

# The genus *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae: Lamiinae) in the fauna of the Philippines

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The article summarizes data about 73 species of the genus *Doliops* Waterhouse, 1841 known from the Philippine Archipelago, as well as information about the distribution of species in different islands of the Philippines.

Key words: *Doliops*, Lamiinae, Cerambycidae, fauna, distribution, biogeography, Philippines.

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## INTRODUCTION

The genus *Doliops* Waterhouse, 1841 belongs to the tribe Apomecynini, subfamily Lamiinae and has been intensively studied in the recent years (Barševskis 2013, 2014, 2015, 2017a, 2017b, 2018, 2021, 2024; Barševskis & Jaeger 2014; Barševskis & Kairišs 2019; Barševskis & Cabras 2020; Barševskis et al. 2021; Cabras & Barševskis 2015; Cabras & Medina 2019; Yoshitake & Yamasako 2016, 2018a, 2018b; Vives 2005, 2009, 2011, 2012a, 2012b, 2013, 2014, 2015). All described taxa of *Doliops* from the Philippines are endemics with very narrow distribution ranges. Many of them are threatened and needs urgent protection. It is therefore very important to publish updates on faunistic data for these endangered species. This article summarizes published information on the distribution of

the genus *Doliops* in the Philippine Archipelago, critically evaluating the information.

In recent years, several studies has also been carried out on the *Doliops* / *Pachyrhynchus* mimicry complex, which is unique to many species of these two genera distributed in the Philippine and Taiwanese archipelagos. In many cases, this mimicry complex also includes some other genera of weevils, for example some species of *Polycactus*, *Metapocyrtus*, etc.. Van Dam et al. (2024) presented a Batesian mimicry complex involving flightless, armored *Pachyrhynchus* weevils and their winged *Doliops* longhorn beetle mimics and reported about their coevolutionary patterns within the Philippine Archipelago. The authors conclude that biogeography

confounds the signal of cospeciation in Batesian mimicry.

It is possible that the species of the *Doliops* / *Pachyrhynchus* mimicry complex could be used as an umbrella species complex for the protection of the most diverse jungle areas, as is the case in Europe for example with hermit beetles (*Osmoderma* LePeletier & Serville 1828) (Coleoptera: Scarabaeidae) (Smolis et al. 2023), which is used as an umbrella species for the protection of specific habitats. Unfortunately, there are no studies on the ecology of these species in the jungles of the Philippines. This is one of the tasks that should be realized by scientists in the near future.

## MATERIALS AND METHODS

In the present paper I followed the taxonomic nomenclature provided by Tavakilian & Chavillotte (2024).

The list of species of the genus *Doliops* and information about their distribution is compiled from scientific publications and compared with information in the Titan database (Tavakilian & Chavillotte 2024). For certain species, data about their distribution has been clarified, as a number of species new to science have been described in recent years, which have significantly changed the preconceptions about the distribution of certain previously known species. All this has been taken into account in the preparation of information on the distribution of species of the genus *Doliops* in the Philippines.

Abbreviations, used in Table 1:

Distribution - see in Table 2

Type deposited - in Table 3

E- endemic

## RESULTS AND DISCUSSION

According to published data, the genus *Doliops* (Fig. 1 - 5) is represented by 73 taxa in the Philippine Archipelago (Table 1). All taxa are endemic to the aforementioned archipelagos with very narrow distribution ranges. Only two species, *D. curculionoides* Waterhouse, 1841 and *D. geometricus* Waterhouse, 1842 were found on several islands. All other species are endemic to specific islands with very narrow ranges, which in nature are often specific mountain ranges or even specific mountain slopes. They are found in the crowns of tall trees. Since the species of this genus fly, it is rather problematic to pluck them from tree crowns. Most often, the species of this genus are found in the mountains, where they live together with the weevils of the genus *Pachyrhynchus*.



Fig. 1. *Doliops basilanus zamboanganus*  
Barševskis 2018 (holotype)



Fig. 2. *Doliops marifelipeae* Barševskis & Kairišs, 2019 (paratype)

Most species are currently known from Luzon Island (31 species) and Mindanao Island (29 species) (Table 2).

Apart from the two named islands, where the greatest diversity of species of the genus *Doliops* can be observed, one to four species have been found in twelve other islands of the Philippine archipelago (Table 2).

If we compare the collections of beetles, which have the largest collection of the genus *Doliops*, than at the present time one of the largest collections in the world, which has almost 4000 specimens of this genus, is at the Coleopterological Research Center of Daugavpils University, Ilgas, Latvia. Thirty-three species of the genus are deposited in (Table 3). The types of 15 taxa are deposited in the private collection of Eduard Vives (Barcelona, Spain), and types of 10 taxa are

deposited in Senckenberg Natural History collections (Dresden, Germany). The types of other taxa are deposited in another eight collections.



Fig. 3. *Doliops racsi* Barševskis & Kairišs, 2019 (paratype)

If we compare the contribution of scientists to the study of the genus *Doliops*, than the author of this article, A. Barševskis (Latvia) described 33 taxa, one species of which was synonymized. Eduard Vives has described 15 species of *Doliops*. Other authors have described from one to five species.

It is important to analyze the research intensity of the genus *Doliops* in different years (Table 5). Since the description of the

genus *Doliops* and the first species (Waterhouse 1841) and the description of the second species a year later, not more new species of this genus were described during the entire XIX century. In the first half of the XX century, various authors discovered and described 18 taxa of this genus. Over the next fifty years, only one species was described. But this century saw the beginning of intensive studies of Philippine long-horned beetles, including the genus *Doliops*, and 54 new taxa have been described during twenty-four years. It can be predicted that the discovery of new species in this genus will continue and the list of species of the Philippine fauna will be expanded.



Fig. 4. *Doliops legalovi* Barševskis & Kairišs, 2019 (holotype)



Fig. 5. *Doliops du* Barševskis 2021

Table 1. Check-list of species of the genus *Doliops* in the fauna of the Philippines

| Taxa                                                                | Distribution                        | Type deposited     | Endemic |
|---------------------------------------------------------------------|-------------------------------------|--------------------|---------|
| 1. <i>Doliops ageometricus</i> Barševskis, 2014                     | Min                                 | DUBC               | E       |
| 2. <i>Doliops anichtchenkoi</i> Barševskis, 2013                    | Luz                                 | DUBC               | E       |
| 3. <i>Doliops animulus</i> Kriesche, 1940                           | Luz                                 | ZMHB               | E       |
| 4. <i>Doliops bakeri</i> Heller, 1924                               | Neg                                 | SNSD               | E       |
| 5. <i>Doliops balalaikinsi</i> Barševskis, 2014                     | Luz                                 | DUBC               | E       |
| 6. <i>Doliops barsevskisi</i> Cabras & Medina, 2020                 | Min                                 | UMCRC              | E       |
| 7. <i>Doliops basilanus basilanus</i> Heller, 1923                  | Bas                                 | SNSD               | E       |
| 8. <i>Doliops basilanus zamboanganus</i> Barševskis, 2018           | Min                                 | DUBC               | E       |
| 9. <i>Doliops belenae</i> Yoshitake & Yamasako, 2018                | Luz                                 | NIAES              | E       |
| 10. <i>Doliops bitriangularis</i> Breuning, 1947                    | Luz                                 | NHRS               | E       |
| 11. <i>Doliops boholensis boholensis</i> Yoshitake & Yamasako, 2016 | Boh                                 | NIAES              | E       |
| 12. <i>Doliops boholensis sakaii</i> Yoshitake & Yamasako, 2018     | Ley                                 | NIAES              | E       |
| 13. <i>Doliops boteroi</i> Barševskis, 2017                         | Min                                 | DUBC               | E       |
| 14. <i>Doliops bukidnoni</i> Vives, 2014                            | Min                                 | EVC                | E       |
| 15. <i>Doliops cabrasae</i> Barševskis, 2017                        | Min                                 | DUBC               | E       |
| 16. <i>Doliops confluens</i> Kriesche, 1928                         | Buc                                 | ZMHB               | E       |
| 17. <i>Doliops coriticoi</i> Cabras & Barševskis, 2016              | Min                                 | UMCRC              | E       |
| 18. <i>Doliops costatus</i> Vives, 2012                             | Min                                 | EVC                | E       |
| 19. <i>Doliops cuellari</i> Vives, 2012                             | Min                                 | EVC                | E       |
| 20. <i>Doliops curculionoides</i> Waterhouse, 1841                  | Buc<br>Luz<br>Mas<br>Min<br>Sam Sur | NHM                | E       |
| 21. <i>Doliops daugavpilsi</i> Barševskis, 2014                     | Min                                 | DUBC               | E       |
| 22. <i>Doliops du</i> Barševskis, 2021                              | Min                                 | DUBC               | E       |
| 23. <i>Doliops dunskisi</i> Barševskis, 2017                        | Min                                 | DUBC               | E       |
| 24. <i>Doliops duodecimpunctatus</i> Heller, 1923                   | Min                                 | SNSD<br>DUBC       | E       |
| <b>Syn:</b> <i>D. gutowskii</i> Barševskis, 2013                    |                                     |                    |         |
| 25. <i>Doliops dupaxi</i> Vives, 2013                               | Luz                                 | EVC                | E       |
| 26. <i>Doliops edithae</i> Vives, 2009                              | Min                                 | EVC                | E       |
| 27. <i>Doliops elcanoi</i> Vives, 2011                              | Luz                                 | EVC                | E       |
| 28. <i>Doliops emmanueli</i> Vives, 2009                            | Luz                                 | EVC                | E       |
| 29. <i>Doliops frosti</i> Schultze, 1923                            | Sam                                 | SNSD               | E       |
| 30. <i>Doliops geometricus</i> Waterhouse, 1842                     | Buc<br>Min<br>Sia                   | Ley<br>Sam<br>ZMHB | E       |
| <b>Syn:</b> <i>D. geometrica conjuncta</i> Kriesche, 1928           |                                     |                    |         |

|                                                            |     |       |   |
|------------------------------------------------------------|-----|-------|---|
| 31. <i>Doliops gertrudis</i> Hüdepohl, 1990                | Neg | ZSBS  | E |
| 32. <i>Doliops halconensis</i> Vives, 2012                 | Mnd | EVC   | E |
| 33. <i>Doliops havai</i> Barševskis, 2018                  | Luz | DUBC  | E |
| 34. <i>Doliops helleri</i> Vives, 2009                     | Luz | EVC   | E |
| 35. <i>Doliops huruki</i> Barševskis, 2014                 | Min | DUBC  | E |
| 36. <i>Doliops imitator</i> Schultze, 1918                 | Luz | SNSD  | E |
| 37. <i>Doliops imomzodai</i> Barševskis, 2017              | Min | DUBC  | E |
| 38. <i>Doliops isabelae</i> Vives, 2014                    | Luz | EVC   | E |
| 39. <i>Doliops ismaeli</i> Vives, 2005                     | Bab | EVC   | E |
| 40. <i>Doliops jirouxi</i> Barševskis, 2014                | Luz | DUBC  | E |
| 41. <i>Doliops johnvictori</i> Vives, 2009                 | Luz | EVC   | E |
| 42. <i>Doliops kaorui</i> Yoshitake & Yamasako, 2018       | Pan | NIAES | E |
| 43. <i>Doliops kaupersi</i> Barševskis, 2024               | Min | DUBC  |   |
| 44. <i>Doliops kivleniecae</i> Barševskis, 2014            | Min | DUBC  | E |
| 45. <i>Doliops legalovi</i> Barševskis & Kairiss, 2019     | Min | DUBC  | E |
| 46. <i>Doliops ligatus</i> Schwarzer, 1929                 | Luz | SMF   | E |
| 47. <i>Doliops marifelipeae</i> Barševskis & Kairiss, 2019 | Luz | DUBC  | E |
| 48. <i>Doliops metallicus</i> Breuning, 1938               | Luz | SNSD  | E |
| 49. <i>Doliops mindoroensis</i> Barševskis, 2017           | Mnd | DUBC  | E |
| 50. <i>Doliops multifasciatus</i> Schultze, 1922           | Min | SNSD  | E |
| 51. <i>Doliops octomaculatus</i> Breuning, 1938            | Luz | NHMB  | E |
| 52. <i>Doliops pachyrrhynchoides</i> Heller, 1917          | Luz | SNSD  | E |
| 53. <i>Doliops pinedai</i> Vives, 2012                     | Luz | EVC   | E |
| 54. <i>Doliops racsi</i> Barševskis & Kairiss, 2019        | Luz | DUBC  | E |
| 55. <i>Doliops rukmaneae</i> Barševskis, 2017              | Min | DUBC  | E |
| 56. <i>Doliops santossilvai</i> Barševskis, 2017           | Min | DUBC  | E |
| 57. <i>Doliops savenkovi</i> Barševskis, 2013              | Luz | DUBC  | E |
| 58. <i>Doliops schultzei</i> Barševskis & Jäger, 2014      | Pol | DUBC  | E |
| 59. <i>Doliops serapavinae</i> Barševskis, 2014            | Min | DUBC  | E |
| 60. <i>Doliops shavrini</i> Barševskis, 2013               | Luz | DUBC  | E |
| 61. <i>Doliops siargaoensis</i> Schultze, 1919             | Sia | SNSD  | E |
| 62. <i>Doliops sklodowskii</i> Barševskis, 2013            | Luz | DUBC  | E |
| 63. <i>Doliops stradinsi</i> Barševskis, 2013              | Luz | DUBC  | E |
| 64. <i>Doliops tamutisi</i> Barševskis, 2014               | Min | DUBC  | E |
| 65. <i>Doliops taylori</i> Vives, 2013                     | Luz | EVC   | E |
| 66. <i>Doliops transverselineatus</i> Breuning, 1947       | Luz | NHRS  | E |
| 67. <i>Doliops um</i> Barševskis, 2019                     | Min | DUBC  | E |
| 68. <i>Doliops urdanetai</i> Vives, 2011                   | Luz | EVC   | E |

|                                                  |     |      |   |
|--------------------------------------------------|-----|------|---|
| 69. <i>Doliops valainisi</i> Barševskis, 2013    | Min | DUBC | E |
| 70. <i>Doliops villalobosi</i> Heller, 1926      | Sam | SNSD | E |
| 71. <i>Doliops viridisignatus</i> Breuning, 1947 | Luz | NHRS | E |
| 72. <i>Doliops vivesi</i> Barševskis, 2013       | Luz | DUBC | E |
| 73. <i>Doliops ziedonisi</i> Barševskis, 2017    | Min | DUBC | E |

Table 2. Abbreviations, full names and number of taxa in different islands of the Philippine Archipelago

| Island         | Number of taxa |
|----------------|----------------|
| Bab - Babuyan  | 1              |
| Bas - Basilan  | 1              |
| Boh - Bohol    | 1              |
| Buc - Bucas    | 3              |
| Ley - Leyte    | 2              |
| Luz - Luzon    | 31             |
| Mas - Masbate  | 1              |
| Min - Mindanao | 29             |
| Mnd - Mindoro  | 2              |
| Neg - Negros   | 2              |
| Pan - Panay    | 1              |
| Pol - Polilo   | 1              |
| Sam - Samar    | 4              |
| Sia - Siargao  | 2              |

Table 3. Abbreviations and full name of collections and umber of taxa which type / types deposited

| Collection                                                                                        | Number of taxa which type / types deposited |
|---------------------------------------------------------------------------------------------------|---------------------------------------------|
| DUBC - Daugavpils University Beetles Collection, Ilgas, Latvia                                    | 33                                          |
| EVC - Eduard Vives Private Collection - Barcelona, Spain                                          | 15                                          |
| SNSD - Senckenberg Natural History collections, Dresden, Germany                                  | 10                                          |
| ZMHB - Museum für Naturkunde, Berlin, Germany                                                     | 3                                           |
| NIAES - Laboratory of Insect Systematics, Institute of Agroenvironmental Sciences, Tsukuba, Japan | 4                                           |
| NHRS - Naturhistoriska Riksmuseet, Stockholm, Sweden                                              | 3                                           |
| UMCRC - University of Mindanao, Coleoptera Research Centre, Davao, Philippines                    | 2                                           |
| NHMB - Naturhistorisches Museum Basel, Switzerland                                                | 1                                           |
| SMF - Natur Museum und Forschungs Institute Senckenberg, Frankfurt am Main, Germany               | 1                                           |
| NHM - The Natural History Museum, London, UK                                                      | 2                                           |
| ZSBS - Zoologische Staatssammlung des Bayrischen Staates, Munich, Germany                         | 1                                           |

Table 4. Number of *Doliops* taxa described by authors

| Authors     | Number of taxa |
|-------------|----------------|
| Barševskis  | 33 (1)         |
| Vives       | 15             |
| Heller      | 5              |
| Breuning    | 5              |
| Schultze    | 4              |
| Yoshitake   | 4              |
| Yamasako    | 4              |
| Kriesche    | 3(1)           |
| Kairišs     | 3              |
| Cabras      | 2              |
| Waterhouse  | 2              |
| Aurivillius | 1              |
| Medina      | 1              |
| Hüdepohl    | 1              |
| Jaeger      | 1              |

Table 5. Research intensity of the genus *Doliops* in different years

| Period      | Number of described taxa |
|-------------|--------------------------|
| 1841 - 1899 | 2                        |
| 1900 - 1949 | 18                       |
| 1950 - 1999 | 1                        |
| 2000 - 2024 | 54                       |

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**REFERENCES**

- Barševskis A. 2013. Contribution to the knowledge of the genus *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae). *Baltic Journal of Coleopterology*, 13 (2): 73-89.
- Barševskis A. 2014. New species and new records of the genus *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae). *Baltic Journal of Coleopterology*, 14(1): 113-135.
- Barševskis A. 2015. The genus *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae). *Proceedings of 1st International scientific – practical Conference “Contemporary Problems of Entomology in Eastern Europe”, Belarus, Minsk, 8th – 10th September, 2015*, pp.11 – 14.
- Barševskis A. 2017a. Four new species of the genus *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae) from Mindanao Island, the Philippines. *Baltic Journal of Coleopterology*, 17 (1): 69-82.

- Barševskis A. 2017b. Four new species and a new synonymy in the genus *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae) from Philippines. *Baltic Journal of Coleopterology*, 17(2): 161-173.
- Barševskis A. 2018. New species and subspecies of *Doliops* Waterhouse, 1841 and *Lamprobityle* Heller, 1923 (Coleoptera: Cerambycidae) from the Philippines. *Baltic Journal of Coleopterology*, 18(2): 297-304.
- Barševskis A. 2021. A new species of the genus *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae) from Leyte Island, the Philippines. *Baltic Journal of Coleopterology*, 21 (2): 147 - 150.
- Barševskis A. 2024. New species of the genus *Doliops* Westwood, 1841 (Coleoptera: Cerambycidae) from Philippines. *Baltic Journal of Coleopterology*, 24(1) [in press]
- Barševskis A., Barševska Z., Vanaga A., Borodina O., Roze L., Pilace S., Mantilla L. K. C. 2021. To the knowledge of long-horned beetles (Coleoptera: Cerambycidae) of the Oriental Region (with new synonymy). Part 4. *Baltic Journal of Coleopterology*, 21(2): 229 - 247.
- Barševskis A., Cabras A.A. 2020. New records of *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae: Lamiinae) from the Philippines and Taiwan. *Journal of Tropical Coleopterology*, 1(1): 3-16.
- Barševskis A., Cabras A. A., Medina M.N. 2020. New records of *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae: Lamiinae) from the Philippines. *Acta Biologica Universitatis Daugavpiliensis*, 20(2): 189 – 195.
- Barševskis A., Jaeger O. 2014. Type specimens of the genera *Doliops* Waterhouse, 1841 and *Lamprobityle* Heller, 1923 (stat. nov.) (Coleoptera: Cerambycidae) and description of two new species deposited in Senckenberg Natural History collections Dresden, Germany. *Baltic Journal of Coleopterology*, 14(1): 7-19.
- Barševskis A., Kairiš K. 2019. Three new species of the genus *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae). *Baltic Journal of Coleopterology*, 19 (2): 243 – 251.
- Cabras A. A., Barševskis A. 2016. Review on *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae) of Mindanao, Philippines with description of a new species. *Baltic Journal of Coleopterology*, 16(2): 143-156.
- Cabras A. A., Medina M. N. D. 2019. New species and new distributional record of *Doliops* Waterhouse, 1841 (Coleoptera: Cerambycidae: Lamiinae) with notes on ecology and mimicry from Mindanao Island, Philippines. *Baltic J. Coleopterol.*, 19(2): 179 – 186.
- Smolis A., Zajac K., Tyszecka K., Kadej M. 2023. Why is the hermit beetle so rare in Central European managed forests? Habitat requirements of the forest population of *Osmoderma barnabita*. *Forest Ecology and Management*, 548 <https://doi.org/10.1016/j.foreco.2023.121407>
- Tavakilian G., Chevillotte H. 2024. Base données Titan surles

- Cerambycidés ou Longicornes. <http://titan.gbif.fr>. [Accessed on 25.08.2024].
- Van Dam M.H., Parisotto A., Medina M.N., Cabras A.A., Gutierrez - Trejo N., Wilts B.D., Lam A.W. 2024. Biogeography confounds the signal of cospeciation in Batesian mimicry, Current Biology, <https://doi.org/10.1016/j.cub.2024.09.084>
- Vives E. 2009. New or interesting Cerambycidae from Philippines (Col. Cerambycidae), Part II. *Les Cahiers Magellanes*, 88: 1-25. Vives E. 2005. New or interesting longhorns from the Philippines (Part I) (Coleoptera, Cerambycidae). *Les Cahiers Magellanes*, 49: 1-14.
- Vives E. 2011. New or interesting longhorns from the Philippines (Part IV) (Coleoptera, Cerambycidae). *Les Cahiers Magellanes*, NS, 3: 9-19.
- Vives E. 2012b. New or interesting Cerambycidae from the Philippines (Part VI) (Coleoptera, Cerambycidae). *Les Cahiers Magellanes*, NS, 9: 34-46.
- Vives E. 2012a. New or interesting Cerambycidae from the Philippines (Part V) (Coleoptera, Cerambycidae). *Les Cahiers Magellanes*, NS, 7: 70-82.
- Vives E. 2013. New or interesting Cerambycidae from the Philippines (Part VII) (Coleoptera, Cerambycidae). *Les Cahiers Magellanes*, NS, 11: 62- 75.
- Vives E. 2014. New or interesting Cerambycidae from Philippines (IX). (Coleoptera, Cerambycidae). *Elytron*, 26: 37- 47.
- Vives E. 2015. New or interesting Cerambycidae from the Philippines (Part X) (Coleoptera, Cerambycidae, Cerambycinae). *Les Cahiers Magellanes*, NS, 18: 1-18.
- Yoshitake H, Yamasako J. 2016. A new Doliops (Coleoptera, Cerambycidae) from Bohol Island, the Philippines. Japanese Journal of Systematic Entomology, 22: 1-5.
- Yoshitake H, Yamasako J. 2018a. A new subspecies of Doliops boholensis Yoshitake, Yamasako (Coleoptera, Cerambycidae) from Leyte Is., the Philippines. *Elytra*, (n. ser.), 8(1): 53-55.
- Yoshitake H, Yamasako J. 2018b. Two new Doliops (Coleoptera, Cerambycidae, Lamiinae) from the Philippines. *Elytra*, (n.ser.), 8(2): 279-287.

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