Tortricidae collected in Ecuador in the years 1996–1999: Euliini (Lepidoptera)

Józef Razowski and Volker Pelz

Abstract: This paper represents the third contribution to our knowledge of the Tortricidae of Ecuador. In this report we provide data on 23 genera and 35 species of Euliini (Tortricinae). Five genera, 26 species and 1 subspecies are described as new and data on the distribution of several other species are provided. Holotypes of new species and subspecies are in the collection of Volker Pelz, Ruppichteroth, and eventually will be deposited in the Senckenberg-Museum, Frankfurt am Main. New taxa are as follows: Dogolion gen. n., Lydonotopa gen. n., Xoser gen. n., Bolbia gen. n., Moronata gen. n., Gravicornutia cuspus sp. n. (HT: ♂), Gravicornutia inapulana sp. n. (HT: ♂), Dogolion oligodon sp. n. (HT: ♂), Prothorhybia unisignata sp. n. (HT: ♂), Psedaleulia damotosa sp. n. (HT: ♂), Lydonotopa polydonta sp. n. (HT: ♂), Lobogenesis riesteri sp. n. (HT: ♂), Netechma ochroana sp. n. (HT: ♀), Punctapinella paratha sp. n. (HT: ♀), Srophotina apparata sp. n. (HT: ♀), Gauruncus laudatus sp. n. (HT: ♀), Gauruncus simplicissimus sp. n. (HT: ♂), Xoser exors sp. n. (HT: ♂), Transillaspis monoseta sp. n. (HT: ♂), Transillaspis multisetae sp. n. (HT: ♂), Transillaspis luislarsi sp. n. (HT: ♂), Anopinella tenebricosa sp. n. (HT: ♀), Anopinella consecta sp. n. (HT: ♂), Anopinella alshiana sp. n. (HT: ♂), Rhymologia yukipana sp. n. (HT: ♂), Chamelania auricoma sp. n. (HT: ♂), Moronata eriocesti sp. n. (HT: ♂), Orthocomatos parattosona sp. n. (HT: ♀), Orthocomatos longuncus sp. n. (HT: ♂), Orthocomatos euchaldera domonaoana ssp. n. (HT: ♀).

Key words: Lepidoptera, Tortricidae, Tortricinae, Euliini, Ecuador, new taxa.

Tortricidae gesammelt in Ecuador in den Jahren 1996–1999: Euliini (Lepidoptera)


Tortricidae coleccionadas en Ecuador en los años 1996–1999: Euliini (Lepidoptera)

Resumen: En este artículo, la tercera parte de “Tortricidae de Ecuador”, se presenta datos de 23 géneros y 35 especies de Euliini. Se describen cinco nuevos géneros, 26 nuevas especies y una nueva subspecie. Los holotipos de las especies nuevas están en la colección Volker Pelz, Ruppichteroth, determinados últimamente para el Senckenberg-Museum, Frankfurt am Main. La lista de las taxas nuevas se encuentra en el resumen en inglés.

Introduction
This is our third paper dealing with the Tortricidae of Ecuador. An introduction and background to the series of publications can be found in Razowski & Pelz (2001), which includes a list of collecting sites, photographs of habitats and maps of the general area. The papers are based on material collected by the second author mainly in the vicinity of Macas from 1996 to 1999. Where available, other recently collected material also is included.

The first paper (Razowski & Pelz 2001) treated the tribes Tortricini and Cochylini; the second paper (Razowski & Pelz 2002) treated one species of Endothenia (Olethreutini); and this paper deals with the tribe Euliini.

Holotypes of the new taxa are in the collection of Volker Pelz, Ruppichteroth, Germany, and eventually will be deposited in the Senckenberg-Museum, Frankfurt am Main.

Note. Numbers included in descriptions of the labial palpus refer to the proportion of their total length to the horizontal diameter of the compound eye.

Abbreviations:
> road from > to
CREA Centro de Reconversión Económica del Austro (Azua, Cañar y Morona-Santiago, Ecuador)
CVPR Collection Volker Pelz, Ruppichteroth, Germany
Gral. General
GS Genitalia slide
HT Holotype
ISEZ Institute of Systematics and Evolution of Animals PAS, Kraków, Poland
PN National Park
Prov. Province
Pto Puerto
PUCE Museo de Zoología, Centro de Biodiversidad y Ambiente, Pontificia Universidad Católica del Ecuador, Quito, Ecuador
SMFL Lepidoptera collection of Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany
sta station

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The photographs were taken by the second author, the black and white drawings of the genitalia by the first author.

Systematics

Eulini

Gravitcornutia Razowski & Becker, 2001

Our knowledge of the geographic distribution of *Gravitcornutia* is rather poor. The 20 previously described species are known only from six states in Brazil, ranging from Goiás and Rio de Janeiro to Paraná and Santa Catarina (Razowski & Becker 2001). Rio de Janeiro supports the greatest number of species with six. The descriptions below of *G. cuspis* and *G. inapulana* from Ecuador bring the total number of species to 22, illustrating a considerably wider distribution in South America and demonstrating our superficial knowledge of the genus despite the relative large number of described species.

Gravitcornutia cuspis sp. n.

(Figs. 1, 2, 60)


**Etymology:** The species name refers to its long cornutus (Latin: *cuspis* = pike). The name is not an adjective.

Diagnosis

Similar to *G. umbrosa* Razowski & Becker, 2001 from Santa Catarina, Brazil, but easily distinguished superficially. The male genitalia of *G. cuspis* have a much shorter uncus, smaller socii and a shallow median concavity of the transtilla. Other parts of genitalia (e.g. sacculus, aedeagus, cornutus, terminal part of tegumen) are also somewhat distinct from those of *G. umbrosa*.

Description

♂ (Fig. 60): Wing span 9 mm. Head cream; labial palpus ca. 1.5, with second joint brown medially; thorax concolourous with head. Forewing slender, only slightly expanded terminally; costa weakly convex, termen oblique. Ground colour cream with slight ochreous admixture terminally. Markings reduced: Some brownish spots at costa and in terminal area of wing, one spot near middle of median cell. Cilia concolourous with wing. Hindwing pale brownish cream with brownish yellow, vertex brownier; labial palpus 1.5, cream; thorax pale cinnamon brownish. Forewing slender slightly expanded terminally, termen rather oblique, almost straight. Ground colour pale ochreous ferruginous, paler towards wing base. Markings brownish grey with a few black spots along edges; concolourous spots along costa. Dorso-basal blotch rudimentary, slender, followed by rather subtriangular blotch at mid-dorsum; median fascia brown to middle, slender in dorsal part, terminating at tornus; subapical blotch accompanied by a rounded subterminal blotch and smaller apical spot. Cilia concolourous with terminal part of wing. Hindwing pale brownish grey with darker venation; cilia slightly paler than wing, gryeer.

♂ genitalia (Figs. 3, 4): Uncus fairly long, rounded apically; socii ovate; valva rounded terminally; sacculus slender followed by small caudal thorn; median part of transtilla broad, subtriangular, with pair of wing-shaped processes; aedeagus stout; cornutus very large, slightly bent.

♀ genitalia (Fig. 46): Distal lobes of sterigma rather short, with lateral projections; anteostial part large, concave along middle; corpus bursae with large postmedian projection strengthened by slender sclerites; numerous spines in corpus bursae.

Gravitcornutia inapulana sp. n.

(Figs. 3, 4, 61, 62)


**Paratype** (1 ♀): same data as holotype, GS 840-V.P. (CVPR).

**Etymology:** The species name refers to Inapula, the name of the type locality. The name is defined as a noun in apposition.

Diagnosis

Closely related to *G. goianica* Razowski & Becker, 2001 and *G. nigrobasana* Razowski & Becker, 2001 but easily distinguished by the slightly expanding terminal part of uncus, the shorter distal part of the median process of the transtilla and the very large cornutus.

Description

♂ and ♀ (Fig. 61, 62): Wing span ♂ 9 mm, ♀ 10 mm. Head pale brownish yellow, vertex brownier; labial palpus 1.5, cream; thorax pale cinnamon brownish. Forewing slender slightly expanded terminally, termen rather oblique, almost straight. Ground colour pale ochreous ferruginous, paler towards wing base. Markings brownish grey with a few black spots along edges; concolourous spots along costa. Dorso-basal blotch rudimentary, slender, followed by rather subtriangular blotch at mid-dorsum; median fascia brown to middle, slender in dorsal part, terminating at tornus; subapical blotch accompanied by a rounded subterminal blotch and smaller apical spot. Cilia concolourous with terminal part of wing. Hindwing pale brownish grey with darker venation; cilia slightly paler than wing, gryeer.

♂ genitalia (Figs. 3, 4): Uncus slender, slightly broadened subterminally; socii broad distally; gnathos slender. Valva long, sacculus slender with sharp terminal process; transtilla large, broad, with lateral sharp prominences terminally; juxta simple, small; aedeagus slender, almost as long as costa of valva; cornutus slender, long.

Dogolion gen. n.

Type-species: *Dogolion oligodon* sp. n.

**Etymology:** The genus name is an anagram of the name of its type-species. Its gender is masculine.

Diagnosis

This genus is related to a few euline genera characterized by a very slender uncus, e.g. *Proathorybia* Razowski, 1999. It differs from these in the large ventral parts of the bases of sacculi, the well-sclerotized transtilla and the presence of dorso-submedian parts of the juxta.

Description

Venation: Forewing with distance between base of R1–R2 and R2–R3 nearly equal, R5 to termen below apex; CuA2 from discal cell about 2/3 distance to R1–R2. Hindwing with Rs–M1 stalked to middle, M3–CuA1 very short stalked.
♂ genitalia: Uncus slender, not hairy; socii submembranous, drooping, hairy and scaled; gnathos arms and terminal plate slender; vinculum complete; valva broad basally with terminal portion submembranous; costa long, attenuating before end of valva; sacculus simple, without terminal process, extending ventro-basally; small triangular process beneath mid-valva; transtilla well-sclerotized, concave medially, spiny dorso-laterally; juxta large with two dorsal processes; aedeagus simple, fairly broad, slightly expanding terminally; coecum penis large; caulis very small; cornuti a series of small spines.

♀ genitalia: Eighth tergite large; sterigma broad with well developed lateral parts and semiovate median portion; sterigma and almost entire bursae copulatrix densely spined; colliculum very large, sack-shaped, rounded proximally; ductus bursae short.

**Distribution:** Known only from Ecuador.

**Dogolion oligodon** *sp. n.*

(Figs. 5, 6, 47, 63, 64)


**Paratypes** (2 specimens): 1 ♂, 1 ♀ (GS 1390-V.P), same data as holotype (CVPR).

**Etymology:** The species name refers to the presence of a subcostal process of the valva (Greek: oligos = small, odontos = tooth). The name is not an adjective.

**Diagnosis**

Dogolion oligodon is the only species in the genus, and it is distinguished by the characters detailed above in the description of the genus. Externally it resembles *Transtillaspis bascanion* Razowski, 1998, *T. irrorata* sp. n. and *T. monoseta* sp. n.

**Description**

♂ and ♀ (Fig. 63, 64): Wing span 14 mm. Head cream; labial palpus ca. 1.8, cream, terminal joint and outer side brownish; thorax brownish cream. Forewing somewhat expanded terminally; costa slightly convex; termen oblique, hardly convex. Ground colour brownish cream suffused and sprinkled brownish and rust brown; costal process of the valva (Greek: oligos = small, odontos = tooth). The name is considered as a noun in apposition.

♀ genitalia (Fig. 47): As described for the genus.

♀ genitalia (Fig. 66): With yellowish ground colour, brownish striation and dark brown markings; the subterminal area strongly suffused brownish extending by means of weak suffusion to beyond mid-termen.

♂ genitalia (Figs. 7, 8): As described for the genus.

**Psedaleulia dumetosa** *sp. n.*

(Figs. 9, 10, 66, 67)


**Paratypes** (7 ♂♂, 1 ♀): 4 ♂♂ same data as holotype (GS 1076-V.P., 1394-V.P., 1405-V.P., 1406-V.P.); 1 ♀ (GS 872-V.P.), 1 ♂ (GS 685-V.P.) Macas, Proaño > Inapula, CREA-Domono, 1100 m, 20.–23. iv. 1998; 1 ♂ (GS 1395-V.P.) same locality, 2. x. 2000 (all CVPR). 1 ♂ Macas, Proaño > Inapula, CREA-Domono, 1100 m, 20.–23. iv. 1998 (ISEZ).

**Etymology:** The name refers to the spines of valva (Latin: dume = thicket, with -os [as suffix] = rich in) and is considered a noun in apposition.

**Diagnosis**

The new species is only the second known representative of Psedaleulia. From the Peruvian *P. qualitata* Razowski, 1997 it differs in having a slender spiny subcostal lobe of the valva and a strong postbasal lobe above the sacculus armed with long setae.

**Description**

♂ and ♀ (Fig. 66, 67): Wing span 10–12 mm. Head light
yellowish cream, labial palpus 2, slightly mixed brownish to middle; thorax cream brownish, basal half of tegula browner. Forewing slender, not expanding terminally; costa almost straight, termen oblique, mostly straight. Ground colour yellowish cream with weak brownish stipulation mainly along dorsum; some blackish stipulations and dots along costa and in the apical third of wing. Markings: Trace of median fascia in form of brownish grey costal spot and blackish spot in the middle of the wing; subapical blotch with two brown stipulations; one spot subterminally and a row of dots along tergum. Cilia concolourous with wing. Hindwing pale cream brownish with indistinct darker stipulation; cilia lighter.

♀ genitalia (Figs. 9, 10): Very similar to those in *P. qua- litata* differing mainly in the disc of valva, which in *P. dometosa* has a large proximal lobe armed with long thick setae followed by an elongate fold with less numerous shorter setae. Aedeagus broad, with weakly sclerotized spiny lobes and slender coecum penis.

♂ genitalia (Fig. 48): Ovipositor short; papilla analis broad; apophyses short, slender. Sterigma short, broad, densely spined, with large proximal part and anteostoal portion concave medially; colliculum fused with sterigma, weakly sclerotized; bursa copulatrix small; ductus bursae short; ductus seminalis postmedian, dorsal; accessory bursae extending from terminal part of ductus bursae.

*Lydontopa gen. n.*

*Type-species: Lydontopa polydonta* sp. n.

*Etymology:* The name is an anagram of the name of the type-species. Its gender is feminine.

**Diagnosis**

This genus is probably related to *Proathorybia* Razowski, 1999; the two have similar shapes of tegumen, uncus, gnathos and valva. Its putative autapomorphy is the configuration of the transplant which is armed with a pair of sharp rods.

**Description**

Venation: Forewing with all veins separate, distance between bases of R4–R5 twice as that between R5 and M1; R5 to termen below apex; M3–CuA1 well separated at median cell; CuA2 arising about opposite 1/3, distance from wing base to base of R1–R2. Hindwing with Rs–M1 stalked to 1/3, M3–CuA1 stalked about 1/4 distance.

♂ genitalia: Uncus slender; socius drooping, hairy; arm of gnathos simple, terminal plate large; vinculum slender, complete. Distal part of valva slender; sacculus broad with serrate caudal part and terminal process; disc of valva sparsely hairy; pulvinus small; transtilla a slender band with two sublateral sharp processes; juxta small; aedeagus shorter than costa of valva, with long ventral termination, median zone, small caulis, and slender coecum penis; two strong capitate cornuti present.

♀ unknown.

**Distribution.** Known only from Ecuador.

### Lydontopa polydonta sp. n.

(Figs. 11, 12, 68, 69)


*Etymology:* The name is composed of the Greek odontos = tooth and poly = numerous, referring to the shape of the sacculus. The name is considered a noun in apposition.

**Diagnosis**

The genus is monotypic; its autapomorphies are mentioned above for the genus.

**Description**

♂ (Figs. 68, 69): Wing span 12–14.5 mm. Head cream white; labial palpus ca. 4, cream white, laterally ochreous; thorax more ochreous cream. Forewing distinctly expanding posteriorly, costa weakly convex, apex fairly long, termen sinuate. Ground colour cream tinged light yellowish ochreous in distal area of wing. Numerous blackish dots especially in distal area, the largest followed with weak rust shade before end of median cell. Cilia concolourous with ground colour. Hindwing whitish, cream on periphery, with some indistinct greyish spots in apex third; cilia whitish.

**Variation:** Quantity and size of blackish dots variable; in particular, the prominent central dot is greatly reduced in some specimens. Ground colour more ochreous in some specimens.

♀ genitalia (Figs. 11, 12): As described for the genus.

*Nunimeus numerius* Razowski & Becker, 2001

(Figs. 13, 49, 70)


This species was described from two ♂♂ from the province of Tungurahua, Ecuador. Our ♂ shows only slight differences to the type in the length of the costal process of valva (Fig. 13). The ♀ (Fig. 70) previously was unknown.

♀ genitalia (Fig. 49): Sterigma broad, with large, thorny lateral lobes and anteostial portion reduced to a slender, sclerotic belt; ductus bursae short, provided with spiny sclerite which extends as far as antemedian part of corpus bursae; ductus seminalis median, situated dorsally; accessory bursa small, dorsal, postmedian.

**Remarks:** Dimorphism is seen in the shade of the ground colour of the forewing which is whitish-cream, more or less densely suffused with brownish or brownish-rust; median fascia brown, complete or consisting of large dorsal triangle accompanied by small costal spot; trace of subapical and subtornal spots may appear.
**Lobogenesis Razowski, 1992**

This genus was described as monobasic, but at present it consists of 8 species. Brown (2000) revised *Lobogenesis* and compared it with *Odonthalitus* Razowski, 1992 (originally monobasic, now including 6 species). The two genera are very closely related, and a discussion of their phylogeny is provided by Brown. *Lobogenesis* is widely distributed in the Neotropics from Costa Rica to Bolivia.

**Lobogenesis riesteri sp. n.**

(Figs. 16, 17, 50, 72, 73)


**Eymology**: This species is named in honour of Mr. Wolfgang Riester, Macas, for his interest and support of the fieldwork in the vicinity of Macas.

**Diagnosis**

Externally this species resembles to *L. magdalenana* Brown, 2000 from Colombia and *L. larana* Brown, 2000 from Venezuela. In the ♀ genitalia it is closer to the latter, but differs in the position and shape of the spiny areas of the valva.

**Description**

♀ and ♂ (Fig. 72, 73): Wing span 10–11 mm. Head cream, labial palpus ca. 1.5, brownish-grey; thorax light brownish cream, mixed grey-brown proximally. Forewing expanding posteriorly, costa bent near apex, termen weakly oblique, slightly sinuate, apex sharp. Ground colour whitish cream, mixed with grey from beyond middle, striulated and sprinkled dark grey. Markings in form of traces of basal blotch (a posterior line), median fascia (a diffuse costal blotch) and a few short lines in the distal area of the wing. Cilia grey-cream tinged grey, with dark grey basal line. Hindwing grey-cream, striulated grey, darker on periphery; cilia concolourous with wing base.

**Variation**: Paler and darker specimens, with well developed striulation and remnants of markings which are blackish grey. In one specimen grey lines edged ochreous.

♀ genitalia (Figs. 16, 17): Uncus very slender bifurcate from before middle; socius elongate-ovate; arm of gnathos slender, expanding postbasally, provided with large subterminal lobe; terminal plate of gnathos very small. Valva broad basally, extending beyond middle dorsally with an oblique row of short bristles extending from beyond middle and a group of much longer setae in the middle, anteriorly; pulvinus broad, not extending beyond disc; transtilla with dorso-median rounded lobe and lateral broadenings; aedeagus slender; coecum penis very short; cornutus long, funnel-shaped in basal half.

♀ genitalia (Fig. 50): Sterigma broad with latero-proximal lobes, small roof-shaped sclerite beyond ostium bursae followed by minutely spined areas; broad colliculum and large proximal membranous sac; corpus bursae membranous.

**Netechma ochrotona sp. n.**

(Figs. 51, 74)


**Eymology**: The species name refers to the ochreous colouration of forewings (Greek: ochra- = yellow ochre; Latin: tonus = tension, strain). The name is defined as a noun in apposition.

**Diagnosis**

Similar to *N. consequens* Razowski, 1999 from Argentina and Brazil and *N. sectionalis* (Meyrick, 1932) from Costa Rica, but differing in the shapes of ductus bursae, ductus seminalis, and sterigma, which characterizes with large latero-posterior lobes.

**Description**

♀ (Fig. 74): Wing span 14 mm. Head cream ochreous, labial palpus ca. 2, mixed brownish; thorax brownish cream, light cream distally. Forewing as in *N. consequens* from Brazil. Ground color cream suffused ochreous, with more brownish diffuse shades submedially and subterminally. Markings: Submedian triangular blotch of dorsum and subapical blotch brownish dark brown, costal blotch and subapical blotch brownish grey with brown marks, this last extending towards tornus, marked brown in middle. Cilia cream with some brown scales. Hindwing light brownish grey, cilia paler, mixed ochreous in distal third of wing.

♀ genitalia (Fig. 51): Sterigma with large latero-proximal lobes and small proximal corners; ductus bursae short,
in major part rather well sclerotized; corpus bursae elongate, distinctly sclerotized and spiny except for proximal portion, with large rounded posterior prominence; accessory bursa originating at base of ductus bursae.

**Punctapinella conchitis** (Meyrick, 1912)  
(Fig. 75)

**Material examined**: 1 ♀, (GS 948-V.P.), Morona-Santiago-Prov., Macas, Proaño > Alshi, 5 km SO Alshi, 1700 m, 5. vi. 1999 (CVPR).

Previously known only from Colombia. Our specimen slightly differs from the Colombian example illustrated by Brown (1991) in having the cornutus more slender, longer and curved and a somewhat longer sacculus. Our specimen (Fig. 75) of *Punctapinella conchitis* (1912) differs from the Colombian example illustrated by Brown (1991) in having the cornutus more slender, longer and curved and a somewhat longer sacculus. This species was described from Venezuela and its holotype is from Amazonas Territory. It also was found in Peru. Brown (1991) suggests that if the association of Peruvian specimen with the holotype from Venezuela is correct, it is one of the most widely distributed species of this genus. Now its area is extended to Ecuador.

**Remarks**: The determination is based on the illustrations in the original description. Unfortunately the Ecuadoran ♀ is still unknown which prohibits a confirmation of our determination by comparison of the ♀ genitalia.

**Sistrophota conchitis** (Meyrick, 1931) in having dark brownish palpus > 2, brownish grey, whitish subterminally; thorax cream, tegula mixed brownish basal. Forewing as in *P. chionocarpa*. Ground colour white tinged cream pinkish in form of ovate blotches, the largest in costal half of wing basally accompanied by an elongate dorso basal blotch; two small spots beyond middle, two much larger in subterminal area; one at middle, another near tornus; row of spots from before apex to mid-terminen and a strip at costa before this last row. Cilia pinkish cream (worn). Hindwing brownish paler basally; cilia pale brown.  

**♀ genitalia** (Fig. 52): Very similar to those in *P. theta* from Venezuela but with somewhat longer ductus bursae and broader distal part of sterigma.  

**Paraptila symmetricana** Brown, 1990  
(Fig. 101)

**Material examined**: 1 ♀ (GS 904-V.P.), Morona-Santiago-Prov., Macas, Proaño > Inapula, CREA-Domono, 1100 m, 20.–23. iv. 1998 (CVPR).

This species was described from Bolivia (Brown 1990); another species, *P. ecuadora* Brown, 1990 is known only from the ♀ holotype from Ecuador. Determination of our specimen is based on the comparison of photographs of the adults.

**Cuproxena elongana** Brown, 1991  

Our specimens differ in the shape of dark grey costal blotch which in one example is more rounded. This species was described from Venezuela and its holotype is from Amazonas Territory. It also was found in Peru. Brown (1991) suggests that if the association of Peruvian specimen with the holotype from Venezuela is correct, it is one of the most widely distributed species of this genus. Now its area is extended to Ecuador.

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**Remarks**: The determination is based on the illustrations in the original description. Unfortunately the Ecuadorian ♀ is still unknown which prohibits a confirmation of our determination by comparison of the ♀ genitalia.

**Sistrophota conchitis** (Meyrick, 1931) in having dark brownish palpus > 2, brownish grey, whitish subterminally; thorax cream, tegula mixed brownish basal. Forewing as in *P. chionocarpa*. Ground colour white tinged cream pinkish in form of ovate blotches, the largest in costal half of wing basally accompanied by an elongate dorso basal blotch; two small spots beyond middle, two much larger in subterminal area; one at middle, another near tornus; row of spots from before apex to mid-terminen and a strip at costa before this last row. Cilia pinkish cream (worn). Hindwing brownish paler basally; cilia pale brown.  

**♀ genitalia** (Fig. 52): Very similar to those in *P. theta* from Venezuela but with somewhat longer ductus bursae and broader distal part of sterigma.  

**Paraptila symmetricana** Brown, 1990  
(Fig. 101)

**Material examined**: 1 ♀ (GS 904-V.P.), Morona-Santiago-Prov., Macas, Proaño > Inapula, CREA-Domono, 1100 m, 20.–23. iv. 1998 (CVPR).
forewing typical of the genus. Ground colour cream with slight olive hue sprinkled brown, and with dense brown striae of appressed pearl scales. Costal blotch large, dark brown with scattered reddish scales and large spot of ground colour at inner tip; subterminal elongate transverse marking slightly darker (sprinkled black) than ground colour. Cilia concolourous with this last. Hindwing brownish, whiter in basal area, with diffuse brown striation. Cilia cream.

♀ genitalia (Fig. 53): Proximal part of sterigma broad; ostium bursae rounded, protected by distinct, spiny sclerite proximally; distal part of sterigma in large part membranous, with well sclerotized lateral arms; ductus bursae long, in major part sclerotized, slender medially, strongly, asymmetrically expanding in distal part; corpus bursae minutely spined, with distal sclerite extending from ductus bursae.

*Pseudomeritastis heliadelphia* (Meyrick, 1932)

Material examined: 1 ♀ (GS 808-V.P.), Morona-Santiago-Prov., Macas, Proaño > Inapula, CREA-Domono, 1100 m, 30. m.–2. rv. 1998 (CVPR).

This species previously was known only from Colombia. Obraztsov (1966) included seven species in his revision of *Pseudomeritastis* Obraztsov, 1966, distributed from Guatemala (1 species) and Costa Rica (2 species) south to Colombia and Bolivia (two species in each country). Hence the discovery of the genus in Ecuador is not surprising, suggesting a wide distribution in the Neotropical region.

*Gauruncus laudatus* sp. n.

(Figs. 54, 78)


Etymology: The specific name is derived from the beautiful colouration of the forewings (Latin: laudare = to praise). The name is defined as a noun in apposition.

Diagnosis

Closely related and very similar to *G. gelastes* and *G. gampsognathos*, but differing in the possession of short, slender socii and an nearly straight ventral edge of the sacculus. The distal end of the latter is rounded, not produced, and provided with some thorns.

Description

♂ (Fig. 79): Wing span 13 mm. Head and thorax brownish; labial palpus ca. 1.5. Forewing costa somewhat convex, mostly basally; apex short, acute; termen not oblique, hardly concave beneath apex. Ground colour pale brownish densely striated and suffused with brown; strigulae being concentrated in basal half of wing, medially forming an ill-defined fascia; subapical marking weaker; three cream white spots along costa subapically. Cilia concolourous with ground colour (specimen worn). Hindwing brownish, cilia paler.

♀ genitalia (Figs. 18, 19): Uncus slightly shorter than in the above mentioned species; socii elongate, rather short; valva short with subtriangular process at base of costa subdorsally; sacculus rather straight ventrally, rounded terminally, densely thorny; median part of transtilla long, bases broad, minutely spiny; aedeagus broad.

*Xoser* gen. n.

Type-species: *Xoser exors* sp. n.

Etymology: The genus name is an anagram of the name of the type-species. Its gender is masculine.

Diagnosis

Externally resembling some Sparganothini or Euilini (e.g. *Gauruncus* Razowski, 1988), but distinct in the ♀ genitalia. The uncus is bifid as in *Gauruncus* with broadly separate arms and the costa of the valva terminates in a thorn as in *Chamelania jalisca* Razowski, 1999. The soci are bristled, the transtilla is simple, and the cornuti are represented by numerous simple spines. The gnathos is absent as in Chlidanotini.
Description

Venation: Forewing with all veins separate; distance between bases of R4–R5 ca. 1/3 the distance between bases of R3–R4; R5 to termen; base of CuA1 almost opposite that of R1. Hindwing with Rs–M1 approaching basally to one another; M2–M3 distinctly separate; M3–CuA1 connate.

♂ genitalia: Uncus bifid with distinctly separate bases of arms; socii ovate, bristled; gnathos absent; costa of valva large, broad basally, terminating in a curved thorn; sacculus with similar but longer termination; distal part of valva rounded; disc hairy and bristled, pulvinus not extending proximally; transtilla without median part, broad basally; juxta large; aedeagus stout; vesica with large plate and numerous spines, the majority of which fairly long.

♀ unknown.

Remarks: The ♂ genitalia of this species possess an unusual mosaic of characters: the valvae resemble those of Chlidanotini; the aedeagus and cornuti are similar to those of Euliini and some Cochylini; and the gnathos is completely atrophied. The loss of the gnathos is characteristic of Cochylini; its reduction is seen in some Cnephasini and almost all Chlidanotini. However, this is a first example of its loss in Euliini.

Xoser exors sp. n.
(Figs. 20, 21, 80)


Etymology: The species name refers to the extraordinary combination of characters (Latin: exors, exortis = without share in). The name is not considered to be an adjective.

Diagnosis

Xoser exors can be distinguished from all other Euliini by the characters detailed above. It is the only known species in the genus.

Description

♂ (Fig. 80): Wing span 12.5 mm. Head brownish, labial palpus 1.5; thorax brown. Forewing rather uniformly broad throughout; costa somewhat convex; apex short; termen indistinctly oblique, slightly concave beneath apex. Ground colour greyish brown, darkest at base and dorsum, grey-white sprinkled brown in distal half of wing; large ochreous cream blotch before tornus edged brown; brown slender fascia from it to costa; brown diffuse subapical blotch extending in form of weak fascia to end of termen; concolourous spots at apex and termen; a row of indistinct dots parallel to the mentioned fascia. Cilia brownish white, brown at apex, with weak brownish median line. Hindwing greyish brown, greyer at base; cilia paler than wing.

♂ genitalia (Figs. 20, 21): As described for the genus.

Transstillaspis Razowski, 1987

Razowski & Becker (2001) present a summary of our knowledge of the morphology and distribution of Transstillaspis. The genus occurs rather widely throughout South America, from Venezuela to Argentina and from Brazil to Peru but previously only one species was recorded from Ecuador: T. argentinae Razowski & Becker, 2002. The four species described below fit well into the existing species-groups found in other parts of its range.

Transstillaspis monoseta sp. n.
(Figs. 22, 23, 81)


Etymology: The name refers to presence of a single seta on the sacculus (Latin prefix mono- = single). The name is a noun in apposition.

Diagnosis

This new species is probably closest to T. bascanion Razowski, 1987 from Peru, from which it can be distinguished by the broad base of the uncus, the lack of large submedian thorns of the transtilla, and the presence of a single spine at the sacculus (in T. bascanion there are three strong ones). It also is similar to T. batoidea Razowski, 1987 from Peru, but differs in the shape of the uncus and the number of saccular spines. The ♂ is unknown.

Description

♂ (Fig. 81): Wing span 17.5 mm. Head brownish, labial palpus > 1.5; thorax brownish grey with refractive whitish scales. Forewing rather uniformly broad throughout; costa distinctly curved outwards, termen fairly oblique, rather straight. Ground colour whitish cream preserved in dorsal half of wing and in form of a diffuse fascia from mid-wing to apex. Remaining areas brownish with brown remnants of markings and costal spots; subterminal marking as a transverse stripe near middle; rust suffusions mainly on dark elements of markings. Cilia (worn) cream brown, black at tornus. Hindwing dark grey with some light cream spots in distal third; cilia paler than wing.

♂ genitalia (Figs. 22, 23): Uncus short, broad in basal half; socii and gnathos arm slender; valva with small ventral prominence postbasally armed with single long spine; transtilla strong, heavily thorny; juxta provided with pair of unequally large dorsal processes; aedeagus broad to middle, slender posteriorly; dorsal group of cornuti consisting of five cornuti (2 small and 3 larger).

Transstillaspis multisetae sp. n.
(Figs. 24, 82)


Etymology: The name refers to presence of several setae on the sacculus (Latin: multus = numerous). The name is again a noun in apposition.
Diagnosis

*T. multisetae* belongs to a group of species characterized by a rather delicate transfilla forming a pair of submedian thorny lobes. The setae of sacculus are little specialised, slender, and numerous. It is also comparable to *T. blechra* Razowski, 1987 or *T. baea* Razowski, 1987, both from Peru, but both of which lack spines on the sacculus.

Description

♂ (Fig. 82): Wing span 15.5 mm. Head olive grey, thorax darker, greyer, labial palpus as in *T. monoseta*. Forewing rather slender; costa gently convex; termen weakly convex, slightly oblique. Ground colour greyish cream sprinkled grey, suffused reddish rust dorsally and postmedially. Traces of markings grey (three slender fascia at costa and subapical blotch), median fascia reaching end of median cell. A few black dots in middle near termen and a spot at tornus. Cilia greyish with brown median line and black stripe at tornus. Hindwing brownish grey; paler, translucent in basal half; cilia paler than wing.

♀ genitalia (Fig. 24): Uncus long, weakly expanding terminally; socii vestigial; gnathos arms slender; sacculus with dense postbasal spines forming a compact group; transfilla with pair of submedian prominences; juxta with weak sclerotization of the dorsal part (probably without larger prominences); aedeagus large with a large group of cornuti.

*Transtillaspis luiscarloesi* sp. n.

(Figs. 25, 26, 83)


Etymology: The species is dedicated to Luis Carlos Rivade- neira.

Diagnosis

The new species is close to the Peruvian *T. cornutipaea* Razowski, 1997 and *T. aitmeta* Razowski, 1997, as indicated by the presence of a bifurcate dorsal process of the juxta accompanied by a pair of lateral thorns. It differs, however, in the much broader aedeagus, a series of the larger cornuti and the broader distal process of juxta.

Description

♂ (Fig. 83): Wing span 14 mm. Head cream brownish; labial palpus 2.5, brownish; thorax slightly darker than vertex. Forewing broad; costa uniformly convex; termen slightly convex. Ground colour cream ochreous with slight brownish admixture, dotted and striigulated greyish brown. Markings slightly darker consisting of striigulation or reticulation; basal blotch in form of a small costal spot; median fascia indistinct with darkest spot medially, broadest at tornus; subapical blotch ill-defined connected with a fascia broadening and terminating near mid-termen; cilia concolourous with ground colour with some brownish divisions (partially worn). Hindwing greyish brown with some dark spots; cilia cream, basal line brownish grey.

♀ genitalia (Figs. 25, 26): Uncus slender, fairly long, pointed apically; valva broadest medially, convex ventro-caudally; sacculus simple, broadest in basal third, with some terminal folds; two large, broad submedian lobes of transfilla; aedeagus broad with large ventro-terminal lobe; pair of lateral asymmetrical processes of anellus at zone; one broad, curved and one very long, slender processes of juxta developed; cornuti of various sizes: ca. 10 long and medium sized ones and numerous small spines.

*Transtillaspis irrorata* sp. n.

(Figs. 27, 28, 84)


Paratype (1 ♂): (GS 1399-V.P.), same data as holotype, (CVPR).

Etymology: The name is due to maculation of the forewing (Latin: *irroratus* = sprinkled [with water]). The name is defined as a noun in apposition.

Diagnosis

This species is closely related to the Bolivian *T. brandi-nojuxa* Razowski, 1987, as indicated by the presence of a bifurcate dorsal process of the juxta accompanied by a pair of lateral thorns. It differs, however, in the much broader aedeagus, a series of the larger cornuti and the broader distal process of juxta.

Description

♂ (Fig. 84): Wing span 12.5 mm (paratype 13 mm). Head brownish cream, thorax much browner; labial palpus ca. 2, brown. Forewing weakly expanding terminally, costa somewhat convex, termen mostly straight, slightly oblique. Ground colour pale brownish with browner suffusions and brown spots along wing edges; remnants of markings (basal blotch, median fascia and subapical blotch connected with subterminal and terminal markings) concolourous. Cilia (worn) concolourous with ground colour. Hindwing pale brownish cream; striigulation and spots brownish; cilia pale cream.

Variation: Paratype with distinct brown markings; ground colour in the form of small spots in the distal third of wing.

♀ genitalia (Figs. 27, 28): Uncus slender, moderately large; arms of gnathos slender; socii slender fairly long; valva tapering terminally, somewhat upcurved; sacculus terminating in a distinct thorn; dorsal part of transfilla, two submedian thorny lobes; juxta with rod like dorso-median process bifurcate terminally and two rather slender lateral processes; aedeagus stout, with elongate ventral termination; coecum penis short; caulus provided with distal hooked process; cornuti three slightly curved thick spines.

Remarks: The ♂ is unknown. In the genitalia morphology, the paratype differs slightly from the holotype, primarily in the shape of the aedeagus.
Figs. 25–45: ♂ genitalia. Figs. 25, 26: Transtillaspis luiscarlosi sp. n., holotype. Figs. 27, 28: Transtillaspis irorrata sp. n., holotype. Figs. 29, 30: Bolbia biloba sp. n., paratype, GS 641-V.P. Figs. 31, 32: Anopinella consecta sp. n., holotype. Figs. 33–35: Anopinella altshiana sp. n., holotype. Figs. 36, 37: Rhytmologa yukipana sp. n., holotype. Figs. 38, 39: Chamelania auricoma sp. n., holotype. Figs. 40, 41: Moronata eriosocii sp. n., holotype. Figs. 42, 43: Orthocomotis longuncus sp. n., holotype. Figs. 44, 45: Orthocomotis eucholidera domonoana ssp. n., holotype.
Bolbia gen. n.
Type-species: Bolbia biloba sp. n.
Etymology: The name is an anagram of the name of the type-species. Its gender is feminine.

Diagnosis
Bolbia differs from all known genera of Euliini in the shape of the central part of the transtilla and the valva. It is also characterized by a large coecum penis and a distinct sacculus. It appears to be related to Psedaleulia Razowski, 1997 and other genera with a slender uncus and gnathos.

Description
Venation: In forewing all veins separate, R5 to apex, M3 approaching CuA1 basally; in hindwing all veins distinctly separate.

♂ genitalia: Tegumen broad, rather short, with broad shoulders; uncus very slender; gnathos simple with slender arms and long terminal plate; socii dropping, broad, hairy and scaled; vinculum fully developed, slender. Valva tapering in distal third, with well developed costa; disc scarcely hairy, without pulvinus; sacculus slender, extending terminally into a sharp process. Transtilla slender, with well developed bilobed central part marked with a few thorns; juxta broad, with elongate median part. Aedeagus broad, weakly sclerotized terminally, with zone median and rather short coecum penis; cornuti not found.

♀ genitalia (Figs. 29, 30): As described for the genus.

Anopinella Powell, 1986
Anopinella was proposed to include three species, one of which (homosacta (Meyrick, 1930)) later was transferred to Sericosata Razowski, 1986 (Razowski 1986). The genus recently was revised by Brown & Adamski (2003), to include 35 species, 30 of which were described as new. Of the four species we have from Ecuador, only one was treated by these authors. The other three species are described below because it was too late to include them in their work, which was already in press.

Anopinella tenebricosa sp. n.
(Figs. 55, 86)
Etymology: This name refers to dark colouration of the species (Latin: tenebricosus = dark) and is considered a noun in apposition.

Diagnosis
This species can be distinguished by the dark colour of the wing markings. The genitalia resemble those of Anopinella boliviana Brown & Adamski, 2003, but in the latter the distal edge of the colliculum is broad and well sclerotized, and the proximal part of the ductus bursae is broader and shorter.

Description
♂ (Fig. 86): Wing span 15 mm. Head brownish, labial palpus ca. 2; thorax paler (worn). Forewing slender. Ground colour pale brownish grey with distinct reddish rust admixture, whiter before middle in costal third; subterminal blotch slender, brownish grey, broadly edged with refractive grey. Costal blotch blackish with much darker proximal and distal parts; termen similarly suffused but paler. Cilia brownish rust. Hindwing dark, blackish brown; cilia paler.

♀ genitalia (Fig. 55): Sterigma weakly sclerotized, spiny except for posterior, lateral arms; its anterior edge a little stronger sclerotized than lateral edges; colliculum short, broad, membranous; ductus bursae slender.

Anopinella consecta sp. n.
(Figs. 31, 32, 87)
Etymology: The species name refers to the deep ventral concavity of the valva separating the cucullus (Latin: consectus = separated). The name is considered a noun in apposition.

Diagnosis
In the ♂ genitalia A. consecta differs from all described species in the absence of the pollex, well developed in A. ophiodes (Walsingham, 1914) from Guatemala and its
allies. The deep ventral concavity between sacculus and cucullus is a putative autapomorphy of this species.

**Description**

♂ (Fig. 87): Wing span 16 mm. Head cream, labial palpus ca. 2; thorax mixed brownish. Ground colour of forewing whitish cream with brownish suffusions; brownish rust scales forming lines around subterminal marking; irregular brown suffusion in dorso-basal area intermixed with some rust scales; termen brownish marked with some brown spots; brownish or brown-grey spots along costa. Cilia cream with rust admixture and brownish divisions. Hindwing brownish, paler, more grey anteriorly; cilia grey.

♀ genitalia (Figs. 31, 32): Uncus rather strong; socii elongate; arm of gnathos with subterminal rounded process followed by a rounded lobe; terminal plate of gnathos weakly sclerotized distally; valva deeply concave beyond angle of sacculus; cucullus like part, short; aedeagus rather short.

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Figs. 46–59: ♀ genitalia. Fig. 46: Gravitcornutia inapulana sp. n., paratype, GS 840-V.P. Fig. 47: Dogolion oligodon sp. n., paratype, GS 1390-V.P. Fig. 48: Psedaleulia dumetosa sp. n., paratype, GS 872. Fig. 49: Nunimeus numerosus RAZOWSKI & BECKER, 2001, Ecuador, Macas, Proaño > Inapul, CREA-Domono, 1100 m, 28.–30. vii. 1999, GS 967-V.P. Fig. 50: Lobogenesi riiestri sp. n., paratype, GS 1387-V.P. Fig. 51: Netechna ochrotona sp. n., holotype. Fig. 52: Punctapinella paratheta sp. n., paratype, GS 871-V.P. Fig. 53: Strophatina apparata sp. n., holotype. Fig. 54: Gauruncus laudatus sp. n., holotype. Fig. 55: Anopinella tenistrinosa sp. n., holotype. Fig. 56: Rhytmologa yukipana sp. n., paratype, GS 884-V.P. Fig. 57: Chamelania auricoma sp. n., paratype, GS 897-V.P. Fig. 58: Moronata eriosocii sp. n., paratype, GS 1352-V.P. Fig. 59: Orthocomotis parattana sp. n., holotype.
Colour Plate 1. Figs. 60–80: (see page 205)
Colour Plate 2. Figs. 81–101: (see page 205)

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Anopinella alshiana sp. n.
(Figs. 33–35, 88)


Etymology: The species name refers to the name of the type locality: Alshi. The name is defined as a noun in apposition.

Diagnosis
Closely related to the Colombian A. isodelta (Meyrick, 1912) but differing in the more finely spined plates of the gnathos. It differs from A. triquetra (Walsingham, 1914) from Costa Rica and Guatemala in the shorter cucullus.

Description
♂ genitalia (Figs. 33–35): Uncus delicate, slender; gnathos arm shorter, with small lateral prominence near middle and large terminal lobe with serrate edges; terminal plate of gnathos not developed; valva long; sacculus convexly rounded followed by a shallow concavity; cucullus termen. The new species has a different wing shape. In the ♂ genitalia both have a costal process of the valva and a similar, broad base of arm of gnathos. Putative autapomorphies for Anopinella are strongly reduced uncus; arms of gnathos very slender; terminal plate absent; socii large, tapering terminally, drooping, rather scarcely hairy; vinculum well developed, rather weakly sclerotized. Valva proportionally small; costa well developed, however, very slender; sacculus without free termination; end of the valva provided with a few small prominences; disc scarcely hairy; pulvinus absent. Transtilla broad, comprised of thick membrane; juxta moderately large, simple. Aedeagus large; zone postmedian; caulis small; coecum penis large; cornutus absent.

RhytmoLoga Meyrick, 1926

This previously monotypic genus was known only from two ♀ ♀. Clarke (1958) redescribed the venation and illustrated the ♀ genitalia of the type-species. We present the first description of the ♂ genitalia based on RhytmoLoga yukipana sp. n. (Figs. 36, 37). The type-species is characterized by a slender forewing and a rather oblique termen. The new species has a different wing shape.

♀ genitalia (Figs. 36, 37): As described for the genus.

♀ genitalia (Fig. 56): Similar to those in R. numerata but colliculum much shorter and coiled part of ductus bursae larger.

Chamelania auricoma sp. n.
(Figs. 38, 39, 57, 91, 92)


Paratypes (5 ♂♂, 2 ♀♀): 1 ♀ same data as holotype (ISEZ); 2 ♂♂ (GS 633-V.P., 677-V.P.), Morona-Santiago-Prov., Macas, Proaño > Inapula, CREA-Domono, 1100 m, 20.–23. iv. 1998; 1 ♂ (GS 676-V.P.); 1 ♀ (GS 897-V.P.), same locality, 23.–26. iv. 1998 1 ♂ (GS 684-V.P.), same locality, 27.–30. iv. 1998 (all CVPR); 1 ♂ same locality, 28.–30. ii. 1999 (ISEZ).

Etymology: The species name refers to the colour of the wing markings (Latin: aureus = golden, coma = hair, mane). The name is a noun in apposition.

Diagnosis
The new species is closest to the Mexican C. juliscana Razowski, 1999. Both have similar forewing shape, markings, and venation. In the ♂ genitalia both have a costal process of the valva and a similar, broad base of arm of gnathos. Putative autapomorphies for C. auricoma are
the very slender terminal plate of the gnathos, the peculiar, slender socii, the small costal process of the valva, the broad saccus, the short, thick cornuti in the ♂, and the presence of two sclerites of the corpus bursae of the ♀, armed with strong spines.

**Description**

♂ and ♀ (Fig. 91, 92): Wing span 12 mm (10–14 mm in paratypes). Head yellowish cream, labial palpus ca. 1.5, whiter terminally; collar light ochreous rusty; thorax brownish cream. Ground colour glossy golden cream; markings more brownish: Dorsum brownish ochreous from base to torus, subtriangularly rounded costal; costal half of median fascia slender fusing with subterminal fascia; subapical marking in form of a slenderly curved fascia reaching mid-terminar; apex suffused. Cilia slightly paler than subterminal fascia, with more ochreous basal line. Hindwing light cream brownish, whiter towards base, browner in anal area; cilia rather concolourous with middle of wing.

**Variation:** Markings more or less distinct, often with brown admixture; in some specimens dorsal area dark, diffuse with more or less distinguished oblique dorso-basal fascia.

♀ genitalia (Figs. 38, 39): Tegumen moderately short; uncus in form of apical prominence; socii well sclerotized, bent, with thin hairs in basal half and one apical hair; gnathos arm broad basally, strongly tapering towards very slender terminal plate; vinculum fully developed, slender apically. Valva rather broad, with slender terminal portion; costa well sclerotized with antemedian process; sacculus broad terminating in a hook; basal part of disc with rigid hairs. Transtilla broad, convex; juxta with elongate corners. Aedeagus short; coecum penis short, broad; two cornuti in vesica.

♀ genitalia (Fig. 57): Ovipositor short; apophyses short, slender. Cup-shaped part of sternigma large; duc tus bursae broad, rather short; pair of sclerites armed with large thorns connected by a slender distal sclerite of corpus bursae.

**Moronata gen. n.**

_Type-species:_ Moronata eriosocii sp. n.

_Etymology:_ The name refers to Morona, the first part of the name of the province of the type-locality of _M. eriosocii_. Its gender is feminine.

**Diagnosis**

This genus has an isolate position within the Eulini. It is similar to _Psedaleulia_ only in the position of the base of the gnathos and the bunches of spines on the disc of the valva. Putative autapomorphies are the configuration of the socii, the shape of the terminal plate of the gnathos, the lateral position of the bases of its arms, the reduction of the transtilla with well developed basal apodemes, the presence and positions of the groups of spines of the disc of the valva, and the structure of the large sternigma.

**Description**

_Venation:_ In foregoing all veins separate, R5 to apex; CuA2 almost opposite base of R1. In hindwing Rs-M1 separate; M3-CuA1 very short stalked.

♂ genitalia: Tegumen very broad, not tapering terminally; uncus club-shaped with long lateral hairs terminally; socii rigid with weakly sclerotized basal inner lobe and small postmedian convexity; gnathos arm broad, terminal plate very broad, concave apically; vinculum slender, complete. Valva slender, tapering in distal part terminally; costa well sclerotized; sacculus with slender ventral lobes; disc provided with groups of spines, one dorso-postbasal accompanied by submedian small group of long spines, and numerous spines in entire distal half, especially near its ventral edge. Transtilla membranous; apodemes of muscle 4 large; juxta small, simple. Aedeagus rather small; papillae, tapering in distal part posteriorly; coecum small; median; coecum penis broad; cornuti absent.

♀ genitalia: Papillae anales fairly well sclerotized; ste...
rigma large with developed proximal corners; ostium area protected by sclerotic folds; ductus bursae short; accessory bursa extending from before ostium bursae; corpus bursae membranous, minutely spined.

Moronata eriosocii sp. n.  
(Figs. 40, 41, 58, 93, 94)  


**Etymology:** This name refers to the hairy socii (Greek: erion = wool). The name is a noun in apposition.

**Diagnosis**

Externally *Moronata eriosocii* resembles some species of *Transillaspis*, e.g., *T. cornuipaea* Razowski, 1997. However, it can be distinguished from similar species by the characters discussed in the diagnosis of the genus above.

♂ and ♀ (Figs. 93, 94): Wing span 12 mm (11 mm in ♂ paratype, 13 mm in ♀ paratype). Head greyish cream, frons whiter, labial palpus ca. 2, with terminal joint half the length of second joint. Forewing broad, costa distinctly convex; termen weakly oblique, almost straight. Ground colour whitish sprinkled black-grey, costal spots blackish or grey; median part of wing suffused brownish. Markings blackish: basal blotch almost completely atrophied, median fascia indistinct in dorsal half of wing, with some black spots in costal portion. Terminal part of wing light yellowish ochreous also with blackish stripe; veins grey. Cilia concolourous with terminal area, with grey divisions beyond veins; whitish at tornus. Hindwing brownish grey; cilia much paler.

**Variation:** ♂ paratype with ground colour more brownish and markings strongly reduced; costal spots brown; terminal area of wing light ferruginous, veins and divisions of cilia grey-brown.

♂ genitalia (Figs. 40, 41): As described for the genus.

♀ genitalia (Fig. 58): As described for the genus.

Orthocomotis Dognin, 1905

As there is some uncertainty regarding the systematic position of this genus we are placing it at the end of Eulini. It was placed in Tortricinae by Clarke (1956), treated as Eulini by Powell (1986), and transferred to Schoenotenini by Brown (1989). However, it recently was returned to Eulini by Horak (1998).

Orthocomotis parattonsa sp. n.  
(Figs. 59, 95)  


**Etymology:** The species name refers to the apparent close affinity with *O. attonsa* Razowski, 1982 (Latin: par, parvis = like, similar, equal). The name is a noun in apposition.

**Diagnosis**

Externally similar to Brazilian *O. attonsa* Razowski, 1982 in having white forewing ground colour. The ♀ genitalia are similar to those of *O. trissophricta* (Meyrick, 1932) and *O. chloantha* (Walsingham, 1914) from Mexico. From *O. attonsa* it differs in the much longer ductus bursae and the entirely membranous corpus bursae. From *O. trissophricta* and *O. chloantha* it differs in the more anterior origin of the accessory bursa. In *O. parattonsa* the accessory bursa arises from the corpus bursae rather than from the base of ductus bursae.

**Description**

♀ (Fig. 95): Wing span 27 mm. Head with frons white, vertex black, scape of antenna grey; labial palpus > 1, black with ends of joints two and three white; thorax white with collar almost completely black, tegula scaled black basally, black and grey terminally, dorsal crest black; legs white with black rings. Forewing typical of the genus with termen slightly concave medially. Ground colour white scarcely scaled black, with large refractive green fasciae and broad refractive leaden grey fascia forming distal part of median marking extending from dorsal to before costa. Markings black in form of a small, consisting of two parts basal blotch, S-shaped fascia from costa beyond base to middle of wing and subapical blotch fused with subterminal blotch. Cilia white with black divisions. Hindwing dark brownish grey, paler basally; cilia slightly paler.

♀ genitalia (Fig. 58): Sterigma short, rounded proximally; ductus bursae broad, more slender than corpus bursae; accessory bursa extending from base of the former; ductus seminalis from end part of corpus bursae.

Orthocomotis longuncus sp. n.  
(Figs. 42, 43, 96)  


**Etymology:** The species name refers to the shape of the uncus which is long and very slender (Latin: longus = long). The name is a noun in apposition.

**Diagnosis**

Although genitally similar to *O. trissophricta* from Brazil, *O. longuncus* is not similar superficially to that species. In the ♂ genitalia the new species is easily distinguished by the very slender uncus which in *O. trissophricta* is broad and rather short. Other distinguishing characters are in the shapes of the socii and the sacculus, and in the length of the aedeagus.

**Description**

♂ (Fig. 96): Wing span 23 mm. Head brownish ochreous, front paler, labial palpus 1.5, browner, cream terminally; thorax yellowish brown, browner basally, cream distally; forelegs ochreous cream ringed brown. Forewing as in *O. parattonsa* but with costa more bent at apex. Ground colour glossy ochreous, partially mixed light pinkish between some veins, with longitudinal greenish ochreous.
fasciae; veins marked brown; strigulae along costa and some transverse strips of wing surface whitish cream. Cilia ochreous cream with small, brown divisions. Hindwing brown; cilia slightly paler.

**genitalia** (Figs. 42, 43): Uncus very slender; socius moderately large, tapering dorsally; valva simple; aedeagus short.

**Orthocomotis euchaldera domonoana ssp. n.**

(Figs. 44, 45, 97)


**Etymology:** The name of the new subspecies refers to the locality name Domono and is a noun in apposition.

**Diagnosis**

This subspecies differs from *O. euchaldera euchaldera* Clarke, 1955 described from Colombia mainly in the shape of the terminal process of costa of valva, which in the new subspecies is pointed, and in a greater number of cornuti in the vesica.

**Description**

♂ (Fig. 97): Wing span 22 mm. Head brown, flagellum of antenna blackish, flagellum over 1, dark grey, whitish terminally; thorax blackish brown with sparse rust scales; inner edge of tegula mixed whitish; forelegs white, ringed brown-grey. Forewing brown with grey refractive reticulation, some orange rust scales, groups of white scales in subdorsal median and terminal parts of wing; the large white, refractive area from apex subterminally spotted green; green fasciae or spots between black-brown markings. Cilia blackish with some small white divisions. Hindwing greyish brown; cilia similar.

♀ genitalic (Figs. 44, 45): as in nominate subspecies but with shape of the terminal process of costa of valva more pointed, and with a greater number of cornuti in the vesica.

**Orthocomotis sp. near expansa Razowski, 1999**

(Fig. 98)

**Material examined:** 1 ♂, “Morona-Santiago-Prov., Macas, Proaño > Inapula, CREA-Domono, 1100 m, 23.–24. vi. 1999, leg. Volker Pelz”; GS 1001 (CVPR).

**Description**

The specimen listed above differs from *O. expansa*, described from Carchi, Ecuador, in forewing maculation and in the shapes of uncus and socii. It is characterized as follows: Wingspan 23 mm. Head light ochreous cream; labial palpus 1; thorax dirty cream, browner proximally, with some green scales on base of tegula. Ground colour of forewing cream with leaden grey marks, rust red groups of scales subdorsally and black suffusions. Markings brown-black scaled green. Cilia cream; divisions small, blackish. Hindwing greyish brown; cilia paler.

**Orthocomotis sp. near exolivata Clarke, 1956**

(Figs. 99, 100)

**Material examined:** 1 ♂ (GS 893-V.P.), Morona-Santiago-Prov., Macas, Proaño > Inapula, CREA-Domono, 1100 m, 23.–26. iv. 1998; 1 ♂ (GS 940-V.P.), Morona-Santiago-Prov., Macas, Proaño > Alshi, 5 km SO Alshi, 1700 m, 5. vi. 1999 (both CVPR).

The two specimens differ in colouration but are similar in genitalia. Further material is required to assess their systematic position.

**References**


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