



## Correspondence

### Two new *Perigrapha* species from China (Lepidoptera, Noctuidae)

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Two new species of *Perigrapha* Lederer, 1857 are described: *Perigrapha pekarskyi* sp. n. and *Perigrapha balazsi* sp. n. from Sichuan and Shaanxi Provinces of China. Superficially the new species resemble *Perigrapha hoenei* Püngeler, 1914, *Perigrapha extincta* Kononenko, 1989 and *Perigrapha gyulaipeteri* Ronkay, Ronkay & Hacker, 2010 from Japan, Russia and China, respectively, but differ slightly externally as well as by genitalia and DNA barcodes. Recent collecting records and taxonomic studies of this group are covered in Ahn *et al.* 1994, Kononenko 1989, Ratnasingham & Hebert 2007 and Ronkay *et al.* 2010. Acronyms for institutional repositories noted below include: AFM: Alessandro Floriani (Milan, Italy); BBT: Balázs Benedek (Törökbálint, Hungary); FHB: Franz Hofer (Baden, Austria); GBG/ZSM: Gottfried Behounek (Grafing, Germany) / Zoologische Staatssammlung, München (Germany); HNHM: Hungarian Natural History Museum (Budapest, Hungary); NRCV: Nature Research Centre (Vilnius, Lithuania); OPB: Oleg Pekarsky (Budapest, Hungary), PGM: Peter Gyulai (Miskolc, Hungary).

#### *Perigrapha pekarskyi* Saldaitis, Ivinskis & Borth sp. n.

(Figs. 5–7, 13, 19)

**Type Material.** Holotype: male (Fig. 5), China, Sichuan, N 29°43.105', E 102°36.195', near Siping, 02.iv.2011, 1600 m, Floriani leg. (deposited in GBG /ZSM); (Slide No. OP 1160m) Paratypes: 1 male (Fig. 6), with the same labels as holotype, 8 males, China, W. Sichuan, Yaan / Kangding road, Erlang Shan Mt., 2100 m, N 29°52.391', E 102°18.593', 10-11.iv.2010, leg. Floriani and 2 males the same dates, but 23.iv.2012, 3 males, China, Sichuan, N 30°40.087', E 103°13.251', Xiling Xue Shan Mt., near Dayi, 26.iii.2011, 1200 m, Floriani leg., 4 males, China, Sichuan, N 29°43.105', E 102°36.195', near Siping, 27.iii.2011, 1600 m, Floriani leg., 3 males, China, Sichuan, N 29°46.214', E 102°03.433', near Moxi, 31.iii.2011, 2400 m, Floriani leg., 8 males, China, W. Sichuan, Ya'an / Kangding road, Erlang Shan Mt., 2200 m, N 29°03.798', E 102°19.744', 01.iv.2011, Floriani leg., 1 male, China, W. Sichuan, road Dawe/Lushan, Xiling Xue Shan Mt., 2700 m, 24.iv.2010, A. Floriani leg. (coll. AFM; BBT; NRCV; OPB); 1 male, China-Sichuan, Qing-cheng Shan, 1500-1800m; 31° 12' N, 102 ° 47' E, 01-30.iv.2006, leg. V. Siniaev & Team (coll. PGM); 1 female (Fig. 7), China, Shaanxi, Taibaishan Mts, Houzhenzi, 1400 m, 07.iv.2000, leg. Plutenko, 1 male, China, Shaanxi, Siedlung Houzhenzi, Taibaishan Gebirge, Tsingling Gebirge, 1400-1500 m, 05-28.iv.2000, leg. Siniaev & Plutenko (coll. FHB); 5 males, China, Prov. Shaanxi, Mt. Tai-Bei-Shan, Hao Djenzy vill., 33°48'N, 107°43'E, 1400 m. 1-5.iv.1999, Sinajev & Plutenko; 1 female, China, Prov. Shaanxi, Foping Nature Reserve, 33°45'N, 107°48'E, 1600 m., 15-20.iv.1999, Sinajev & Plutenko (coll. Hreblay in HNHM); Slide Nos OP 1159m; OP 1173f; OP 1174m; OP 1175m; OP 1178m.

**Diagnosis.** Compared to this new species, both *P. extincta* (Figs. 1, 2) and *P. balazsi* sp. n. (Figs. 3, 4) have broader, lighter brown wings particularly in the costal and postmedian areas, larger orbicular and reniform stigmata that are closer together and a noticeable widening of the contrasting line below the orbicular stigmata. In *P. extincta* (Fig. 11) the male genitalia differ by gradually narrowing valvae; in *P. balazsi* sp. n. (Fig. 12) the male genitalia are distinguished by a wider, flat uncus, a wider, median vesica diverticula and apical diverticula with two rather than one group of spines. *P. extincta* (Fig. 17) female genitalia differ by the narrowing below the ostium, the plate on the antrum, the wide tapering appendix bursae, the wider bursa junction, and two median ribbon-like signa that are noticeably shorter than the marginal signa. *P. balazsi* sp. n. (Fig. 18) female genitalia differs by the distally narrowing appendix of bursa, narrower bursa junction, and rounded plate on antrum. COI DNA results for eight specimens of *P. balazsi* sp. n. from Sichuan differed from seven *P. pekarskyi* Sichuan specimens by 2.34% and from two *P. pekarskyi* Shaanxi specimens by 1.87%. *P. extincta* differed from *P. pekarskyi* by 4.46%. *P. hoenei* (Figs. 9, 10) differs from this new species by its much lighter