

The sawfly subfamilies Blennocampinae and Nematinae from Laos (Hymenoptera: Tenthredinidae)

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HARIS, A.: *The sawfly subfamilies Blennocampinae and Nematinae from Laos (Hymenoptera: Tenthredinidae)*. **Abstract:** 14 Blennocampinae and Nematinae sawfly species are reported from Laos. *Blennocampa gusenleitneri* spec. nov. and *Pristiphora kubani* spec. nov. are described.

Keywords: Hymenoptera, Tenthredinidae, Laos, new species

Introduction

This is the 7th paper on the sawfly-fauna of Laos. The investigation of the sawflies of the country was initiated by (TURNER 1919, 1920) who published 2 papers on the former Indochina which included the present territory of Laos, based on the results of the Vitalis de Salvaza expeditions. 87 years later, HARIS and ROLLER (2007) reported 25 sawfly species from the country including 11 new species for the science. In 2013, HARIS (2013) published a study on the *Tenthredo* Linné, 1758 fauna of Laos. In the recent book, further 3 papers take place including the Blennocampinae and Nematinae species. In this paper, further 14 sawfly species are reported.

Material and methods

The studied material was collected by Dr. C. Holzschuh, J. Bezedek, E. Jendek and V. Kuban with the help of local volunteers between 1999 and 2011. It amounts 35 specimens. For the identification of the species, we consulted the comprehensive works of HARIS 2006a,b, SAINI 2006 and WEI 1994 completed with numerous papers as follows: HARIS and ROLLER 1999, 2007, NIU and WEI 2009, WEI 1994, 2006, WEI and LIN 2005, WEI and NIE 1998, 2003, 2003, XIAO et al. 1997 and many others. Holotypes are deposited in the Biologiezentrum Linz, Austria.

List of species

Blennocampinae

Eutomostethus albotegularissimus Haris, 2006: 1200 m, Louang Phrabang pr., Ban Song Cha env., May 1999, 1 female.

Eutomostethus minutus M.S. Saini & Vasu, 1996: Hua Phan Prov., Ban Saleui, Phou Pan Mt., 20°13'30"N, 103°59'26"E, 1350-1900 m, 11. 05. 2011, 1 female; 01. 06. 2011, 1 female; 30. 05. 2011, 1 female; Hua Phan Prov., Ban Saleui, Phou Pan Mt., 20°15' N, 104°02', 1500-2000 m, 26. 04-11. 05. 2001, 1 female.

Eutomostethus metallicus (Sato, 1928): Boli Kham, Xai prov., 18°21'N, 105°08'E, Hua Phan Prov., Ban Nape (8 km NE), 01-18. 05. 2001; Louang Phrabang pr., Ban Song Cha env., 1200 m, May 1999, 1 male.

Eutomostethus thaianus (Togashi, 1982): Hua Phan Prov., Ban Saleui, Phou Pan Mt., 20°13'30"N, 103°59'26"E, 1350-1900 m, 11. 05. 2011, 1 female; 12. 05. 2010, 1 female.

Neoclia siametica (Forsius, 1933): Hua Phan Prov., Ban Saleui, Phou Pan Mt., 20°13'30"N, 103°59'26"E, 1350-1900 m, 17. 05. 2011, 1 female; 08. 05. 2011, 1 female; 05. 05. 2011, 1 female; 10-22. 05. 2011, 1 male.

Senoclidea decora (Konow, 1898): Hua Phan prov., Phu Loei N. P. Ban Sakok, 20°10'N, 103°12'E, 23-26. 05. 2001, 1 male; Hua Phan Prov., Ban Saleui, Phou Pan Mt., 20°13'30"N, 103°59'26"E, 1350-1900 m, 14-06. 06. 2009, 1 female;

Siniara bicolor Malaise, 1964: Hua Phan Prov., Ban Saleui, Phou Pan Mt., 20°13'30"N, 103°59'26"E, 1350-1900 m, 01. 05. 2010, 2 females, 1 male; 30. 04. 2010, 1 female; 20. 04. 2010, 1 female; 02-03. 05. 2011, 3 females; 06. 05. 2011, 1 female; 10-22. 05. 2011, 1 female; 11. 05. 2011, 1 female; 08. 05. 2011, 1 female, 01. 05. 2011, 2 males; 05. 05. 2011, 1 male.

Monophadnus bicoloritonkinensis Haris, 2006 (description of the unknown male) Laos NE., Hua Phan prov., Ban Saleui: Phu Phan Mt., 20°15'N, 104°02'E, 1500-2000 m, 26. 04.-11. 05. 2001, J. Bezedek leg.

Head and antenna black, white: wide anterior margin of clypeus, labrum and palpi (basal 2 joints of palpus mandibularis brownish white). Thorax black, yellow: hind and lateral margin of pronotum, tegula. Cenchr brownish white. Coxae reddish yellow with black base, trochanters white, femora reddish yellow, apically white, base of anterior and middle tibiae white, other parts of tibiae whitish brown. Hind tibia dominantly white, apex whitish brown with narrow black apical line. Anterior and middle tarsi whitish brown, hind tarsi black. Clypeus truncate. Hind margin of propodeum, tergites 2-5 and sides of tergite 6 and sternites 2-6 yellowish red, other parts of propodeum and abdomen black. Wings moderately brown infuscate. Costa, subcosta, stigma and venation blackish brown. Head contracted behind eyes. Gena linear. Head smooth and shiny. Frontal area sunken. Supraantennal tubercles large, about as large as median ocellus. OOL : POL : OCL: 9 : 5 : 7. Antenna thick and short, shorter than head and thorax combined (about as long as head and partly thorax till end of mesoscutellar appendage), relatively thick. Ratios of antennal segments: 10 : 9 : 20 : 15 : 15 : 12 : 10 : 10 : 11. Postoscapital carina weakly developed reaching up to middle of eyes. Frontal area laterally well bordered with parallel blunt ridges. Basal and first recurrent vein subparallel. Number of cubital cells 4. Cubital vein of anterior wing straight and simple. Hind wing without closed middle cells. Anal cell of hind wing with long petiole. Nervulus of hind wing running into petiole of anal cell far from apex of anal cell. Mesonotal lobes, mesoscutellum, mesoscutellar appendage, metascutellum and mesopleuron smooth and shiny. Mesoscutellum flat. Membraneous triangular spot of propodeum well developed. Mesopleuron without

prepectus (but postspiracular sclerite well separated by deep furrow). Propodeum smooth and shiny. Other tergites with fine, shallow surface sculpture, shiny. Anterior tibial spur bifurcate. Claws without basal lobe with minute inner tooth in middle. Length of inner hind tibial spur : length of hind basitarsus: 4 : 15. Length: 5.0 mm.

Nematinae

Cladius (Priophorus) brullei (Dahlbom, 1835): Hua Phan Prov., Ban Saleui, Phou Pan Mt., 20°13'30"N, 103°59'26"E, 1350-1900 m, 04. 05. 2011, 1 male.

Craesus orientalis Rohwer, 1921: Phongsaly prov., Phongsaly, cca. 1500 m., 21°41' N, 102°06' E, 28. 05.-20. 06. 2003, 1 female.

Pristiphora chalybeata Benson, 1963: Hua Phan Prov., Ban Saleui, Phou Pan Mt., 20°13'30"N, 103°59'26"E, 1350-1900 m, 30. 05. 2011, 1 female.

Pristiphora longitangia Wei & Nie, 1998: Phongsaly prov., Phongsaly, cca. 1500 m., 21°41' N, 102°06' E, 28. 05.-20. 06. 2003, 1 female.

Descriptions of the new species

Blennocampa gusenleitneri spec. nov. (Figs. 2, 3 and 4)

Holotype: female, Laos centr., Boikhamsai prov., Pakkading env., 18°19'N, 103°59'E, Nov. 2000, E. Jendek leg. Paratype: female, topotypic.

Head black, labrum brown, palpi yellowish white. Antenna black, scape yellowish brown, pedicell dark brown. Thorax and abdomen black, wide hind corner of pronotum and tegula yellowish white. All legs from base of coxa till last tarsal segments completely yellowish white only narrow apical ring of hind tibia pale brown. Wings subhyaline, stigma, costa, subcosta and veins dark brown. Ratios of antennal segments: 10 : 10 : 20 : 16 : 16 : 10 : 8 : 7 : 7. Pedicell elongated. Ocelli far from each other. OOL : POL : OCL: 9 : 10 : 9. Gena nearly linear, about 0.4x time as wide as diameter of anterior ocellus. Frontal area not bordered only gently elevated. Clypeus slightly and widely emarginated, clypeal emargination about 0.3x as deep as clypeal median length. Frontal area densely and moderately deeply punctured with moderately large punctures, shiny. Temples and vertex shiny, with sparser punctures, moderately deeply and sporadically wrinkled, shiny. Postoccipital carina very short, hardly reaching lower corner of eye. Mesonotal lobes nearly smooth and shiny, with moderately large, sporadic, shallow punctures. Mesoscutellum, mesoscutellar appendage, metascutellum and mesopleuron smooth and shiny. Mesoscutellum flat. Prepectus absent. Number of cubital cells 4. Vein 2A+3A straight. Hind wing without closed middle cell. Radial cell of hind wing closed. Hind wing without closed middle cell. Anal cell of hind wing with long petiole. Abdomen shiny from 2nd tergite with undefined fine surface sculpture. Inner hind tibial spur short. Sawsheath in Fig. 2. Length of inner hind tibial spur : apical width of hind tibia : 1.0 : 1.0. Basitarsus as long as other 4 tarsal joint combined (except claw). Claws without basal lobe, subapical tooth slightly shorter than apical (Fig. 3). Length: 4.4 mm.

The new species is dedicated to Dr. Fritz Gusenleitner

For long time, only *Blennocampa pusilla* (Klug, 1816) represented the only *Blennocampa* Hartig, 1837 species. This species is also known as *Blennocampa phyl-*

locolpa Viitasaari & Vikberg, 1985. Since *B. pusilla* (Klug) is an important pest of horticulture and this pest is a subject of agricultural plant protection in universities, we suggest to preserve the original name given by Klug. Two other recently described oriental species are also completely correspond to the generic definition of genus *Blennocampa* Hartig, 1837 given by ZOMBORI (1990): Both recurrent veins of anterior wing runs into different cells. Basal vein and first recurrent veins are parallell. Basal and cubital veins on subcosta meet closer than distance of cubital vein from base of stigma. Prepectus is not separated. $2A+3A$ is straight and simple. Gena is narrower than diameter of anterior ocellus. Third antennal segment is not longer than 3 apical antennal segment combined. Body is small, max. 4.5 mm. Pedicell is longer than wide and 3rd antennal segment is longer than 4th. Hind wing is without closed middle cell. Anal cell of hind wing is with long petiole. The totally white legs clearly differ the new species from *Blennocampa pusilla* (Klug, 1816) and *Blennocampa laosensis* Haris & Roller, 2007, (anterior 4 femora black in *B. laosensis*) and also the wide white hind corner of pronotum.

***Pristiphora kubani* spec. nov. (Figs. 1 and 5)**

Holotype: male, Laos, Phongsaly prov., $21^{\circ}41'N$, $102^{\circ}06'E$, Phongsaly env., 06-17. 05. 2001, cc. 1500 m., Vit. Kuban leg.

Male. Head black, labrum and base of mandible brown, palpi white. Antenna brown. Thorax completely blackish brown, only parapteron and cenchri white. All legs completely white from coxae till tarsi. Abdominal tergites dark brown, tergites 1-3 with large lateral white spot, tergite 4 with small lateral white spot. Abdominal sternites white except last black sternite. Head subparallell behind eyes. Shiny with minute, moderately dense punctures. Frontal area densely, finely punctured, moderately shiny. Pentagonal frontal area flat, not elevated, not marked with ridges. Ratios of antennal segments: 5 :

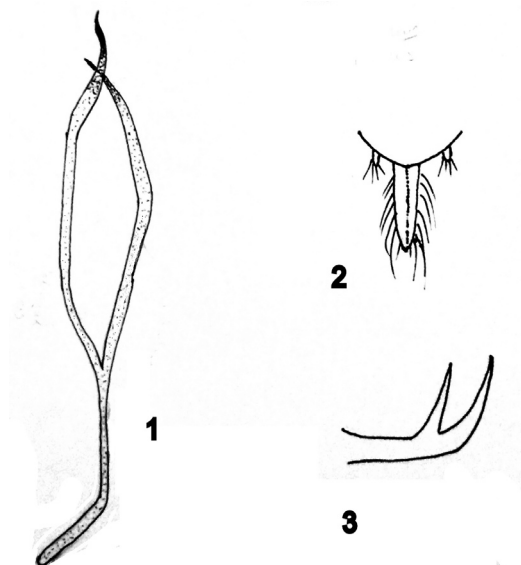


Fig. 1: Penis valve of *Pristiphora kubani* spec. nov.; Fig. 2: Sawsheath of *Blennocampa gusenleitneri* spec. nov.; Fig. 3: Claw of *Blennocampa gusenleitneri* spec. nov.



Fig. 4: *Blennocampa gusenleitneri* spec. nov. holotype



Fig. 5: *Pristiphora kubani* spec. nov. holotype

4 : 19 : 17 : 16 : 13 : 11 : 11 : 14. Length of 3rd antennal segment: longest diameter of eye: 19 : 23. Antenna as long as head and thorax (including propodeum) combined. OOL : POL : OCL: 8 : 10 : 6. Clypeus truncate. Gena about 0.3x as wide as diameter of front ocellus. Wings hyaline, costa, subcosta, stigma and venation blackish brown all of them has same color. Propodeum smooth and shiny, other abdominal tergites with fine surface sculpture, shiny. Inner hind tibia short. Length of inner hind tibia : length of hind basitarsus: 6 : 20. Hind basitarsus shorter than other hind tarsal segments: 5.0 : 6.0. Penis valve in Fig. 1. Length: 5.2 mm.

The new species is dedicated to Mr. Vit Kuban.

In HARIS 2006, the new species is related to 3 species which can be differentiated only by penis valve, namely *Pristiphora pallidiventris* (Fallén, 1808), *Pristiphora sauteri* Rohwer, 1916 and *Pristiphora cretica* W. Schedl, 1981. The penis valve of the new species is very special and not similar to any other species of the genus. (Compare Fig. 1 and Figs. 94, 140 and 144 in HARIS 2006).

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