

# 작은 세상의 다양성

## The Diversity of Small Worlds

### Volume I

#### Issue I

Mar. 2025

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원고 작성 요령은 출판사 사슴벌레연구소 누리집을 확인하십시오.

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간행물 사업자 정보	<b>작은 세상의 다양성</b> 대표 최원석 서울시 구로구 디지털로26길 43, R동 1102-A137호
간행물 신고 번호	구로, 사00024
간행물 신고 연월일	2025년 02월 25일
발행인	최원석
편집인	최원석
발행소	작은 세상의 다양성
발행일	2025년 02월 23일
ISSN	3059-1260

# New distribution record of *Polyphylla* (*Granida*) *phongsali* (Coleoptera: Scarabaeidae: Melolonthinae) from North Vietnam

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## 초록

수염풍뎅이속에 속한 *Granida* 아속은 아시아 지역의 10종으로 구성되어 있다. 베트남에는 *P. (G.) simoni kontumensis* Kobayashi & Fujioka, 2016 와 *P. (G.) vietnamica*, 2종이 기록되었다. 본 연구는 베트남 북부에서 발견한 *P. (G.) phongsali* Zidek, 2006를 새로이 보고한다. 본 종의 진단형질과 그 사진, 베트남산 *Granida* 아속의 검색표를 함께 제공한다.

## Abstract

The subgenus *Granida* Motschulsky, 1861 of the genus *Polyphylla* Harris, 1841 comprises ten species in Asia. Two species, *P. (G.) simoni kontumensis* Kobayashi & Fujioka, 2016 and *P. (G.) vietnamica* Kobayashi & Fujioka, 2016 were recorded in Vietnam. Here, distribution record of *Polyphylla (Granida) phongsali* Zidek, 2006 from North Vietnam is newly reported. Diagnosis, photographs of morphological characters, and taxonomic key for *Polyphylla (Granida)* in Vietnam are provided.

**Keywords:** *Polyphylla*, *Granida*, new record, Vietnam, Melolonthini, Scarabaeidae

## Introduction

The subgenus *Granida* Motschulsky, 1861 of the genus *Polyphylla* Harris, 1841 consists of 10 species distributed across Japan, Taiwan and Southern continental Asia (Sehna & Bezděk, 2011; Uliana & Prokofiev, 2017). Members of the *Granida* are distinct from Eurasian subgenera by their unequal tarsal claws in male and scaly longitudinal stripes on elytra (Exceptionally *P. (G.) phongsali* Zidek, 2006 has maculate pattern). Continental species including *P. (G.) jessopi* de Wailly, 1993, *P. (G.) phongsali*, Zidek, 2006 and *P. (G.) nikodymi* de Wailly, 1993, are known to be rare with limited number of reported specimens (Sehna & Bezděk, 2011). The recent review of subgenus *Granida* from Vietnam confirmed the distribution of two species, *P. (G.) simoni kontumensis* Kobayashi & Fujioka, 2016 and *P. (G.) vietnamica* Kobayashi & Fujioka, 2016 (Uliana & Prokofiev, 2017). Here, the first distribution record of *P. (G.) phongsali* in Vietnam is

reported with diagnosis, photographs of morphological characters, and taxonomic key.

## Materials & Methods

All materials are deposited in Lee's private collection (LP; Bucheon, Korea). The morphological characters of the specimens were examined under an Olympus SZ51 stereoscopic microscope (Olympus, Tokyo, Japan). Male genitalia were dissected and placed in 10% KOH for 12 hours. Photographs were taken using a Canon DSLR camera (6d mark II) with an EF 100mm f/2.8 L macro lens (Canon, Tokyo, Japan). Morphological terms follow Zidek (2006) and Sehnal & Bezděk (2011).

## Taxonomic Accounts

Family Scarabaeidae Latreille 1802 풍뎅이과

Subfamily Melolonthinae MacLeay, 1819 검정풍뎅이아과

Tribe Melolonthini Leach, 1819 왕풍뎅이족

Genus *Polyphylla* Harris, 1841 수염풍뎅이속

Subgenus *Granida* Motschulsky, 1861

***Polyphylla (Granida) phongsalii* Zidek, 2006** (Fig. 1)

*Polyphylla phongsalii* Zidek, 2006: 10, pl.3. Type locality. N. Laos (Phongsali).

**Diagnosis (male).** Body length 23.5mm, Body moderately convex and elongated oval shape, Dorsal side reddish brown with darker pronotum and head, Clypeus nearly straight but slightly depressed in anterior margin, Protibia distinctly bidentate, Pronotum covered with three orange longitudinal stripes including two complex stripes on lateral sides; coarse punctures sparsely distributed, Distinct maculate pattern on each elytron. Male genitalia as in Fig. 1.

**Materials examined.** [LP] 1♂: Vietnam, Hà Giang, Vị Xuyên, Mt. Tay Con Linh, IV. 2024, leg. local collector.

**Distribution:** Vietnam (new record), Laos.

**Remark.** Sehnal & Bezděk (2011) stated that the nearly straight basal margin of pronotum is a valid diagnostic character for *P. (G.) phongsalii*, distinguishing it from other *Granida* species with convex margins. However, the examined specimen from Vietnam does not have straight margins suggesting that the character may have a range of variation. This new record represents the northernmost distribution of *P. (G.) phongsalii*, adjacent to the southern border of China (Yunnan) (Fig. 2).

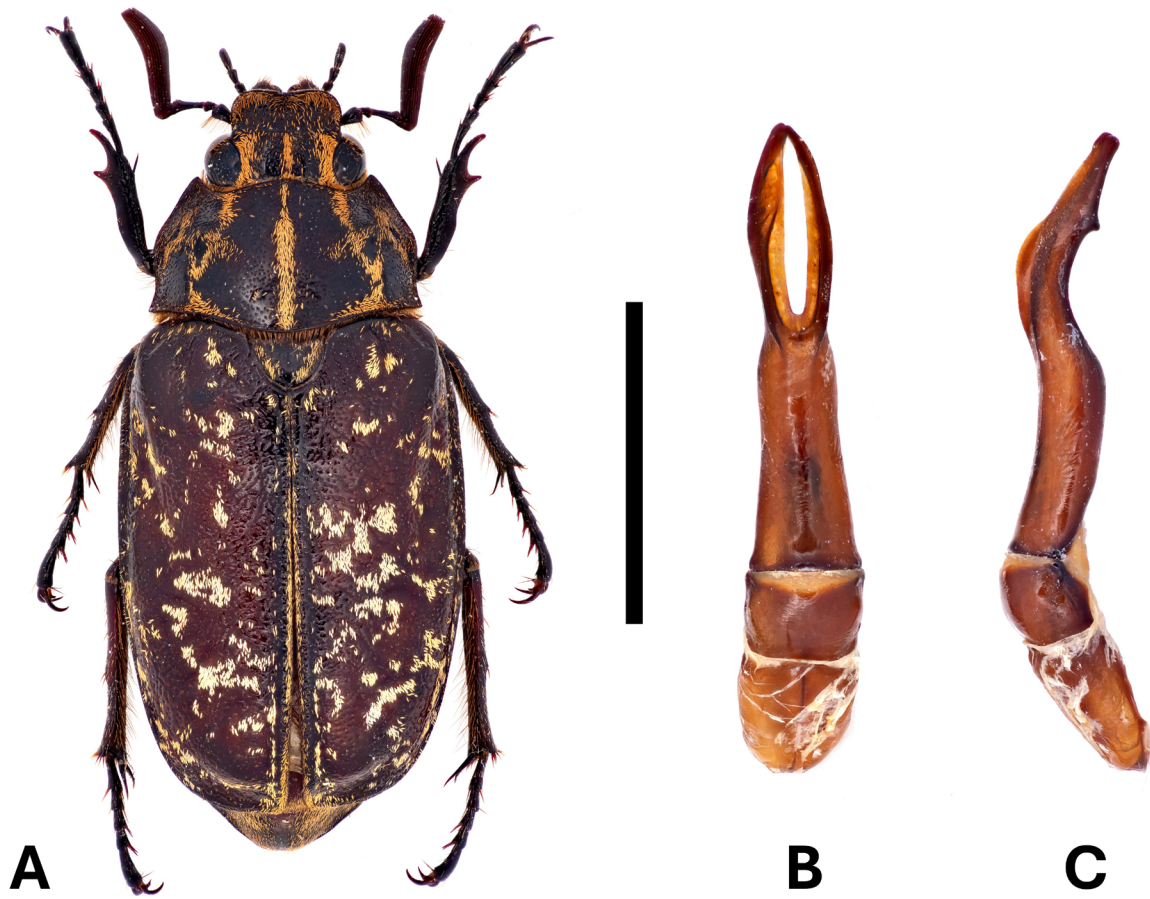


Figure 1. Male of *P. (G.) phongsali*. A) Dorsal habitus. Genitalia: B) Dorsal view C) Lateral view. Scale bar = 10 mm (A), 5 mm (B, C).

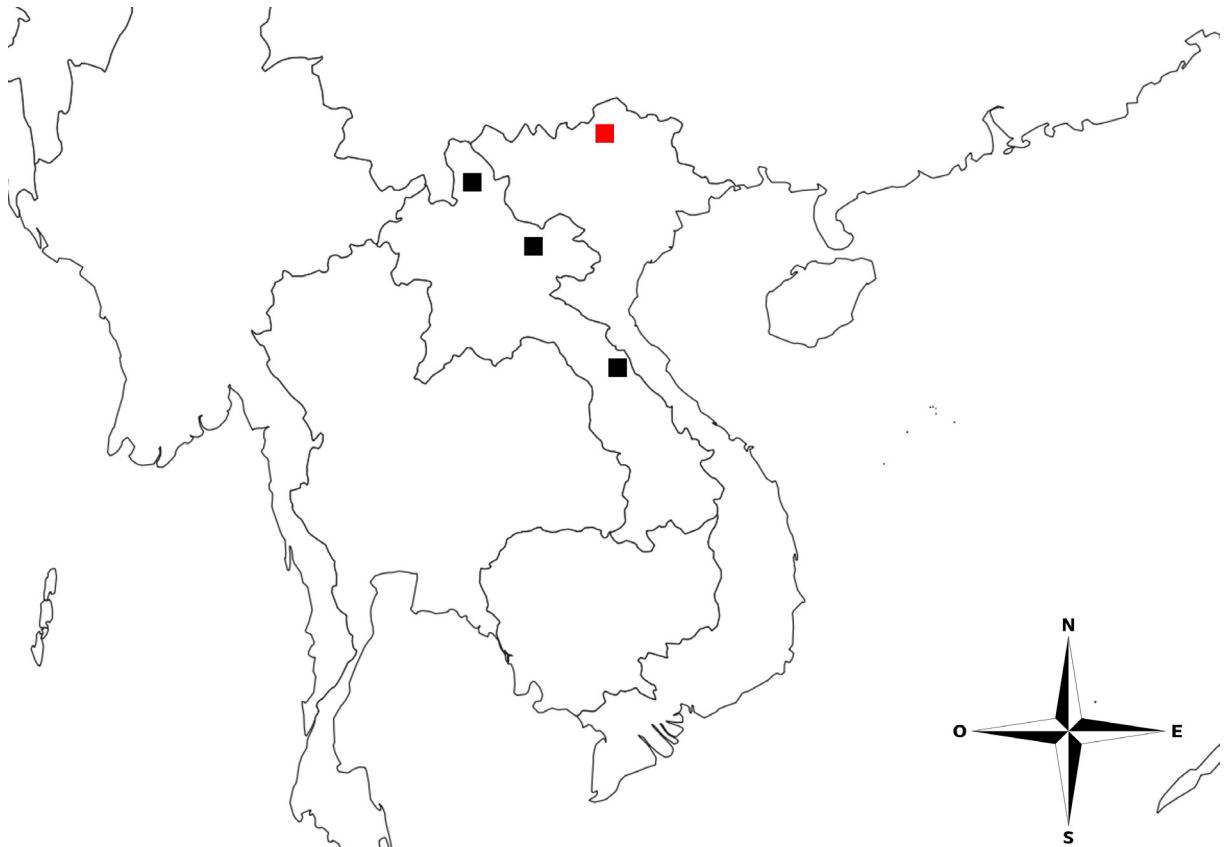


Figure 2. Distribution of *P. (G.) phongsali*. Red mark indicates a new record. Black marks indicate previously reported distribution (Zidek, 2006; Sehnal & Bezděk, 2011; Uliana & Prokofiev, 2017).

**Key to the Species of the subgenus *Granida* in Vietnam**

1. Anterior margin of clypeus slightly depressed ..... *P. (G.) phongsalii* Zidek  
 - Anterior margin of clypeus convex..... **2**
- 2(1). Elytra with well-developed longitudinal stripes ..... *P. (G.) vietnamica* Kobayashi & Fujioka  
 - Elytra with irregular stripes or maculate pattern ..... *P. (G.) simoni kontumensis* Kobayashi & Fujioka

**Acknowledgments**

I would like to thank Junhyeong Choi who helped with gathering materials.

**References**

- de Wailly P. (1993). Révision des espèces paléarctiques du genre *Polyphylla* Harris (Coleoptera Melolonthidae) (lère partie). *Bulletin de la Société Sciences Nat.*, (79), 5–14.
- Kobayashi H. & Fujioka M. (2016). Two new species of *Polyphylla* (*Granida*) (Coleoptera, Scarabaeidae, Melolonthinae) from Vietnam. *Kogane*, (18), 15–26.
- Sehnal, R., & Bezděk, A. (2011). Review of the subgenus *Polyphylla* (*Granida*) from continental Asia (Coleoptera, Scarabaeidae, Melolonthinae). *ZooKeys*, (102), 65.
- Uliana, M., & Prokofiev, A. M. (2017). Review of the subgenus *Granida* of the genus *Polyphylla* from Vietnam (Coleoptera, Scarabaeidae, Melolonthinae). *Journal of Insect Biodiversity*, 5(9), 35-382.
- Zidek J. (2006). A new species of *Polyphylla* from Laos (Scarabaeidae: Melolonthinae: Melolonthini). *Animma.x*, (17), 8–15.