



PHEIDOLE SOESILAE MAKHAN, 2007 AS DISTINCT SPECIES (HYMENOPTERA: FORMICIDAE)

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ABSTRACT

In this paper *Pheidole soesilae* Makhan, 2007 of Formicidae, is reinstated as distinct species from Suriname (Hymenoptera: Formicidae).

1. INTRODUCTION

Longino ^[1] published an article about the *Pheidole* (Hymenoptera, Formicidae) of Middle American Wet Forest. Putting *Pheidole soesilae* Makhan ^[3] into synonym and without seeing the type. *Pheidole fimbriata* Roger, 1863 is another species and shape of the body is different. The holotype is in the collection of the Naturalis Biodiversity Center in Leiden, Netherlands.

***Pheidole soesilae* Makhan, 1999, stat. rev. (Figures 1-5).**

Longino ^[1] wrote *Pheidole fimbriata* Roger, 1863: 196. Holotype major worker: "Rio Paraguay" (not examined). Full synonymy not listed. *Pheidole soesilae* Makhan ^[2]: 1, figs. 1, 2. Holotype major worker: Suriname (not examined). New Synonym. Longino ^[1].

Comments: *Pheidole fimbriata* is a widespread species, occurring from Mexico to Paraguay and Argentina. The images of the holotype major in Makhan's publication are of this highly distinctive species.

Comments: Longino ^[1] synonymised this species with *Pheidole fimbriata* Roger, 1863, stated that I see differences in the shape of the head, petiole & alitrunk.

Pheidole soesilae Makhan, 1999 shows an oval head, with short carinae around the eyes, longer carinae on the dorsal view & *Pheidole fimbriata* Roger, 1863 an elongated head, with long carinae around the eyes, longer carinae on the dorsal and lateral view.

Petiole & alitrunk is different in both species.

To reiterate and to further highlight the differences between these two species I have their photo's here in the present paper.

REFERENCES

- [1] Longino, J.T. (2019). *Pheidole* (Hymenoptera, Formicidae) of Middle American Wet Forest. *Zootaxa* 4599 (1): 001–126.

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[2] Makhan, D. (2007) Six new *Pyramica* species from Surinam. *Calodema* Supplementary Paper, No. 24, 1-7

[3] Makhan, D. (2007). *Pheidole soesilae* sp. nov. from Suriname (Hymenoptera: Formicidae). *Calodema* Supplementary Paper No. 59: 1-2.



Figure 1. Major worker holotype *Pheidole soesilae* Makhan, 2007
Head dorsal view (scale line = 0.7 mm)

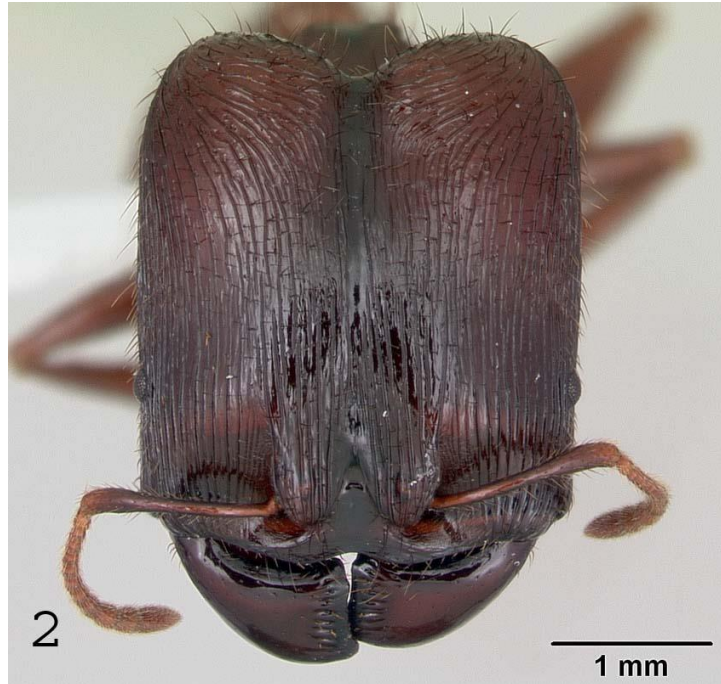


Figure 2. Major worker *Pheidole fimbriata* Roger, 1863
Head dorsal view

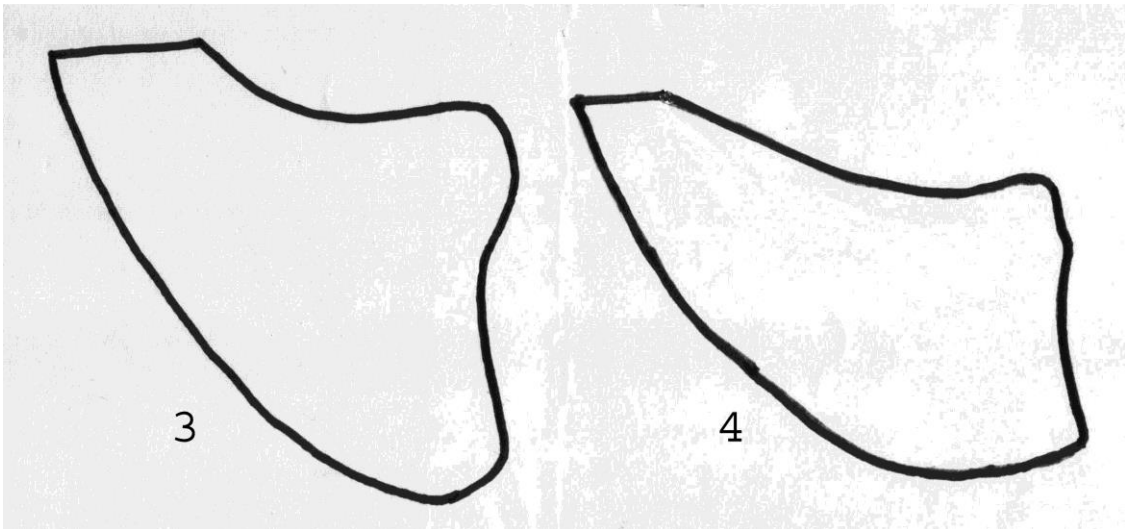


Figure 3. major worker holotype *Pheidole soesilae* Makhan, 2007
mandible dorsal view (not to scale)

Figure 4. major worker *Pheidole fimbriata* Roger, 1863
mandible dorsal view (not to scale)

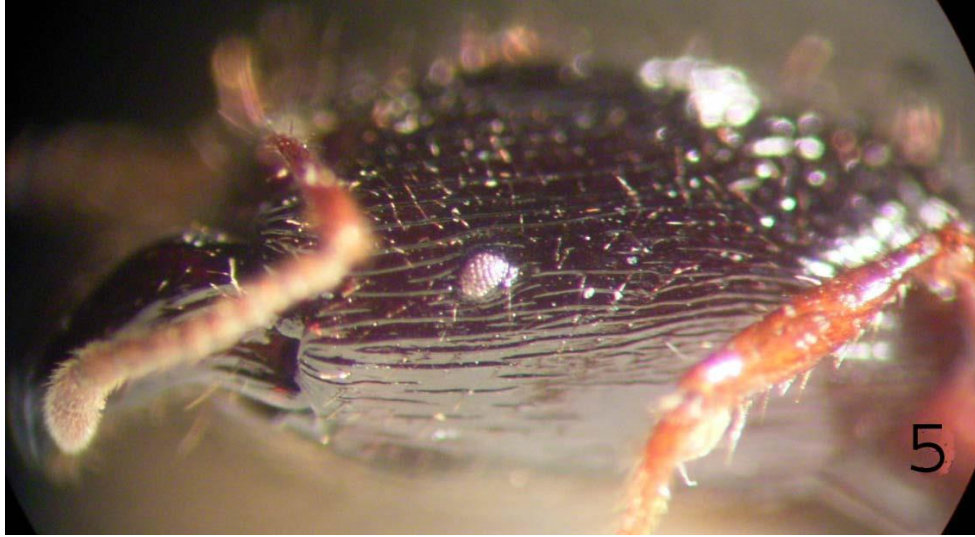


Figure 5. Major worker holotype *Pheidole soesilae* Makhan, 2007
Head lateral view (not to scale)



Figure 6. Major worker *Pheidole fimbriata* Roger, 1863
Head lateral view

Pheidole soesilae as distinct sp.

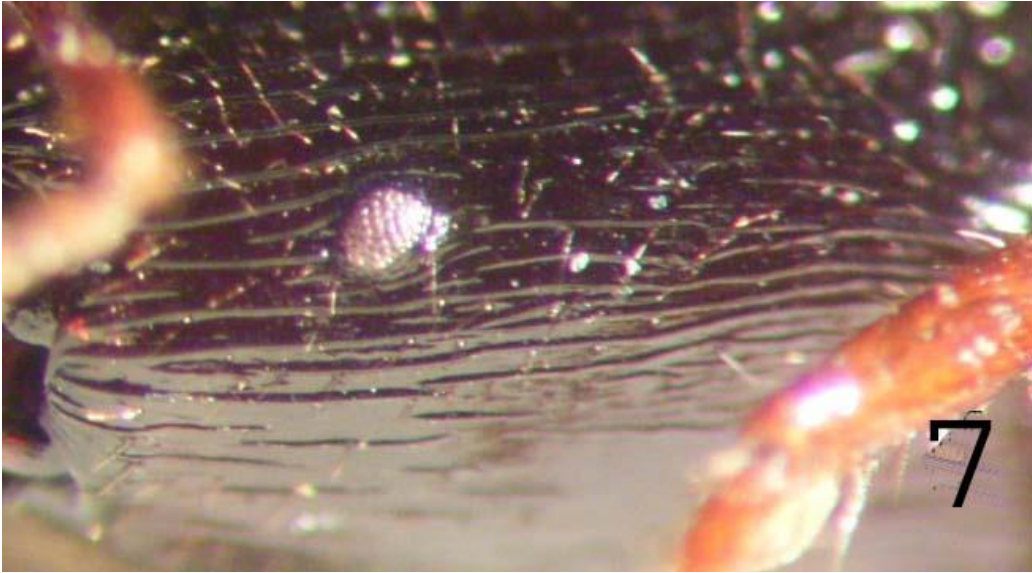


Figure 7. Major worker holotype *Pheidole soesilae* Makhan, 2007
Head lateral view (not to scale)

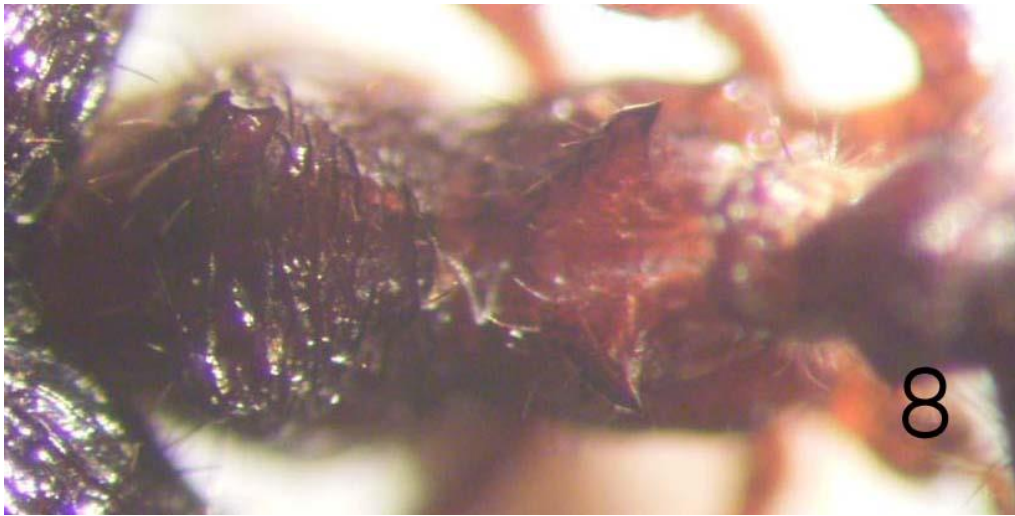


Figure 8. Major worker holotype *Pheidole soesilae* Makhan, 2007
Head, petiole & alitrunk dorsal view (not to scale)



Figure 9. Major worker holotype *Pheidole fimbriata* Roger, 1863
Head, petiole & alitrunk dorsal view (not to scale)