

Two new species and new records of the genus *Spinolyprops* Pic, 1917 from the Oriental Region (Coleoptera, Tenebrionidae, Lupropini)*

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Abstract

Two new species of the genus *Spinolyprops* Pic, 1917 (Tenebrionidae, subfamily Lagriinae Latreille, 1825) are described from Thailand and China (*S. cribicollis* sp. n., *S. thailandicus* sp. n.). The species characters within the genus are discussed, photographs of all seven Oriental species are added, a species key for the Oriental species is compiled, and a map with the distributional patterns is provided.

Keywords

Tenebrionidae, Lagriinae, Lupropini, *Spinolyprops*, new species, Oriental region, distribution, map, species key

Introduction

The genus *Spinolyprops* Pic, 1917 (Tenebrionidae, subfamily Lagriinae Latreille, 1825, tribe Lupropini Ardoine, 1958) was based on the type species *Spinolyprops rufithorax* Pic, 1917 from Zanzibar (Pic 1917). Kulzer (1954) published the first species from the Oriental Region (Sri Lanka). Later Kaszab (1965) and Schawaller (1994, 1996) described additional Oriental species. The purpose of the present paper is the description of two further species from the Oriental region (Thailand, China), to discuss the

* Contributions to Tenebrionidae no. 105.—For no. 104 see: Annales Zoologici 62, 2012.

species characters, to present for the first time photographs of all seven Oriental species (Figs 2–13), to provide a key for all Oriental species, and finally to add new faunistic data including a map with the distributional patterns (Fig. 1).

The separation of the genera *Pseudolyprops* Fairmaire, 1882, *Sphingocorse* Gebien, 1921, and *Spinolyprops* Pic, 1917 within the tribe Lupropini is still in a preliminary state and not yet based on discriminating characters. At present, the species with spine-like posterior corners of the pronotum, and with elytral colour pattern, are assigned to *Spinolyprops*. Congeners of all three genera live in Africa or in the Oriental/Papuan regions, thus zoogeographical aspects should also be considered during a future revision.

All species of this group are soil dwellers and are adapted also to extreme dry conditions (personal observations). All known species have fully developed wings and thus possess a high ability for dispersal. Specimens are usually collected by sifting litter and similar substrates, and are also attracted by light.

Depositories

BMNH	The Natural History Museum, London (Max Barclay)
CRGT	Collection Dr. Roland Grimm, Neuenbürg
HNHM	Hungarian Natural History Museum, Budapest (Dr. Ottó Merkl)
MHNG	Muséum d'Histoire Naturelle, Genève (Dr. Giulio Cuccodoro)
MNB	Museum für Naturkunde, Berlin (Dr. Manfred Uhlig)
MSNF	Museo di Storia Naturale, Firenze (Dr. Luca Bartolozzi)
NHMB	Naturhistorisches Museum, Basel (Dr. Michel Brancucci †)
NMPC	National Museum (Natural History), Prague (Dr. Jiří Hájek)
SMNK	Staatliches Museum für Naturkunde, Karlsruhe (Dr. Alexander Riedel)
SMNS	Staatliches Museum für Naturkunde, Stuttgart

Species characters

All species have a similar dorsal colour pattern (Figs 1–13), which is quite variable and helpful only in a low extent for species separation. On the contrary, the combination of the following characters are considered as diagnostic for species. Dorsal punctuation of pronotum and elytra either fine (Figs 3–6) or rough (Figs 2, 7–13). The shape of pronotum with the lateral parts broadly (Figs 2, 7, 10–13) or narrowly (Figs 3–6) separated from disc; and with the anterior margin feebly (Figs 2–6) or deeply (Figs 10–12) excavated. Frons between eyes narrower (Figs 2, 7) or wider (Figs 3–6) than dorsal eye diameter. Antennomeres 8–10 longer than broad (Figs 2, 7) or as long as broad (Figs 3–6, 8–9). Sexual dimorphism of middle tibia present in one species (*S. pakistanicus*), absent in all other species. Specific shape of the apicale of aedeagus, considering a certain variability (Figs 14–25). Males and females can be separated only by dissection. For separation of the species see key below (suitable only for males).

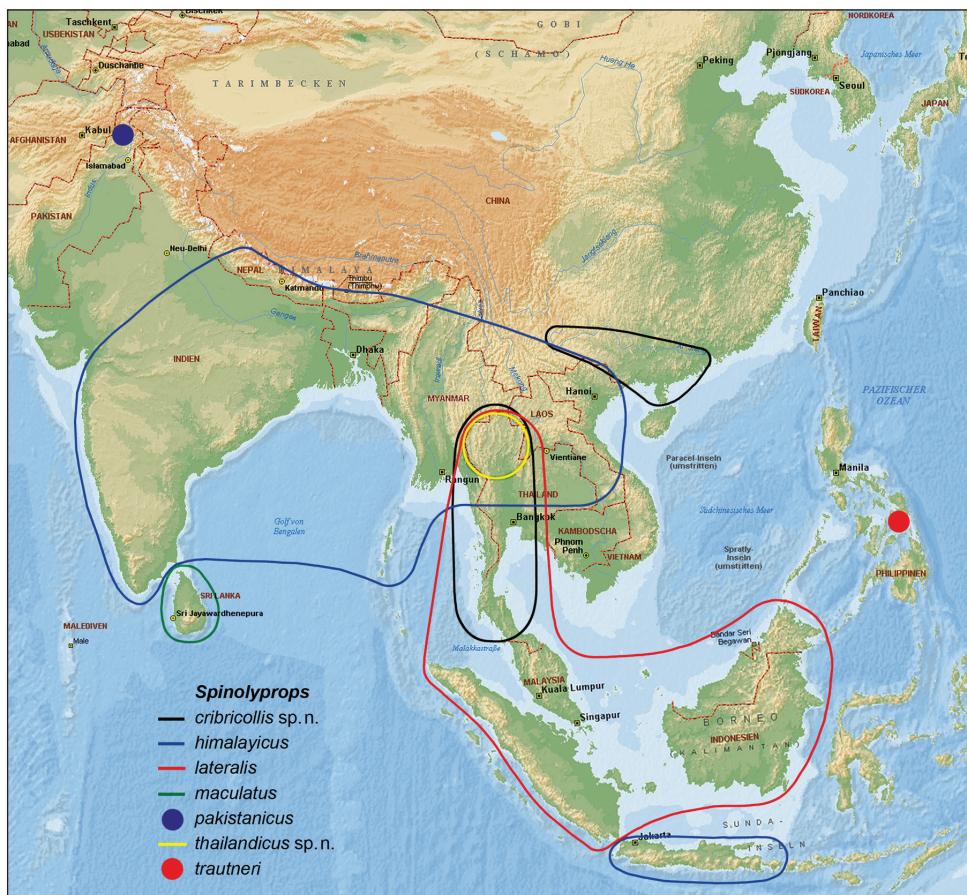


Figure 1. Idealized distributional patterns of the *Spinolyprops* species in the Oriental Region (modified Microsoft Encarta map).

Key to the species of *Spinolyprops* from the Oriental Region (♂)

- 1 Frons between eyes wider than dorsal eye diameter, dorsal punctuation of pronotum and elytra fine, pronotum with lateral parts narrowly separated from disc (Figs 3–6, 16–19) *himalayicus*
- Frons between eyes narrower than eye diameter, dorsal punctuation of pronotum rough, pronotum with lateral parts broadly separated from disc 2
- 2 Pronotum with anterior margin feebly excavated (compare figures) 3
- Pronotum with anterior margin deeply excavated 4
- 3 Elytral colour pattern apically with an arrow-shaped dark element, aedeagus with long and broad triangular apicale with straight sides, antennomeres 8–10 as long as broad (Figs 8, 22) *maculatus*
- Elytral colour pattern apically with an narrowing pointed dark element, aedeagus with short and narrow triangular apicale with rounded sides, antennomeres 8–10 longer than broad (Figs 2, 14–15) *cibricollis* sp. n.

- 4 Middle tibia of males on inner side with about five distinct spines (Figs 9, 23)..... *pakistanius*
- All tibiae unarmed 5
- 5 Separated lateral parts of pronotum extremely broad, aedeagus with broad spade-like apicale (Figs 10–12, 25) *thailandicus* sp. n.
- Separated lateral parts of pronotum narrower, aedeagus with apicale pentagonal 6
- 6 Dorsal setation of pronotum and elytra short, body shape narrower (elytra 1.4× longer than broad) (Figs 13, 24) *trautneri*
- Dorsal setation of pronotum and elytra long, body shape broader (elytra 1.3× longer than broad) (Figs 7, 20–21) *lateralis*

The species

Spinolyprops cribricollis sp. n.

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http://species-id.net/wiki/Spinolyprops_cribricollis

Figs 2, 14–15

Type specimens. Holotype male: S Thailand, Island Ko Chang, western side, 1999 (without detailed data), leg. A. Schulz & K. Vock, SMNS. – Paratypes: N Thailand, Chiang Mai Prov., Doi Inthanon, 1800 m, 14.V.2006, leg. R. Grimm, 4 ex. CRGT, 1 ex. SMNS. – NW Thailand, Doi Pui, 1600–1685 m, 7.–9.V.2004, leg. R. Grimm, 4 ex. CRGT. – NW Thailand, Doi Pui, 1600–1685 m, 22.–23.V.2006, leg. R. Grimm, 1 ex. SMNS. – China, Yunnan, 22 km NE Dali, NE bank of Er Hai Lake, 2010 m, 12.VI.2007, leg. M. Schülke, 1 ex. MNB, 1 ex. SMNS. – China, S Yunnan, Mengyang NR, 500 m, 12.IX.1994, leg. S. Kurbatov, 2 ex. HNHM. – China, NE Guangxi, 15 km N Longsheng, 1000 m, 15.–22.VI.1995, leg. S. Kurbatov, 1 ex. HNHM.

Diagnosis. *S. cribricollis* sp. n. shares with *S. lateralis* the rough dorsal punctation of pronotum and elytra, the shape of the pronotum with lateral parts broadly separated from disc and bent up, the frons between eyes smaller than dorsal eye diameter, and the antennomeres 8–10 longer than broad. Both can be separated mainly by the anterior margin of the pronotum with feeble (*S. cribricollis* sp. n.) or deep excavation (*S. lateralis*), and by different shape of the aedeagus (in *S. lateralis* the apicale is pentagonal, compare Figs 20–21). Additionally, *S. lateralis* is somewhat larger in the average (5.0–6.0 mm), and the elytra are slightly more rounded. *S. maculatus* has a similar shape of the pronotum with feebly excavated anterior margin, but the aedeagus has the apicale of the aedeagus different triangular with straight sides. *S. trautneri* has also a different aedeagus with broad pentagonal apicale (Fig. 24). See also the species key above.

Description. Body length 4.5–5.0 mm. Dorsal and ventral surfaces and all appendages brown without metallic shine, head and pronotum slightly darker, elytra bicoloured with darker and lighter parts (see Fig. 2); dorsal surface roughly punctate, punc-



Figures 2–7. Dorsal view of *Spinolyprops* species from the Oriental Region. **2** *S. cribicollis* sp. n., paratype Thailand CRGT **3** *S. himalayicus*, non-type Thailand SMNS **4** *S. himalayicus*, non-type Bali SMNS **5** *S. himalayicus*, non-type W India SMNS **6** *S. himalayicus*, non-type Thailand SMNS **7** *S. lateralis*, non-type Sabah SMNS

tures with long erect setae, surface between punctures shining. Head with punctuation similar as on pronotum; genae distinctly swollen, clypeal suture somewhat indistinct by rough punctuation, clypeus with punctuation as on frons, anterior margin of clypeus straight; eyes reniform, frons between eyes smaller than dorsal eye diameter, temples impunctate; maxillary palps with large securiform terminal palpomere; shape of antennomeres see Fig. 2, antennomere 3 not elongate, terminal three antennomeres not forming club. Pronotum widest in middle, anterior and posterior margins unbordered,

lateral margins unbordered but distinctly crenulate, anterior corner rounded, posterior corners acute, surface flat with irregular rough and partly confluent punctuation, lateral parts broadly separated from disc and bent up; propleura with sparser and smaller punctuation and shorter setation as on pronotum, prosternal process not prominent; metaventre with punctuation as on propleura. Scutellum visible, shining, without punctuation. Hind wings present. Elytra elongate oval, widest in middle, lateral margin distinctly dentate in humeral region, margin completely visible from above; surface with rough punctuation as on pronotum, but not confluent, punctuation irregular and not arranged in rows or striae; epipleura with sparser and smaller punctuation as on elytral disc, similar as on propleura. Ventrates with fine and widely separate punctuation, terminal ventrite unbordered, intersegmental membranes exposed between ventrites 3–5. Legs without particular modifications, tibiae without external keels, tibial spurs short. Aedeagus with triangular apicale with acute tip (Figs 14–15). No distinct external sexual dimorphism.

Remarks. I hope not to fail in assigning the (so far disjunct) Chinese specimens from Yunnan and Guangxi to the same species. Shape and punctuation of the pronotum, elytral colour and shape of aedeagus are not distinctly different from the specimens from Thailand. The type locality lies in a lowland habitat (Island Ko Chang), and the paratypes from Thailand were collected in higher altitudes (Doi Pui and Doi Inthanon). Obviously, this species has a wide ecological range.

Etymology. The name refers to the rough punctuation of the pronotum.

***Spinolyprops himalayicus* Kaszab, 1965**

http://species-id.net/wiki/Spinolyprops_himalayicus

Figs 3–6, 16–19

Type specimens examined. India, Darjeeling (labelled as West Bengal), Peshok, 710 ft., 19.IX.1959, leg. F. Schmid, holotype HNHM.

New material. Nepal, Gorkha Distr., Arughat Bazar, 600 m, 26.VII.1983, leg. J. Martens & W. Schawaller, 1 ex. SMNS. – Nepal, Surkhet Distr., Bheri Khola Bridge, 500 m, 24.–25.V.1998, leg. W. Schawaller, 1 ex. SMNS. – Nepal, Chitwan NP, Rampur, V.2005, leg. D. Ahrens, 1 ex. SMNS. – N India, Darjeeling, Sukna, 180 m, 21.–23.V.1980, leg. G. Topál, 1 ex. HNHM. – N India, Uttar Pradesh, Mussorie, 1300 m, 10.VII.1989, leg. A. Riedel, 1 ex. SMNS. – NE India, Meghalaya, 1 km E Tura, 500–600 m, 13.–18.V.2002, leg. M. Trýzna & P. Benda, 1 ex. SMNS. – W India, Maharashtra State, 70 km S Pune, Wai, 3.–6.X.2005, leg. F. & L. Kantner, 1 ex. SMNS. – W India, Maharashtra State, 40 km W Pune, Mulshi, 7.–11.X.2005, leg. F. & L. Kantner, 1 ex. SMNS. – S India, Anamalai Hills, Cinchona, 3500 ft., 1959, no collector labelled, 9 ex. NHMB (Frey collection, det Kulzer). – Bhutan, Samchi, 300 m, 7.–11.V.1972, Basel Expedition, 2 ex. HNHM. – Andaman Islands, Havelock Island, village no. 7, 22.IV.–14.V.1998, leg. K. & S. Majer, 2 ex. NHMB, 1 ex. SMNS. – N Thailand, Chiang Mai, Doi Pui, 1500 m, 19.XII.1988, leg. K. Geigenmüller & J. Trautner, 1 ex. SMNS. – N Thailand, Chiang Dao, 9.I.1989, leg. K. Geigenmüller & J. Trautner, 1 ex. SMNS. – N Thailand, Chiang Dao, 70 km N Chiang

Mai, 26.–28.IV.2003, leg. O. Šafránek, 2 ex. SMNS. – N Thailand, Chiang Mai Prov., Ban San Pakia, 1700 m, 25.IV.–7.V.1996, leg. S. Bilý, 7 ex. NHMB, 1 ex. SMNS. – N Thailand, Nan, 22.–24.V.1999, leg. R. Grimm, 16 ex. CRGT, 1 ex. SMNS. – N Thailand, Nan, 2.–4.V.2003, leg. R. Grimm, 2 ex. CRGT. – NW Thailand, Doi Pui, 1600–1685 m, 15.–16.IV.2004, leg. R. Grimm, 1 ex. CRGT. – N Thailand, Chiang Mai, Doi Pui, 1600 m, 15.–16.IV.2004, leg. W. Schawaller, 2 ex. SMNS. – NW Thailand, Chiang Dao, 700–800 m, 4.V.2004, leg. R. Grimm, 3 ex. CRGT. – NW Thailand, Mae Hong Son, 5.V.2004, leg. R. Grimm, 2 ex. CRGT. – NW Thailand, 5 km E Pai, 700 m, 19.IV.2004, leg. W. Schawaller, 1 ex. SMNS. – NW Thailand, Soppong, 700 m, 23.IV.2004, leg. W. Schawaller, 9 ex. SMNS. – NW Thailand, Soppong (Pangmapa), 17.–18.V.2006, leg. R. Grimm, 5 ex. CRGT. – Thailand, Chumphon Prov., Pha To, 27.III.–14.IV.1996, leg. K. Majer, 3 ex. NHMB. – Thailand, Thanon Thong Chai, Palong, 750 m, 26.–28.V.1991, leg. V. Kubán, 3 ex. NHMB. – Thailand, Prachin Buri Prov., Sakaerat Ecology Research Institute, 4.VI.2001, leg. E. Horváth & G. Sziráki, 5 ex. HNHM. – Burma, N Shan State, Namhsan, 1500–1900 m, 18.–28.II.1996, leg. S. Kasantsev, 1 ex. NHMB. – C Laos, Khammouan Prov., Ban Khoun Ngeun, 200 m, 19.–31.V.2001, leg. L. Dembicky, 5 ex. SMNS. – C Laos, Khammouan Prov., Ban Khoun Ngeun, 17.V.–6.VI.2007, leg. M. Štrba, 1 ex. SMNS. – CE Laos, Boli Kham Xai Prov., 8 km NE Ban Nape, 600 m, 1.–18.V.2001, leg. L. Dembicky, 6 ex. SMNS. – Laos, Champassak Prov., Bolavens Plateau, 3 km SE Ban Lak, 1070 m, 9.V.2010, leg. J. Hájek, 1 ex. NMPC. – Laos, Champassak Prov., Ban Nong Luang, 12 km S Paksong, 800 m, 6.IV.1998, leg. O. Merkl & G. Csorba, 1 ex. HNHM. – Laos, Phongsaly Prov., Phongsaly, 1500 m, 28.V.–20.VI.2003, leg. M. Brancucci, 2 ex. NHMB. – Laos, Phongsaly Prov., Phongsaly, 1500 m, 6.–17.V.2004, leg. M. Brancucci, 1 ex. SMNS. – Vietnam, Daklak Prov., Buon Ma Thuot, Dak Linn, 500 m, 28.–29.IV.1986, leg. S. Golovatch & L. Medvedev, 7 ex. SMNS. – Vietnam, Bac Kan Prov., Ba Be NP, 350 m, 3.–8.VI.2011, leg. L. Bartolozzi et al., 3 ex. MSNF. – Java, Batavia (now Jakarta), III.1921, no further data, 1 ex. HNHM. – C Bali, Bedugul, Tamblingan, 1210 m, 6.XI.2007, leg. A. Riedel, 10 ex. SMNK, 4 ex. SMNS.

Distribution. India (type locality Peshok/Darjeeling), Nepal, Bhutan, N Thailand, Vietnam (Schawaller 1996); Andaman Islands, Burma, Laos, Java, Bali (new records).

Spinolyprops lateralis Pic, 1917

http://species-id.net/wiki/Spinolyprops_lateralis

Figs 7, 20–21

Spinolyprops rufithorax var. *lateralis* Pic, 1917

New material. NE Sumatra, Tebing-Tinggi, 1 ex. NHMB (Frey collection). – E Sumatra, Lampung, Bawang, Pedada Bay, Gn. Tanggang, 660 m, 9.VIII.2006, leg. A. Riedel, 1 ex. SMNS. – Borneo, Brunei, Temburong Distr., ridge NE Kuala Belalong, 300 m, X.1992, leg. J. H. Martin, 1 ex. BMNH. – Borneo, Sabah, Crocker Range, Tenom, Kalang waterfall, 17.VI.1998, leg. J. Kodada & F. Čiampor, 5 ex. SMNS. – Borneo,

Sabah, Sapulut, Batu Pungull, 24.–26.VI.1998, leg. J. Kodada & F. Čiampor, 1 ex. SMNS. – Borneo, Sabah, Poring, 650 m, 15.V.2005, leg. R. Grimm, 1 ex. CRGT. – Borneo, Sarawak, Gunung Santubong, 10–200 m, 4.–8.IV.2009, leg. R. Grimm, 1 ex. CRGT. – Borneo, Sarawak, Gunung Santubong, 30–200 m, 30.XI.–5.XII.2010, leg. R. Grimm, 4 ex. CRGT. – Borneo, Sarawak, Gunung Gading NP, 100–300 m, 31.III.–4.IV.2009, leg. R. Grimm, 1 ex. CRGT. – Borneo, Sarawak, Gunung Gading NP, 50–200 m, 8.–10.XII.2010, leg. R. Grimm, 2 ex. CRGT. – NW Thailand, Mae Hong Son Prov., 32 km NNE Mae Hong Son, 5.V.2004, leg. R. Grimm, 2 ex. CRGT. – S Thailand, Khao Lak NP, Thone Chong Fa Waterfall, 100–300 m, 6.–15.I.1998, leg. A. Schulz & K. Vock, 3 ex. SMNS, 1 ex. MNB. – W Malaysia, Perak, 25 km NE Ipoh, Banjaran Titi Wangsa Mts., Mt. Korbu, 1200 m, 6.–12.V.2001, leg. P. Čechovský, 1 ex. SMNS.

Distribution. Sumatra (type locality); Borneo, Thailand, W Malaysia (new records).

Spinolyprops maculatus Kulzer, 1954

http://species-id.net/wiki/Spinolyprops_maculatus

Figs 8, 22

Type specimens examined. Sri Lanka, Colombo, III.1953, leg. G. Frey, holotype and 1 paratype NHMB (Frey collection), 2 paratypes HNHM.

New material. Sri Lanka, Uva, Diyaluma Falls, 400 m, 23.I.1970, leg. C. Besuchet, I. Löbl & R. Mussard, 3 ex. MHNG, 1 ex. SMNS. – Sri Lanka, Uva, Monaragala, 300 m, 13.II.1970, leg. C. Besuchet, I. Löbl & R. Mussard, 1 ex. HNHM. – Sri Lanka, Uva, S Wellawaya, 300 m, 25.I.1970, leg. C. Besuchet, I. Löbl & R. Mussard, 1 ex. HNHM. – Sri Lanka, Periyapullumalai, 11.II.1970, leg. C. Besuchet, I. Löbl & R. Mussard, 1 ex. HNHM. – Sri Lanka, Kandy, 18.III.1973, leg. G. Zimmermann, 1 ex. SMNS. – S Burma (labelled as Tenasserim), no additional data, 1 ex. HNHM (det. Kaszab).

Remarks. The specimen from Tenasserim was already published by Kaszab (1965). This specimen clearly belongs to *S. maculatus* and shares with the specimens from Sri Lanka the elytral colour pattern apically with an arrow-shaped dark element (Fig. 8). It is the only specimen of *S. maculatus* out of Sri Lanka, so probably it was mislabelled (and is not mapped herein).

Distribution. Sri Lanka (type locality), ? S Burma (Kaszab 1965).

Spinolyprops pakistanicus Schawaller, 1996

http://species-id.net/wiki/Spinolyprops_pakistanicus

Figs 9, 23

Type specimens examined. Pakistan, Hazara, Malkandi, 1500 m, 3.VI.1983, leg. C. Besuchet & I. Löbl, 2 paratypes SMNS. – Pakistan, Swat, Madyan, 1400 m, 16.V.1983, leg. C. Besuchet & I. Löbl, 1 paratype SMNS.

Distribution. Northern Pakistan in Hazara and Swat.

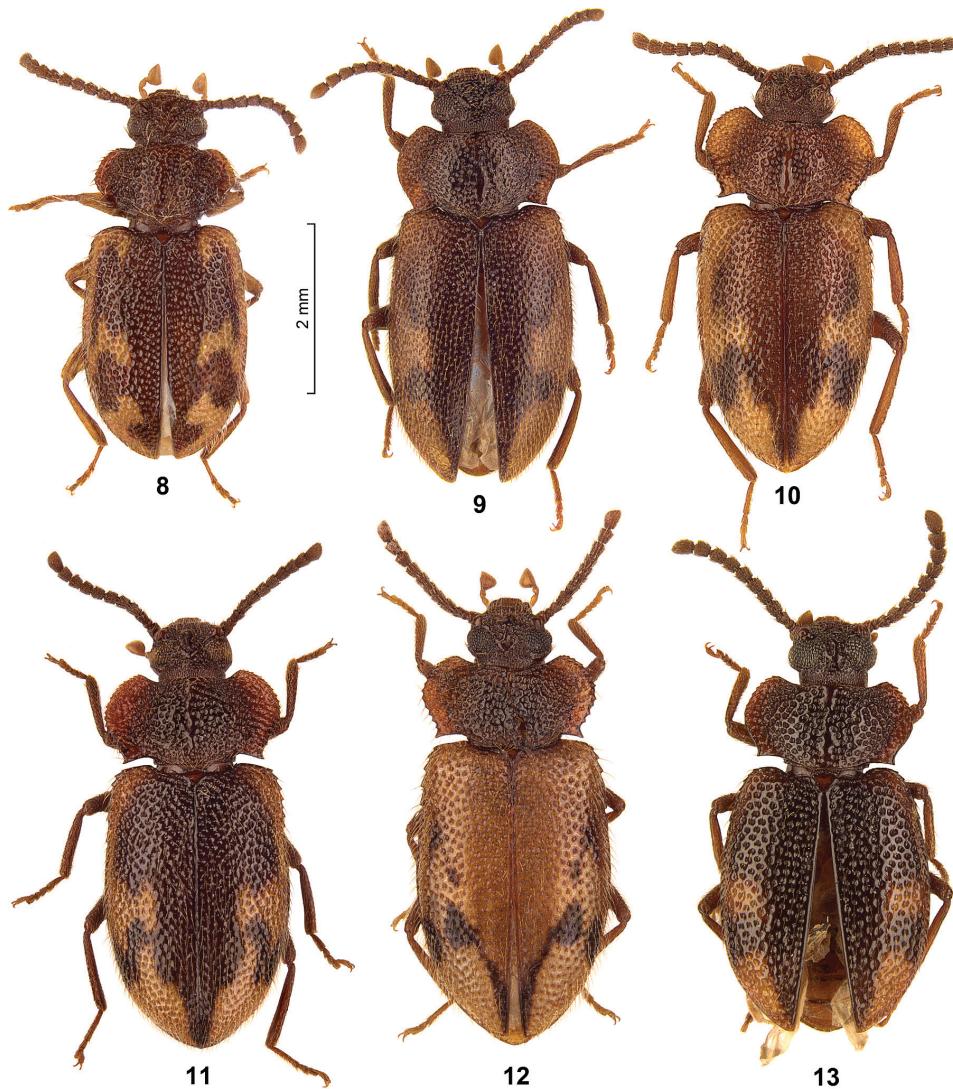


Figure 8–13. **8** *S. maculatus*, non-type Sri Lanka SMNS **9** *S. pakistanius*, paratype Pakistan SMNS **10** *S. thailandicus* sp. n., holotype Thailand SMNS **11** *S. thailandicus* sp. n., paratype Thailand CRGT **12** *S. thailandicus* sp. n., paratype Thailand SMNS **13** *S. trautneri*, holotype Philippines SMNS.

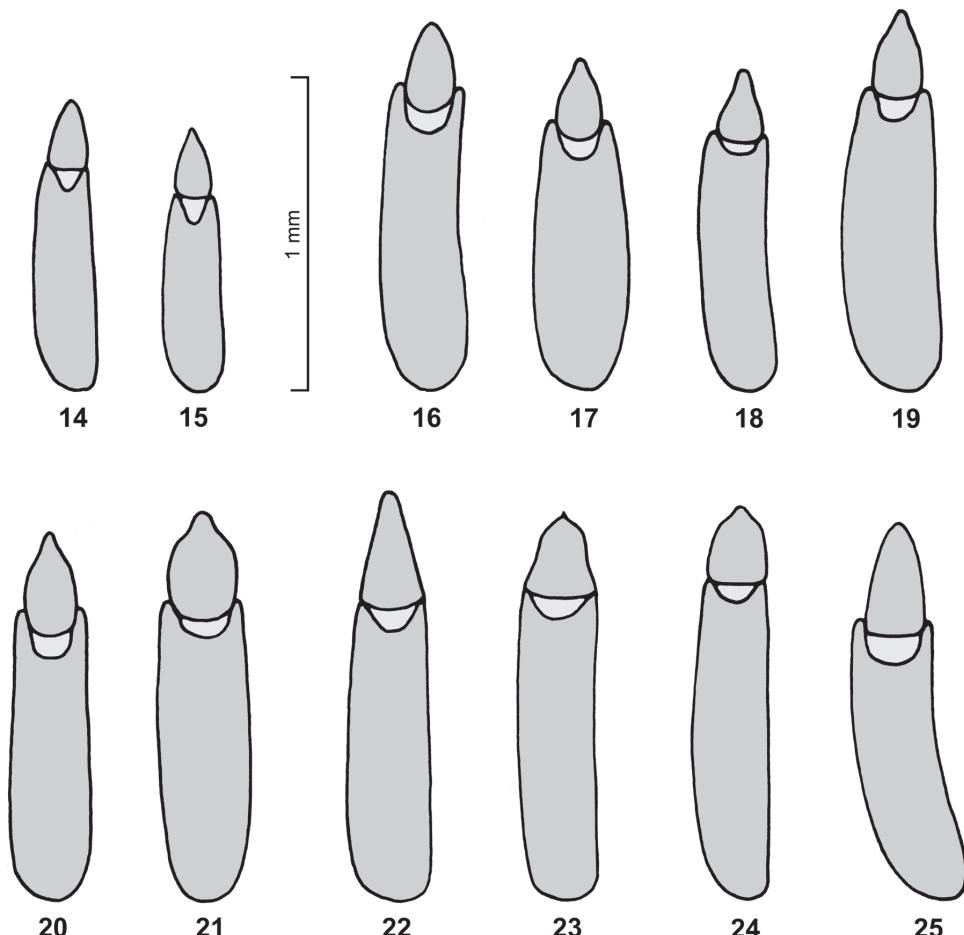
***Spinolyprops thailandicus* sp. n.**

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http://species-id.net/wiki/Spinolyprops_thailandicus

Figs 10–12, 25

Type specimens. Holotype male: N Thailand, Chiang Mai, Doi Pui, 1600 m, 15.–16. IV.2004, leg. W. Schawaller, SMNS. – Paratypes: same data as holotype, 3 ex. SMNS. – N Thailand, Chiang Mai, Doi Pui, 1600–1685 m, 23.IV.–12.V.2003, leg. R. Grimm,



Figures 14–25. Aedeagus of *Spinolypros* species in the Oriental Region. **14** *S. cribicollis* sp. n., holotype Thailand/Ko Chang SMNS **15** *S. cribicollis* sp. n., paratype Thailand/Doi Inthanon SMNS **16** *S. himalayicus*, non-type Nepal SMNS **17** *S. himalayicus*, non-type Bali SMNS **18** *S. himalayicus*, non-type Thailand SMNS **19** *S. himalayicus*, non-type W India SMNS **20** *S. lateralis*, non-type Borneo SMNS **21** *S. lateralis*, non-type Thailand SMNS **22** *S. maculatus*, non-type Sri Lanka SMNS **23** *S. pakistanius*, paratype Pakistan SMNS **24** *S. trautneri*, holotype Philippines SMNS **25** *S. thailandicus* sp. n., holotype Thailand SMNS.

4 ex. CRGT. – N Thailand, Chiang Mai, Doi Pui, 1600–1685 m, 7.–9.V.2004, leg. R. Grimm, 6 ex. CRGT. – N Thailand, Chiang Mai, Doi Pui, 1600–1685 m, 12.–13.V.2006, leg. R. Grimm, 7 ex. CRGT, 4 ex. SMNS. – N Thailand, Chiang Mai, Doi Pui, 1600–1685 m, 22.–23.V.2006, leg. R. Grimm, 6 ex. CRGT, 3 ex. HNRM.

Diagnosis. *S. thailandicus* sp. n. is characterized by the shape of the pronotum with deeply excavated anterior margin and with the lateral parts broadly separated from disc and bent up, in combination with rough dorsal punctuation of pronotum and elytra and the frons between eyes smaller than dorsal eye diameter. The aedeagus of *S. thailandicus* sp. n.

is similar as in *S. cibricollis* sp. n. (compare Figs 14–15), but in this species the lateral parts of the pronotum are not so widely separated from the disc as in *S. thailandicus* sp. n., and the anterior margin of the pronotum is only feebly excavated. See also species key above.

Description. Body length 4.3–5.3 mm. Dorsal and ventral surfaces and all appendages brown without metallic shine, elytra bicoloured with darker and lighter parts in different variation (Figs 10–12); dorsal surface roughly punctate, punctures with long erect setae, surface between punctures shining. Head with punctuation similar as on pronotum; genae distinctly swollen, clypeal suture somewhat indistinct by rough punctuation, clypeus with punctuation as on frons, anterior margin of clypeus straight; eyes reniform, frons between eyes as broad as dorsal eye diameter, temples impunctate; maxillary palps with large securiform terminal palpomere; shape of antennomeres see Figs 10–12, antennomere 3 not elongate, terminal three antennomeres not forming club. Pronotum widest slightly before middle, anterior and posterior margins unbordered, lateral margins unbordered but distinctly crenulate, anterior corner rounded, posterior corners acute, surface flat with irregular rough and partly confluent punctuation, lateral parts broadly separated from disc and bent up; propleura with sparser and smaller punctuation and shorter setation as on pronotum, prosternal process slightly prominent; metaventrite with punctuation as on propleura. Scutellum visible, shining, without punctuation. Hind wings present. Elytra elongate oval, widest in middle, lateral margin distinctly dentate in humeral region, margin completely visible from above; surface with rough punctuation as on pronotum, but not confluent, punctuation irregular and not arranged in rows or striae; epipleura with sparser and smaller punctuation as on elytral disc, similar as on propleura. Ventrites with fine and widely separate punctuation, terminal ventrite unbordered, intersegmental membranes exposed between ventrites 3–5. Legs without particular modifications, tibiae without external keels, tibial spurs short. Aedeagus with broad spade-like apicale with rounded tip (Fig. 25). No distinct external sexual dimorphism.

Etymology. Named after the type locality in Thailand.

***Spinolyprops trautneri* Schawaller, 1994**
http://species-id.net/wiki/Spinolyprops_trautneri
Figs 13, 24

Type specimen examined. Philippines, Leyte, Lake Danao, 500 m, 19.II.–18.III.1991, leg. K. Geigenmüller, W. Schawaller & J. Trautner, male holotype SMNS.

Distribution. Philippines (type locality Leyte Island).

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subsequently processed by him with Auto-Montage (Syncroscopy) software. At last but not least I thank the referees Dr. Kiyoshi Ando (Osaka) and Dr. Ottó Merkl (Budapest) for proofreading and valuable improvements.

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