixth abdominal tergite and sternite; 60 – tarsal claw; 61 – scales (scale bar figs 53-57, 59: 0.1 mm; 58, 60-61: 0.01 mm)

- 1(2) elytra covered with orange-yellow scales with small patches of white scales..... *A. flavipes* LECONTE
- 2(1) elytra covered with grey or orange-yellow or whittish-yellow and brown scales
- 3(4) each elytron with broad, transverse and ill-defined fasciae in anterior part with grey scales, other part as in (Fig. 50); parameres reaching at apex *A. katerinae* n. sp.
- 4(3) each elytron with intermixed brown, white or brown-yellow scales; parameres not reaching at apex..... *A. namibicus* HÁVA

DESCRIPTION

Body strongly convex, oval, almost round, covered with scales (BL: 2.15-2.75; BW: 1.55-2.0) (Figs 50, 61). Head with big convex eyes. Frons with median ocellus, covered with grey scales. Antenna of both sexes brown, 11-segmented, antennal club 3-segmented (Figs 53-54), covered densely with brown pubescence. Terminal segment oval. Antenna occupies the whole cavity of antennal fossa. Antennal fossa completely open (AFL: 0.1-0.2) along the lateral margin of pronotum (LMP: 0.4-0.6). Dorsal and ventral surface of integument dark brown, slightly punctated, covered with grey, light-brown and brown scales (Figs 50, 61). Pronotum (PL: 0.6-0.85; PW: 1.35-1.75), covered with light brown and brown scales in the central part, grey scales on the angles, lateral parts and on the anterior lateral margin. Elytra covered with grey, light brown and brown scales, which create pattern.

Abdominal sternites covered with grey and brown scales – especially antero-lateral parts of the sternites II-V (SL: 1.0-1.35; SW: 1.5-1.85) (Fig. 51).

Legs brown, covered with grey scales on dorsal surface. Tarsus with two slightly curved tarsal-claws (Fig. 60). Male genitalia as in figure 55. Parameres covered with numerous setae on the apex. Median lobe wide at the base, slightly bent with the apex curved (Figs 55-56). Abdominal sternite IX with numerous short setae on the top and lateral part (Fig. 57). Abdominal tergite VI light-brown, with two types of setae: longer on the posterior margin and shorter centrally in the anterior part (Fig. 59). Galea and lacinia as in fig. 58. Wing as in Fig. 52.

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