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Taxonomic and faunistic notes on Oriental and Palaearctic Galerucinae and Cryptocephalinae (Coleoptera: Chrysomelidae)

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ABSTRACT. Following taxonomic changes are proposed in Oriental and Palaearctic Galerucinae and Cryptocephalinae: *Cerophysa* CHEVROLAT, 1836 (= *Taumaceroides* LOPATIN, 2009, syn. nov.); *Podontia* DALMAN, 1824 (= *Paramerista* LOPATIN, 2011); *Mimastracella palpalis* SAMODERZHENKOV, 1988 (= *Sastroides pallidifulvus* KIMOTO, 1989, syn. nov.); *Aplosonyx emeishanica* (LOPATIN, 2005) (comb. nov.) (= *A. metallicus* CHEN, 2008, syn. nov.); *Aplosonyx quadripunctata* (JACOBY, 1895) (comb. nov.) (= *A. amorphophallus* MOHAMEDSAID, 2008, syn. nov.); *Leptarthra jayarami* (VAZIRANI, 1970) (comb. nov.); *Notonicea metallica* (JACOBY, 1891) (comb. nov.); *Notonicea ornata* (BALY, 1886) (comb. nov.); *Charaea mimicum* (MEDVEDEV, 1998) (comb. nov.); *Ch. miyamotoi* (KIMOTO, 1969) (comb. nov.) (= *Calomicrus takizawai* MEDVEDEV, 1998, syn. nov.); *Ch. shirozui* (KIMOTO, 1969) (comb. nov.); *Ch. takagii* (TAKIZAWA, 1988) (comb. nov.); *Ch. yasudai* (CHŪJŌ, 1966) (comb. nov.); *Ch. yunnanum* (LOPATIN, 2009) (comb. nov.); *Cneorella bicoloripennis* LOPATIN, 2003 (= *Laosixantha bicolor* MEDVEDEV, 2009, syn. nov.); *Luperogala clermonti* (LABOISSIÈRE, 1929) (comb. nov.) (= *L. paradoxa* MEDVEDEV & SAMODERZHENKOV, 1989, syn. nov.); *Japonitata costata* (ALLARD, 1889) (comb. nov.) (= *J. tricolorata* CHEN & JIANG, 1981, syn. nov.); *Vietoluperus alleculoides* MEDVEDEV & DANG DAP, 1981 (= *V. bengalicus* MEDVEDEV, 2009, syn. nov.); *Nymphius artificiosus* (PEYERIMHOFF, 1931) (comb. nov.); *Cerophysa sinica* (LOPATIN, 2009) (comb. nov.); *Podontia lutea* (OLIVIER, 1790) (= *Paramerista luteola* LOPATIN, 2011, syn. nov.); *Stenoluperus pulchellus* (LOPATIN, 2005) (comb. nov.); *Clytra subfasciata* (LACORDAIRE, 1848) (= *Oides neobengalensis* RIZVI & KAMALUDDIN, 2011, syn. nov.); *Miochira signaticollis* (KOLLAR & REDTENBACHER, 1844) (comb. nov.) (= *Clythra montana* JACOBY, 1895, syn. nov., = *Miochira nuristanica* LOPATIN, 1966, syn. nov.); *Smaragdina vaulogeri* (PIC, 1894) (= *Gynandrophthalma laeviceps* ABEILLE DE PERRIN, 1895, syn. nov.); *Adiscus nigromaculatus* (KOLLAR & REDTENBACHER, 1844) (= *A. angulatus* MEDVEDEV & SPRECHER-UEBERSAX, 1997, syn. nov.). *Calomicrus lopatini* nom. nov. is suggested for *C. minutissimus* LOPATIN, 2009 from Yunnan (nec *C. minutissimus* KIMOTO, 1996 from Taiwan). *Calomicrus setulosus* var. *tripolitanus* (PIC, 1939) is elevated to species rank. *Sastracella laosensis* KIMOTO, 1989, *Apophyllia laotica* BEZDĚK, 2005, *A. purpurea* (ALLARD, 1889), *A. securigera* CHŪJŌ, 1962 and *Theopea bicolor* KIMOTO, 1989 are recorded for the first time from China (Yunnan), *Gallerucida duporti* (LABOISSIÈRE, 1931) from Laos and China (Yunnan), *Apophyllia assamensis* (JACOBY, 1891), *A. cyanipennis* LABOISSIÈRE, 1927 and

Leptarthra jayarami (VAZIRANI, 1970) from China (Xizang), *Apophylla flavovirens* (FAIRMAIRE, 1878) from China (Zhejiang), *A. lebongana* MAULIK, 1936 from China (Sichuan), *Agetocera yunnana* CHEN, 1964, *Liroetis viridipennis* KIMOTO, 1989 and *Taumacera frontalis* MOHAMEDSAID, 2001 from Thailand, *Charaea pseudominutum* BEENEN & WARCHAŁOWSKI, 2010 from Russia, *Medythia quaterna* (FAIRMAIRE, 1880) from Oman; *Calomicrus apicalis* DEMAISON, 1891 from Cyprus, *C. nuristanicus* MEDVEDEV, 1985 from Pakistan, *C. tripolitanus* from Algeria, *Polyclada benti* GAHAN, 1895, *Paraclytra cervenkai* BEZDĚK & KANTNER, 2010 and *Acolastus wittmeri* (LOPATIN, 1979) from Oman, *Isnus biseriatus* (CHAPUIS, 1877) and *Pachybrachis saudicus* LOPATIN, 1979 from Yemen, *Cryptocephalus convergens* SASSI, 2001 from Austria. The generic placement of *Cneorella bicoloripennis* is discussed but remains unclear.

Key words: entomology, taxonomy, faunistics, synonymy, new combination, homonymy, new names, Coleoptera, Chrysomelidae, Galerucinae, Cryptocephalinae, Oriental Region, Palaearctic Region

INTRODUCTION

The publications covering various chrysomelid subfamilies include unexpectedly high number of unclear species which were never revised and are only repeated in subsequent papers and catalogues. The descriptions of such taxa are usually short and superficial and their status can be usually confirmed or resolved only with the examination of primary type material.

Palaearctic and particularly Oriental Galerucinae (incl. Alticini) and also Cryptocephalinae (incl. Clytrini) still belong to unsufficiently known groups. Most of the genera badly need a modern taxonomic revision. During an ongoing longterm study of Old World Galerucinae and Cryptocephalinae a numerous material from both private and institutional collections was examined, including many primary types. Some nomenclatorial changes and faunistic records gathered during my determination of various material are summarized in the present paper as a continuation of my previous work (BEZDĚK 2009a).

MATERIAL AND METHODS

The photographs were taken by Canon EOS 550D with Macro Photo Lens MP-E65mm and stacked with Helicon Focus 5.1.

The material is housed in the following collections:

BMNH – The Natural History Museum (former British Museum), London, Great Britain (Sharon SHUTE, Max BARCLAY);

BPBM – Bernice P. Bishop Museum, Honolulu, Hawaii, USA (Al SAMUELSON, Shepherd P. MYERS);

FKKC – František KANTNER collection, Klatovy, Czech Republic;

HNHM – Hungarian Natural History Museum, Budapest, Hungary (Otto MERKL);

HTHJ – Haruo TAKIZAWA collection, Hasuda, Saitama, Japan;

ISNB – Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium (Pol LIMBOURG);

- IZCAS – Chinese Academy of Sciences, Institute of Zoology, Beijing, China (Lijie ZHANG);
- JBBC – Jan BEZDĚK collection, Brno, Czech Republic;
- JLCF – Jean-Michel LEMAIRE collection, Contes, France;
- JVJC – Jiří VOŘÍŠEK collection, Jirkov, Czech Republic;
- KUEC – Kyushu University, Fukuoka, Japan (Junichi YUAKAWA);
- LMMC – Lev N. MEDVEDEV collection, Moscow, Russia;
- MCZ – Museum of Comparative Zoology, Cambridge, Massachusetts, USA (Phillip D. PERKINS);
- MHNN – Muséum d'Histoire Naturelle de la Ville de Nice, Nice, France (Gabriel ALZIAR);
- MNHN – Muséum Nationale d'Histoire naturelle, Paris, France (late Nicole BERTI);
- MSNG – Museo Civico di Storia Naturale „Giacomo Doria“, Genova, Italy (Fabio PENATI, Roberto POGGI);
- NHMB – Naturhistorisches Museum, Basel, Switzerland (Eva SPRECHER-UEBERSAX, Isabelle ZÜRCHER-PFANDER, Michel BRANCUCCI);
- NMEG – Naturkundesmuseum, Erfurt, Germany (Matthias HARTMANN);
- NMPC – National Museum, Prague, Czech Republic (Jiří HÁJEK);
- NMW – Naturhistorisches Museum, Wien, Austria (Harald SCHILLHAMMER);
- SMNS – Staatliches Museum für Naturkunde, Stuttgart, Germany (Wolfgang SCHAWALLER);
- USNM – National Museum of Natural History, Smithsonian Institution, Washington (Alexander S. KONSTANTINOV);
- ZMAS – Zoological Museum, Academy of Sciences, St. Petersburg, Russia (Boris A. KOROTYAEV);
- ZMHB – Museum für Naturkunde der Humboldt-Universität, Berlin, Germany (Johannes FRISCH, Joachim WILLERS);
- ZMUH – Zoologisches Institut und Museum, Universität von Hamburg, Hamburg, Germany (Hans RIEFENSTAHL, Kai SCHÜTTE);
- ZSM – Zoologische Staatssammlung, München, Germany (Michael BALKE).

Exact label data are cited for type material. A forward slash (/) separates different lines and a double slash (//) different labels of data. Additional remarks are in square brackets: [p] – preceding data are printed, [h] – preceding data are handwritten, and [w] – white label.

Galerucinae Galerucini

Sastracella laosensis KIMOTO, 1989

(Figs 1, 4)

Sastracella laosensis KIMOTO, 1989a, Esakia 27: 23 (Type locality: Laos, Sayaboury Prov., Sayaboury).

Type material. Paratype (male), labelled: „Laos / Umg. Vientiane / III.-VI.1963 [w, p] // PARATYPE [blue label, p] // Sastracella / laosensis / n. sp. [w, p] // Zool. Staatsslg. / München [pale blue, p]“ (in ZSM)

Additional material examined. CHINA: Yunnan, Xishuangbanna, 32 km W of Jinghong, Man Nuan Hui vill., N21°59.77 E100°29.49, 1150 m, 2.vi.2008, A. Weigel leg. (1/0 in JBBC).

Distribution. Laos (Kimoto 1989a). New species for China: Yunnan.

***Mimastracella palpalis* SAMODERZHENKOV, 1988**

(Figs 2, 5)

Mimastracella palpalis SAMODERZHENKOV, 1988, Fauna Ekol. Nasek. Vietnam, p. 93 (Type locality: Vietnam, Tyangam river).

Sastroides pallidifulvus KIMOTO, 1989a, Esakia 27: 31 (Type locality: Thailand, Chiang Mai prov., Doi Suthep). **syn. nov.**

Type material. *Mimastracella palpalis*. Paratype (unsexed), labelled: „Paratypus [red label, p] // Vietnam, Ha Son-Binh, / 10 km SW Hoa-Binh, / 17.X.1976 / L. Medvedev leg [w, p] // Mimastracella / palpalis [h] / E. Samoderzhnikov det. [w, p] // Ex coll. Medvedev / Acquisto XI.1999 [w, p]“ (in MSNG).

Sastroides pallidifulvus. 5 paratypes (unsexed), labelled: „Annam / 1927 [w, p] // Indo Chine / Coll. Dussault [w, p] // PARATYPE [blue label, p] // Sastracella [sic!] / pallidifulva / n. sp. [w, p]“ (in NHMB); 1 paratype (female), labelled: „Laos 1963 / Umgeb. Paklay [w, p] // PARATYPE [blue label, p] // Sastroides / pallidifulva / n. sp. [w, h]“ (in ZSM); 1 paratype (male), labelled: „Laos 1963 / Umgeb. Paklay [w, p] // PARATYPE [blue label, p] // Sastracella [sic!] / pallidifulva / n. sp. [w, p]“ (in ZSM); 1 paratype (male), labelled: „Laos / Umg. Vientiane / III.-VI.1963 [w, p] // PARATYPE [blue label, p] // Sastroides / pallidifulva / n. sp. [w, h] // PHOTO [red label, p]“ (in ZSM).

Additional material examined. LAOS: Hua Phan prov., 25 km SE of Vieng Xai, Ban Kangpabong env., 20°19'N 104°25'E, 14.-18.v.2001, J. Bezdek leg. (3/1 in JBBC); Phongsali Prov., 10 km SE of Boun Tai, 1100-1300 m, Lao collector leg. (1/1 in JBBC).

Distribution. Vietnam (SAMODERZHENKOV 1988, KIMOTO 1989a), Laos (KIMOTO 1989a, present paper) and Thailand (KIMOTO 1989a).

Comments. The complex of genera *Mimastracella* JACOBY, 1903, *Sastroides* JACOBY, 1884 and *Sastracella* JACOBY, 1899 badly needs comprehensive revision. The species ranked in these genera often do not correspond with the generic description. Due to this confused situation I left the generic combination in accordance with the older synonym in the genus *Mimastracella*.

***Apophyllia assamensis* (JACOBY, 1891)**

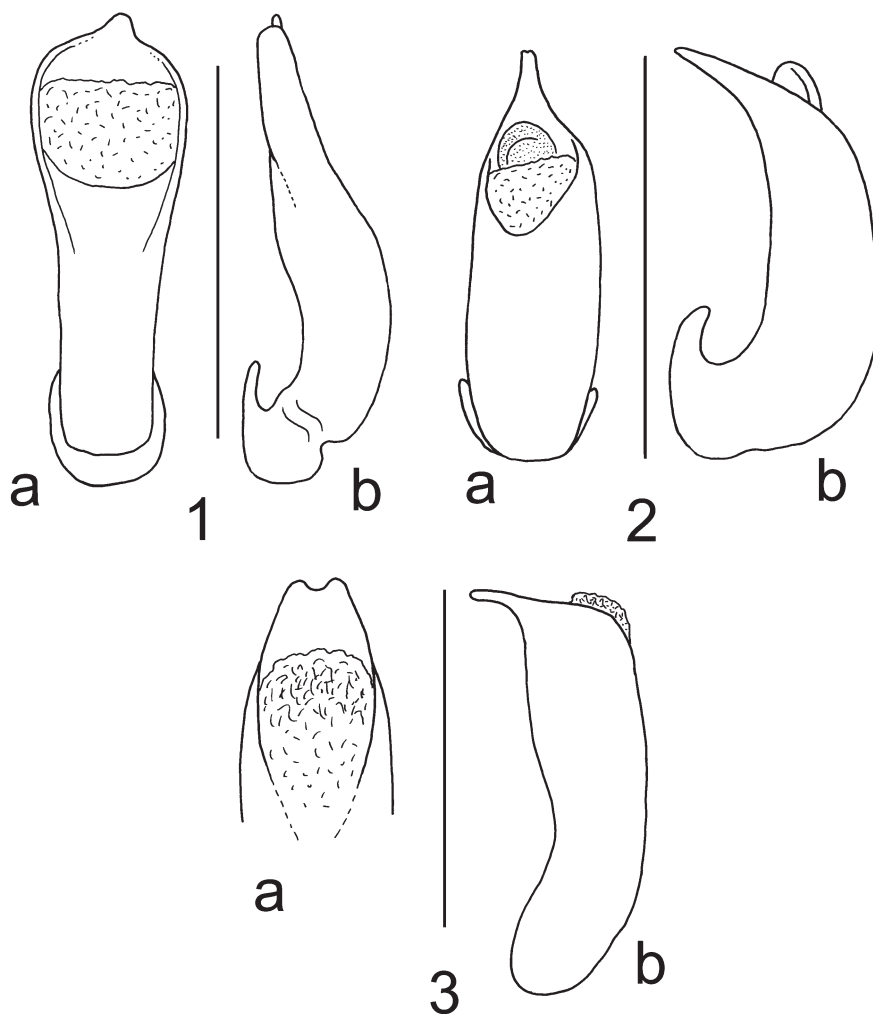
Malaxia assamensis JACOBY, 1891a, Entomologist, 1891(Suppl.): 34 (Type locality: Assam).

Apophyllia ciliaticornis PIC, 1931, Mel. Exot.-ent., 57: 21 (Type locality: Indes).

Apophyllia himalayana MEDVEDEV, 1993, Ent. Basil., 16: 364 (Type locality: Nepal: Arun valley, Lamobagar Gola).

Type material. *Malaxia assamensis*. Lectotype (female), designated by Bezděk (2003c), labelled: „Assam [w, h] // 1st Jacoby Coll. [w, p] // Type. [p] 18499 [red label, h] // LECTOTYPUS / *Malaxia assamensis* / Jacoby, 1891, / des. J. Bezděk 2002 [red label, p]” (in MCZ).

Apophyllia ciliaticornis. Lectotype (male), designated by Bezděk (2003c), labelled: „Indes Alfieri [w, h] // type [w, h] // TYPE [red label, p] // Museum Paris Coll. M. Pic



1-3. Aedeagus (a – dorsal view, b – lateral view): 1 – *Sastracella laosensis*, 2 – *Mimastracella palpalis*, 3 – *Cneorella* (?) *bicoloripennis*. Scales: 2 mm for Figs 1-2, 1 mm for Fig. 3.

[w, p] // ciliaticornis n sp [w, h] // LECTOTYPUS / Apophylia / ciliaticornis Pic, 1931, / des. J. Bezděk 2002 [red label, p]" (in MNHN).

Apophylia himalayana. Holotype (male), labelled: "O-Nepal Arun V. [p] 1980 [h] C. Holzschuh [w, p] // Lamobagar Gola 1400 [p] 28.-31. V. [w, h] // Holotypus [red label, p] // *Apophylia himalayana* m. [h] L.N.Medvedev det. 19 [p] 92 [w, h]" (in NHMB).

Additional material examined. CHINA: Xizang, Motuo reg., Beibeng, 800 m, 20.v.1983, Yin-Heng Han leg. (1/0 in IZCAS); Xizang, Motuo reg., Didong, 950-1000 m, 4.vi.1983, Zai Lin leg. (0/2 in IZCAS).

Distribution. Bhutan (KIMOTO, 1977 – as *A. pallipes*, BEZDĚK 2003c, KIMOTO, 2004), Thailand (BEZDĚK 2003c, 2008), Myanmar (JACOBY 1892, BEZDĚK 2003c, 2005b), Laos (BEZDĚK 2005b), Vietnam (BEZDĚK 2005b), Nepal (TAKIZAWA 1988b, MEDVEDEV 1993, 2000d, KIMOTO 2001, BEZDĚK 2003c, 2008, HARTMANN & MEDVEDEV 2003), India: Bihar (MAULIK 1936), Uttar Pradesh, Uttarakhand (BEZDĚK 2003c), Assam (JACOBY 1891a, BEZDĚK 2003c), West Bengal (TAKIZAWA 1987b, TAKIZAWA & BASU 1987, BEZDĚK 2003c, 2008), Arunachal Pradesh, Megalaya, Sikkim (BEZDĚK 2008). New species for China (Xizang).

Apophylia cyanipennis LABOISSIÈRE, 1927

Apophylia cyanipennis LABOISSIÈRE, 1927, Ann. Soc. Ent. Fr., 96: 59 (Type locality: Tonkin: Hoa-Binh).

Type material. Lectotype (male), designated by BEZDĚK (2003a), and 3 paralectotypes (females), labelled: „Hoa Binh Tonkin de Cooman [w, p] // TYPE [red letters, w, p] // *Apophylia cyanipennis* m. [h] V. Laboissière - Dét. [w, p] // LECTOTYPUS [or PARALECTOTYPUS] / *Apophylia cyanipennis* / Laboissiere, 1927, / des. J. Bezděk 2002 [red label, p]" (in ZMUH); paralectotype (female), labelled: „Coll. R. I. Sc. N. B. Nord Vietnam [p] R. P. de Cooman [yellow label on which two following labels are glued, h] // Hoa Binh [h] Tonkin [w, p] // Coll. V. Laboissière [w, p] // Cf. Ann. Soc. Ent. Fr., 1927 p. 59-60 [w, h] // *Apophylia cyanipennis* m. [h] V. Laboissière - Dét. [w, p] // Para-type [orange label, p] // PARALECTOTYPUS / *Apophylia cyanipennis* / Laboissiere, 1927, / des. J. Bezděk 2002 [red label, p]" (in ISNB).

Additional material examined. CHINA: Xizang, Motuo reg., Didong, 950-1000 m, 4.vi.1983, Zai Lin leg. (1/0 in IZCAS).

Distribution. Vietnam (LABOISSIÈRE 1927, SAMODERZHENKOV 1988, BEZDĚK 2003a, 2008), Laos (BEZDĚK 2003a), Malaysia: Perak (MOHAMEDSAID 1999b). New species for China (Xizang).

Apophylia flavovirens (FAIRMAIRE, 1878)

Malaxia flavovirens FAIRMAIRE, 1878, Ann. Soc. Ent. Fr., (5)8: 139 (Type locality: China centr. [by the title]).

Apophylia thoracica GRESSITT & KIMOTO, 1963, Pac. Ins. Mon., 1B: 433, fig. (Type locality: China: NW Fukien Prov., Shaowu Distr., Ta-chu-lan).

Type material. *Malaxia flavovirens*. Holotype (male), labelled: „Malaxia flavovirens Fairm ... China bor. [partly unreadable, w, h] // Ex Muséo L. Fairmaire 1893 [w, p] // TYPE [red label, p]” (in MNHN).

Apophylia thoracica. 12 paratypes (6 males, 6 females), labelled: „FUKIEN, S.China Shaowu: Tachulan 1000 m. T. Maa [w, p] // June 25. 1942 [w, h] // PARATYPE [p] Apophylia thoracica [h] Gressitt & Kimoto [yellow label, p]” (in BPBM).

Additional material examined. CHINA: Fujian, Chongan, Tongmuguanguanping, 800-1000 m, 21.vii.1960, Pu Fu-Ji leg. (0/1 in IZCAS); Fujian, Chongan, Xingcun, Sangang, 740 m, 15.vii.1960, Yi-Ran Zhang leg. (1/1 in IZCAS); Zhejiang, Tianmushan, 24.vii.1936, without the name of collector (1/0 in IZCAS).

Distribution. China: Fujian (GRESSITT & KIMOTO 1963, BEZDĚK 2003c, present paper), Xizang (BEZDĚK 2003c). New species for China: Zhejiang.

Comments. Most of previous papers misinterpreted *A. flavovirens* and in reality these records belong to *A. beeneni* BEZDĚK, 2003. Here only the verified distributional data are presented.

Apophylia laotica BEZDĚK, 2005

Apophylia laotica BEZDĚK, 2005b, Raffles Bull. Zool., 53: 38 (Type locality: Laos, Phongsaly province, Phongsaly env.).

Type material. Paratype (male), labelled: „LAO, Phongsaly prov., / 21°41-2'N 102°6-8'E, / 28.v.-20.vi.2003, / PHONGSALY env., / ~1500m, Pacholátko leg. [w, p] // PARATYPUS, / *Apophylia* / *laotica* sp. nov., / J. Bezděk det. 2003 [red label, p]” (in JBBC).

Additional material examined. CHINA: Yunnan, Jingping, Mengla, 2.v.1956, Ke-Ren Huang et al. leg. (1/0 in IZCAS).

Distribution. Laos (BEZDĚK 2005b). New species for China (Yunnan).

Apophylia lebongana MAULIK, 1936

Apophylia lebongana MAULIK, 1936, Fauna Brit. India, p. 82 (Type locality: Darjeeling: Lebong).

Apophylia maculata KIMOTO, 1977, Ent. Basil., 2: 352 (Type locality: Bhutan, 87 km von Phuntsholing).

Type material. *Apophylia lebongana*. Lectotype (male), designated by Bezděk (2003b), labelled: “Lebong 5000ft. VI.09 H. M. L. [w, p] // *Apophylia lebongana* Mlk. [h] S. Maulik [p] paratype 1936 [w, h] // Lectotypus / *Apophylia lebongana* / Maulik, 1936 / des. J. Bezděk 2002 [red label, p]” (in BMNH).

Apophylia maculata. Holotype (female), labelled: “km 87 von Phuntsholing [p] 22.5 [w, h] // Nat.-Hist. Museum Basel – Bhutan Expedition 1972 [w, p] // Holotype [red label, p] // *Apophylia maculata* Kimoto, n. sp. [w, h]” (in NHMB).

Additional material examined. CHINA: Sichuan, Emeishan, 600-1100 m, 23.iv.1955, V. Popov leg. (0/1 in IZCAS); Yunnan, Menglongbanna, Mengsong, 1600 m, 23.iv.1958, Shu-Yong Wang leg. (0/1 in IZCAS); same data, Fu-Ji Pu leg. (1/0 in

IZCAS); same data, 26.iv.1958, Le-Yi Zheng leg. (1/0 in IZCAS); same data, 7.iv.1958, Shu-Yong Wang leg. (1/0 in IZCAS).

Distribution. India: West Bengal (MAULIK 1936, BEZDĚK 2003b, 2005b, 2008, KIMOTO 2004), Arunachal Pradesh (BEZDĚK 2008), Sikkim (BEZDĚK 2003b), Nepal (KIMOTO & TAKIZAWA 1983, MEDVEDEV 2000d, BEZDĚK 2003b, 2008), Bhutan (KIMOTO 1977), China: Yunnan (BEZDĚK 2003b, present paper). New species for China: Sichuan.

Apophylia purpurea (ALLARD, 1889)

Malaxia purpurea ALLARD, 1889a, Ann. Soc. Ent. Fr., (6)8: 332 (Type locality: Chine).

Apophylia saigonensis PIC, 1927, Mel. Exot.-ent., 50: 2 (Type locality: Saigon).

Type material. *Malaxia purpurea*. Holotype (female), labelled: „36 Chine Sepik [yellow label, h] // Ex Musæo E. Allard 1899 [w, p] // HOLOTYPE [red label, p]” (in MNHN).

Apophylia saigonensis. Lectotype (male), designated by Bezdek (2003a), labelled: „Saigon 6.1903 Fouquet [w, h] // LECTOTYPE [red label, p]” (in MNHN); paralectotype (female), labelled: „Saigon 1889 [w, h] // type [w, h] // TYPE [red label, p] // saigonensis n sp [w, h] // PARALECTOTYPE [red label, p]” (in MNHN).

Additional material examined. CHINA: Yunnan, Xishuangbanna, Damenglong, 650 m, 10.vii.1958, Xu-Wu Meng leg. (0/1 in IZCAS); Yunnan, Xishuangbanna, Damenglong, 650 m, 12.vii.1958, Yi-Ran Zhang leg. (1/0 in IZCAS); Yunnan, Xishuangbanna, Yunjinghong, 650 m, 14.v.1959, Xu-Wu Meng leg. (1/0 in IZCAS); Yunnan, Xishuangbanna, Gannanba, 540 m, 18.iv.1957, Qiu-Zheng Liang leg. (1/0 in IZCAS); Yunnan, Xishuangbanna, Gannanba, 450 m, 19.iv.1957, D. Panfilov leg. (0/1 in IZCAS); Yunnan, Xishuangbanna, Mengku, 1200 m, 4.vi.1958, without the name of collector (0/1 in IZCAS); Yunnan, Xishuangbanna, Mengla, 620-650 m, 3.v.1959, Suo-Fu Li leg. (0/1 in IZCAS); Yunnan, Xishuangbanna, Mengla, 620-650 m, 9.vi.1959, Suo-Fu Li leg. (0/1 in IZCAS).

Distribution. „Chine“ without exact locality (ALLARD 1889a, c), China: Fujian (WANG J & YANG 1998, YANG 2002), Laos (KIMOTO 1989a, BEZDĚK 2003a, 2005b, 2008), Cambodia (KIMOTO 1989a, BEZDĚK 2003a), Thailand (BEZDĚK 2003a, 2005b), Vietnam (ALLARD 1889b, PIC 1927b). New species for China (Yunnan).

Apophylia securigera CHŪJŌ, 1962

Apophylia securigera CHŪJŌ, 1962, Nature and Life in SE Asia 2: 105 (Type locality: Thailand, Chiang Mai).

Type material. Holotype (male), labelled: „Chiang Mai THAILAND 19. vi. 1958 H. IKOMA leg. [w, p] // Holotype [red label, h] // *Apophylia securigera* CHŪJŌ m [h] DET. M. CHUJO, 19[p]61[w, h]” (in KUEC).

Additional material examined. CHINA: Yunnan, Xishuangbanna, Mengla, 620-650 m, 2.v.1959, Yi-Ran Zhang leg. (1/0 in IZCAS).

Distribution. Thailand (Chûjô 1962, 1964, Kimoto 1989a, Bezděk 2003c), Laos (Kimoto 1989a, Bezděk 2003c, 2005b, 2008), Vietnam (Samoderzhnikov 1988, Bezděk 2003c). New species for China (Yunnan).

Hylaspini

Aplosonyx emeishanica (LOPATIN, 2005), **comb. nov.**

(Fig. 6)

Gallerucida emeishanica LOPATIN, 2005, Entomol. Obozr., 84: 877 (Type locality: China, Sichuan, Emei-Shan Mts.).

Aplosonyx metallicus CHEN in ZHANG, LI, ZHANG & Yang, 2008, Zootaxa, 1898: 65 (Type locality: China, Sichuan, Mt. Emeishan). **syn. nov.**

Type material. Not examined.

Additional material examined. China: Sichuan prov., Emei Mt., 1000-2000 m, 6.vi.1997, without the name of collector (1/1 in JBBC); Sichuan prov., Emei Shan, Bauguo 1300-2900 m, 7.-8.vii.2009, T. Tichý leg. (1/0 in JBBC).

Distribution. China (Sichuan) (LOPATIN 2005, ZHANG et al. 2008).

Comments. Both species were described from the same type locality Emei Shan Mt. Although the primary types of both taxa were not examined, *Aplosonyx metallicus* is synonymized with *Gallerucida emeishanica* based on the identical descriptions compared also with non-type specimens from the type locality. LOPATIN (2005) described his species in the genus *Gallerucida* MOTSCHULSKY, 1861. However, the mesosternum is not covered with anterior process of metasternum. In accordance with ZHANG et al (2008), the correct generic position of this species is in the genus *Aplosonyx* CHEVROLAT, 1836.

Aplosonyx quadripunctata (JACOBY, 1895), **comb. nov.**

(Fig. 7)

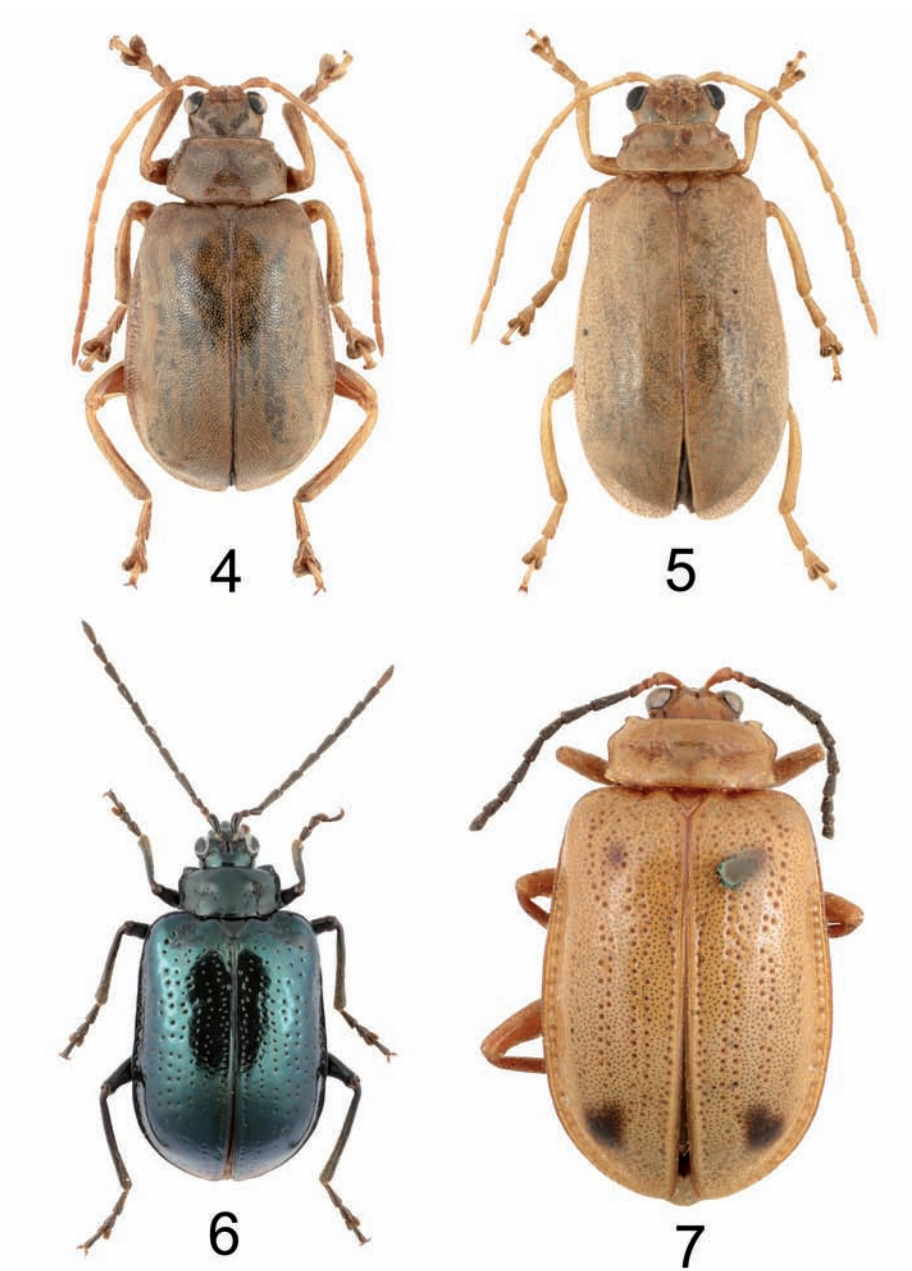
Sphenoraia quadripunctata JACOBY, 1895a, Entomologist, 1895(Suppl.): 109 (Type locality: Timor).

Aplosonyx amorphophallus MOHAMEDSAID, 2008, Zootaxa, 1910: 53 (Type locality: Indonesia, Timor, Kupang, Camlong). **syn. nov.**

Type material. *Sphenoraia quadripunctata*. Syntype (female), labelled: „Type [round white label with red collar, p] // Timor / Doherty [w, h] // Jacoby Coll. / 1909-28a. [w, p] // Sphenoraia / 4 punctata Jac. [blue label, h]“ (in BMNH); syntype (male), labelled: „Timor / Doherty [w, h] // Jacoby Coll. / 1909-28a. [w, p] // SYN- / TYPE [round white label with blue collar, p]“ (in BMNH).

Distribution. Indonesia (Timor) (JACOBY 1895a, MOHAMEDSAID 2008).

Comments. *Sphenoraia quadripunctata* was forgotten in all subsequent papers or catalogues. I had an opportunity to examine two syntypes (male and female) which perfectly fit the description of *Aplosonyx amorphophallus* including the shape of aedeagus. *Sphenoraia quadripunctata* is transferred to the genus *Aplosonyx* and *A. amorphophallus* is proposed as its new synonym. Having at disposal only two syn-



4-7. Habitus: 4 – *Sastracella laosensis* (male, 9.5 mm), 5 – *Mimastracella palpalis* (male, 7.6 mm), 6 – *Aplosonyx emeishanica* (male, 5.4 mm), 7 – *Aplosonyx quadripunctata* (syntype, female, 9.6 mm)

types of *Sphenoraia quadripunctata* (described from 8 specimens) of which the male belongs to variety with unspotted elytra, I refrain from designation of the lectotype.

***Gallerucida duporti* (LABOISSIÈRE, 1931)**

Hylaspes duporti LABOISSIÈRE, 1931, Ann. Soc. Ent. Fr. 100: 138 (Type locality: Tonkin: Cho-Ganh, Chapa).

Type material. Syntype (female), labelled: „Cha Pa / [unreadable] [w, h] // TYPE [red letters, p] / ♀ [w, h] // Hylaspes / Duporti m. [h] / V. Laboissière -- Dét. [w, p]“ (in MNHN); syntype (male), labelled: „TYPE [red letters, p] / ♂ [w, h] // Cho Gounh / Tonkin / L Duport 8/18 [w, h] // Hylaspes / Duporti m. [h] / V. Laboissière -- Dét. [w, p] // Le Moul't vend. / via Reinbek / Eing Nr 1, 1957 [w, p]“ (in ZMUH); syntype (female), labelled: „Tonkin [p] / Chapa / 15.VIII [h] 191 [p] 8 [h] / Jeanvoine [w, p] // Hylaspes / Duporti m. / paratype [h] / V. Laboissière - Dét. [w, p] // Para- / type [orange label, p] // cf. Ann. Soc. / Ent. Fr. 1931 / p. 138.139 [w, h] // R. Mus. Hist. Nat. / Belg. I. G. 12.752 [w, p]“ (in ISNB).

Additional material examined. CHINA: Yunnan, Xishuangbanna, 20 km NW of Jinghong, vic. Man Dian, 22°07.80'N 100°40.05'E, 730 m, 13.v.2008, A. Weigel leg. (3/1 in NMEG). LAOS: Hua Phan prov., Ban Saluei, Phu Phan Mt., 20°15'N 104°02'E, 1500-2000 m, 26.iv.-11.v.2001, J. Bezděk leg. (1/1 in JBBC); Hua Phan prov., Ban Saluei, Phu Phan Mt. env., 20°13'N 103°59'E, 1300-2000 m, 6.-8.v.2004, J. Bezděk leg. (5/0 in JBBC); Hua Phan prov., 25 km SE of Vieng Xai, Ban Kangpabong env., 20°19'N 104°25'E, 14.-18.v.2001, J. Bezděk leg. (3/0 in JBBC); Phongsali prov., Phongsali env., 1300-1500 m, 1.-15.v.2004, Lao collector leg. (3/0 in JBBC); Louang Namtha prov., 15 km NW of Louang Namtha, 21°07.5'N 101°21.0'E, 750 m, 13.-24.v.1997, E. Jendek & O. Šauša leg. (0/2 in JBBC).

Distribution. Vietnam (LABOISSIÈRE 1931), „Indochina“ (KIMOTO, 1989a). New species for Laos and China (Yunnan).

***Leptarthra jayarami* (VAZIRANI, 1970), comb. nov.**

Merista jayarami VAZIRANI, 1970, Rec. Zool. Surv. India 64(1966): 111 (Type locality: Kameng Div., Bomko).

Type material. Not examined.

Additional material examined. CHINA: Xizang, Tomi (Tangmai), 30 km W of Donjung, 2075 m, 11.vi.2005, A. Wrzeczionko leg. (2/0 in JBBC, JVJC).

Distribution. India: Arunachal Pradesh (VAZIRANI 1970, BEZDĚK 2009a). New species for China (Xizang).

Comments. During the preparation of my previous paper (BEZDĚK 2009a) I overlooked that the claws of this species are not bifid as typical for species of *Meristata* STRAND, 1935 but the claws are appendiculate. Due to this character it is necessary to transfer *Meristata jayarami* to the genus *Leptarthra* BALY, 1861.

Luperini***Notonicea metallica* (JACOBY, 1891), comb. nov.**

Haplosoma [sic!] *metallica* JACOBY, Entomologist 25 (suppl.): 36 (Type locality: New Guinea).

Type material. Holotype, unsexed (BMNH), labelled: „Type [white round label with red collar, p] // 196 [vertically, h] / N. Guinea / Coll. Sayer [w, p] // Jacoby Coll. / 1909-28a [w, p] // belongs to genus / Nicea Baly / ... [partly illegible, w, h] // Hoplasoma / metallica Jac. [blue label, h] // HOLOTYPUS, / Haplosoma metallica / Jacoby, 1891 / des. J. Bezdek 2007 [red label, p]“.

Distribution. New Guinea (JACOBY 1891b).

Comments. The generic position was questioned in the original description by JACOBY (1891b) himself. However, it was classified as *Hoplasoma* in all subsequent papers and catalogues (WEISE 1924, WILCOX 1973, MEDVEDEV, 2000a). Elytral epipleuron is basally very wide, thus, according to the identification key to genera of New Guinean Galerucinae (SHUTE 1983), this species belongs to *Notonicea* HINCKS, 1949.

***Notonicea ornata* (BALY, 1886), comb. nov.**

(Fig. 8)

Hoplosoma [sic!] *ornata* BALY, 1886, Trans. Ent. Soc. London 1886: 27 (Type locality: Mysol).

Type material. Syntype, unsexed (BMNH), labelled: „Mysol [w, h] // Type [white round label with red collar] // Hoplosoma / ornata / Baly / Mysol [grey label, h] // Baly coll. [w, p]“.

Distribution. Indonesia (Misool Island) (BALY 1886).

Comments. In all subsequent papers and catalogues (WEISE 1924, WILCOX 1973, MEDVEDEV, 2000a) it was classified as *Hoplasoma*. However, elytral epipleuron is basally very wide, thus, according to the identification key to genera of New Guinean Galerucinae (SHUTE 1983), this species belongs to *Notonicea* HINCKS, 1949.

***Charaea mimicum* (MEDVEDEV, 1998), comb. nov.**

Calomicrus mimica MEDVEDEV, 1998a, Ann. Hist.-nat. Mus. Nat. Hung, 90: 172 (Type locality: Taiwan, Teraso).

Type material. Not examined. Holotype and 1 paratype deposited in Medvedev's personal collection.

Additional material examined. TAIWAN: Meishan env., Kaohsiung, 100 km NW Taitung City, 23°15,9'N 120°49,5'E, 950 m, 12.vi.2008, F. & L. Kantner leg. (1/1 in JBBC); Taipei county, Guanyinshan, 500 m, 14.-21.iv.2002, G. Fábíán & O. Merkl leg. (1/2 in JBBC); Liukei, Kaohsiung, 29.iv.-8.v.1982, H. Takizawa leg. (3/3 in HTHJ).

Distribution. Taiwan (MEDVEDEV 1998a). Previous records of *Calomicrus coomani* from Taiwan (KIMOTO 1966, 1986, 1987, 1989b, 1991, TAKIZAWA et al 1995) undoubtedly refer to *Charaea mimicum*.

Comments. Together with similar species *Ch. kellogi* (GRESSITT & KIMOTO, 1963), *Ch. hainanicum* (GRESSITT & KIMOTO, 1963) or *Ch. coomani* (GRESSITT & KIMOTO, 1963), this species belongs to the group of relatively large (4.0-5.0 mm) *Charaea* species with robust tubular aedeagus terminated with more or less distinct apical process. New combination in genus *Charaea* is proposed.

***Charaea miyamotoi* (KIMOTO, 1969), comb. nov.**

(Fig. 9)

Calomicrus miyamotoi KIMOTO, 1969, Esakia 7: 42 (Type locality: Kuantzuling, Tainan Hsien).

Calomicrus takizawai MEDVEDEV, 1998a, Ann. Hist.-nat. Mus. Nat. Hung, 90: 172 (Type locality: Taiwan, Ilan prov., 150 km SE Taipei). **Syn. nov.**

Type material. *Calomicrus miyamotoi*. Not examined.

Calomicrus takizawai. Holotype (male), labelled: „TAIWAN, Ilan Prov., 150 km / SE of Taipei, 400 m, 24°23'43''N, / 121°46'74''E, 10.IV.1997, / leg. L. Peregovits & A. Kun [w, p] // HOLOTYPE [p] / Calomicrus / takizawai [h] / L. N. Medvedev det. 95 [r, p]“ (in HNHM). 2 paratypes (males), labelled: „TAIWAN, Ilan Prov., 150 km / SE of Taipei, 400 m, 24°23'43''N, / 121°46'74''E, 10.IV.1997, / leg. L. Peregovits & A. Kun [w, p] // PARATYPE [p] / Calomicrus / takizawai m. [h] / L. Medvedev det. 19 [p] 98 [r, h]“ (in HNHM).

Additional material examined. TAIWAN: Taipei county, Guanyinshan, 500 m, 14.-21.iv.2002, G. Fábán & O. Merkl leg. (1/0 in JBBC); Kaohsiung Hsien, near Liukuei, Shanping LTER site, UV light trap, 1.iv.2003, L. Papp & M. Földvári leg. (1/0 in JBBC); Taroko N. P. env., ca 50 km NW of Hualien, 24°12.4'N 121°28.9'E, 3.vi.2008, F. & L. Kantner leg. (1/1 in JBBC); Liukei, Kaohsiung, 29.iv.-8.v.1982, H. Takizawa leg. (3/3 in HTHJ).

Distribution. Taiwan (KIMOTO 1969, 1986, 1987, 1989b, 1991, TAKIZAWA et al 1995).

Comments. Although the type material of *Calomicrus miyamotoi* was not examined, the drawing of its aedeagus (KIMOTO 1969) perfectly fits with that of the type specimens of *Calomicrus takizawai*. Because of body completely metallic blue (except yellow abdomen), this species undoubtedly belongs to the genus *Charaea*.

***Charaea pseudominutum* BEENEN & WARCHALOWSKI, 2010**

Charaea pseudominutum BEENEN & WARCHALOWSKI, 2010, Ent. Bl. 106: 58 (Type locality: China, Hubei, Dashennongjia Mts.).

Type material. Not examined.

Additional material examined. RUSSIA: Ussuri reg., Kamenushka, 24.-25.vii.1989, R. Červenka leg. (1/0 in JBBC).

Distribution. North Korea, China: Hubei (BEENEN & WARCHALOWSKI 2010). New species for Russia.

***Charaea shirozui* (KIMOTO, 1969), comb. nov.**

Calomicrus shirozui KIMOTO, 1969, Esakia, 7: 43. (Type locality: Sungkang, Nantou Hsien).

Type material. Not examined.

Additional material examined. TAIWAN: Wushe, 1200 m, flight trap, 16.iii.1983, H. & M. Townes leg. (1/0 in HTHJ); Liukei, Paolai, 21.iii.1995, H. Takizawa leg. (1/0 in HTHJ); Liukei, Kaoshan, 25.iii.1995, H. Takizawa leg. (0/2 in HTHJ); nantou, Sungkang, 1.viii.1985, H. Takizawa leg. (0/1 in HTHJ); Nantou, Tongpo, 16.-18.vii.1995, H. Takizawa leg. (0/1 in HTHJ).

Distribution. Taiwan (KIMOTO 1969, 1986, 1987, 1989b, 1991, TAKIZAWA et al 1995).

Comments. This species has a typical coloration of the genus *Charaea* (body completely metallic blue, except yellow abdomen). I propose to transfer it to the genus *Charaea*. Aedeagus was pictured by KIMOTO (1969).

***Charaea takagii* (TAKIZAWA, 1988), comb. nov.**

(Fig. 10)

Calomicrus takagii TAKIZAWA, 1988b, Ent. Rev. Japan, 43: 15 (Type locality: Phulchok, Kathmandu Valley, Bagmati).

Type material. Paratype (female), labelled: „NEPAL: BAGMATI / Kathmandu Valley / Phulchok, 2500-2700m / 27.vii.1983 / Ent. Inst. Hokk. Univ. [w, p] // Calomicrus / takagii n. sp. [black letters, h] / PARATYPE [red letters, h] / det. H. Takizawa [w, p]“ (in HTHJ).

Additional material examined. SIKKIM: Bakkhim 2670 m – Choka 3050 m, 13.ix.1983, M. Tomokuni leg. (1/0 in HTHJ).

Distribution. Nepal (TAKIZAWA 1988b, 1990a, MEDVEDEV 1992a, SPRECHER-UEBERSAX 2000, KIMOTO 2001), India: West Bengal, Sikkim (TAKIZAWA 1990a).

Comments. This species is typical representative of the genus *Charaea*. The coloration of abdomen is variable from almost black (paratype examined) to yellow (specimen from Sikkim) as was mentioned by TAKIZAWA (1990a). Aedeagus was pictured by TAKIZAWA (1988b).

***Charaea yasudai* (CHÛJÔ, 1966), comb. nov.**

Cynorta yasudai CHÛJÔ, 1966, Mem. Fac. Educ. Kagawa Univ. (2)145: 11 (Type locality: Walungchung Gola, Taplejung, NE Nepal).

Calomicrus aureoviridis: KIMOTO, 1977, Ent. Basil. 2: 369 (nomen nudum); MEDVEDEV, 1990, Stuttg. Beitr. Naturk., Ser. A, 453: 22 (nomen nudum).



8



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10



11

8-11. Habitus: 8 – *Notonicea ornata* (female, 9.1 mm), 9 – *Charaea miyamotoi* (holotype of *Calomicrus takizawai*, male, 3.4 mm), 10 – *Charaea takagii* (paratype, female, 2.7 mm), 11 – *Cneorella* (?) *bicoloripennis* (holotype of *Laosixantha bicolor*, male, 6.0 mm)

Type material. Not examined. Description based on one female (holotype), the deposition of which is unknown to me.

Additional material examined. NEPAL: 27°58'N 85°00'E, 11500', vi.1967, Canad. Nepal Expedition (2/1 in HTHJ).

Distribution. Nepal (CHŪJÓ 1966, MEDVEDEV 1990, TAKIZAWA 1988a, 1990, HARTMANN & MEDVEDEV 2003), Bhutan (KIMOTO 1977), India: West Bengal (TAKIZAWA 1990a).

Comments. The type material was not examined. I studied three specimens published by TAKIZAWA (1988a) which fit the original description by CHŪJÓ (1966) and their aedeagus agree with the drawing in KIMOTO (1977). In my opinion, this species is a representative of the genus *Charaea*.

***Charaea yunnanum* (LOPATIN, 2009), comb. nov.**

Calomicrus yunnanus LOPATIN in LOPATIN & KONSTANTINOV, Zootaxa 2083: 10 (Type locality: China, Yunnan, Xiaguan-Dacang, 19 km, N 25°28'53'' E100°15'42'').

Type material. 2 paratypes (males), labelled: „China, Yunnan, Xiaguan- / Dacang 19km 08.VI.2002 / 1900m, river side / N25°28'53'' E100°15'42'' / leg. A. Konstantinov & M. Volkovitch [w, p] // Paratypus [red label, p] // *Calomicrus yunnanus* / sp. n. [h] / det. I. Lopatin, 200 [p] 5 [w, h]“ (in USNM).

Distribution. China (Yunnan).

Comments. Species with a typical coloration of the genus *Charaea* (body completely metallic blue, except yellow abdomen). Also aedeagus is short and robust as in most of *Charaea* species. Due to these characters I propose to transfer it to the genus *Charaea*.

***Cneorella* (?) *bicoloripennis* (LOPATIN, 2003)**

(Figs 3, 11, 16)

Cneorella bicoloripennis LOPATIN, 2003, Euroasian Ent. J. 2: 304 (Type locality: Vietnam, Lao-Cai prov., Sha Pa reg., Fan Si Pan Mts.).

Laosixantha bicolor MEDVEDEV, 2009a, Russ. Entomol. J., 18: 207 (Type locality: North Vietnam, prov. Lao Cai, Hoang Lien Shon, Mt. Range, env. Fanxipan). **syn. nov.**

Type material. *Cneorella bicoloripennis*. 3 paratypes (1 male, 2 females), labelled: „Vietnam Lao Cai Prov., / Sa Pa Distr, Fan Si Pan / Mt., 1900-2500 m, 20.IV- / 9.V.1999 N. L. Orlov [w, p] // 22°20'58'' N, 103°46'15'' E [w, p] // Paratypus [red label, p] // *Cneorella bicoloripennis* sp. n. [h] / det. I. Lopatin, 200 [p] 3 [w, h]“ (in ZIN).

Laosixantha bicolor. Holotype (male), labelled: „North Vietnam Pr. Lao-Cai / Hoang Lien Shon, Mt. Range, / env. Fanxipan, 1950-2100m / VII 2007, D. Fedorenko [w, p] // HOLOTYPUS / *Laosixantha bicolor* / L. Medvedev [red label, p]“ (in LMMC).

Distribution. North Vietnam (LOPATIN 2003, MEDVEDEV 2009a).

Comments. The generic position in *Cneorella* was doubted by me (BEZDĚK 2005a) but at that time I had no material available to study. In 2006, I examined three paratypes of *Cneorella bicoloripennis* and last year also the holotype of *Laosixantha bicolor*. Both taxa are identical, moreover described from the same type locality, and synonymized here. However, the generic position remains unclear. *Cneorella bicoloripennis* shares several characters with typical *Cneorella* species: anterior coxal cavities open, labrum with several setigerous pores in the transverse row and the structure of the last ventrite with deep incisions and a large cavity. On the other hand the body shape of *C. bicoloripennis* is elongate (shorter and more robust in *Cneorella*), the coloration is completely different (body in true *Cneorella* is completely metallic green or blue except yellow abdomen) and aedeagus is terminated with a downwards bent subtriangular process deeply emarginated in the middle (aedeagus in *Cneorella* has wide apex usually with two well developed lateral processes). The generic position in *Laosixantha* as was suggested by MEDVEDEV is false because *Laosixantha* has closed anterior coxal cavities and males have the last ventrite with short incisions and without a distinct median impression. In my opinion it will be necessary to erect a new genus for this species but I avoid to do it right now having actually only one specimen at disposal.

Agetocera yunnana CHEN, 1964

Agetocera yunnana CHEN, 1964, Acta Ent. Sinica, 13: 204, 210 (Type locality: Yunnan).

Type material. Paratype (male), labelled: “[in Chinese, p] // [in Cyrillic = Yunnan, Damonlun] / 610 M. 28.IV.1958. / [in Cyrillic = Liu Da-khua leg.] [w, p] // PARATYPE [yellow label, p] // Agetocera / yunnana Chen [h] / [Chinese letters] [w, p]” (in IZCAS); paratype (female), labelled: “[in Chinese, p] // [in Cyrillic = Yunnan, Damonlun] / 610 i. 28.IV.1958. / [in Cyrillic = Liu Da-khua leg.] [w, p] // PARATYPE [yellow label, p]” (in IZCAS).

Additional material examined. THAILAND: 50 km W of Tak, 900 m, 7.-8.iv.1966, J. & J. H. Sedlacek leg. (5/3 in BPBM). LAOS: Muang Sing, NW of Luang Prabang, 650 m, 6.-10.vi.1960, S. & L. Quate leg. (5/1 in BPBM); Khammouan prov., Phon Tiou, 30.iv.1965, native collector leg. (2/0 in BPBM); Borikhane prov., Pakkading, 10.v.1965, native collector leg. (5/1 in BPBM); Borikhane prov., Namkading, near Pakkading, 100 m, 22.iv.1965, J. L. Gressitt leg. (1/0 in BPBM).

Distribution. China: Yunnan (CHEN 1964, YANG et al 2001), Guangxi (YANG et al 2001), Laos (BEZDĚK 2009b, present study), Thailand (present study). Newly recorded from Thailand.

Comments. In my paper devoted to *Agetocera lobicornis* species group (BEZDĚK 2009b) I have doubted the occurrence of *A. lobicornis* BALY, 1865 in Laos and Thailand as was published by KIMOTO (1989a). Recently I had a possibility to examine KIMOTO's specimens and I can only confirm my previous speculation. All specimens published by KIMOTO (1989a) from Laos and Thailand refer to *A. yunnana*.



12



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14



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12-15. Habitus: 12 – *Liroetis viridipennis* (female, 14.8 mm), 13 – *Luperogala clermonti* (male, 11.7 mm), 14 – *Luperogala mirabilis* (male, 10.5 mm), 15 – *Calomicrus nuristanicus* (female, 4.1 mm)

***Liroetis viridipennis* KIMOTO, 1989**

(Figs 12, 17)

Liroetis viridipennis KIMOTO, 1989a, Esakia 27: 83 (Type locality: Laos, Vientiane Prov., Ban Van Eue).

Type material. Paratype (female), labelled: „Laos 1963 [p] 4 [h] / Umgeb Vanky [w, p] // PARATYPE [blue label, p] // *Liroetis* / *viridipennis* / n. sp. [w, h] // PHOTO [red label, p]“ (in ZSM).

Additional material examined. THAILAND: Chiang Mai Prov., Doi Suthep env., 1.v.1996, S. Bílý leg. (0/1 in JVJC).

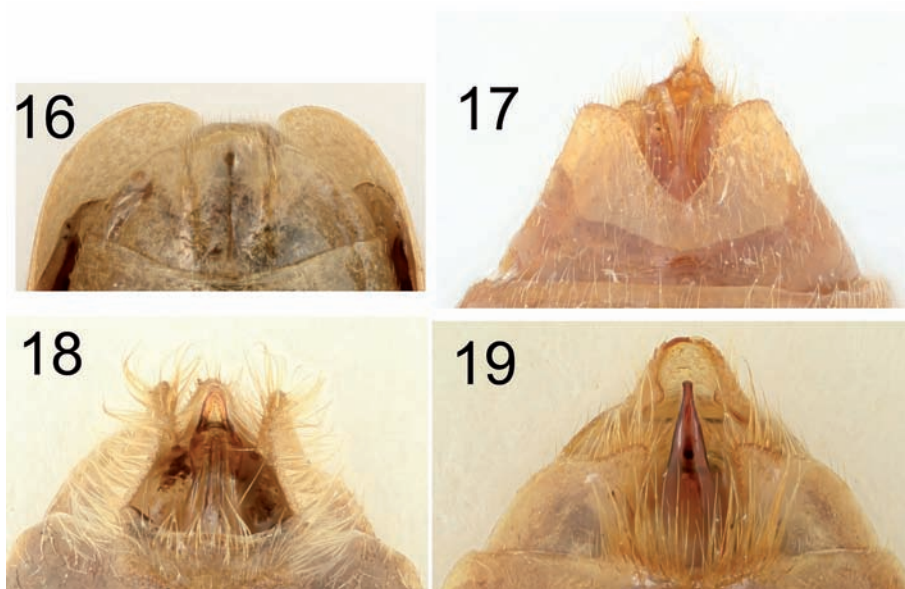
Distribution. Laos (KIMOTO 1989a). Newly recorded from Thailand.

Comments. Female has deeply incised last visible ventrite (Fig. 17).

***Luperogala* MEDVEDEV & SAMODERZHENKOV, 1989**

Luperogala MEDVEDEV & SAMODERZHENKOV, 1989, Entomofauna, 10: 454 (Type species: *Luperogala mirabilis* MEDVEDEV & SAMODERZHENKOV, 1989).

Comments. The differential diagnosis presented in the original description is very short and inadequate. Based on the open coxal cavities and margined prothorax MEDVEDEV & SAMODERZHENKOV (1989) placed *Luperogala* near genera *Liroetis*, *Pseudoliroetis* and *Cneorane* but without any other comments. Species of *Luperogala* can



16-19. Last ventrite: 16 – *Cneorella* (?) *bicoloripennis* (male), 17 – *Liroetis viridipennis* (female), 18 – *Luperogala clermonti* (male), 19 – *Luperogala mirabilis* (male)

be distinguished from *Pseudoliroetis* (now syn. of *Siemssenius*) by bordered anterior margin of pronotum (unbordered in *Siemssenius*). *Cneorane* species differ in simple structure of aedeagus and male abdomen without any processions. It is evident that *Luperogala* is very close to the genus *Liroetis* and can be discriminated by the presence of sword-like process from posterior margin of last the visible ventrite (Figs 18, 19).

***Luperogala clermonti* (LABOISSIÈRE, 1929), comb. nov.**

(Figs 13, 18)

Pseudoliroetis clermonti LABOISSIÈRE, 1929, Ann. Soc. Ent. France 98: 282 (Type locality: Tonkin: Chapa).

Luperogala paradoxa MEDVEDEV & SAMODERZHENKOV, 1989, Entomofauna, 10: 455 (Type locality: Vietnam, prov. Vinhphu, Tamdao). **syn. nov.**

Type material. *Pseudoliroetis clermonti*. Holotype (female), labelled: „Chapa [w, h] // TYPE [red letters, p] / ♀ [w, h] // Pseudoliroetis / Clermonti m [h] / V. Laboissière -- Dét. [w, p] // Le Moul't vend. / via Reinbek / Eing. Nr. 1, 1957 [w, p]“ (in ZMUH).

Luperogala paradoxa. Paratype (male), labelled: „2. Vietnam, Prov. Vinh-Phu, / Tamdao, 800-1200 m, forest / 12-22.IV.1986, leg. L. MED- / VEDEV, S. GOLOVATCH et al. [w, p] // PARATYPUS [p] / Luperogala / paradoxa [red label, h]“ (in SMNS).

Additional material examined. VIETNAM: Vini, 2.-10.v.1988, Kováčik leg. (2/0 in JBBC and JVJC).

Distribution. Vietnam (LABOISSIÈRE 1929, MEDVEDEV & SAMODERZHENKOV 1989, MEDVEDEV 2009a, WARCHALOWSKI 2008, present paper). Records from continental Malaysia (MOHAMEDSAID 1999b) and from Borneo (MOHAMEDSAID 1998, 1999a, 1999c, MOHAMEDSAID & HOLLOWAY 1999) probably refer to another species of *Liroetis* or *Luperogala*.

Comments. *Pseudoliroetis clermonti* was described by LABOISSIÈRE (1929) based on one female. Later, it was transferred to the genus *Liroetis* (see KIMOTO 1989a). The description of male was added by WARCHALOWSKI (2008). In the same paper, WARCHALOWSKI (2008) doubted its classification in the genus *Liroetis* due to the different structure of aedeagus. The comparison of the drawings and photos of both aedeagus and abdominal appendices of *Luperogala paradoxa* (see MEDVEDEV & SAMODERZHENKOV, 1989) with the description of male of *Liroetis clermonti* in WARCHALOWSKI (2008) showed that both species are identical. *Luperogala paradoxa* is proposed as a new synonym of *Luperogala clermonti* (comb. nov.).

***Luperogala mirabilis* MEDVEDEV & SAMODERZHENKOV, 1989**

(Figs 14, 19)

Luperogala mirabilis Medvedev & Samoderzhnikov, 1989, Entomofauna, 10: 455 (Type locality: Vietnam, prov. Vinhphu, Tamdao).

Type material. Not examined. Holotype is deposited in MEDVEDEV's personal collection.

Additional material examined. VIETNAM: Vinh Phu Prov., Tam Dao, 1000 m, 17.-30.vi.1999, A. Kallies leg. (0/1 in JBBC); Vini, 2.-10.v.1988, Kováčik leg. (2/0 in JBBC, JVJC).

Distribution. Vietnam (MEDVEDEV & SAMODERZHENKOV 1989, present paper).

Comments. Habitually, *Luperogala mirabilis* is similar to *Liroetis viridipennis* KIMOTO, 1989. both species can be distinguished by the coloration of legs which are completely orange in *Liroetis viridipennis* while the apical halves of tibiae and tarsi are black in *Luperogala mirabilis*. The last visible ventrite in female of *Luperogala mirabilis* is entire while deeply incised in female of *Liroetis viridipennis* (Fig. 17).

***Japonitata costata* (ALLARD, 1889), comb. nov.**

Xenarthra costata ALLARD, 1889d, C. R. Soc. Ent. Belgique 33: 115 (Type locality: Mussoorie).

Japonitata tricostata CHEN & JIANG, 1981, Insects of Xizang 1: 479, 489 (Type locality: Xizang: Gyirong).
syn. nov.

Type material. *Xenarthra costata*. Syntype (female), labelled: „Mussoorie [yellow, h] // Ex-Musaeo [p] / E. Allard [p] / 1899 [vertically, p, w]“ (in MNHN).

Additional material examined. NEPAL: Annapurna himal, Pokhara env., Bamboo env., 2500-3000 m, 18.-19.ix.2002, P. Šrámek leg. (0/1 in NMPC).

Distribution. India: Himachal Pradesh (TAKIZAWA & BASU 1987), Uttarakhand (ALLARD 1889d, TAKIZAWA & BASU 1987); China: Xizang (CHEN & JIANG 1981, 1986, 1987); Nepal (TAKIZAWA 1988a, 1988b, SPRECHER-UEBERSAX 1997, HARTMANN & MEDVEDEV 2003).

Comments. The systematic position of *Xenarthra costata* was unclear for many years. It has been ranked in different genera like *Xenarthra*, *Palpoxena* or *Platyxantha* (ALLARD 1889d, WEISE 1924, MAULIK 1936, WILCOX 1973 or BEENEN 2010). I had the possibility to examine the syntype, thus I can confirm its generic position in the genus *Japonitata*.

Recently, CHEN & JIANG (1981) described *Japonitata tricostata* from Xizang based on female specimens. TAKIZAWA & BASU (1987) described its male from northern India and reported also an additional female from Mussoorie (the type locality of *Xenarthra costata*). Because the coloration of abdomen (ventrites 1-4 black, last ventrite orange) in the syntype of *J. costata* is the same as is mentioned in both original description and redescription of *J. tricostata* I propose *J. tricostata* as a new synonym of *J. costata* (comb. nov.).

***Vietoluperus alleculoides* MEDVEDEV & DANG DAP, 1981**

Vietoluperus alleculoides MEDVEDEV & DANG DAP, 1981, Ent. Obozr., 60: 632 (Type locality: [Khatcen prov., mountains N of Khazang]).

Vietoluperus bengalicus MEDVEDEV, 2009b, Biodiversität und Naturlausstattung im Himalaya III., p. 408 (Type locality: India, West Bengal, Darjeeling distr., Kalimpong, Vati-Dara). **syn. nov.**

Type material. *Vietoluperus alleculoides*. Paratype (unsexed), labelled: „БЪETHAM горы NO / КОH-KYOHГ 400m [p] / 23.iv. [h] 1962 г. Кабаков [w, p] [= Vietnam, mountains NO of Kon Kuong, 400m, 23.iv.1962, Kabakov leg.] // Paratypus [red label, p] // Vietoluperus / alleculoides / L. Medv. et D-Dap [red label, h] // Vietoluperus / alleculoides / L. Medv. et D-Dap [h] / L. N. Medvedev det. 19 [p] 88 [w, h]“ (in SMNS); paratype (unsexed), labelled: „БЪETHAM горы NO / КОH-KYOHГ 400m [p] / 21.iv. [h] 1962 г. Кабаков [w, p] [= Vietnam, mountains NO of Kon Kuong, 400m, 21.iv.1962, Kabakov leg.] // Paratypus [red label, p] // Vietoluperus / alleculoides / L. Medv. et D-Dap [red label, h] // Ex coll. Medvedev / Acquistio XI.1999 [w, p]“ (in MSNG).

Vietoluperus bengalicus. Holotype (female), labelled: „INDIA, West Bengalen / Distr. Darjeeling / Kalimpong, Vati-Dara / 12.IV.1988, 900m NN / leg. N. Dungal [w, p] // collection / Naturkunde- / museum Erfurt [yellow label, p] // HOLOTYPUS [p] // Vietoluperus / bengalicus [h] / L. Medvedev det. [w, p]“ (in NMEG).

Distribution. Vietnam (MEDVEDEV & DANG DAP 1981), Laos, India: Megalaya (BEZDĚK 2009a), West Bengal (MEDVEDEV 2009b).

Comments. After the comparison of the holotype of *Vietoluperus bengalicus* with the specimens of *V. alleculoides* from Vietnam, Laos and India I am not able to find any reliable differences. MEDVEDEV (2009b) distinguished *V. bengalicus* from *V. alleculoides* based only on different colour and larger body (7.8 mm in *V. bengalicus*). As was mentioned in my previous paper (BEZDĚK 2009a), *V. alleculoides* is very variable in colour and the holotype of *V. bengalicus* is falling to its variability. As well as the body length of the holotype of *V. bengalicus* (7.8 mm) fits with *V. alleculoides* because the body length of the specimens in my collection varies within 5.75-9.00 mm. *Vietoluperus bengalicus* is considered to be a new synonym of *V. alleculoides*.

Nymphius artificiosus (PEYERIMHOFF, 1931), comb. nov.

Lyperodes [sic!] *artificiosus* PEYERIMHOFF, 1931, Mém. Soc. Hist. Nat. Afr. Nord 2: 111 (Type locality: Tassili occidental: Tin-Tahart).

Type material. Not examined.

Distribution. Algeria (PEYERIMHOFF 1931).

Comments. Described and subsequently classified in the genus *Lyperodes* (e. g. JOLIVET 1967, WILCOX 1973 or BEENEN 2010). Peyerimhoff (1931) provided the description with the lateral drawing of the body. Due to the peculiar abdominal processions it undoubtedly belongs to the group of yellow *Nymphius* and seems to be closely related to *N. emir* (LOPATIN, 2006) (UAE), *N. millingeni* (PIC, 1915) (Oman, Saudi Arabia) and *N. friedmani* (LOPATIN, 2002) (Israel).

Medythia quaterna (FAIRMAIRE, 1880)

Luperus quaternus FAIRMAIRE, 1880, Naturaliste 2: 317 (Type locality: Madagascar [by the title]).

Monolepta lineata KARSCH, 1882, Berl. Ent. Z. 26: 400 (Type locality: Westafrika (Chinchoxo) [by the title]).

Type material. Not examined. The photographs of type specimens of both taxa are available at: <http://www.biologie.uni-ulm.de/systax/>.

Additional material examined. OMAN: Tawi Attair env., 700-800 m, 23.-25.ix.2003, R. Červenka leg. (0/1 in JBBC); Taqah env., 270-350 m, 18.-21.ix.2003, R. Červenka leg. (0/1 in JBBC); Taqah – Nashib road, 150-500 m, 26.-28.ix.2003, R. Červenka leg. (0/1 in JBBC); Dhofar, Jabal al Qamar, 5 km N Dhalqut, 300 m, 22.ix.2011, J. Voříšek leg. (2 spec. in JVJC).

Distribution. Widely distributed through Africa (e. g. BERTI 1983). In Arabian Peninsula known from Yemen (BRYANT 1957). New species for Oman.

Calomicrus apicalis DEMAISON, 1891

Calomicrus apicalis DEMAISON, 1891, Bull. Soc. Ent. Fr., 1891: 194 (Type locality: Syrie, Akbès).

Luperus (Calomicrus) atrocephalus REITTER, 1895, Wien. Ent. Ztg. 14: 88 (Type locality: Akbes).

Luperus (Calomicrus) peyroni PIC, 1899, Bull. Soc. Hist. Nat. Autun 1899: 209 (Type locality: Syrie).

Type material. *Luperus apicalis*: Lectotype (male), designated by Bezděk (2006), labelled: „Syrie / Delagrangé [green label, h] // Type [w, h] // Muséum Paris / 1937 / Coll. Ch. Demaison [w, p] // TYPE [red label, p] // LECTOTYPUS, / *Calomicrus apicalis* / Demaison, 1891, / des. J. Bezděk 2005 [red label, p]“ (in MNHN).

Luperus atrocephalus: Holotype (female), labelled: „Syria / Akbes [w, h] // Holotypus [red letters, p] 1895 / Luperus / atrocephalus / Reitter [white label with red margins, h] // Luperus / atrocephalus / m. n. sp. Akbes [w, h] // Coll. Reitter [w, p]“ (in HNHN).

Luperus peyroni: Lectotype (female), designated by Bezděk (2007), and paralectotype (female), labelled: „Syrie / (Peyron) [w, h] // type [w, h] // TYPE [red label, p] // Museum Paris / Coll. M. Pic [w, p] // Calomicrus / Peyroni n. sp. [w, h] // LECTOTYPUS [or PARALECTOTYPUS], / *Luperus (Calomicrus) / Peyroni* Pic 1899, / des. J. Bezděk 2006 [red label, p]“ (in MNHN).

Additional material examined. CYPRUS: Akamas peninsula, Polis Latchi, 24.iv.2007, E. Heiss leg. (0/1 in JBBC); Pano Platres, 1100 m, 9.v.2008, G. Alziar leg. (1/1 in JLCF, 4/3 in MHNN).

Distribution. Turkey (MEDVEDEV 1970, Tomov 1984, ASLAN 1998, ASLAN et al. 2000, GÖK & CILBİROGLU 2003, GÖK & DURAN 2004, BEZDĚK 2006, ÖZDIKMEN 2011), Syria (PIC 1899, BEZDĚK 2006). Records from Syria: Akbes (DEMAISON 1891, Reitter 1895) refer to today's Turkey. New species for Cyprus.

Calomicrus lopatini nom. nov.

Calomicrus minutissimus LOPATIN in LOPATIN & KONSTANTINOV, 2009, Zootaxa, 2083: 11 (nec *Calomicrus minutissimus* KIMOTO, 1996, Ent. Rev. Japan, 51: 36).

Type material. 2 paratypes (male and female), labelled: „China, Yunnan, env. Dali / Cangshan Mts. 06.VI.2002 / 3700-3500m, forest/trail / N25°41'06''E100°06'13'' /

leg. A. Konstantinov & M. Volkovitsh [w, p] // Paratypus [red label, p] // *Calomicrus* / *minutissimus* sp. n. [h] / det. I. Lopatin, 200 [p] 5 [w, h]“ (in USNM).

Comments. *Calomicrus minutissimus* LOPATIN in LOPATIN & KONSTANTINOV, 2009 described from Yunnan is a primary homonym of *Calomicrus minutissimus* KIMOTO, 1996 from Taiwan. New name *Calomicrus lopatini* is suggested for species from Yunnan in honour of Igor K. LOPATIN, well known specialist in Palaearctic Chrysomelidae.

***Calomicrus nuristanicus* MEDVEDEV, 1985**

(Figs. 15, 20-23)

Calomicrus nuristanica MEDVEDEV, 1985, Ent. Obozr. 64: 375 (Type locality: Nuristan, Kamdesh).

Type material. Not examined.

Additional material examined. PAKISTAN: North-West Frontier Province, Kalash valleys, Bumburet valley, Brun vill., 29.vii.-6.viii.1998, L. Černý leg. (3/5 in JBBC).

Distribution. Afghanistan (MEDVEDEV 1985). Newly reported from Pakistan.

Comments. Based on newly collected material I would like to present some additions to the original description: male pygidium has two large lateral cavities separated by a distinct narrow keel (Fig. 21); first metatarsomere long, 1.6 times as long as the two following tarsomeres combined; last ventrite in male with two deep narrow incisions reaching ca the half of the ventrite length (Fig. 22); aedeagus is constricted before lanceolated apex which is laterally covered with short setae (Fig. 20); spermatheca with globular nodulus and C-shaped cornu gradually narrowing to sharp apex (Fig. 23).

This species belongs to the group of *Calomicrus* with the closed anterior coxal cavities and very long basimetatarsus which resembles species of the genus *Monolepta* Chevrolat, 1836. The taxonomical relationship of these *Calomicrus* and *Monolepta* is unclear and needs comprehensive study. Here I follow the original combination.

***Calomicrus tripolitanus* (PIC, 1939), valid species**

(Figs. 24, 25, 27, 29, 33)

Luperus (*Calomicrus*) *setulosus* var. *tripolitanus* PIC in KOCH, 1939, Mitt. Münch. Ent. Ges., 29: 285 (Type locality: Tauorga [= Tawurgha, Libya, 32°01'N 15°07'E]).

Type material. Holotype (female), labelled: „Tauorga / Trip. or. [w, h] // Type [pink label, p] // L. (*Calomicrus*) / *setulosus* v. nov. / *tripolitanus* [w, h]“ (in NHMB).

Additional material examined. TUNISIA: Le Kef, viii.1953, Dr. Normand leg. (2/1 in MSNV); Le Kef, Dr. Normand leg. (4/0 in NMPC, 2/0 in JBBC). ALGERIA: Mascara, without additional data (2/0 in ISNB).

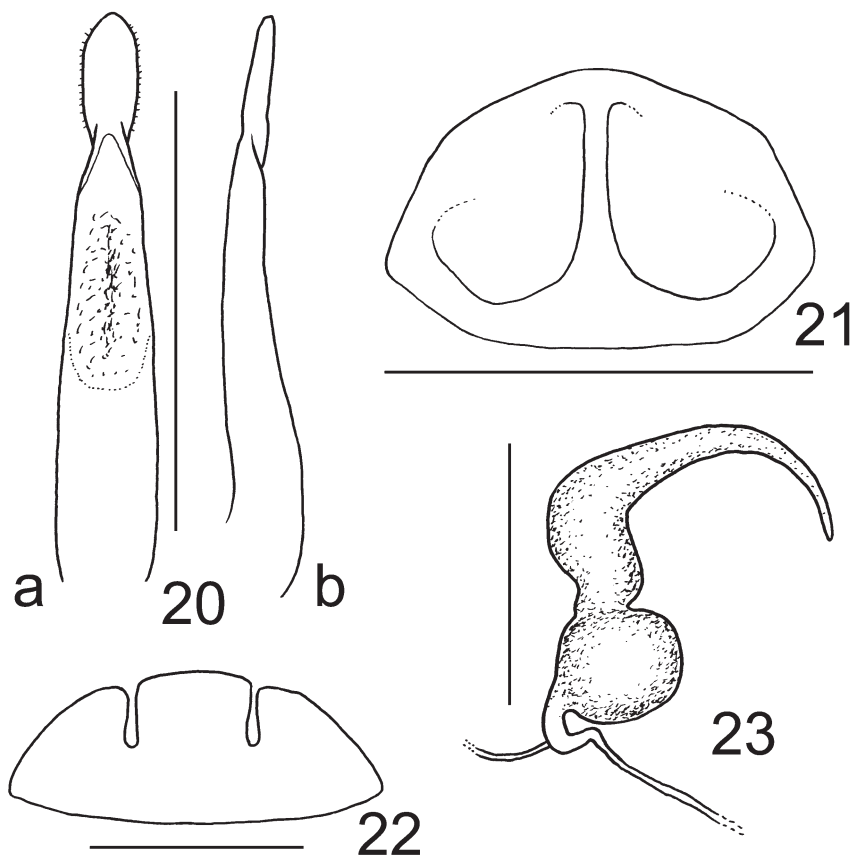
Distribution. Algeria (present paper), Libya (KOCH 1939), Tunisia (NORMAND 1937, present paper). New species for Algeria.

Comments. *Luperus* (*Calomicrus*) *setulosus* var. *tripolitanus* was described by PIC in the paper by KOCH (1939) devoted to Coleoptera from Libya based on two specimens: „typus in coll. Frey“ (now in NHMB) and „cotypus in coll. Pic“ (now

in MNHN). Thus the specimen from NHMB have to be considered as holotype. The paratype deposited in MNHN was examined several years ago by my dear colleague Jose Miguel VELA (Spain) and proved to be also a female. Erroneously it was labelled by him as a holotype (VELA 2008, pers. comm.).

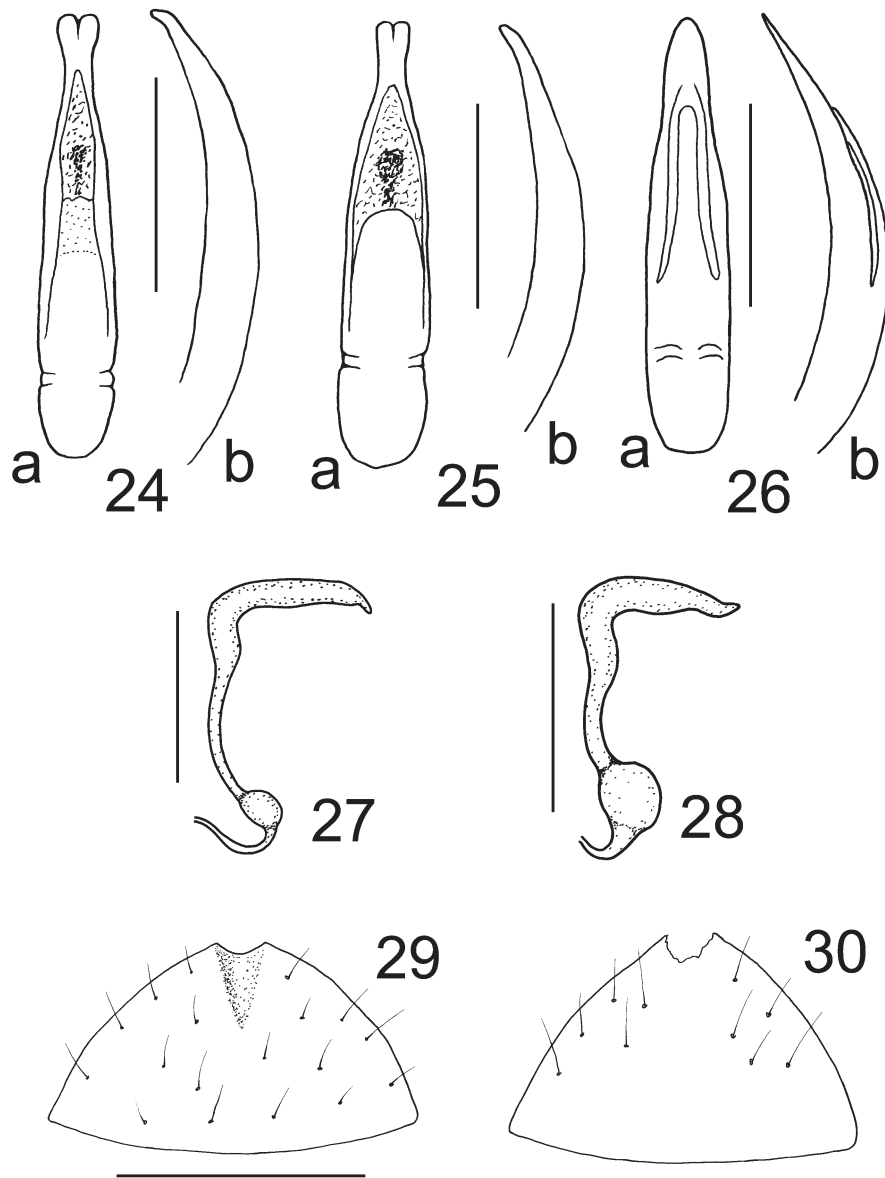
In his paper on Coleoptera from Tunis, NORMAND (1937) pictured the aedeagus of *C. setulosus* but it is not conspecific with lectotype of *C. setulosus* as was found by WARCHAŁOWSKI (1991). He considered *C. setulosus* sensu NORMAND as undescribed species. Unfortunately, WARCHAŁOWSKI (1991) did not include the varieties described in some *Calomicrus* species to his revision. In case of *C. setulosus* two varieties were described: var. *tripolitanus* PIC, 1939 from Libya and var. *subglabrata* CODINA PADILLA, 1963 from Maroc.

During the identification of undetermined material in NMPC I found the small series (6 males) of yellow *Calomicrus* from Le Kef (Tunisia) collected by Dr. NORMAND,



20-23. *Calomicrus nuristanicus*: 20 – aedeagus (a – dorsal view, b – lateral view), 21 – male pygidium, 22 – male last ventrite, 23 – spermatheca. Scales: 1 mm for Figs 20-21, 0.5 mm for Fig. 22, 0.25 mm for Fig. 23

the aedeagus of which perfectly fits the drawing in NORMAND (1937). Another three NORMAND's specimens from Le Kef (2 males, 1 female) I received subsequently from MSNV. The comparison of all available specimens with the primary types of *C. setulosus*



24-30. 24-26. Aedeagus (a – dorsal view, b – lateral view): 24 – *Calomicrus tripolitanus* (Tunisia: Le Kef), 25 – *C. tripolitanus* (Algeria: Mascara), 26 – *C. setulosus*. 27-28. Spermatheca: 27 – *C. tripolitanus*, 28 – *C. setulosus*. 29-30. Female pygidium: 29 – *C. tripolitanus*, 30 – *C. setulosus*. Scales: 0.5 mm for Figs 24-26 and 29-30, 0.25 mm for Figs 27-28

and *C. setulosus* var. *tripolitanus* showed the differences strong enough to discriminate both taxa as valid species. Var. *tripolitanus* is thus elevated to species rank.

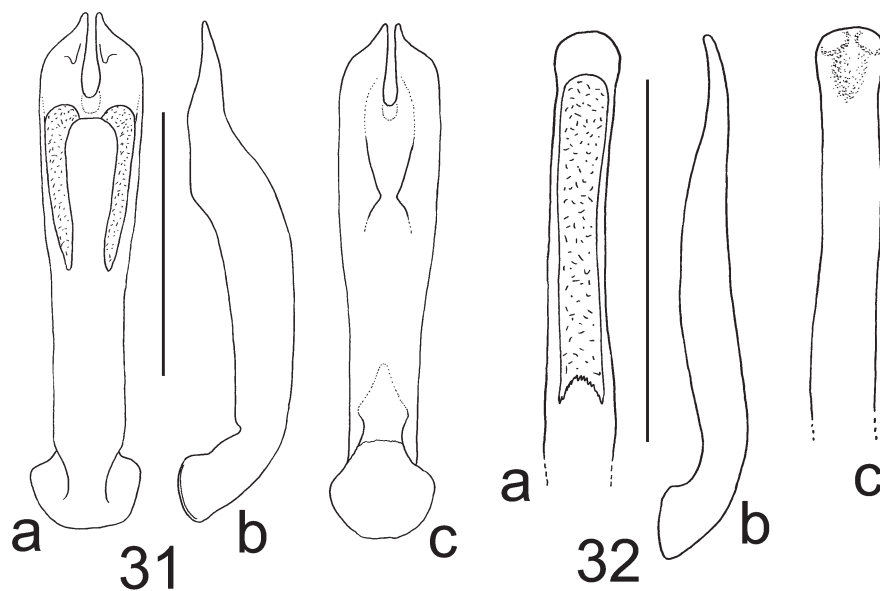
Externally, *Calomicrus tripolitanus* is closely related to *C. setulosus*. Both species share similar shape of pronotum (1.35–1.50 times as wide as long). The males can be distinguished by the structure of aedeagus: in *C. tripolitanus* the aedeagus is gradually narrowed to apex, but apex is cutted and terminated with two small bulbs (Figs. 24, 25) while aedeagus of *C. setulosus* has apex sharp (Fig. 26). The females differ in the structure of pygidium which is triangularly impressed at apex in *C. tripolitanus* and even in *C. setulosus* (Figs. 29, 30). Spermathecae of both species are similar. Basal part of cornu is more slender, slightly longer and regularly slightly rounded and nodulus is smaller in *C. tripolitanus* (Fig. 27), while basal part of cornu is slightly wider and shorter and nodulus is larger in *C. setulosus* (Fig. 28). Body length of *C. tripolitanus*: males 2.40–3.05 mm; females 2.90–3.30 mm (holotype 3.30 mm); of *C. setulosus*: males 3.00–3.20 mm (females were not measured).

Biology. According to NORMAND (1937) the adults frequently occur on the flowers of *Urginea maritima*.

Theopea bicolor KIMOTO, 1989

Theopea bicolor KIMOTO, 1989a, Esakia 27: 199 (Type locality: Vietnam, 20 km N of Pleiku).

Type material. Not examined.



31–32. Aedeagus (a – dorsal view, b – lateral view, c – ventral view): 31 – *Taumacera frontalis*, 32 – *Stenoluperus pulchellus*. Scales: 1 mm for Fig. 31, 0.5 mm for Fig. 32

Additional material examined. CHINA: Yunnan, Xishuangbanna, 37 km NW of Jinghong, Guo Men Shan, N22°17.91 E100°38.85, 1080 m, 26.v.2008, A. Weigel leg. (1 spec. in NMEG); Yunnan, Xishuangbanna, 23 km NW of Jinghong, Na Ban village (NNNR), N22°09.49 E100°39.92, 680 m, 5.vi.2008, A. Weigel leg. (1 spec. in NMEG).

Distribution. Vietnam (KIMOTO 1989a), Laos (KIMOTO 1989a, MEDVEDEV 2000b), Thailand (MOHAMEDSAID & CONSTANT 2007). New species for China: Yunnan.

***Taumacera frontalis* MOHAMEDSAID, 2001**

(Figs 31, 34)

Taumacera frontalis MOHAMEDSAID, 2001, Serangga 6: 290 (Type locality: Malaysia, Selangor, Bangi).

Type material. Not examined.

Additional material examined. MALAYSIA: Perak, Cameron Highlands, Batu (= Mile) 19 vill. env., 04°22.2'N, 101°20.0'E, 590 m, 22.-27.iv.2009, J. Hájek leg. (0/1 in JBBC); Pahang, Ringlet, 04°28'N, 101°22'E, 12.-30.iv.2007, V. Kremitovský leg. (1/0 in JBBC); THAILAND: Betong, Yala distr., Gunung Cang dun vill., 25.iii.-22.iv.1993, J. Horák leg. (0/1 in FKKC).

Distribution. Malaysia (MOHAMEDSAID 2001, present paper). New species for Thailand.

Comments. Aedeagus is pictured for the first time (Fig. 31).

***Cerophysa* CHEVROLAT, 1836**

Cerophysa CHEVROLAT, 1836, in DEJEAN Cat. Coleop., ed. 3, p. 379 (Type species: *Galleruca nodicornis* WIEDEMANN, 1823).

Oedicerus KOLLAR & L. REDTENBACHER, 1844, Kaschmir und das Reich der Siek 4: 556 (Type species: *Oedicerus cyanipennis* KOLLAR & L. REDTENBACHER, 1844).

Ozomena CHEVROLAT, 1845, D'ORBIGNY, Dictionnaire Hist. Nat. 6: 5 (Type species: *Galleruca nodicornis* WIEDEMANN, 1823).

Taumaceroides LOPATIN in LOPATIN & KONSTANTINOV, 2009, Zootaxa, 2083: 6 (Type species: *Taumaceroides sinicus* Lopatin, 2009: 7). **Syn. nov.**

Comments. According to the the peculiar structure of antennae *Taumaceroides sinicus* is closely related to *Cerophysa cyanipennis* (KOLLAR & REDTENBACHER, 1844) and *C. cyanea* (KIMOTO, 1977). For a long time, these species were ranked in the genus *Oedicerus* KOLLAR & REDTENBACHER, 1844. Recently, the genus *Oedicerus* was synonymized with the genus *Taumacera* THUNBERG, 1814 by MEDVEDEV & SPRECHER-UEBERSAX (1998) who treated *Cerophysa* as a subgenus of *Taumacera*. However, MOHAMEDSAID (1993) explained the differences and separated *Cerophysa* and *Taumacera* as two independent genera. In recent publications (e. g. BEENEN 2005, 2010) *Oedicerus* is accepted as a synonym of *Cerophysa*.

According to BEENEN (2005), *Cerophysa cyanipennis* and *C. cyanea* species belong to *Cerophysa* with modified antennomeres 4-6. *Taumaceroides sinicus* shares not only

very similar structure of antennae with both species but also the characteristic emarginations on the inner sides of profemora and protibiae. Due to above mentioned facts I propose appropriate taxonomical changes as follows: *Cerophysa* = *Taumaceroides* (syn. nov.) and *Cerophysa sinica* (comb. nov.).

Alticini

Podontia DALMAN, 1824

Podontia DALMAN, 1824, Ephem. Entomol., p. 23 (Type species: *Galleruca grandis* GRÖNDAL, 1808).

Paramerista LOPATIN, 2011, Euroas. Ent. J., 10: 143 (Type species: *Paramerista luteola* LOPATIN, 2011).

Syn. nov.

Comments. Because *Paramerista luteola* (type species of the genus *Paramerista*) is a synonym of *Podontia lutea* (OLIVIER, 1790) (see below), appropriate generic synonymy is proposed.

Podontia lutea (OLIVIER, 1790)

Chrysomela lutea OLIVIER, 1790, Enc. Meth., 5: 692 (Type locality: indet. Orientales).

Galleruca grandis GRÖNDAL in SCHÖNHERR, 1808, Syn. Insect., p. 288 (Type locality: India Orient.).

Paramerista luteola LOPATIN, 2011, Euroas. Ent. J., 10: 143 (Type locality: China, Chongqing Province, Dabashan Mountain Range, S Gaoguan vill.). **Syn. nov.**

Type material. Not examined.

Distribution. Widely distributed throughout South-east Asia and China (e. g. DÖBERL 2010, MEDVEDEV 2009c).

Comments. Although the type material was not examined, the description of *Paramerista luteola* accompanying with photos (LOPATIN 2011) undoubtedly refer to well known and widely distributed alticine *Podontia lutea* (compare e.g. with MAULIK 1926, MEDVEDEV 2000c).

Polyclada benti GAHAN, 1895

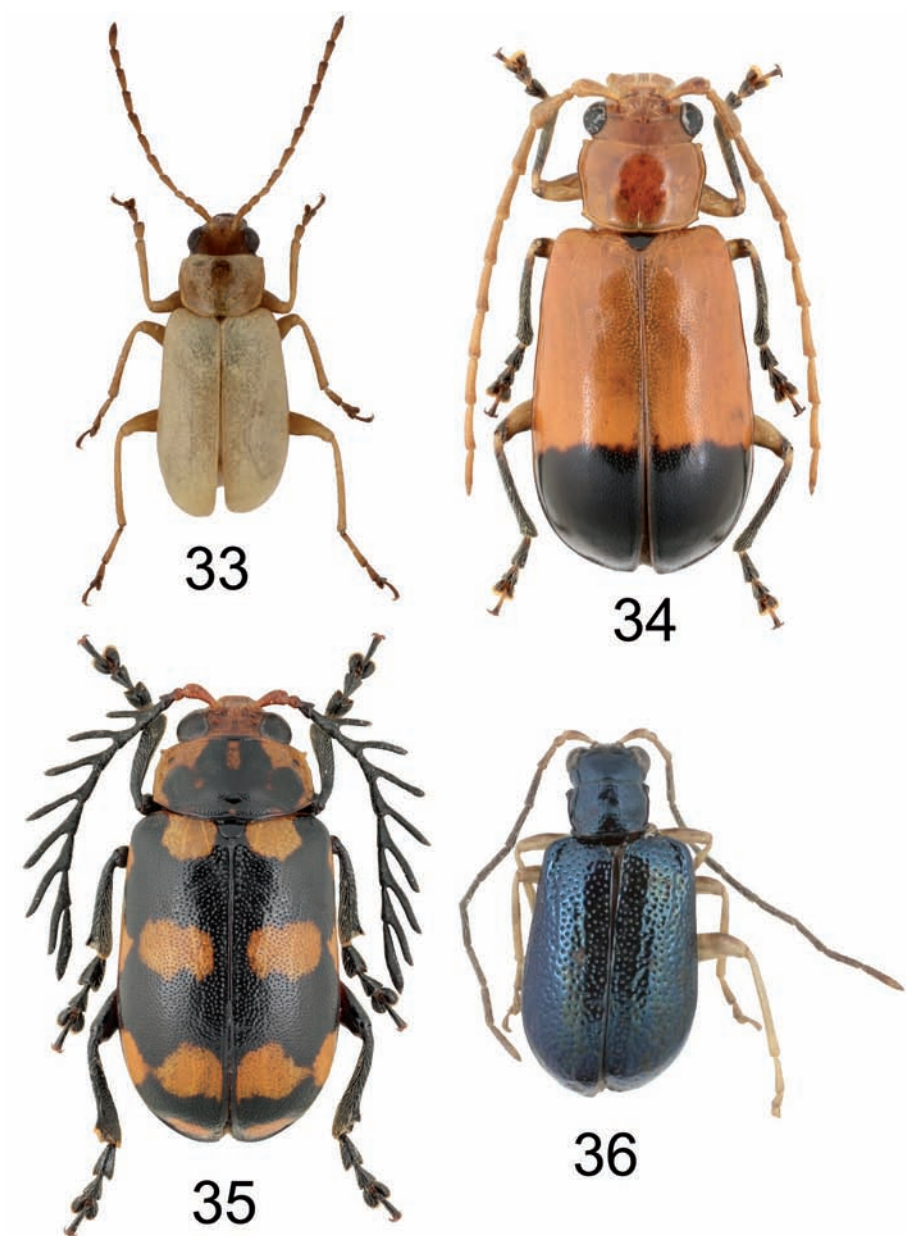
(Fig. 35)

Polyclada benti GAHAN, 1895, J. Linn. Soc. Zool. 25: 291 (Type locality: Hadramaut).

Type material. Syntype (male), labelled: „Type [white round label with red collar, p] // Hadramaut. / Arabia / 94-235. [w, p] // Polyclada / Benti, Gahan / Type [w, h]“ (in BMNH).

Additional material examined. OMAN: Dhofar prov., Jabal Samhán, 15 km W of Jufa, 17°18'N 54°94'E, 380 m, 27.ix.2011, J. Voříšek leg. (3/2 in JVJC, 1/0 in JBBC).

Distribution. Saudi Arabia (MEDVEDEV 1996), Yemen (GAHAN 1895, BRYANT 1957). New species for Oman.



33-36. Habitus: 33 – *Calomicrus tripolitanus* (male, 2.7 mm), 34 – *Taumacera frontalis* (male, 9.6 mm), 35 – *Polyclada benti* (male, 11.3 mm), 36 – *Stenoluperus pulchellus* (holotype, male, 2.7 mm)

Comments. Both BRYANT (1957) and MEDVEDEV (1996) mismatched *Polyclada benti* GAHAN, 1895 and *Polyclada bedeli* ACHARD, 1922 (described from Djibuti) and listed this species as „*Polyclada benti* Achard“. The occurrence of *P. benti* in Somalia mentioned in BRYANT (1957) and MEDVEDEV (1996) thus very probably refer to *P. bedeli*.

***Stenoluperus pulchellus* (LOPATIN, 2005), comb. nov.**

(Figs 32, 36)

Luperus pulchellus LOPATIN, 2005, Entomol. Obozr., 84: 879 (Type locality: China, S Gansu, WSW of WUDU, 8.5 km SE of Guazigou, 33°19'04'' N, 104°44'07'' E).

Type material. Holotype (male), labelled: „CH, S Gansu, WSW Wudu / 8.5 km SE of Guazigou / 33 19 04 N/104 44 07 E / H~2490 m, 11.07.2004 / Belousov & Kabak leg. [w, p] // Holotypus [red label, h] // Luperus / pulchellus sp. n. [h] / det. I. Lopatin, 200 [p] 4 [w, h] // CH S Gansu WSW / Wudu SE Guazigou / 2488 m, 11.07.2004 [w, h] // Belousov, Kabak [w, h] // ZOOLOGICAL / INSTITUTE RAS / ST. PETERSBURG [yellow label, p]“ (in ZIN).

Distribution. China (Gansu).

Comments. According to the general appearance and the shape of pronotum (relatively narrow, sparsely covered with large deep punctures and with lateral sides subparallel) this species undoubtedly belongs to the genus *Stenoluperus* OGLOBLIN, 1936. Aedeagus pictured in the original description is somewhat vague, and a more detailed drawing is presented here (Fig. 32).

Cryptocephalinae

Clytrini

***Clytra subfasciata* LACORDAIRE, 1848**

Clythra (*Clythra*) *succincta* var. *subfasciata* LACORDAIRE, 1848: Mém. Soc. R. Sci. Liège, 5: 202 (Type locality: Bengale, Chine et Java).

Clythra (*Clythra*) *succincta* LACORDAIRE, 1848: Mém. Soc. R. Sci. Liège, 5: 201 (Type locality: Bengale, Chine et Java).

Clytra oblita MONRÓS, 1953, Coleopt. Bull., 6: 49 (unnecessary replacement name for *Clythra succincta* LACORDAIRE, 1848 nec *Clythra succincta* ERICHSON, 1843, now in *Dachrys*).

Clytra subopacipennis PIC, 1943a, Opusc. Mart., 9: 15 (Type locality: Indes Mér.).

Clytra succincta var. *inhumeralis* PIC, 1943b, Opusc. Mart., 11: 14 (Type locality: Indes Mér.).

Oides neobengalensis RIZVI & KAMALUDDIN, 2011, Pakist. J. Entomol., 26: 57 (Type locality: Azad Kaschmir, Rawlakot). **Syn. nov.**

Type material. Not examined.

Distribution. India: Maharashtra (KANTNER & BEZDĚK 2007), Himachal Pradesh (KIMOTO 1967), West Bengal (LACORDAIRE 1848, JACOBY 1908), Tamil Nadu (TAKIZAWA 1990b), Sri Lanka (MEDVEDEV 1984). Listed also from Pakistan (MEDVEDEV 1984) but

without precise data. The records from Java and China (JACOBY 1908, PIC 1938) are doubtful and needs confirmation.

Comments. The color photo and drawing of aedeagus of *Oides neobengalensis* published in the original description (RIZVI & KAMALUDDIN 2011) undoubtedly refer to *Clytra subfasciata*.

***Miochira signaticollis* (KOLLAR & REDTENBACHER, 1844), comb. nov.**

(Fig. 37)

Coptocephala signaticollis KOLLAR & REDTENBACHER, 1844, In: Hügel, Kaschmir und das Reich der Siek, 4(2): 561 (Type locality: Caschmir).

Clythra montana JACOBY, 1895b, Ann. Soc. Ent. Belg. 39: 255 (Type locality: Dalhousie, Himalayas), **syn. nov.**

Miochira nuristanica LOPATIN, 1966, Ann. Hist.-natur. Mus. Nat. Hung. 58: 363 (Type locality: NO Afg. Nuristan, Baschgultal, Kamdesch), **syn. nov.**

Type material. *Coptocephala signaticollis*: Holotype (female), labelled: „Hügel. [p] / 724. [w, h] // Coptoc: / Signaticollis / Kaschmir Redt [w, h]” (NMW). *Clythra montana*: Syntype (male), labelled: „Dalhousie / Himalaya [w, h] // Jacoby Coll. / 1909—28a. [w, p] // Miochira / montana Jac. [blue label, h] // Type [white round label with red collar]” (BMNH). The holotype of *Miochira nuristanica* should be deposited in HNHM, but was not traced there (MERKL 2011, pers. comm.).

Additional material examined. INDIA: Uttar Pradesh, 15 km S of Badarinath, 30 km N of Joshimath, 10.vii.1994, M. Snížek leg. (5/5 in JBBC); Uttar Pradesh, Gaurikand, 2500 m, 6.-7.vii.2001, L. Major leg. (0/2 in JBBC).

Distribution. India: Jammu and Kashmir (KOLLAR & REDTENBACHER 1844, KIMOTO 1967), Himachal Pradesh (JACOBY 1895b, 1908, KIMOTO 1967), Uttar Pradesh (present paper), Meghalaya (JACOBY 1908); Nepal (BRYANT 1952, KIMOTO & TAKIZAWA 1973, 1981, TAKIZAWA 1987a, 1988, HARTMANN & MEDVEDEV 2003); Afghanistan (LOPATIN 1966, MEDVEDEV 1978). Listed also from Sikkim (REGALIN & MEDVEDEV 2010) but I don't know exact data or source.

Comments. LACORDAIRE (1848) transferred this species to *Gynandrophthalma* (now *Smaragdina*) and this generic combination was accepted in all subsequent papers and catalogues (JACOBY & CLAVAREAU 1906, JACOBY 1908, CLAVAREAU 1913, MEDVEDEV 2010, REGALIN & MEDVEDEV 2010). MEDVEDEV (2010) doubted its position in *Smaragdina* and unformally suggested its possible placement in *Miochira* as possible synonym of *M. nepalica* MEDVEDEV, 1998. Based on the examination of the holotype of *Coptocephala signaticollis* I can definitely confirm it in the genus *Miochira*, however, it is conspecific with *M. montana* ssp. *montana* (syntype also examined). The type material of *M. nuristanica*, synonymized with *M. montana* by MEDVEDEV (1978), was not studied but I accept Medvedev's opinion and place it also in the synonymy with *Miochira signaticollis*.

The status of *Cyaniris thibetana* PIC, 1927 seems to be unclear. It was synonymized with *M. montana* by GRESSITT & KIMOTO (1961). MEDVEDEV (1992b) separated *M. montana* ssp. *montana* and ssp. *thibetana* based on the coloration (ssp. *thibetana*

has extended black pattern on pronotum and elytra), although Medvedev himself mentioned that aedeagi of both subspecies are the same. The same concept of *M. montana* subspecies was repeated in the revision of the genus *Miochira* by MEDVEDEV (1998b). I have some doubts about the status of this subspecies if its validity is based only on



37-40. Habitus: 37 – *Miochira signaticollis* (holotype, female, 5.4 mm), 38 – *Smaragdina vaulogerii* (syn-type of *Gynandrophthalma laeviceps*, female, 4.2 mm), 39 – *Adiscus nigromaculatus* (holotype, male, 2.5 mm), 40 – *A. nigromaculatus* (holotype of *A. angulatus*, male, 2.4 mm)

the color characters. Unfortunately I have no specimen available for the study thus I tentatively left it as a valid subspecies *Miochira signaticollis* ssp. *thibetana*.

***Smaragdina vaulogeri* (Pic, 1894)**

(Fig. 38)

Gynandrophthalma vaulogeri Pic, 1894, Bull. Soc. Entomol. Fr., 1894: cclxxxv (Type locality: Syria: Akbès).

Gynandrophthalma laeviceps ABEILLE DE PERRIN, 1895, Bull. Soc. Entomol. Fr., 1895: cdv (Type locality: Akbès), **syn. nov.**

Smaragdina uyguni WARCHAŁOWSKI, 1993, Genus, 4: 129 (Type locality: das Amanus-Gebirge (Nur-Daglari, Prov. Hatay), etwa 12 km südöstlich von Iskenderun).

Type material. *Gynandrophthalma laeviceps*. Syntype (female), labelled: „AKBÈS / H^e SYRIE [w, p] // TYPE [red label, p] // laeviceps / Ab. Type. [w, h]“ (MNHN).

Smaragdina uyguni. 2 paratypes (male and female in copuli), labelled: „TURCIA MERIDION. / distr Hatay, mts. Amanus / 1000m, 16 Maii, 1990 / leg. A. Warchałowski [w, p] // Smaragdina / uyguni mihi / det. A. Warchałowski [w, p] // Paratypus [red label, p]“ (ZMHB); 2 paratypes (male and female), labelled: „TURCIA MERID. (Hatay) / Amanus, 1000m, 16.V.90 / leg. A. Warchałowski [w, p] // Smaragdina / uyguni mihi / det. A. Warchałowski [w, p] // Paratypus [red label, p]“ (JBBC).

Additional material examined. TURKEY: Hatay vil., Teknepinar, 22.-23.iv.1994, P. Průdek & J. Kovalovský leg. (1/2 in JBBC); İçel vil., Aslanlı, v.1994, D. Hauck leg. (1/0 in JBBC); İçel vil., Erdemli, Aydinlar, 6.vi.1996, M. Snížek leg. (2/3 in JBBC); İçel vil., Güzeloluk, 1200-1400 m, 11.-12.vi.1996, P. Zahradník leg. (0/1 in JBBC); SYRIA: Latakia distr., Jabal an Nusayriyah, Slinfah env., 1300 m, 6.vi.1999, J. Voříšek leg. (2/2 in JVJC).

Distribution. Turkey (Warchałowski 1993, Gök & Cilbiroglu 2003), Iran (Ghahari & Hawkeswood 2011). Previously published locality from Syria: Akbes (Pic 1894, Abeille de Perrin 1895, Pic 1897b) is placed also in today's Turkey (Hatay vil.). Here published specimens are the first ones from today's Syria.

Comments. *Smaragdina vaulogeri* was described based on an unspecified number of males because only the coloration of pronotum typical for males is mentioned in the original description. Pronotum with a median metallic band is known also in sympatric species *S. judaica* (Lefèvre, 1872) and probably due to this fact both species were synonymized independently several times (Abeille de Perrin 1895, Demaison 1896, Pic 1896 and Weise 1896). One year later, Pic (1897a) revalidated *S. vaulogeri* and also described a female (Pic 1897b). This revalidation was overlooked or not accepted in some subsequent papers (e. g. Jacoby & Clavareau 1906, Clavareau 1913, Winkler 1929). Rapilly (1983) redescribed both *S. vaulogeri* and *S. judaica* based on the study of type material, keyed the differences and designated lectotypes. Finally, Warchałowski (1993) described *S. uyguni*. Although formally *S. uyguni* was not synonymized with *S. vaulogeri*, Warchałowski himself treats it as synonym in his recent keys (Warchałowski 2003, 2010).

Smaragdina vaulogeri shows distinct sexual dimorphism - males have pronotum red with a median longitudinal blue band while females have pronotum red with several small blurred spots near basal margin or only with a blackish middle part of basal margin. *Gynandrophthalma laeviceps* was described from unspecified number of females (ABEILLE DE PERRIN 1895). One female syntype (Fig. 38) sent to me from Paris museum undoubtedly refer to females of *S. vaulogeri* and is proposed as its new synonym.

***Paraclytra cervenkai* BEZDĚK & KANTNER, 2010**

Paraclytra cervenkai BEZDĚK & KANTNER, 2010, Zootaxa, 2353: 4 (Type locality: Sultanate of Oman, Taqah env.).

Type material. Paratypes (4 males, 2 females), labelled: „OMAN mer. / Taqah env., 0-100 m, / 17.-23.9.2003, / R. Červenka leg. [w, p] // Collection / Jan Bezděk / Brno / Czech Republic [w, p]“ (JBCB).

Additional material examined. YEMEN: Jabal al Fatk, Hafw NE of Al Ghaydah, 16°38'N 53°04'E, 0-160 m, 15.x.2005, P. Kabátek leg. (1/0 in JBBC).

Distribution. Oman (BEZDĚK & KANTNER 2010). New species for Yemen.

Cryptocephalini

***Adiscus nigromaculatus* (KOLLAR & REDTENBACHER, 1844)**

(Figs 39, 40)

Phaedon nigromaculatum KOLLAR & REDTENBACHER, 1844, In: Hügel, Kaschmir und das Reich der Siek, 4(2): 562 (Type locality: Caschmir).

Adiscus angulatus MEDVEDEV & SPRECHER-UEBERSAX, 1997, Coleoptera, 1: 220 (Type locality: East Nepal, Arun valley, Num-Chichila), **syn. nov.**

Type material. *Phaedon nigromaculatum*: Holotype (male), labelled: “[blank small green round label] // Alte Sammlg. [p] / Kaschmir [w, h] // Hügel. [p] / 713. [w, h] // Nigromaculatum / Kaschmir. Rdt. [w, h]“ (NMW).

Adiscus angulatus: Holotype (male), labelled: “Num-Chichila / 15/1900m 17.6. [w, p] // O-Nepal / Arun V. [p] 1980 [h] / C. Holzschuh [w, p] // Holotype [red label, h] // Adiscus / angulatus m. [h] / det. L. Medvedev [w, p]” (NHMB).

Additional material examined. INDIA: Uttaranchal state, ca 55 km NE of Bageshwar, E of Munsiyari, 2200-2400 m, 6.-9.vii.2003, Z. Kejval & M. Trýzna leg. (2 spec. unsexed in JBBC); Uttaranchal state, ca 30 km N of Rishikesh, NW of Chamba, 1500 m, 29.-31.vii.2003, Z. Kejval & M. Trýzna leg. (1 spec. unsexed in JBBC).

Distribution. Nepal (MEDVEDEV & SPRECHER-UEBERSAX 1997), India: Jammu and Kashmir (KOLLAR & REDTENBACHER 1844), Uttaranchal (present study).

Comments. *Phaedon nigromaculatus* was proposed by GISTEL (1857) as type species of the newly established genus *Adiscus*. After that, this genus was forgotten for more than 50 years. STRAND (1916) and MONRÓS & BECHYNĚ (1956) introduced it again to the Chrysomelidae literature. MEDVEDEV (2008) published the revisional key

of *Adiscus*. Surprisingly he omitted its type species thus *A. nigromaculatus* is missing there. The comparison of holotypes of *Adiscus nigromaculatus* and recently described *A. angulatus* clearly showed that both are conspecific, differing only in the black pattern which is slightly extended in *A. nigromaculatus* (Figs 39-40) and both species are synonymized here.

Isnus biseriatus (CHAPUIS, 1877)

Coenobius biseriatus CHAPUIS, 1877, Ann. Mus. Civ. St. Nat. Genova, 9: 341 (Type locality: Abyssinie, région de Goundet à Adoua).

Coenobius arabicus LOPATIN, 1979, Fauna of Saudi Arabia, 1: 302 (Type locality: Saudi Arabia, Wadi Johan Abha).

Type material. *Coenobius biseriatus*: Syntype (unsexed), labelled: “[blank small green label] // Abyss. / Raffray [green-grey label, p] // 49 [orange label, p] // Regione boschiva da / Goundet ad Adoua / 1873 [w, p] // Coenobius / biseriatus / Chap. [w, h] // TYPUS [p] / Coenobius / biseriatus / chapuis, 1877 [orange label, h]” (MSNG).

Additional material examined. YEMEN: Wadi Dhahr, 10.vi.2009, V. Hula leg. (1 spec. in JBBC); Sana’a env., Sobaha, open Acacia scrubland, 15°20,055’N 44°07,356’E, 2600 m, V. Hula & J. Niedobová leg. (2 spec. in JBBC); Sana’a env., Bait Bow dam, 15°16,168’N 44°12,244’E, 2500 m, V. Hula & J. Niedobová leg. (6 spec. in JBBC).

Distribution. Ethiopia (CHAPUIS 1877), Saudi Arabia (LOPATIN 1979). New species for Yemen.

Cryptocephalus convergens SASSI, 2001

Cryptocephalus convergens SASSI, 2001, Atti Soc. Ital. Sci. Nat. Mus. Civ. St. Nat. Milano, 142: 136 (Type locality: Trentino Alto Adige, Belvedere di Pordoi).

Type material. Not examined.

Additional material examined. AUSTRIA: Tyrol, Ötztaler Alpen, Sölden env. - Hochgurgl, 2000-2500 m, 4.vii.2005, L. Purchart & V. Hula leg. (1/0 in JBBC).

Distribution. Andorra, France, Switzerland (SASSI 2001), Italy (SASSI 2001, REGALIN et al. 2006), Spain (BASELGA & NOVOA 2004a, 2004b). New species for Austria.

Acolastus wittmeri (LOPATIN, 1979)

Thelyterotarsus wittmeri LOPATIN, 1979, Fauna of Saudi Arabia, 1: 299 (Type locality: Saudi Arabien: Village Qaraah Khamis Mushayt).

Type material. Not examined.

Additional material examined. OMAN: Dhofar, Jabal al Qamar, 5 km N Dhalqut, 300 m, 22.ix.2011, J. Voříšek leg. (0/1 in JVJC).

Distribution. Saudi Arabia (LOPATIN 1979, 1983, MEDVEDEV 1996), Yemen (LOPATIN 2001), United Arab Emirates (BEZDĚK & BATELKA 2011). New species for Oman.

***Pachybrachis saudicus* LOPATIN, 1979**

Pachybrachys saudicus LOPATIN, 1979, Fauna of Saudi Arabia, 1: 300 (Type locality: Saudi Arabia, village Qaraah Khamis Mushyat).

Type material. Not examined.

Additional material examined. YEMEN: Haraz Mts., S slope of Al Lan Mt., 2600 m, 23.vi.2010, V. Hula & J. Niedobová leg. (0/1 in JBBC).

Distribution. Saudi Arabia (LOPATIN 1979). New species for Yemen.

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