

**Description of a new *Phaleria* Latreille, 1802 from Bali and a new synonym of *Phaleria atriceps* (Lewis, 1894) (Insecta: Coleoptera: Tenebrionidae: Diaperinae: Phaleriini)**

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**Abstract**

A new species of the genus *Phaleria* Latreille, 1802 from Bali is described and figured: *Phaleria baliensis* sp. n. Furthermore a new subjective synonymy is proposed: *Phaleria marggii* Freude, 1998 syn. n. = *P. atriceps* (Lewis, 1894). New localities for this species are listed.

**Zusammenfassung**

Eine neue Art der Gattung *Phaleria* Latreille, 1802 wird beschrieben und abgebildet: *Phaleria baliensis* sp. n. Weiterhin wird eine neue subjektive Synonymie vorgeschlagen: *Phaleria marggii* Freude, 1998 syn. n. = *P. atriceps* (Lewis, 1894). Von dieser Art werden neue Funde genannt.

**Key words:** Tenebrionidae, *Phaleria*, new species, new synonym, faunistics, Oriental Region

**Introduction**

A new species of the genus *Phaleria* Latreille, 1802 from Bali is described and compared with *P. atriceps* (Lewis, 1894 and *P. panamensis* Champion 1886). *P. atriceps* (Lewis, 1894) was described by LEWIS (1894) from Japan and was indicated by GEBIEN (1939) only from there. GEBIEN (1913) and ANDO et al. (2016) cited the species for Taiwan. KASZAB (1980) reported it from Vietnam and JUNG et al. (2009) from Korea. IWAN, D. & LÖBL, I. (2020) indicate its distribution as Japan, Taiwan and the Oriental Region. The first author found it in Malaysia. Additional material was found in CML, MSNG, SMNS and ZSM. The results are listed in the present paper.

**Acronyms of depositories:**

CRG, Collection Dr. Roland Grimm, Neuenbürg, Germany; CML, Collection Dr. Martin Lillig, Saarbrücken, Germany; MSNG, Museo Civico di Storia Naturale “G.

Doria“, Genova, Italy; NME, Naturkundemuseum Erfurt, Erfurt, Germany; SMNS, Staatliches Museum für Naturkunde, Stuttgart, Germany; ZSM, Zoologische Staatssammlung, München, Germany.

***Phaleria baliensis* sp. n.**

(Figs. 1–4)

**Material.** Holotype ♂: Indonesia, Bali S, 15 km NW Sanur, Pantai Saba, 22.XII.2007, R. GRIMM leg. CRG. – Paratypes: Same data as holotype 35 ex. CRG, 5 ex. CML, 5 ex. NME, 5 ex. SMNS, 3 ex. ZSM.

**Description:** Elongate-oval; mainly black coloured (Figs. 1–2), mouthparts, sometimes base of antennae paler, with yellow hues, border of prothorax and elytra, pseudoepileura and legs testaceous to yellow. Length 4.0–4.5 mm, width 1.35–1.95 mm.

Head: Widest across the middle of eyes. Anterior border of epistoma arcuate, laterally passing over into the also arcuate genae; irregularly punctured, interspaces of punctures distinctly shagreened. Eyes large, round in lateral view; in ventral view medial triangularly and nearly meeting in the middle; frons between eyes not as wide as epistoma; antennae as in Figs. 1 and 2; first antennomere twice as long as wide, 1.5 times as long as antennomere 3; antennomere 2 shorter and narrower than antennomere 1; antennomere 3 as long as antennomere 1; antennomer 4 slightly longer than wide; antennomere 5 globular, antennomeres 6 to 10 somewhat broader than long, antennomere 11 oval.

Pronotum (Fig. 1) wider than long, length/width ratio 0.53–0.66, widest before middle; lateral margins more narrowed apically (Fig. 1) than basally; apically feebly arcuate, basally nearly straight, only feebly emarginate before the posterior angles. All margins completely bordered, arcuate, posterior corners obtuse. Distinctly shagreened, punctures finer and sparser than on head. Paraspinal suture before base about  $\frac{1}{3}$  of the length of pronotum. Anterior margin shallowly emarginate, base



Fig. 1. *Phaleria baliensis* sp. n.: Dorsal view.



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Fig. 2. *Phaleria baliensis* sp. n.: Ventral view.



**Figs. 3a-4b.** *Phaleria* sp. Aedeagus. Fig. 3a. *P. baliensis* sp. n. dorsal, Fig. 3b. *P. baliensis* sp. n. dorsal, Fig. 4a. *P. atriceps* (Lewis) dorsal, 4b. *P. atriceps* lateral.

nearly straight. Anterior corners obtuse, arcuate; posterior corners obtuse. Distinctly shagreened, punctures finer and sparser than on the head. Propleura, meso- and metaventrite shagreened and with scattered punctures. Prosternal apophysis slightly arcuate, widely projecting between mesocoxae.

Elytra (Fig. 1) subparallel sided, striate; intervals of different widths, flat, becoming slightly convex laterally and apically. Humeral angles obtuse, arcuate. Elytral base somewhat wider than pronotal base. Abdominal ventrites with small dense shagreen, finely punctured. Legs. Protibia apically widened and arcuate, meso- and metatibiae narrow.

Aedeagus see Fig. 3a, b.

**Etymology:** The species name refers to Bali where the type series was collected.

**Differential diagnosis:** From the body shape and length *Phaleria baliensis* sp. n. resembles *P. atriceps*, but *P. baliensis* sp. n. is narrower and less convex. It also differs in the shape of the aedeagus (Figs. 4a, b) and in the coloration (*P. atriceps* is not primarily black, but just a few intervals of the elytra have longitudinal black stripes and the pronotum may also have a blurred darker pattern of line or markings). Paraspinal suture is shorter, about  $\frac{1}{4}$  of the length of pronotum. Anterior corners of pronotum obtuse, but not arcuate.

*P. baliensis* sp. n. is coloured like *P. panamensis* Champion, 1868, but in *P. panamensis* the body shape is less parallel; the pronotum is broadest at base, and the paraspinal suture is about  $1/7$ th the length of the pronotum.

### New Synonym

FREUDE (1998) described *P. marggii* Freude, 1998 and compared it with *P. pallida* Lewis, 1894, from which *P. marggii* is distinct, but not with *P. atriceps*. The specimens of *P. marggii* lack the eponymous black coloured head of *P. atriceps*, or the blackening is only implied, but they otherwise coincide completely, including the aedeagus. The degree of blackening of species of the genus *Phaleria* is very variable, sometimes within a population (KIESENWETTER & SEIDLITZ 1898, SCHNEIDER 1902). Even in Japan specimens of *P. atriceps* with no black head occur (AKITA & MASUMOTO 2016). Thus *P. marggii* is considered as a junior synonym of *P. atriceps*.

### Faunistics

#### *Phaleria atriceps* (Lewis, 1894)

*P. marggii* Freude, 1998 syn. n.

**Material examined.** Japan, Nachi, S-Kii, 19.VII.1946, S. Osawa leg., 4 ex. ZSM. – Japan, Tokushima pref., Tosadomari, Naruto City, Seashore (seaweed), 1.V.2004, M. Nishikawa leg., 3 ex. CRG. – Malaysia, Johor Rompin, Kuala Rompin, 7.-8.V.1993, I. Jeniš & M. Šrba leg., 1 ex. CRG, 16 ex. ZSM. – Malaysia, Johor Rompin riv., Kuala Rompin, Jeni & Šrba leg., 5 ex., CML. (*Phaleria*, *Epiphaleria*, *atrides* Lewis, H. J. Bremer det.). – Malaysia/Johor, N Mersing, Kampung Kayu Papan, 21.XII.1994, R. Grimm & A. Rachinsky leg., 2 ex. CRG. – Malaysia/Terengganu, Kampung Kuala Besut, 11.-12.II.1994, R. Grimm & A. Rachinsky, 15 ex. CRG. – Malaysia/Terengganu, 60 km NW Kuala Terengganu, 16.II.1994, R. Grimm & A. Rachinsky, 2 ex. CRG. – Thailand, Petchaburi, Cha am, am Meer, W. Marggi leg. 11 ex. (holotype, paratypes of *P. marggii*) ZSM. – Thailand, Cha-am, Patcha buri Prov., am Strand unter Angespültüm, 3.IX.1978, H. J. Bremer leg., 1 ex. CRG, 1 ex. CML, 5 ex. ZSM (*Phaleria*, *Epiphaleria*, *marggii* Freude, H. J. Bremer det. 1999). – Thailand, Phuket, Banglao Beach, 11.XII.1997, L. Melloni leg., 1 ex. CRG, 2 ex. MSNG.

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