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Contribution to the Ichneumoninae (Hymenoptera, Ichneumonidae) of Southeastern Asia: 3. Heresiarchini

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A b s t r a c t : In this publication, distributional records are given for 61 species of Oriental Heresiarchini (Hymenoptera: Ichneumonidae, Ichneumoninae), mainly from Laos.

Six taxa are described as new: *Aglaojoppa parafemorata* nov.sp., *Coelichneumon fulvipennoides* nov.sp., *Coelichneumon scopator* nov.sp., *Coelichneumon superomediae* nov.sp., *Ileanta laotica* nov.sp., and *Pseudocillimops mesonotator* nov.sp.

The unknown ♀♀ of *Aglaojoppa violaceipennis* CAMERON, 1903, *Coelichneumon fulvipes* CAMERON, 1903, and *Naenarides malaisei* HEINRICH, 1969 are described for the first time as well as the unknown ♂♂ of *Coelichneumon laoticus* RIEDEL, 2013, *Coelichneumon parachinicus* RIEDEL, 2013, and *Euheresiarches amoenus* HEINRICH, 1970. *Neofacydes nigroguttatus* (UCHIDA, 1935) was re-placed in the genus *Neofacydes* HEINRICH.

K e y w o r d s : Ichneumonidae, Ichneumoninae, Heresiarchini, Oriental, new species, new subspecies.

Introduction

The subfamily Ichneumoninae represents a very large group of Ichneumonidae (Hymenoptera) usually parasitizing Lepidoptera. Although this group includes many large and colorful species, our knowledge of the Oriental Ichneumoninae is still incomplete.

After sporadic descriptions of Ichneumoninae species from Southern and Southeastern Asia by earlier hymenopterologists such as P. CAMERON and J. TOSQUINET in the late nineteenth and early twentieth century, a more comprehensive study of the Oriental Ichneumoninae fauna had been published by G. HEINRICH (1966-1970) in several parts.

Up to now, about 644 species in almost 190 genera are listed for the Oriental region in recent catalogues (GUPTA 1987, GUPTA 1988, YU et al. 2012), but it is clear that many species have been undescribed yet. After two previous publications dealing with the Oriental fauna of Ichneumoninae (RIEDEL 2011, 2013), the actual study presents new material of the large tribe Heresiarchini, mainly collected in Laos.

Methods

For this publication, I had the opportunity to study the Oriental Ichneumoninae from the large collection of the Biologiezentrum Linz/Austria (Linz).

I use the nomenclature proposed by HEINRICH (1966-1968) for body structures of the

Ichneumoninae except that the area posteromedia (of HEINRICH) is named area petiolaris here. The distributional records were taken from the catalogue of YU et al. (2012) and RIEDEL (2013). If not mentioned differently, all material is housed in the Biozentrum Linz.

For the measurements I used an Olympus SZX 7 stereo microscope with dividing eyepiece. The figures were taken with an Olympus SC 30 CCD-camera using the AnalySIS getIT software and processed with the Helicon FocusPRO software.

Material and Results

Aglaojoppa caeruleodorsata CAMERON, 1903

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1♀ 17.IV.2012, 1♂ 18.IV.2012, 1♂ 19.IV.2012, 1♀ 1♂ 23.IV.2012, 2♀ 2♂ 24.IV.2012, 1♂ 29.IV.2012, leg. C. Holzschuh & natives.

Distribution: China, India, Myanmar, new for Laos.

Aglaojoppa femorata CAMERON, 1903

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 2♂♂ 8.V.2010, 1♂ 10.V.2010, 1♂ 13.V.2010, 1♀ 16-18.V.2010, 1♂ 2-3.V.2011, 1♀ 4.V.2011, 1♂ 11.V.2011, 1♂ 17.IV.2012, 2♂♂ 18.IV.2012, 1♂ 22.IV.2012, 1♂ 24.IV.2012, 1♂ 28.IV.2012, 1♀ 29.IV.2012, 1♂ 15.VI.2013, leg. C. Holzschuh & natives.

Distribution: Known from China, India and Myanmar, new for Laos.

Aglaojoppa flavomaculata CAMERON, 1901

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1♂ 10-19.V.2009, 1♀ 30.V.2011, 1♂ 18.IV.2012, 1♂ 22.IV.2012, 1♂ 29.IV.2012, 1♂ 30.VI.2013, leg. C. Holzschuh & natives.

Remark: The specimens differ slightly from the description given by HEINRICH (1967: 13-15): Hind coxae with small pale scopa, mesopleura with a large dumb-bell shaped ivory spot in ventral half; tergites 1-4 with large ivory posterolateral spots, fifth tergite with very small ivory spots posterolaterally.

Distribution: Known from Afghanistan, China, India and Myanmar, new for Laos.

Aglaojoppa paradisea HEINRICH, 1967

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1♀ 16-18.V.2010, 1♂ 28.IV.2012, leg. C. Holzschuh & natives.

Distribution: Known from India and Myanmar, new for Laos.

Aglaojoppa parafemorata nov.sp.

Holotypus: ♀ Laos, Hua Phan Prov., Phon-Pan, Umg. Ort Ban Saleui, 20°13'30"N 103°59'26"E, 1350-1900 m, 01.05.2012 KJa, leg. C. Holzschuh & natives (Linz).

Paratypus: ♀ Laos, Hua Phan Prov., Phon-Pan-Mt., Ban Saleui, 20°13'30"N 103°59'26"E, 1350-1900 m, 29.04.2012 KNo, leg. C. Holzschuh & natives (coll. Riedel).

Description of ♀: Body length 15 mm. Flagella with 45 segments, slightly lanceolate. First flagellomeres length 2.6x width, widest flagellomeres about 1.8x wider than long. Head punctate and $\pm$ shining. Temples strongly and almost linearly narrowed behind eyes, c.0.4x as long as eye width (fig. 1). Distance of lateral ocelli to eyes 1.3x their diameter. Malar length 0.5x width of mandibular base.

Mesosoma and metasoma with fine brownish hairs. Mesoscutum and mesopleura densely punctate, metapleura rugose-punctate, coxal carinae strong. Scutellum slightly convex, with lateral carinae in the basal 0.3, punctate. Area superomedia elevated, sickle-shaped, about 2x wider than long, with coarse rugae, costulae at its middle (fig. 8). Area petiolaris coarsely rugose-punctate. Hind coxae punctate, without scopa. Hind femora length 4.4x width.

Postpetiole strongly widened, its lateral fields about 0.7x as wide as the median one, the latter finely aciculate. 2nd tergite length 0.95x width. Thyridia c.1.1x wider than their interval; interval about as wide as median field of postpetiole (fig. 14). Tergites 2-5 with dense punctures, tergites 2-4 centrally aciculate. Seen from dorsal, ovipositor sheaths length 0.3x length of seventh tergite.

Color: black. Pale yellow are stripes on flagellomeres 6-15, palps, bases of mandibles, clypeus, face except black central stripe and ventral margin, wide frontal orbits up to vertices (widened below anterior ocellus), genae and lower 2/3 of outer orbits, scapes ventrally, propleura, anterior and upper margins of pronotum, two long longitudinal stripes on mesoscutum (reaching anterior margin), subtegular ridges, tegulae, praescutellar ridges, complete scutellum and postscutellum, wide stripes on ventral mesopleura, hind upper edges of mesopleura, large spots on mesosterna, carinal triangles, metapleura, areae dentiparae and caudal halves of areae spiraculiferae, large posterolateral spots on 1st and 2nd tergites, fore and middle coxae, all trochanters and trochantelli, dorsal and ventro-apical spots on hind coxae, fore and middle femora frontally and apically, apical 0.2 of hind femora, frontal stripes and subbasal rings on fore and middle tibiae, frontal sides of fore and middle tarsi, complete hind tibiae and tarsi. Pterostigma black.

♂ unknown.

Remark: This new species is similar to *A. femorata* CAMERON, but differs by its hind coxae without scopa, yellow marks on mesosternum und prescutellar ridges, completely yellow hind tibiae, shorter yellow coloration on hind femora, and longer longitudinal stripes on mesoscutum.

Distribution: Laos.

***Aglaojoppa rothneyi* CAMERON, 1902**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1♂ 10.V.2011, 1♂ 11.V.2011, 1♂ 12.V.2011, 1♂ 16.V.2011, 1♂ 30.V.2011, 1♂ 31.V.2011, 1♂ 18.IV.2012, 1♂ 22.IV.2012, 1♂ 25.IV.2012, 1♀ 1♂ 2.V.2012, 1♂ 2.V.2012, 2♀ 29.VI.2013, leg. C. Holzschuh & natives.

Distribution: India, Myanmar, Vietnam, new for Laos.

***Aglaojoppa rufofemorata* CAMERON, 1903**

Remark: Large specimens, body length 21-23 mm.

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 9.V.2010, 1♀ 27.V.2011, 2♀ 28.IV.2012, 1♂ 29.IV.2012, 1♂ 2.V.2012, 1♂ 10-14.V.2012, leg. C. Holzschuh & natives.

var. area superoexterna black: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 16.IV.2012, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Widespread in the Oriental region, new for Laos.

***Aglaojoppa violaceipennis* CAMERON, 1903, new ♀**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 4.VII.2012, leg. C. Holzschuh & natives.

D e s c r i p t i o n o f ♀ : Body length 19 mm. Flagella with more than 37 segments (tips broken off), slightly lanceolate. First flagellomeres length 2.7x width, widest flagellomeres c.1.8x wider than long. Temples slightly and roundly narrowed behind eyes. Area superomedia not elevated, finely rugose, heart-shaped, costulae far caudal to its middle, frontal carina obsolete. Hind coxae without scopa. Hind femora length 3.6x width. Postpetiole moderately widened, its lateral fields c.0.75x as wide as the median one, the latter acuminate. 2nd tergite length 0.9x width. Thyridia c.1.1x wider than their interval. Interval about as wide as the median field of postpetiole.

Color: black. Ivory are stripes on flagellomeres 7-16, palps, bases of mandibles, sides of clypeus, wide orbits (only interrupted on malar spaces and upper outer orbits), collare, basal and upper margins of pronotum, two short longitudinal stripes on mesoscutum, subtegular ridges, spots on tegulae, scutellum and postscutellum completely, wide stripes on ventral mesopleura, carinal triangles, areae dentiparae, anterior spots on areae spiraculiferae, posterolateral spots on 1st and 2nd tergites, fore and middle coxae and trochanters, dorsal spots on hind coxae, apical stripes on fore and middle femora, wide subbasal rings on hind femora, frontal stripes and subbasal rings on fore and middle tibiae, wide subbasal rings on hind tibiae, and all tarsi (except small dark spots on fore and middle tarsi). Pterostigma black.

D i s t r i b u t i o n : Known from India, new for Laos.

***Amblyjoppa annulitarsis* (CAMERON, 1902)**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 8.V.2010, 1♂ 23.IV.2012, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Widespread in Southern and Southeastern Asia, new for Laos.

***Amblyjoppa fumipennis* CAMERON, 1904**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, multiple ♀♀ and ♂♂ IV-VI.2009-2014, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Widespread in Asia, known from Laos (RIEDEL 2013).

***Amblyjoppa rufobalteata* ssp. *amoena* HEINRICH, 1968**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 19.IV.2010, 1♀ 9.V.2010, 4♂♂ 11-13.V.2010, 2♂♂ 18.V.2011, 1♂ 29.V.2011, 4♂♂ 18-29.IV.2012, 2♂♂ 1.V.2012, 1♂ 3.V.2012, 1♀ 15.VI.2013, 1♂ 27-28.IV.2014, leg. C. Holzschuh & natives.

Distribution: This subspecies has been described from Myanmar, new for Laos.

***Amblyjoppa sinensis* (HEINRICH, 1931)**

Material: Vietnam, Cao Bang pr., Phia-Oac Mts., c.1000 m, 22°34'N 105°52'E, 1 ♂ 12.IV.2011, leg. E. Jendek.

Distribution: Widespread in Southeastern Asia, new for Vietnam.

***Atanyjoppa rufipes* HEINRICH, 1969**

Material: Thailand, Chiangmai Zoo, 18°49'N 98°57'E, 400 m, light trap, 1 ♀ 13-19.XI.1990, leg. Chantaramongkol & Malicky.

Distribution: Myanmar, new for Thailand.

***Callajoppa flavinerva* (CAMERON, 1903)**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1 ♂ 9.V.2010, 1 ♂ 6.V.2011, 1 ♀ 10.V.2011, 9 ♂ 16-28.IV.2012, 3 ♂ 3-6.V.2012, 1 ♂ 6.V.2012, leg. C. Holzschuh & natives.

Remark: Body reddish. Black are flagella, upper frons, ocellar spaces, and vertices (occiput reddish), sometimes basal transversal stripes on tergites 3-4, tergites 5-7 completely, apices of wings, apical third of hind femora, apical half of hind tibiae and hind tarsi completely.

Distribution: Known from India, new for Laos.

***Cesandria spiniventris* (HEINRICH, 1970)**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1 ♀ 14-16.VI.2009, leg. C. Holzschuh & natives.

Distribution: Widespread in Southeastern Asia, new for Laos.

***Cnemojoppa rufipes* (CAMERON, 1903)**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1 ♂ 7.V.2011, 1 ♂ 23.IV.2012, leg. C. Holzschuh & natives.

Remark: Closely related to *Protichneumon*; scutellum without lateral carinae; hind femora very slender, their length 5.5x height; area petiolaris slender, with strong transverse rugae.

Distribution: Known from India and Myanmar, new for Laos.

***Coelichneumon albopilosellus* CAMERON, 1905**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1 ♀ 1.V.2012, leg. C. Holzschuh & natives.

Remark: Color pattern similar to *Aglaojoppa femorata* CAMERON, but hind coxae without scopa; hind femora black, their apical 0.15 yellow; hind tibiae and tarsi completely yellow.

Distribution: India, new for Laos.

***Coelichneumon (Coelichneumon) birmanicus* HEINRICH, 1966**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 20.IV.2010, leg. C. Holzschuh & natives.

R e m a r k : The available specimen differs from the description (HEINRICH, 1966: 208-209) by its larger size (body length 22 mm) and the completely ivory scutellum.

D i s t r i b u t i o n : Known from Myanmar, new for Laos.

***Coelichneumon (Coelichneumon) bivittatus sinicus* UCHIDA, 1937**

M a t e r i a l : China, Ningjing Shan, Wei-Shi 2200 m, 27°11'N 99°17'E, 1♀ 12.VI.2007, leg. Major; Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 18.IV.2010, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Known from China, Jianxi, new for Laos.

***Coelichneumon (Coelichneumon) decemguttatus ssp. victoriae* HEINRICH, 1966**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 21.V.2010, leg. C. Holzschuh & natives.

***Coelichneumon (Coelichneumon) fulvipes* CAMERON, 1904, new ♀**

M a t e r i a l : Laos, Hua Phan Prov., Umg. Ort Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 17.04.2012 KJa, leg. C. Holzschuh & natives (Linz).

D e s c r i p t i o n o f ♀: Body length 14 mm. Flagella moderately lanceolate, with 42 flagellomeres; first flagellomeres (without anellus) length 2.7x width, 13th segment square; flagellomeres beyond the middle attenuated, widest flagellomeres 1.8x as wide as long. Temples almost parallel behind eyes, roundly narrowed caudally. Clypeus, face and frons with rather scattered puncture. Genae with very scattered punctures. Distance of lateral ocelli to the eyes c.1x as long as their diameter. Malar spaces c.0.4x as long as the width of mandibular bases. Hypostomal carinae not elevated.

Mesosoma with whitish hairs. Mesoscutum with rather dense punctures and fine granulation, shining; mesopleura punctate. Scutellum moderately elevated, about as long as wide, with lateral carinae in basal 0.5, densely punctate. Propodeum rounded, areae basalis and superomedia confluent, costulae obsolete (fig. 9). 1st lateral areae of propodeum punctate and smoothened, area petiolaris with transverse striation. Hind coxae densely punctate, with distinct scopa in apical 0.25. Hind femora punctate, with scattered punctures in the ventral third, length 3.6x height. 3rd tarsomeres of middle legs c.1.5x as long as wide. Areolets pentagonal, frontal distances of intercubiti c.2x their width, nervuli postfurcal.

Metasoma strongly oxyptygous. Lateral fields of postpetiole c.0.5x as wide as median field, with scattered puncture, median field with 10-12 fine punctured striae. Gastrocoeli strongly impressed, with longitudinal ridges. Thyridiae oblique, 1.0x as wide as their interval. 2nd tergite length 0.9x width (fig. 15). 2nd and 3rd tergites with dense puncture and fine central aciculation, matte; fourth tergite with fine superficial punctures, shining; following tergites almost smooth and strongly shining. Seen from dorsal, ovipositor sheaths c.0.75x as long as seventh tergite.

Color: black, metasoma without bluish shine. Ivory are stripes on flagellomeres 8-16, palps, mandibular bases, clypeus except median black spot, face except large black cen-

tral spot, genae, frontal and vertical orbits (narrowly interrupted), lower outer orbits, collare and upper margins of pronotum, subtegular ridges, spots on tegulae, small spots on lower mesopleura frontal to epicnemial carina, sides of scutellum, frontal sides of black fore and middle coxae, and fore and middle trochanters and trochantelli. Hind coxae and hind trochanters basally black, legs otherwise completely yellowish-red. Wings slightly infusate, pterostigmas blackish.

Remark: This new taxon is related to *C. birmanicus* HEINRICH, but differs by its completely reddish hind femora, black mesoscutum without ivory median stripes and small mesopleural spots instead of large and wide stripes. I have not seen the ♂ of *C. fulvipes* CAMERON, but given his detailed description I suppose that the available ♀ is conspecific.

***Coelichneumon (Coelichneumon) fulvipennoides* nov.sp.**

Holotypus: ♀ Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 25.04.2012, leg. C. Holzschuh & natives.

Paratypus: ♀ Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 05.05.2010, leg. C. Holzschuh & natives.

Description of ♀: Body length 24-25 mm. Flagella strongly lanceolate, with 51-52 flagellomeres, first flagellomeres (without anellus) length 1.8x width, sixth to seventh segments square, flagellomeres beyond the middle attenuated, widest ones 2.5-2.7x as wide as long. Temples moderately but almost linearly narrowed behind eyes (fig. 2). Clypeus, face and outer orbits densely punctate. Frons with scattered punctures. Distance of lateral ocelli to eyes c.1x as long as their diameter. Malar spaces c.0.6x as long as the width of mandibular bases. Hypostomal carinae not elevated.

Mesosoma with light brownish hairs. Mesoscutum with rather dense punctures and fine granulation, matte; mesopleura punctate. Scutellum moderately elevated, slightly wider than long, without lateral carinae, rather densely punctate. Propodeum rounded, area supermedia heart-shaped, about as long as wide, costulae obsolete. 1st lateral area of propodeum punctate and smoothened, propodeum otherwise rugulose-punctate (fig. 10). Area petiolaris with lateral carinae. Hind coxae densely punctate, with dense whitish hairs and indistinct apical scopa. Hind femora with lesser dense punctures in ventral third, length 3.5x height. 3rd tarsomeres of middle legs c.1.6x as long as wide. Areolets pentagonal, frontal distances of intercubiti about 3-4x their width, nervuli postfurcal.

Metasoma strongly oxypygous. Lateral fields of postpetiole c.0.9x as wide as median field, with scattered puncture, median field with c.12 fine striae. Gastrocoeli strongly impressed, with longitudinal ridges. Thyridia almost transverse, 1.3x as wide as their interval. 2nd tergite length 0.95x width (fig. 16). Tergites 2-4 with fine dense punctures, 2nd and 3rd tergites centrally matte and rugose, but without distinct longitudinal striation. Tergites 5-7 with superficial punctures, more shining. Seen from dorsal, ovipositor sheaths c.0.5x as long as seventh tergite.

Color: black. Ivory are stripes on flagellomeres 7-16, sometimes mandibular bases, sides of clypeus, genae, wide facial orbits that are almost confluent below the antenna, frontal orbits confluent with the vertical ones, lower outer orbits, collare and upper margins of pronotum, subtegular ridges, frontal marks on lower mesopleura, scutellum, fore and middle coxae and all trochanters and trochantelli (hind trochantellus brownish apically), sometimes small anterodorsal spots on hind coxae. Legs except coxae and trochanters

reddish-yellow; fore and middle femora and fore tibiae blackish caudally. Hind femora with ventro-apical black spots, hind tibiae and tarsi completely yellowish. Wings moderately infusate, pterostigmas blackish.

♂ unknown.

Remark: In the group of *Coelichneumon* species with completely black metasoma, the new species resembles *C. piceipennis* (MORLEY) syn. *fuscipennis* CAMERON, but differs by its larger size, completely yellow scutellum, ventro-apical blackish spots of hind femora and completely black mesosternum. The closely related *C. laoticus* RIEDEL 2013 differs by distinct notauli, large scopa on hind coxae, extensive yellow coloration, and completely yellow-red hind femora.

***Coelichneumon (Coelichneumon) hopponis* (MATSUMURANA, 1912)**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1♂ 16.IV.2012, 1♀ 29.IV.2012, 1♀ 6-11.IV.2012, leg. C. Holzschuh & natives (Linz and coll. Riedel).

Description of ♀: Body length 14 mm. Flagella slightly lanceolate, with 41 flagellomeres; first flagellomeres (without anellus) length 2.8x width; 12th segment square; flagellomeres beyond the middle attenuated, the widest 1.5x as wide as long. Temples parallel behind eyes, roundly narrowed caudally. Genae with scattered punctures. Distance of lateral ocelli to the eyes c.1.1x as long as their diameter. Malar spaces c.0.5x as long as the width of mandibular bases. Hypostomal carinae not elevated.

Mesosoma with long grey hairs. Mesoscutum, mesopleura and metapleura with rather dense punctures, shining. Scutellum flat, slightly wider than long, with lateral carinae in basal 0.3, with scattered puncture. Propodeum rounded, areae basalis and superomedia confluent, area superomedia hexagonal, costulae caudal to its middle (fig. 11). 1st lateral areae of propodeum punctate and largely smooth. Hind coxae densely punctate, with weak and indistinct scopa in apical 0.2. Hind femora punctate, with scattered punctures in the ventral half, length 3.7x height. 3rd tarsomeres of middle legs c.1.3x as long as wide.

Metasoma strongly oxypygous. Lateral fields of postpetiole about 0.5x as wide as median field, punctate; median field with coarsely punctured striae. Gastrocoeli strongly impressed, with longitudinal ridges. Thyridia oblique, c.0.8x as wide as their interval. 2nd tergite length 0.85x width (fig. 17). 2nd and 3rd tergites with dense punctures and fine central aciculation, matte; fourth tergite with fine superficial punctures, shining; following tergites almost smooth and strongly shining. Seen from dorsal, ovipositor sheaths c.0.65x as long as seventh tergite.

Color: Black. Ivory are palps, mandibular bases, rings on flagellomeres 8-15, clypeus except apical margin, face except triangular or rhombic black central spot, frontal orbits, wide outer orbits in the ventral 2/3, triangular vertical spots, collare, upper margins of pronotum, spots on tegulae, subtegular ridges, sides of scutellum, fore and middle coxae mainly, fore and middle trochanters and trochantelli completely, and hind trochanters partly. Legs completely reddish-yellow. Wings slightly infusate; pterostigma blackish.

♂: Body length 15 mm. Flagella with more than 40 segments (tips broken off); tyloids on flagellomeres 9-20, long-oval. Fore metatarsi without apical teeth; hind femora length 3.8x height. Area superomedia wider than long. 2nd tergite length 1.1x width. Clypeus

and face completely ivory, flagellomeres 9-17 with ivory stripes. Structure and coloration otherwise as in the ♀.

Remark: The available specimens differ slightly from the type (temples slightly wider, hind coxae without yellow spots) but seem to be conspecific. For a better understanding of this species, I give a description of the Laotic material here.

Distribution: Known from Japan and Taiwan, new for Laos.

***Coelichneumon (Coelichneumon) hormaleiscelus* ssp. *silvaemontis* HEINRICH, 1966**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 28.VI.2013, leg. C. Holzschuh & natives.

Distribution: Known from India, Myanmar and Laos (RIEDEL 2013).

***Coelichneumon (Coelichneumon) inutilis* HEINRICH, 1966**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 17.IV.2010, leg. C. Holzschuh & natives.

Distribution: Known from Myanmar, new for Laos.

***Coelichneumon (Coelichneumon) laoticus* RIEDEL, 2013, new ♂**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 29.IV.2012, leg. C. Holzschuh & natives.

Description of ♂: Body length 26 mm. Flagella bristle-shaped, with >47 segments (tips broken off). Tyloids on flagellomeres 7-23, long oval, situated in the center of segments. Notauli distinctly impressed in anterior third of mesoscutum. Fore metatarsi without apical teeth. Hind femora length 4.0x height, densely punctate. 2nd tergite length 1.1x width. Structure otherwise as described for the ♀ (RIEDEL 2013: 2035-2036).

Color patterns as in the ♀, but with more extensive ivory coloration: mandible almost completely, clypeus, face, genae and complete wide orbits, propleura, ventral halves of mesopleura, and mesosterna almost completely ivory. Legs except coxae and trochanters reddish-yellow, fore and middle femora and fore tibiae blackish caudally, hind femora completely reddish-yellow.

Distribution: Laos.

***Coelichneumon (Coelichneumon) lineiscutis* HEINRICH, 1966**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 10-14.V.2012, leg. C. Holzschuh & natives.

Distribution: Known from Myanmar, new for Laos.

***Coelichneumon (Coelichneumon) kosempensis* UCHIDA, 1932**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 1-3.VI.2009, 1♂ 18.IV.2012, 1♂ 21.IV.2012, 1♂ 28.IV.2012, leg. C. Holzschuh & natives.

Distribution: Known from China and Myanmar, new for Laos.

***Coelichneumon (Coelichneumon) maculiscutis* (CAMERON, 1905)**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 17.IV.2012, 1♂ 6.V.2011, 1♂ 29.VI.2013, leg. C. Holzschuh & natives.

R e m a r k : The ♂♂ differ from the described ♀ by yellow prescutellar ridges: Body length 20 mm; wings greyish infusate; flagellomeres 4-17 with yellow stripes on inner side.

D i s t r i b u t i o n : India and Myanmar, new for Laos.

***Coelichneumon (Coelichneumon) mandibularis* HEINRICH, 1966**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 13.V.2010, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Known from Myanmar, new for Laos.

***Coelichneumon (Intermedichneumon) ocellus* (TOSQUINET, 1903)**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 22.IV.2012, leg. C. Holzschuh & natives.

Var. hind femur black, with baso-dorsal reddish suffusion.

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 8.V.2010, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Widespread in Southeastern Asia, known for Laos (RIEDEL 2013).

***Coelichneumon (Coelichneumon) parachinicus* RIEDEL, 2013 new ♂**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 11.V.2010, leg. C. Holzschuh & natives.

D e s c r i p t i o n o f ♂: Body length 12.5 mm. Flagella with 42 segments; tyloids long oval, on flagellomeres 9-16. Temples moderately narrowed behind eyes. Fore metatarsi with small apical teeth. Hind femora length 4.0x height. 2nd tergite length 1.2x width. Thyridiae oblique, width 1.2x width of their interval.

Color: black. Cream-yellow are stripes on flagellomeres 9-19, palps, mandibles except teeth, clypeus, face, genae, narrow orbits (interrupted between frons and vertex), triangular spots on vertices, scapes ventrally, propleura, collare and upper margins of pronotum, spots on tegulae, subtegular ridges, large stripes on ventral mesopleura confluent with ventro-caudal spots on mesosterna, sides of scutellum, fore and middle coxae and trochanters and frontal sides of front and middle legs. Fore and middle femora, tibiae and tarsi blackish caudally. Hind coxae with small ventral yellow spots. Hind femora, tibiae and tarsi reddish-yellow. Wings infusate, pterostigmas black. Structure and coloration otherwise as described for the ♀ (RIEDEL 2013: 2037-2038).

D i s t r i b u t i o n : Known from China, new for Laos.

***Coelichneumon (Coelichneumon) piceipennis* (MORLEY, 1915)**

syn. *fuscipennis* CAMERON 1903, praeecc.

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 7-8.V.2010, 1♂ 22.IV.2012, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Known from India, new for Laos.

***Coelichneumon (Coelichneumon) popae* HEINRICH, 1966**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 21.V.2010, 1♂ 24.V.2011, 1♂ 26.V.2011, 2♂♂ 4.V.2012, 1♀ 10-14.V.2012, 1♀ 18.VI.2013, 1♂ 27.VI.2013, leg. C. Holzschuh & natives; Thailand, Chiangmai Zoo, 18°49'N 98°32'E, 1200 m, light trap, 1♂ 19-26.VI.1990, leg. Chantaramongkol & Malicky,

D i s t r i b u t i o n : Known from China, Myanmar, and Laos (RIEDEL 2013), new for Thailand.

***Coelichneumon (Coelichneumon) quinquemaculatus* (CAMERON, 1903)**

R e m a r k : A small but typical specimen, body length 13 mm.

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 6.V.2011, 1♀ 27.V.2011, 1♀ 29.IV.2012, leg. C. Holzschuh & natives; Laos, Hua Phan Prov., Phon Pan Mt., 1500 m, 20°12'N 103°59'E, 1♀ 10-22.V.2011, leg. S. Jakl.

D i s t r i b u t i o n : Known from China and Myanmar, new for Laos.

***Coelichneumon (Intermedichneumon) scopator* nov.sp.**

Holotypus: ♀ Laos, Hua Phan Prov., Phon-Pan, Umg. Ort Ban Saleui, 20°13'30''N 103°59'26''E, 1350-1900 m, 27.06.2013 KJa, leg. C. Holzschuh & natives (Linz).

Paratypes: ♀ Laos, Hua Phan Prov., Ban Saleui, Phon Pan-Mt, 20°13'30''N 103°59'26''E, 1350-1900 m, 08.05.2010, leg. C. Holzschuh & natives (coll. Riedel); ♂ Laos, Hua Phan Prov., Phon-Pan, Umg. Ort Ban Saleui, 20°13'30''N 103°59'26''E, 1350-1900 m, 02.07.2013 KJa, leg. C. Holzschuh & natives (Linz).

D e s c r i p t i o n of ♀: Body length 12-14 mm. Flagella moderately lanceolate, with 43 flagellomeres; 1st flagellomeres (without anellus) length 2.7x width, 13th segments square; flagellomeres beyond the middle attenuated, widest ones 1.6x as wide as long. Temples strongly and roundly narrowed behind eyes (fig. 3). Clypeus, face and frons with rather scattered punctures. Genae with very scattered punctures. Distance of lateral ocelli to eyes about 1x as long as their diameter. Malar spaces 0.7x as long as the width of mandibular bases. Genal carinae reaching the hypostomal ones close to mandibular bases.

Mesosoma with whitish hairs. Notauli impressed on frontal fifth of mesoscutum. Mesoscutum with rather dense punctures, shining; mesopleura and metapleura punctate, speculum smooth. Scutellum moderately elevated, wider than long, without lateral carinae, with scattered punctures. Propodeum rounded, areae basalis and superomedia confluent; area superomedia wider than long, hexagonal, costulae in the center (fig. 12). 1st lateral areae of propodeum punctate, area petiolaris with coarse rugose puncture. Hind coxae densely punctate, with strong scopa, length 1/3 of coxae. Hind femora with scattered to very scattered punctures, somewhat denser in the apical third, length 4.2x height. Areolets pentagonal, frontal distance of intercubiti about 2x their width, nervuli postfurcal.

Metasoma (fig. 18) strongly oxypygous. Postpetiolus strongly widened, lateral fields about as wide as median field, the latter coarsely aciculate. Thyridia oblique, very wide, about 2x as wide as their interval. 2nd tergite length 0.75x width, length of 3rd tergite 0.55x width. Tergites 2-4 with dense punctures and fine granulation, centrally with longitudinal rugae and striae, tergite 5 superficially punctate, following tergites almost smooth and strongly shining. Seen from dorsal, ovipositor sheath c.0.7x as long as the seventh tergite.

Color: black. Cream-yellow are stripes on flagellomeres 7-15, palps, mandibular bases, clypeus, face except M-shaped black central spot, genae, complete orbits, lateral spots on scapes, propleura, anterior and upper margins of pronotum, two longitudinal stripes on mesoscutum, subtegular ridges, spots on tegulae, lower mesopleura behind epicnemial carinae, ventro-apical spots of mesosterna, carinal triangles, caudal 2/3 of metapleura, sides of scutellum, postscutellum, spots on dentiparal areae, large posterolateral spots on postpetiolus and tergites 2-5 (medially confluent on tergite 5), narrow membranous apical margins of tergites 6 and 7. Fore and middle legs yellowish, femora and tibiae with brown stripes caudally, fore and middle tarsi brown. Hind legs black, hind coxae with small dorsal and ventro-apical yellow spots, hind femora chestnut-brown basally, becoming blackish in the apical 2/3, hind tibiae with subbasal ivory rings. Pterostigmas blackish-brown.

Description of ♂: Body length 11 mm. Flagella with 38 segments; tyloids linear, on flagellomeres 9-19. Hind femora length 3.9x height, punctate, with scattered punctures basally and ventrally. Tergites 2-5 with coarse puncture, tergites 2-4 with central aciculation; tergites 6-7 with finer, but distinct puncture. Structure otherwise as in ♀.

Color: black. Pale yellow are palps, mandibles except teeth, clypeus and face completely, orbits (with interruption between vertex and frontal orbit), two short mesoscutal stripes, and small posterolateral spots on tergites 1-5. Tergites 6 and 7 completely black. Hind femora black. Color otherwise as in ♀.

Remark: The combination of both sexes remains questionable, since there are considerable differences of the structure and coloration of the metasoma: the metasoma of the ♂ is stronger punctate than in the ♀ ♀ and the yellow coloration is reduced in the available ♂. However, structural features and color patterns of head and mesosoma are comparable.

Distribution: Laos.

Coelichneumon (Intermedichneumon) superomediae nov.sp.

Holotypus: ♀ Laos, Hua Phan Prov., Phon-Pan, Umg. Ort Ban Saleui, 20°13'30''N 103°59'26''E, 1350-1900 m, 15.06.2013 KJa, leg. C. Holzschuh & natives (Linz).

Description of ♀: Body length 12 mm. Flagella moderately lanceolate, with 41 flagellomeres; 1st flagellomeres (without anellus) length 2.9x width, 13th segments square, flagellomeres beyond the middle attenuated, widest ones 1.8x as wide as long.

Temples strongly and roundly narrowed behind eyes (fig. 4). Clypeus, face and frons with rather scattered puncture. Genae with very scattered puncture. Distance of lateral ocelli to the eyes about 1x as long as their diameter. Malar spaces about 0.4x as long as the width of mandibular bases. Genal carinae reaching the hypostomal ones close to mandibular bases.

Mesosoma with whitish hairs. Notauli impressed on frontal fourth of mesoscutum. Mesoscutum with rather dense punctures and fine granulation, but shining; mesopleura and metapleura punctate, speculum smooth. Scutellum moderately elevated, wider than long, with lateral carinae in the basal 0.3, with scattered puncture. Propodeum rounded, areae basalis and superomedia confluent, costulae behind the center of area superomedia (fig. 13). 1st lateral areae of propodeum with fine striation and some punctures, area

petiolaris with coarse puncture. Hind coxae densely punctate, without scopa. Hind femora densely punctate, length 4.0x height. Areolets pentagonal, frontal distance of intercubiti about 2x their width, nervuli postfurcal.

Metasoma (fig. 19) strongly oxypygous. Postpetiolus strongly widened, lateral fields about as wide as median field, the latter coarsely aciculate. Thyridia oblique, very wide, about 2x as wide as their interval. 2nd tergite length 0.9x width, length of 3rd tergite 0.6x its width. Tergites 2-5 with dense puncture and fine granulation, tergites 2-4 centrally with longitudinal rugae and striae, following tergites almost smooth and strongly shining. Seen from dorsal, ovipositor sheath c.0.7x as long as the seventh tergite.

Color: black. Cream-yellow are stripes on flagellomeres 7-17, palps, mandibular bases, clypeus, face except M-shaped black central spot, genae, complete orbits, lateral spots on scapes, propleura, anterior and upper margins of pronotum, two longitudinal stripes on mesoscutum, subtegular ridges, tegulae, lower mesopleura behind epicnemial carina, ventro-apical spots of mesosterna, carinal triangles, caudal 2/3 of metapleura, sides of scutellum, postscutellum, area superomedia confluent with wide spots on dentiparal areae, cranial spots on areae spiraculiferae, hind part of postpetiolus, large posterolateral spots on tergites 2-5 (almost confluent on tergites 4-5), narrow apical bands on tergites 6 and 7. Fore and middle legs yellowish, femora and tibiae with brown stripes caudally, fore and middle tarsi brown. Hind legs black, hind coxae with dorsal and ventro-apical yellow spots, hind femora reddish, black in the apical 0.2 and with diffuse yellowish marks ventrally, hind tibiae with subbasal ivory rings. Pterostigmas blackish-brown.

♂ unknown.

Remark: This new species is closely related to *C. scopator* nov.sp., but can be differentiated by the lack of scopa on hind coxa, form and color of area superomedia, narrower malar space, and slightly different coloration of metasoma.

Distribution: Laos.

***Coelichneumon (Coelichneumon) taihorinus* UCHIDA, 1932**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 27-28.IV.2010, 1♀ 19.VI.2013, leg. C. Holzschuh & natives.

Distribution: Known from India, new for Laos.

***Coelichneumon (Coelichneumon) tonkinensis* RIEDEL, 2013**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 17.V.2011, leg. C. Holzschuh & natives.

Remark: The species differs from the ♂♂ of *Coelichneumon albonotatus* CAMERON by its more extended ivory coloration which resembles the description of *Coelichneumon cyaniventrops* HEINRICH, but in contrast to the described ♀♀ of *C. cyaniventrops*, coloration of head and mesosoma of this taxon is as strongly metallic-bluish as the metasoma.

Distribution: Known from Vietnam, new for Laos.

***Coelichneumon (Coelichneumon) tricoloripes* HEINRICH, 1966**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 10-14.V.2012, leg. C. Holzschuh & natives; Vietnam: Cao Bang prov., Phia-Oac Mts., c.1000 m, 105°52'N 22°34'E, 1♂ 12.IV.2011, leg. E. Jendek.

R e m a r k : Hind femora completely black, coloration otherwise as described by HEINRICH (1966: 216-217).

D i s t r i b u t i o n : Known from Myanmar, new for Laos and Vietnam.

***Coelichneumon (Coelichneumon) victorianus* HEINRICH, 1966**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 5.V.2011, 1♀ 27.V.2011, 1♀ 12.IV.2012, 1♂ 18.IV.2012, 1♂ 23.IV.2012, 1♂ 6-11.IV.2014, 1♀ 11-18.IV.2014, 1♀ 30.IV.2014, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Known from Myanmar, new for Laos.

***Cobunus laoticus* RIEDEL, 2013**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♀ 1.V.2012, leg. C. Holzschuh & natives.

R e m a r k : Flagella with 43 segments, first flagellomeres length 3.5x width, widest flagellomeres slightly wider than long. Area superomedia about 3x wider than long.

D i s t r i b u t i o n : Known from Laos (RIEDEL 2013).

***Cratojoppa nigratarsis* HEINRICH, 1934**

M a t e r i a l : Indonesia, South Sulawesi, Toraya-Land, Rantepao, Puncak, 1000 m, 1♂ 21-24.II.1994, leg. Oehlke.

R e m a r k : Body length 18 mm; scutellum with lateral carinae, hind femora yellow-red basally, getting darker apically, at apex almost blackish. Otherwise as described by HEINRICH (1934: 150).

D i s t r i b u t i o n : Only known from Sulawesi.

***Dimaetha ferruginea* (CAMERON, 1902)**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 2♀♀ 14-18.IV.2010, 1♀ 2-3.V.2011, 1♀ 11.V.2011, 1♂ 11-12.IV.2012, 1♀ 16.IV.2012, 1♀ 2.V.2012, 1♀ 10.V.2012, 1♂ 19.VI.2013, 1♀ 4♂♂ 28-29.VI.2013, leg. C. Holzschuh & natives.

D e s c r i p t i o n o f ♀: Body length 18-20 mm. Flagella lanceolate, with 43 segments; 1st flagellomere length 2.8x width, widest flagellomeres 2x wider than long. Temples linearly narrowed behind eyes. Distance of lateral ocelli to eyes 0.8x their diameter. Malar spaces 0.5x as long as width of mandibular bases. Scutellum ± conical, with fine lateral carinae, with fine striation laterally. Hind coxae with large scopa, hind femora length 4.6x width, with scattered punctures in the ventral half. Areolets quadrangular, nervuli postfurcal. 2nd tergite length 1.4x width.

♂: Flagella with 44 segments. Tyloids on flagellomeres 9-19, shortly oval, length 1/3 of segment length.

D i s t r i b u t i o n : Known from India, new for Laos.

***Euheresiarches amoenus* HEINRICH, 1970, new ♂**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 4.V.2011, 2♂♂ 2.VII.2013, leg. C. Holzschuh & natives.

R e m a r k : Body length 17 mm. Flagella with 43 segments, first flagellomeres length 2.8x width; tyloids long-oval, on flagellomeres 11-18. Face and clypeus completely ivory, flagellomeres 12-18 with ivory stripes. Tergites 1-3 red, fourth tergite black with red sides. Otherwise as described for the ♀ (HEINRICH 1970: 90-92).

D i s t r i b u t i o n : Known from Myanmar, new for Laos.

***Facydes purpureomaculatus* CAMERON, 1901**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 2♀♀ 25.IV.2012, 1♂ 9.V.2012, 1♂ 10-14.V.2012, leg. C. Holzschuh & natives.

R e m a r k : The available ♂♂ have transverse blackish stripes on the bases of 2nd and 3rd tergites, the coloration is otherwise typical.

D i s t r i b u t i o n : Known from China, India and Myanmar, new for Laos.

***Holcojoppa orientalis* (KRIECHBAUMER, 1898)**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 2♂♂ VI.2009, 1♂ 19.IV.2010, 1♂ 21.V.2010, 1♀ 27.VI.2011, 1♀ 4♂♂ V.2011, 1♀ 2♂♂ IV.2012, 1♀ 2.V.2012, 2♂♂ 13-16.VI.2013, 3♀♀ 3♂♂ 1-5.VII.2013, leg. C. Holzschuh & natives (Linz and coll. Riedel).

D i s t r i b u t i o n : Known from China, India, and Laos.

***Holcojoppa tricephala* (UCHIDA, 1940)**

M a t e r i a l : Thailand, Nan near entrance of MaeCharim NP, 18°36'0''N 100°58'34'' E, 260 m, 1♂ 24.V.2012, leg. E. & J. Hüttinger.

D i s t r i b u t i o n : Known from China, new for Thailand.

***Ileanta laotica* nov.sp.**

Holotypus: ♀ Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 2.V.2012, leg. C. Holzschuh & natives (Linz).

D e s c r i p t i o n o f ♀: Body length 16 mm. Flagella lanceolate, with 42 segments. 1st flagellomere length 3.1x width, widest flagellomeres about 1.8x wider than long. Temples strongly narrowed behind eyes, length 0.35x eye width. Distance of lateral ocelli from eyes 1.0x their diameter. Length of malar space 0.3x width of mandibular bases. Sides of pronotum punctate dorsally, smooth ventrally. Mesoscutum densely and superficially punctate, finely granulate, but shining. Mesopleura and metapleura punctate, smooth between punctures. Scutellum flat, with scattered puncture, carinate in the basal 0.7. Structure of propodeum see fig. 6. Hind coxae punctate, with strong scopa. Hind femora punctate but almost smooth in the ventral half, length 4.0x width. Hind metatarsi lamelliform extended in their middle (fig. 7). Areolets almost quadrangular. Metasoma strongly oxygyous. Postpetiole punctate laterally and striate centrally. Thyridiae width 1.0x width of their interval, interval as wide as median field of postpetiolus. 2nd tergite length 1.05x width. 2nd and 3rd tergites punctate and strongly aciculate centrally, fourth tergite with fine basal aciculation (fig. 5). Tergites 5-7 almost smooth.

Color: Black with extensive pale yellow coloration. Cream-yellow are head (except black median frons, ocellar field and occiput), flagellomeres 9-15, scapes ventrally, propleura, anterior and upper margins of pronotum, two longitudinal stripes on mesoscutum, ventral halves of mesopleura (confluent at epicnemial carina), prescutellar carinae, sides and apex of scutellum, carinal triangles, frontal spots on areae spiraculiferae, hind carinae of areae dentiparae, posterolateral triangular spots on tergites 1-3, apical spot on tergite 6, tergite 7 completely, 1st sternite, membranous folds on sternites 2-4, and apical margins of all sternites, fore and middle coxae, all trochanters and trochantelli, ventral stripes on hind coxae, fore and middle legs (except brownish caudal stripes). Hind legs black, hind tibiae with brownish-yellow subbasal rings. Pterostigmas dark brown.

Remark: This new taxon is closely related to *I. trochanterata* CAMERON (description see HEINRICH, 1969: 109-110) but differs by its completely black fourth tergite, black area superomedia, yellow stripes on mesoscutum and subbasal yellowish ring of hind tibiae.

***Naenaria dubiosa* HEINRICH, 1968**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1 ♀ 20.VI.2013, leg. C. Holzschuh & natives.

R e m a r k : Body length 20 mm. Flagellomeres 4-14 with ivory stripes. Hind femora black, narrowly yellowish at base. Otherwise as described by Heinrich (1968: 205-206).

D i s t r i b u t i o n : Known from Myanmar, new for Laos.

***Naenaria grandiceps* CAMERON, 1903**

M a t e r i a l : Vietnam, Cao Bang pr., Phia-Oac Mts., c.1000 m, 22°34'N 105°52'E, 2 ♀ ♀ 12.IV.2011, leg. E. Jendek.

D i s t r i b u t i o n : Widespread in Southern and Southeastern Asia, new for Vietnam.

***Naenaria javanica* HEINRICH, 1934**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1 ♀ 24.IV.2010, 1 ♀ 25.V.2010, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Known from Indonesia and Myanmar, new for Laos.

***Naenarides malaisei* HEINRICH 1969, new ♀**

M a t e r i a l : ♀ Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1 ♀ 7.V.2011, leg. C. Holzschuh & natives.

D e s c r i p t i o n o f ♀ : Body length 13 mm. Flagella lanceolate, with 41 segments. 1st flagellomeres length 4.2x width, seventeenth flagellomeres square, widest ones 1.7x wider than long. Malar spaces c.0.7x as long as width of mandibular bases. Genal carinae reaching the hypostomal ones near mandibular bases (distance 0.3x malar length). Epicnemial carina slightly bent towards fore coxae ventrally, but not elevated. Area superomedia hexagonal, slightly longer than wide, costulae in the center. Hind femora length 4.5x height. Hind tibiae with about 7 denticular spurs on outer sides. 2nd tergite about as long as wide. Tergites densely punctate, without distinct aciculation. Structure otherwise as described by HEINRICH (1969: 124-126).

Color: black. Ivory are stripes on flagellomeres 9-16, scapes ventrally, head (except frons centrally, ocellar space and occiput), anterior and upper margins of pronotum, propleura, spots on tegulae, subtegular ridges, prescutellar carinae, scutellum and postscutellum, ventral parts of mesopleura and complete mesosterna, upper hind edges of mesopleura, carinal triangles, oblique transversal stripes on dentiparal areae, apical bands on all tergites (centrally narrowed on tergites 1-5), sternites except lateral dark spots (hypopygium black), fore and middle coxae and trochanters, ventral halves and antero-dorsal spots of hind coxae. Legs reddish-yellow, fore and middle femora apically, fore and middle tibiae frontally and hind trochanters partly brownish. Hind femora infusate in apical 0.25. Hind tibiae yellowish, infusate in apical 0.2. Hind tarsi pale yellowish. Pterostigmas black.

D i s t r i b u t i o n : Known from Myanmar, new for Laos.

***Neofacydes bonthaiensis* ssp. *celebensis* (HEINRICH, 1934)**

M a t e r i a l : Indonesia, South Sulawesi, Toraya-Land, Rantepao, Puncak, 1000 m, 1♀ 21-24.II.1994, leg. Oehlke.

D i s t r i b u t i o n : Only known from Sulawesi.

***Neofacydes nigroguttatus* (UCHIDA, 1935) comb.rev.**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, multiple ♀♀ and ♂♂ IV-V.2010-2014, leg. C. Holzschuh & natives.

R e m a r k : This species has been transferred to *Facydes* (see YU et al. 2012), but the genal carinae reach the hypostomal ones far from the mandibular bases and the tergites are ± constricted basally. Using the recent key of SIME & WAHL (2002), the available material has to be re-placed in the genus *Neofacydes* in my opinion.

D i s t r i b u t i o n : Known from China and Japan, new for Laos.

***Protichneumon charlottae* HEINRICH, 1966**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1♀ 2-3.V.2011, leg. C. Holzschuh & natives.

D i s t r i b u t i o n : Known from Myanmar, new for Laos.

***Protichneumon flavoornatus* (CAMERON, 1903)**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1♀ 10-19.V.2009, 1♂ 4.V.2011, 1♀ 27.V.2011, 1♂ 17.IV.2012, 1♀ 22.IV.2012, 1♂ 26.IV.2012, leg. C. Holzschuh & natives.

Remark: Extension of reddish coloration of metasoma variable: 1st tergite often ± blackish, sometimes also the 3rd tergite.

D i s t r i b u t i o n : Known from India and Myanmar, new for Laos.

***Protichneumon moiwanus* (MATSUMURANA, 1912)**

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30"N 103°59'26"E, 1350-1900 m, 1♂ 17.IV.2012, 1♂ 18.IV.2012, leg. C. Holzschuh & natives.

R e m a r k : Large specimens, body length 27-28 mm. Color black; postpetiolus

apically and 2nd and 3rd tergites reddish-yellow, the latter black apically. Yellow are stripes on flagellomeres 9-20, palps, mandibles except teeth, clypeus, face, frontal orbits confluent with triangular spots on vertex, outer orbits ventrally, scapes ventrally, collare, ventral spots on propleura, upper margins of pronotum, subtegular ridges, scutellum, large spots on mesopleura. Fore and middle coxae and all trochanters yellow, hind coxae with yellow spots ventrally and dorsally. Legs otherwise completely reddish-yellow. Wings slightly infusate, pterostigmas black.

D i s t r i b u t i o n : Known from China and Japan, new for Laos.

Pseudocillimops mesonotator nov.sp.

Holotypus: ♀ Laos, Hua Phan Prov., Umg. Ort Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 28.06.2013 KJa, leg. C. Holzschuh & natives (Linz).

Description of ♀: Body length 15 mm. Flagella with more than 30 segments (tips broken off), slightly lanceolate. 1st flagellomeres length 3.7x width, widest flagellomeres about 1.8x wider than long. Temples slightly widened behind eyes and moderately narrowed apically. Lower mandibular teeth small and moderately bent inwards. Notali impressed on frontal third of mesoscutum. Scutellum as long as wide, moderately convex, with lateral carinae in basal 0.7. Propodeum as described for the genus (HEINRICH, 1969: 121-122). Area superomedia c.2x as long as wide, costulae in the middle. Hind coxae with distinct pale-haired scopa. Hind femora length 4.3x height. Areolets pentagonal, frontal distances of intercubiti 2x their width, nervuli slightly postfurcal.

Metasoma oxypygous. Postpetiole moderately widened, its lateral fields punctate, median field with fine and superficial aciculation. 2nd tergite length 1.2x width. Thyridia oblique, c.1.3x wider than their interval. Interval about as wide as the median field of postpetiole. Tergites punctate, tergites 2-4 with very coarse and regular aciculation centrally, fifth tergite aciculate in the basal half. Ovipositor sheaths extending behind metasomal apex by the length of the seventh tergite.

Color: black. Ivory are stripes on flagellomeres 7-14, palps, clypeus, face, genae, wide orbits completely, spots on scapes, apical spots on propleura, anterior and upper margins of pronotum, two short longitudinal stripes on mesoscutum, subtegular ridges, tegulae, wide stripes on ventral mesopleura almost confluent ventrally at epicnium, small ventro-caudal spots on mesosterna, scutellum (except basal black spot), postscutellum, carinal triangles, apico-ventral spots on metapleura, spots on areae dentiparae, hind margin of postpetiole. Tergites and sternites 2-4 red. Legs black. Ivory are fore and middle coxae and trochanters, frontal stripes on fore and middle femora, tibiae and metatarsi, antero-dorsal and apical spots on hind coxae, wide subbasal rings on hind tibiae basal three hind tarsomeres except narrow black apices. Pterostigmas black.

♂ unknown.

D i s t r i b u t i o n : Laos.

Queequeg flavibasalis (UCHIDA, 1932)

M a t e r i a l : Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 2♂♂ VI.2009, 1♂ 14-18.IV.2010, 1♀ 25.V.2010, 2♂♂ 12.V.2011, 1♂ 1.VI.2011, 4♂♂ 17-21.IV.2012, 1♀ 1-2.VII.2012, 1♂ 10-11.IV.2014, 1♂ 19-21.IV.2014, leg. C. Holzschuh & natives.

Remark: Usually hind tibiae on outer side with apical blackish stripes and hind tarsi blackish, sometimes also hind femora, in 1♂ tergites 3-7 blackish instead of red.

Distribution: Known from China, Taiwan, and Laos.

***Trogichneumon annaeliesae* HEINRICH, 1968**

Material: Laos, Hua Phan Prov., Ban Saleui, Phon-Pan-Mt., 20°13'30''N 103°59'26''E, 1350-1900 m, 1♂ 6.V.2011, 1♂ 17.IV.2012, 1♂ 29.IV.2012, 1♂ 30.IV.2012, 1♀ 27.VI.2013, leg. C. Holzschuh & natives.

Remark: Flagella with 46 segments; flagellomeres 1-8 with reddish-yellow stripes ventrally.

Distribution: Known from Myanmar, new for Laos.

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Zusammenfassung

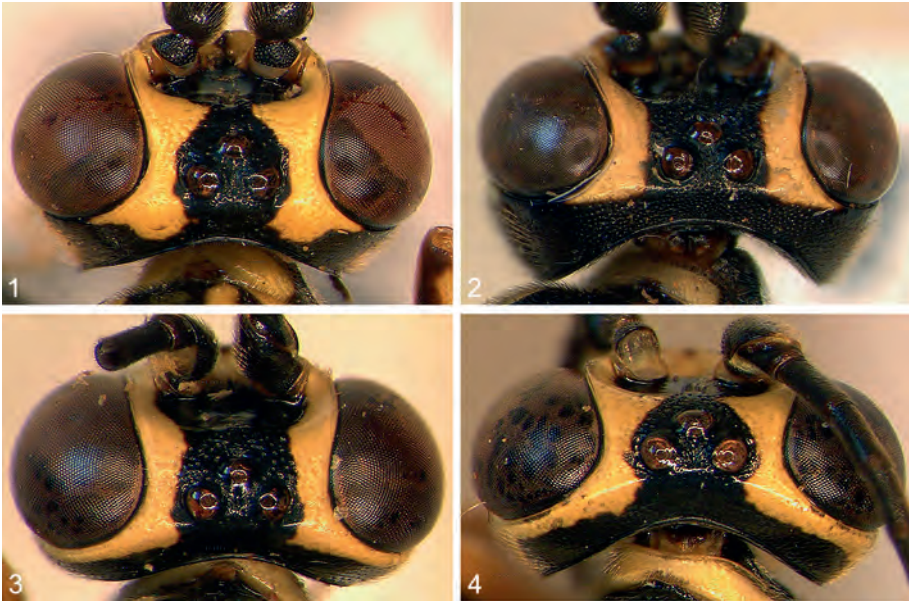
In der vorliegenden Arbeit werden insgesamt 62 Arten der Tribus Heresiarchini (Hymenoptera: Ichneumonidae, Ichneumoninae) aus der orientalischen Faunenregion, überwiegend aus Laos besprochen. Sieben Taxa werden neu beschrieben: *Aglaojoppa parafemorata* nov.sp., *Coelichneumon fulvipennoides* nov.sp., *Coelichneumon scopator* nov.sp., *Coelichneumon superomediae* nov.sp., *Ileanta laotica* nov.sp. und *Pseudocillimops mesonotator* nov.sp. Die unbekannten ♀♀ von *Aglaojoppa violaceipennis* CAMERON 1903, *Coelichneumon fulvipes* CAMERON 1903 und *Naenarides malaisei* HEINRICH 1969 werden erstmals beschrieben, ebenso die bisher unbekannten ♂♂ von *Coelichneumon laoticus* RIEDEL 2013, *Coelichneumon parachinicus* RIEDEL 2013 und *Euhesiararches amoenus* HEINRICH 1970. *Neofacydes nigroguttatus* (UCHIDA 1935) wird wieder in die Gattung *Neofacydes* HEINRICH gestellt.

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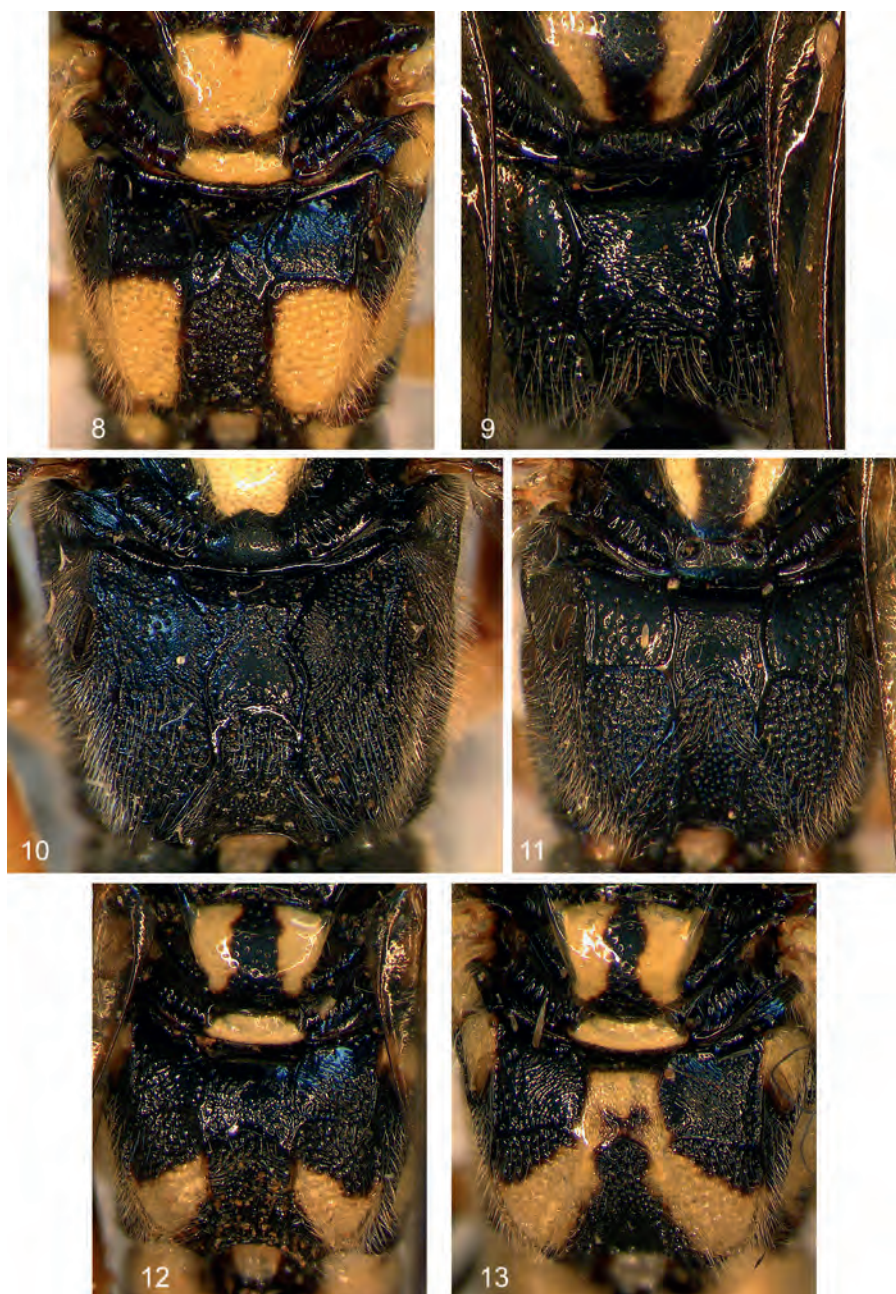
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Figs 1-4: Heads seen from dorsal of: (1) *Aglaojoppa parafemorata* nov.sp. HT, (2) *Coelichneumon fulvipennoides* nov.sp. HT, (3) *Coelichneumon scopator* nov.sp. HT, (4) *Coelichneumon superomediae* nov.sp. HT.



Figs 5-7: *Ileanta laotica* nov.sp. HT: (5) metasoma, (6) propodeum, (7) hind metatarsus.



Figs 8-13: Propodeum of ♀♀ of: (8) *Aglaojoppa parafemorata* nov.sp. HT, (9) *Coelichneumon fulvipes* (CAMERON), (10) *Coelichneumon fulvipennoides* nov.sp. HT, (11) *Coelichneumon hopponis* (MATSUMURANA), (12) *Coelichneumon scopator* nov.sp. HT, (13) *Coelichneumon superomediae* nov.sp. HT.



Figs 14-19: Metasomal tergites of ♀♀ of: (14) *Aglaojoppa parafemorata* nov.sp. HT, (15) *Coelichneumon fulvipes* (CAMERON), (16) *Coelichneumon fulvipennoides* nov.sp. HT, (17) *Coelichneumon hopponis* (MATSUMURANA), (18) *Coelichneumon scopator* nov.sp. HT, (19) *Coelichneumon superomediae* nov.sp. HT.

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