A NEW SPECIES OF **ANDRODELOSCIA** (ISOPODA : PHILOSCIIDAE) FROM THE BRAZILIAN AMAZON

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**RESUMO**

Uma nova espécie de Androdeloscia (Isopoda: Philosciidae) da Amazônia brasileira. Uma nova espécie de Androdeloscia é descrita para a Amazônia brasileira. Ela possui as seguintes apomorfias, uma concavidade seguida de uma elevação marcante na porção central da franja lateral da maxílula, ápice do endópode 1 do macho coberto densamente por espinhos nas margens externas e internas, mas com ápice reto e sem espinhos. A nova espécie compartilha uma sinapomorfia exclusiva com as outras duas espécies conhecidas da Amazônia Brasileira: a presença de quatro dentes bifurcados na maxílula. Caracteres diagnósticos, sinonímia, distribuição e referências são fornecidos para as 22 espécies conhecidas de *Androdeloscia*.

**Palavras-chave:** Crustacea, isópode terrestre, Prosekiini, "Philosciidae", nova espécie.

**ABSTRACT**

*A new species of Androdeloscia (Isopoda: Philosciidae) from the Brazilian Amazon.* A new species of Androdeloscia is described from the Brazilian Amazon. It has two autapomorphies, a concavity followed by a conspicuous elevation on the central portion of the lateral fringe of the maxillule and the apex of endopod 1 of male densely spinulose on internal and external margins, with apex straight and unarmed. The new species shares a unique synapomorphy with the two previously known species from Brazilian Amazon, the presence of four cleft teeth on the maxillule. Diagnostic characters, synonyms, distribution, and references are provided for the 22 known species of *Androdeloscia*.

**Key words:** Crustacea, terrestrial isopod, Prosekiini, "Philosciidae", new species.

**INTRODUCTION**

There were 3637 species of Oniscidea catalogued up to the year 2004 (SCHMIDT, 2008), about 80% of which belong to the Crinocheta, the most numerous of the five subgroups of oniscids (ERHARD, 1996),
containing the most successful adaptations to the driest terrestrial habitats and representing the only group to have a phylogenetic hypothesis (SCHMIDT, 2008). The problematical "Philosciidae" Kinahan, 1957 contain about 450 species of the "runner-type" (slender body, smooth dorsal surface, long legs and long second antennae, a three-jointed flagellum on the second antenna, and a pleon narrower than the pereon), considered to represent a plesiomorphic facies (SCHMIDT and LEISTIKOW, 2005). However, it has been possible to establish a monophyletic subclade Prosekiini Leistikow, 2001, which includes Andrononisicus Verhoeff, 1941, Xiphoniscus Vandel, 1968, Erophiloscia Vandel, 1972, Androdolosca Leistikow, 1999, Prosekia Leistikow, 2000, and Metaprosekiina Leistikow, 2000. Synapomorphies for Prosekiini are: "antennule with the medial aesthetacs gathered in a tuft, directed more or less medio-distally, not attached to article 3; transverse fold between aesthetascs tuft and distal pair of aesthetascs, and male pleopod 1 with hyaline lamellae near apex" (see LEISTIKOW, 2001; SCHMIDT, 2008). On the basis of the apomorphic character, we suggest that Alboscia Schultz, 1995 also belongs to this clade.

The genus Androdeloscia was established by LEISTIKOW (1999) for those members of the genus Prosekia Vandel, 1968 having the following characteristics: small size; linea frontalis reduced; the shape of the male pleopod V exopodite apically drawn out to some extent; and a furrow parallel to the medial margin of the caudal surface covered with pectinate scales in the male pleopod V exopodite (this last trait was recognized as an autapomorphy for Androdolosca) (LEISTIKOW, 1999, 2001; SCHMIDT and LEISTIKOW, 2005). Erophiloscia from South America east of Ecuador and Peru, is indicated as the sister-group of Androdeloscia (LEISTIKOW, 2001).


The following list of the 21 known species of Androdeloscia includes synonyms, distribution and references.

A. digitata Leistikow, 1999 - Brazil (Amazon) - LEISTIKOW, 1999; SCHMIDT and LEISTIKOW, 2005.
Syn: A. plicatipus Leistikow, 1999
Syn. = Prosekia hamigera (Vandel, 1952)


In the Appendix 1 we give the main diagnostic characters for the 22 known species of the genus. The genus *Androdeloscia* has an ample distribution in the Neotropics— Mexico, Guatemala, Venezuela, Peru, and Brazil. There are a total of 3 species known from Brazilian Amazonia: A. *digitata*, A. *tarumae*, and A. *silvatica* (LEMOS DE CASTRO, 1984; SCHMIDT and LEISTIKOW, 2005). Up to the present, only one species of the genus, A. *silvatica*, was registered for another region in Brazil — State of Ceará, northeast Brazil (SOUZA and GRANGEIRO, 2006).

The new species described herein belongs to a rich and diversified collection of Oniscidea collected in the Brazilian Amazon by the late Dr. Joachim Adis (Max-Planck Institut), presently being studied at the State University of Ceará and the Federal University of Paraíba by the authors of this paper.

**SYSTEMATICS**

Order ISOPODA
Superfamily ONISCIDEA
Family PHILOSCIDAE
Tribe PROSEKIINI Leistikow, 2001

Type species: *Androdeloscia hamigera* Vandel, 1952

*Androdeloscia leilae* n. sp.
(Figures 1 to 5)

**Holotype**: INPA 1750, male, part preserved in alcohol and part mounted on slide.

**Type locality**: BRAZIL, Lago Januari: mixed water, 03º02’S, 60º17’W, Leg. J.

Paratypes:
INPA 1752, 28 males, 54 females, BRAZIL, Lago Januari: mixed water, 03°02’S, 60°17’W, leg. J. Adis et al. cols., 31/V/1988;
MZUSP 20006, 3 males, 1 females, BRAZIL, Lago Januari: mixed water, 03°02’S, 60°17’W, leg. J. Adis et al. cols., 12/IV/1988;
MZUSP 20007, 4 males, 4 females, BRAZIL, Capoeira do rio Tarumá Mirim: secondary forest, 03°02’S, 60°17’W, leg. J. Adis et al. cols., 29/IV/1988;
INPA 1753, 3 males, 6 females, BRAZIL, Lago Januari: mixed water, 03°02’S, 60°17’W, leg. J. Adis et al. cols., 15/VI/1988;

Diagnosis.
Body pigmented, dark-brown, small light spots on cephalothorax. Eyes with nine well pigmented ommatidia; telson with 5 light spots: two lateral pairs and one drop-shaped stain centro-distally (Figure 1A). Noduli laterales conspicuous, nodulus of pereonite IV inserted more dorsally. Distal article of antennule with 11 subapical and 2 apical aesthetascs (Figure 1B). Margin of maxillule with a concavity followed by a conspicuous elevation on the central portion of the lateral fringe. Male pereopod 7 with a discrete lobe on merus. Male pleopod 1 with apex of endopodite slightly bent laterally in its proximal part, which has a row of small spines in the internal and external margins; distal part of apex unarmed and straight.

Description of the Holotype:
Dimensions (Aprox.): Male: total length 4.0 mm maximum width 1.0 mm. Female paratype: total length 3.0mm, maximum width 1.0mm. Color: Brown, with small light spots on head and pleon, and other light spots of variable size on lateral portions of pereonites I-VII. Telson with a distinct color pattern – there are five light spots: Two lateral pairs and one drop-shaped stain on disto-central region of telson (Figure 1A). Tegument: Smooth, covered by small, simple setae; noduli laterales forming single row on pereonites I-VII, conspicuous and flagelliform. The relative position of the noduli laterales is represented in the figure 5. Head: Slightly covered by the first pereonite; frontal and lateral lobes slightly developed; frontal line tenuous, demarcated by curvature of vertex; supra-antennal line well marked; composite eye with nine ommatidea. Pleon: Narrow in relation to pereon. Telson: Triangular, with extremity rounded and sides straight (Figure 1A).
Antennule: Distal article shortest, with two apical and 9 subapical aesthetascs; proximal and median articles subequal. A gap between the apical and subapical groups of aesthetascs is present (autapomorphy of Prosekiini) (Figure 1B).

Antenna: Flagellum triarticulate, distal article longest, proximal and middle articles subequal; apical cone covered by cuticular sheath, long and slender, and as long as distal article, consisting apically of a tuft of very small free sensillae (Figure 1C-D).

Mandibles: Molar penicil with seven branches in the right mandible and with six branches in the left (Figure 2A-B).

Maxillule: Medial maxillular endite with two penicils, with a rounded apex, and without an apical tip. Lateral maxillular endite with 4 + 4 teeth, inner set cleft; central portion of lateral fringe with a concavity followed by a small but conspicuous elevation (autapomorphy) (Figure 2D).

Maxilla: Maxilla with inner lobe smaller than outer lobe. Inner lobe with a row of about 10 narrow and elongate structures having on apex in the shape of a cusp (Figure 2C).

Maxilliped: Basipodite much broader than apical region, with latero-distal edge rounded, and bearing hair-like setae and some tricorn-like setae caudally. Endite rectangular without knob-like penicil and with one conspicuous seta; a very small spine-like seta in the latero-distal corner; and a row of small hair-like setae apically. Palp with prominent proximal and medial setal tufts. Proximal article with 1 strong seta (Figure 2E).

Pereopods: With short and long, simple, setae; dactylar seta long; carpus of pereopods, except III, with tufts of lateral setae. Pereopod I stout; carpus with carpal seta conspicuous and sensory setae with one apical and two lateral fringes.

Sexual characters of male pereopods: Carpus of pereopod I with two ornamental setae and a brush of fine setae (Figure 3C-D) which cover a larger surface than in female (Figure 4C); propodus and merus of pereopod I with many spines. Merus of pereopod VII with lobe on outer distal region (Figure 3F), absent in female (Figure 4D).

Pleopods: Absence of respiratory surfaces. Endopodite of pleopod I with subapical transverse groove and with apex bent laterally, forming a hook. Distal part of endopodite without lateral protrusions. Proximal part of
endopodite produced into a more or less long projection alongside the distal part. Exopodite distally rounded. Pleopod II with endopod longer than large; exopod with triangular shape and having two apical setae on internal border. Exopodite V on mesial margin with hairy groove and with two long setae on external border and many setae surrounding all of the external border; groove present for the fitting of the endopod II, an autapomorphy of *Androdeloscia* (Figure 3).

Sexual characters of male pleopods: Endopod of pleopod I hook-shaped or with transverse groove, having about six spiniform apical projections on inner and outer surfaces; inner surface, from apex to median part of endopod, with a row of short setae. Exopod of pleopod I oval (Figure 3A), in female the exopod is approximately quadrangular (Figure 4A). Endopod of pleopod II longer than large; exopod of pleopod II triangular (Figure 3B). Exopod of pleopod V of male with groove for the fitting of pleopod II, absent in female (Figure 4B) and with apex elongate (Figure 3E). Males are smaller than females.

**Etymology.**
The new species was named after Leila Aparecida Souza, who has contributed so much to the knowledge of Brazilian Oniscidea.

**Remarks.** *Androdeloscia leilae* sp. n. may be distinguished from all other species of the genus mainly by the shape of endopod I of male, the apex of which is densely spinulose on internal and external margins (Figure 3A) and by the shape of the maxillule, provided with a concavity followed by a conspicuous elevation in the central portion of the lateral fringe (Figure 2D).

*A. leilae* sp. n. shares with the two other Brazilian Amazon species, *A. digitata* and *A. tarumae*, the unique presence of four cleft teeth on the distal end of the endite of the maxillule. With the exception of *A. hamigera*, in which this number has apparently been reduced independently to 3 cleft teeth, all the remaining species of the genus have the plesiomorphic count of 5-6 cleft teeth in this position. In our opinion, this new clade is positioned between two successive outgroups and most basal lineages of *Androdeloscia*, *A. muscorum* and *A. boliviana*, and the clade of all remaining *Androdeloscia*. *A. boliviana* apparently represents the most basal species of *Androdeloscia*,
for having 14-15 ommatidia, while the remaining species have 11 or less. The succession of more derived clades which follow Brazilian Amazon clade begin with the Peruvian clades 8 and character 23 of LEISTIKOW (2001) (A. ferrarai, A. longiunguis, A. merolobata, and A. taitii) and at least part of this author’s clade 6 (based on his character 9: A. conipus, A. poeppigi, A. festae, and A. malleus). These are then plausibly followed by the Venezuelan and Central American species. The latter clade is apparently adapted to less humid habitats and share with clade 6 of LESTIKOW (2001) the smaller size of males, which are 4mm or less in length.

We have been unable to interpret the complex evolution of the projections on the merus of pereopod VII: Although the three projections found in A. silvatica, A. pseudosilvatica, and A. formosa seem to be unique, their derivation from a smaller number of meral projections occurring in A. tarumae, tubercles occurring in A. muscorum, and lobes occurring in A. digitata, A. longiunguis, and A. merolobata, has not become clear in a phylogenetic context. We hope the description of further Brazilian species from the Amazon will shed further light on this interesting character.
ACKNOWLEDGMENTS

To Dr. Joachim Adis (in memoriam) for steadily supplying material from the Amazon. M.L.C. received a productivity grant from CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnológico). D.C.G. received a masters scholarship from CAPES (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior). Douglas Zeppelini kindly reviewed the manuscript.

REFERENCES


MULAIK, S. 1960 - Contribuição al conocimiento de los isópodos terrestres
de Mexico (Isopoda, Oniscoidea). Revista de la Sociedad Mexicana de Historia Natural 21: 79–292.


**APPENDIX 1**

Main diagnostic characters for the 22 known species of *Androdeloscia*

<table>
<thead>
<tr>
<th>Species</th>
<th>Nr. of ommatidia</th>
<th>Antennule</th>
<th>Maxillulae</th>
<th>Mandibles</th>
<th>Merus of pereopod VII</th>
<th>Endopodite of pleopod I</th>
<th>Exopodite of pleopod V</th>
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<tbody>
<tr>
<td><em>A. leilae</em> sp. nov.</td>
<td>8</td>
<td>With 2 apical and 9 subapical aesthetascs</td>
<td>4+4 teeth, four of inner set cleft</td>
<td>Molar penicil with 7 branches in right mandible and 6 in left, pars intermedia with 1 penicil on right mandible</td>
<td>With 1 short distal lobe</td>
<td>Distal part with lateral protrusions, proximal part not produced into a more or less globose projection on the outer side of the distal part, apex straight, with tubercles and bent laterally, without subapical transverse groove</td>
<td>Triangular</td>
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<tr>
<td><em>A. boliviana</em></td>
<td>14-15</td>
<td>With 2 apical and 8 subapical aesthetascs</td>
<td>4+6 teeth, four of inner set cleft, and 1 very small seta in subapical position on caudal face</td>
<td>Molar penicil of both mandibles with about 4 branches, pars intermedia with 2 penicils on left and 1 on right mandible</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex smooth and twisted or coiled, without subapical transverse groove</td>
<td>Without lobes</td>
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<td><em>A. conipus</em></td>
<td>6</td>
<td>With 2 apical and 10 subapical aesthetascs</td>
<td>4+5 teeth, four of inner set cleft</td>
<td>Molar penicil of both mandibles with about 4 branches, pars intermedia with 2 penicils on left and 1 on right mandible</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex smooth, straight or curved or bent laterally, without subapical transverse groove</td>
<td>With mesal margin distally produced into a long, distinct tip</td>
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<tr>
<td><em>A. dalensi</em></td>
<td>8</td>
<td>With 2 apical and 10 subapical aesthetascs</td>
<td>4+5 teeth, five of inner set cleft, and subapical tooth caudally</td>
<td>Molar penicil of both mandibles with 5 branches, pars intermedia with 2 penicils left and 1 on right mandible</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part not produced into a more or less long projection beside the distal part, apex straight, curved or bent laterally and with tubercles, without subapical transverse groove</td>
<td>Triangular</td>
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<td>Species</td>
<td>Nr. of ommatidia</td>
<td>Antennule Maxillae</td>
<td>Mandibles</td>
<td>Meatus of pleopod</td>
<td>Endopodite of pleopod</td>
<td>Exopodite of pleopod</td>
<td>Exopodite of pleopod V</td>
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<td>A. digitata</td>
<td>8</td>
<td>With 2 apical and 10 subapical aesthetas cs</td>
<td>4+4 teeth, four of inner set cleft, and subapical tooth caudally</td>
<td>Molar penicil of both mandibles with about 4 branches, pars intermedia with 2 penicils left and 1 on right mandible</td>
<td>With 1 very long distal lobe</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex smooth, and twisted or coiled, without subapical transverse groove</td>
<td>With mesal margin distally produced into a long, distinct tip</td>
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<tr>
<td>A. escalonai</td>
<td>8</td>
<td>With 2 apical and 4 subapical aesthetas cs</td>
<td>4+5 teeth, five of inner set cleft, and 1 much smaller simple tooth-seta on distal margin</td>
<td>Molar penicil of both mandibles with 4 branches, pars intermedia with 1 penicil on both mandibles</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part not produced into a more or less long projection beside the distal part, apex smooth, straight or curved or bent laterally, without subapical transverse groove</td>
<td>Triangular</td>
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<td>A. feistai = A. plicatipus</td>
<td>7</td>
<td>With 2 apical and 10 subapical aesthetas cs</td>
<td>4+6 teeth, five of inner set cleft, and 1 vestigial tooth</td>
<td>Molar penicil with about 4 branches, pars intermedia with 2 penicils left and 1 on right mandible</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part not produced into a more or less long projection beside the distal part, apex twisted or coiled with tubercles, without subapical transverse groove</td>
<td>Triangular</td>
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<tr>
<td>A. ferrai</td>
<td>10</td>
<td>With 2 apical and about 9 subapical aesthetas cs</td>
<td>4+5 teeth, four of inner set cleft</td>
<td>Molar penicil of both mandibles with 4 branches, pars intermedia with 2 penicils left and 1 on right mandible</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part not produced into a more or less long projection beside the distal part, apex straight or curved or bent laterally, with subapical transverse groove</td>
<td>Triangular</td>
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<tr>
<td>A. formosa</td>
<td>8</td>
<td>Without details or description</td>
<td>4+3 teeth, three of inner set cleft</td>
<td>Molar penicil of both mandibles with 4 branches</td>
<td>With 3 lobes: 2 distal and 1 proximal</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex smooth, straight or curved or bent laterally, without subapical transverse groove</td>
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<td>Subapical</td>
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<td>Molar Penicil</td>
<td>Distal Lobe</td>
<td>Proximal Projection</td>
<td>Apex</td>
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<td>A. hamigera</td>
<td>8</td>
<td>6</td>
<td>3+5</td>
<td>Molar penicil of both mandibles with about 7 branches, pars intermedia with 2 penicils left and 1 on right mandible</td>
<td>Distal part without lateral protrusions, proximal part not produced into a more or less long projection beside the distal part, apex smooth, straight or curved or bent laterally, without subapical transverse groove</td>
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<td>A. longiunguis</td>
<td>8</td>
<td>6</td>
<td>4+6</td>
<td>Molar penicil of both mandibles with 3 branches, pars intermedia with 2 penicils and coniform setae on left and 1 on right mandible</td>
<td>Distal part without lateral protrusions, proximal part not produced into a more or less long projection beside the distal part, apex twisted or coiled with tubercles, with subapical transverse groove</td>
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<td>A. malleus</td>
<td>7</td>
<td>9</td>
<td>4+5</td>
<td>Molar penicil of both mandibles with 4 branches, pars intermedia with 2 penicils left and 1 on right mandible</td>
<td>Distal part with lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex smooth, twisted or coiled, without subapical transverse groove</td>
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<td>A. merolobata</td>
<td>7</td>
<td>9</td>
<td>4+6</td>
<td>Molar penicil of both mandibles with 4 branches, pars intermedia with 2 penicils left, 1 on right mandible</td>
<td>Distal part without lateral protrusions, proximal part not produced into a more or less long projection beside the distal part, apex twisted or coiled with tubercles, with subapical transverse groove</td>
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APPENDIX 1 continued

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<th>Endopodite of pleopod I</th>
<th>Exopodite of pleopod V</th>
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<td>A. monstruosa</td>
<td>7</td>
<td>With 2 apical and about 4 subapical aesthetascs</td>
<td>4-5 teeth, four of inner set cleft, and 1 much smaller simple tooth-seta on distal margin</td>
<td>Molar penicil with a tuft of hairy setae, pars intermedia with 2 pencils left and 1 on right mandible</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex straight or curved or bent laterally with tubercles, without subapical transverse groove</td>
<td>Triangular</td>
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<td>A. muscorum</td>
<td>11</td>
<td>With 2 apical and 6 subapical aesthetascs</td>
<td>4-6 teeth, four of inner set cleft, 1 very small seta in subapical position on caudal face</td>
<td>Molar penicil with a tuft of hairy setae, pars intermedia with 2 pencils left and 1 on right mandible</td>
<td>Without lobes, with ventro-caudal tubercle</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex twisted or coiled with tubercles, without subapical transverse groove</td>
<td>Triangular</td>
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<td>A. opercularis</td>
<td>7</td>
<td>With 2 apical and 10 subapical aesthetascs</td>
<td>4-5 teeth, five of inner set cleft, and 1 short subapical tooth caudally</td>
<td>Molar penicil of both mandibles with 4 branches, pars intermedia with 2 pencils left and 1 on right mandible</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex straight or curved or bent laterally with tubercles, without subapical transverse groove</td>
<td>Triangular</td>
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<td>A. peregrini</td>
<td>7</td>
<td>With 2 apical and 10 subapical aesthetascs</td>
<td>4-5 teeth, four of inner set cleft</td>
<td>Molar penicil of both mandibles with 4 branches, pars intermedia with 2 slender pencils left and right with few setae and 1 pencil</td>
<td>Without lobes</td>
<td>Distal part with lateral protrusions, proximal part not produced into a more or less long projection beside the distal part, apex smooth, straight or curved or bent laterally without subapical transverse groove</td>
<td>With mesal margin distally produced into a long, distinct tip</td>
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<td>Species</td>
<td>Appearances</td>
<td>Apical Aesthetasc</td>
<td>Subapical Aesthetasc</td>
<td>Teeth</td>
<td>Molar Penicil Details</td>
<td>Distal Part Details</td>
<td>Mandible Details</td>
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<td>A. pseudosilvatica</td>
<td>About 7</td>
<td>2</td>
<td>2</td>
<td>4+5</td>
<td>With 3 lobes on merus: 2 distal and 1 proximal</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex with smooth, straight or curved or bent laterally, without subapical transverse groove</td>
<td>Triangular</td>
</tr>
<tr>
<td>A. silvatica</td>
<td>About 7</td>
<td>2</td>
<td>4</td>
<td>4+5</td>
<td>With 3 lobes on merus: 2 distal and 1 proximal</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex straight or curved or bent laterally with tubercles, without subapical transverse groove</td>
<td>Triangular</td>
</tr>
<tr>
<td>A. taitii</td>
<td>About 7</td>
<td>2</td>
<td>10</td>
<td>4+6</td>
<td>Without lobes</td>
<td>Distal part without lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex twisted or coiled with tubercles, with subapical transverse groove</td>
<td>Triangular</td>
</tr>
<tr>
<td>A. tarumae</td>
<td>About 11</td>
<td>2</td>
<td>10</td>
<td>4+4</td>
<td>Without lobes, with incision on distal border</td>
<td>Without details or description</td>
<td>Without details or description</td>
</tr>
<tr>
<td>A. valdezii</td>
<td>About 8</td>
<td>2</td>
<td>9</td>
<td>4+6</td>
<td>Without lobes on merus</td>
<td>Distal part with lateral protrusions, proximal part produced into a more or less long projection beside the distal part, apex straight or curved or bent laterally with tubercles, without subapical transverse groove</td>
<td>Triangular</td>
</tr>
</tbody>
</table>