



Supplementary data on some dobsonflies and fishflies (Megaloptera: Corydalidae) from Vietnam

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Abstract. Faunistic data of 12 species of Corydalidae recently collected in North Vietnam are presented. Material from research conducted in 2023 and 2024 allowed us to add a new genus (*Parachauliodes* van der Weele, 1909) of this family in Vietnam. An updated checklist of the family is provided for Vietnam and neighboring Countries is provided.

Riassunto. *Dati faunistici addizionali su alcuni Corydalinae e Chaulioidinae (Megaloptera: Corydalidae) del Vietnam.* Vengono presentati nuovi dati faunistici relativi a 12 specie di Corydalidae recentemente raccolti nel nord Vietnam. Il materiale derivante da ricerche condotte nel 2023 e nel 2024 ha permesso di aggiungere un nuovo genere (*Parachauliodes* van der Weele, 1909) di questa famiglia in Vietnam. Viene fornita una checklist aggiornata della famiglia per il Vietnam e i Paesi vicini.

Tóm tắt. *Bổ sung một số loài côn trùng cánh rộng nhóm dobsonfly và fishfly (Megaloptera: Corydalidae) ở Việt Nam.* Bài báo trình bày dẫn liệu về khu hệ gồm 12 loài côn trùng cánh rộng thuộc họ Corydalidae mới được thu thập ở miền Bắc Việt Nam. Các mẫu vật thu thập trong giai đoạn 2023–2024 đã bổ sung một giống mới *Parachauliodes* van der Weele, 1909) thuộc họ này cho Khu hệ côn trùng Việt Nam. Đồng thời, danh lục cập nhật các loài thuộc họ này ở Việt Nam và các quốc gia lân cận cũng được cung cấp.

Keywords. Corydalinae, Chaulioidinae, Oriental Region.

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Introduction

The reiteration of field collections of Megaloptera in Vietnam in the context of a “Memorandum of Understanding” between the Vietnam National Museum of Nature, Hanoi and the Museum of Natural History, University of Florence “La Specola” conducted by Dr. Luca Bartolozzi and collaborators allowed new interesting faunal data on Neuropteridae in the last decade (LETARDI *et al.*, 2012; LETARDI, 2025; LIU *et al.*, 2016, 2022, 2024; LIU & DOBOSZ, 2019; RYNDEVICH *et al.*, 2025). Nonetheless, the discovery of previously unreported species in Vietnam demonstrates the value of prosecuting such research. The material presented here refers to collections conducted in 2023 and 2024. This study allows to provide an additional contribution to a better knowledge of Megaloptera from Vietnam, a geographical area crucial for defining the global distribution of this order (LIU, 2019).

Material and methods

All specimens listed came from six localities of North Vietnam:

- BGP N-Vietnam: Bac Giang Prov., Tai Yen Tu Nature reserve, 181 m, at light, 21°10'52" N; 106°43'22" E, 15-18.VI.2024 / L. Bartolozzi, I. Pukhkalo, E. Orbach, leg. (n° Mag. 3147).
- HBP N-Vietnam: Hoa Binh Prov., Lac Son district, c/o Ngoc Son Ngo Luong Nature reserve, 200 m, at light, 20°23'55" N; 105°22'15" E, 12.VI.2024 / L. Bartolozzi, I. Pukhkalo, E. Orbach, leg. (n° Mag. 3147).
- LCP N-Vietnam: Lao Cai Prov., Bat Xat Nature reserve (HQ), 1848 m, at light, 22°37'38" N; 103°37'42" E, 01-04.VI.2024 / L. Bartolozzi, I. Pukhkalo, E. Orbach, leg. (n° Mag. 3147).
- LSP1 N-Vietnam: Long Son Prov., Mau Son Nature reserve, 1160 m, at light, 21°50'59" N; 106°54'58" E, 10-13.VI.2023 / L. Bartolozzi, I. Pukhkalo, E. Orbach, A. Bandinelli, S. Bambi, V. Sbordonì leg. (n° Mag. 3136).
- LSP2 N-Vietnam: Long Son Prov., Mau Son Nature reserve, 965 m, at light, 21°50'21" N; 106°54'53" E, 06.VI.2024 / L. Bartolozzi, I. Pukhkalo, E. Orbach, leg. (n° Mag. 3147).
- VPP N-Vietnam: Vinh Phuc Prov., Tam Dao National Park, 21°27'54" N; 105°38'28" E, 991 m, at light, 20-22.VI.2023 / L. Bartolozzi, I. Pukhkalo, E. Orbach, A. Bandinelli, S. Bambi, V. Sbordonì.

In order to integrate the data presented in previous contributions (LETARDI *et al.*, 2012; LETARDI, 2025), the numbers of ♂ and ♀ specimens collected in two localities in 2023 and four localities in 2024 are reported; species are identified according to the world catalogue of OSWALD, 2026 with the integration of the recent changes for the genus *Protohermes* van der Weele, 1907 in LIU *et al.* (2024). The taxonomic arrangement follows the recent comprehensive review of this insect order (LIU, 2019).

Results

CORYDALIDAE Leach, 1815

CORYDALINAE Leach, 1815

Protohermes van der Weele, 1907

Protohermes ishizukai (Liu, Hayashi & Yang, 2009)

Material examined. LCP: 1 ♂ (MZUF).

Remarks. This species is recorded in Laos and Vietnam (OSWALD, 2026).

Protohermes lii Liu, Hayashi & Yang, 2007

Material examined. BGP: 1 ♂ and 5 ♀ (MZUF). LCP: 5 ♂♂ and 4 ♀ (MZUF). LSP1: 4 ♀ (MZUF). LSP2: 3 ♂ and 2 ♀ (MZUF).

Remarks. This species is recorded in southeastern China; northern and central Vietnam (OSWALD, 2026); ♀ specimens collected in LSP1 are likely attributable to this taxon.

Neoneuromus van der Weele, 1907

Neoneuromus ignobilis Navás, 1932

Material examined. LSP2: 1 ♂ and 1 ♀ (MZUF).

Remarks. This species is recorded in China, Laos, Thailand and Vietnam (OSWALD, 2026).

Neoneuromus orientalis Liu & Yang, 2004

Material examined. LSP1: 2 ♂(MZUF); 1 ♂ (Letardi personal collection). LCP: 2 ♀(MZUF).

Remarks. This species is recorded in southeastern China and Vietnam (OSWALD, 2026). The two ♀ specimens from LCP are doubtfully attributed to this taxon.

Neoneuromus vanderweelei Liu, Hayashi & Yang, 2018

Material examined. LCP: 4 ♂ and 6 ♀ (MZUF). LSP2: 2 ♂ and 1 ♀(MZUF). VPP: 2 ♂(MZUF)

Remarks. This species is recorded in southeastern China and Vietnam (OSWALD, 2026).

Nevromus Rambur, 1842

Nevromus exterior Navás, 1927

Material examined. BGP: 1 ♀ (MZUF). HBP: 1 ♂ and 5 ♀(MZUF).

Remarks. This species is recorded in China, Laos, Thailand and Vietnam (OSWALD, 2026).

CHAULIODINAE van der Weele, 1910

Ctenochauliodes van der Weele, 1909

Ctenochauliodes abnormis C.-k. Yang & D. Yang, 1986

Material examined. LSP1: 6 ♂ and 1 ♀ (MZUF).

Remarks. This species is recorded in southeastern China and Vietnam (OSWALD, 2026).

Neochauliodes van der Weele, 1909

Neochauliodes bowringi (McLachlan, 1867)

Material examined. HBP: 1 ♂ and 1 ♀(MZUF).

Remarks. This species is recorded in China and Vietnam (OSWALD, 2026).

Neochauliodes gr. sinensis

Material examined. BGP: 2 ♀(MZUF).

Remarks. These specimens are probably *Neochauliodes meridionalis* van der Weele, 1909, a quite common species in southern China, Thailand and northern Vietnam (OSWALD, 2026).

Neochauliodes tonkinensis (van der Weele, 1907)

Material examined. LCP: 17 ♂(MZUF). VPP: 1 ♂(MZUF).

Remarks. This species is widely recorded in Burma, southern China, northern Laos, Thailand and Vietnam (OSWALD, 2026).

Neochauliodes umbratus Kimmins, 1954

Material examined. VPP: 1 ♂ and 1 ♀(MZUF).

Remarks. This species is recorded in southeastern China and northern Vietnam (OSWALD, 2026).

Parachauliodes van der Weele, 1909

Parachauliodes squalidus (X.-y. Liu & D. Yang, 2006)

Material examined. LCP: 1 ♀(MZUF).

Remarks. This species is recorded in southeastern China (OSWALD, 2026); this is the first report in Vietnam of the species and the genus, even though in Hayashi private collection there

are several specimens of this species from a close locality Bat Xat (X.-y. Liu pers. comm.): further molecular analysis will resolve the question of whether it is actually the same species.

Discussion

The publication of the results of research conducted in Vietnam by the research group coordinated by Dr. Luca Bartolozzi over the past decade allows to provide further data on the distribution of this order in the country. The data for 2023 and 2024 refer to northern Vietnam, an area of intense investigations by several research groups. Equally noteworthy, however, is the discovery of a species belonging to the genus *Parachauliodes*, previously not known in Vietnam, further expanding the diversity of the Corydalidae family in this area. Table 1 resumes the state of knowledge regarding the Corydalidae species known to date from Vietnam, with the addition of the species cited in this work; the data are taken from the online resource Lacewing Digital Library (OSWALD, 2026): for comparison, the species present in Vietnam are also reported if present in neighboring countries, with the exception of Cambodia, for which no Corydalidae has been reported to be present. Considering these results, it is hoped that such research will continue in the future.

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Table 1. Checklist of Vietnamese Corydalidae according to OSWALD (2026) and presence of species reported in neighboring countries.

	Taxon	Vietnam	China	Laos
1	<i>Acanthacorydalus fruhstorferi</i> van der Weele, 1907	X	X	
2	<i>Acanthacorydalus imperatrix</i> Navás, 1917	X		X
3	<i>Acanthacorydalus unimaculata</i> C.-k. Yang & D. Yang, 1986	X	X	
4	<i>Neoneuromus coomani</i> Lestage, 1927	X	X	X
5	<i>Neoneuromus ignobilis</i> Navás, 1932	X	X	X
6	<i>Neoneuromus maclachlani</i> (van der Weele, 1907)	X	X	
7	<i>Neoneuromus maculatus</i> X.-y. Liu et al. in F. Yang et al., 2018	X		
8	<i>Neoneuromus niger</i> X.-y. Liu et al. in F. Yang et al., 2018	X		
9	<i>Neoneuromus orientalis</i> X.-y. Liu & D. Yang, 2004	X	X	
10	<i>Neoneuromus sikkimensis</i> (van der Weele, 1907)	X	X	X
11	<i>Neoneuromus tonkinensis</i> (van der Weele, 1907)	X	X	X
12	<i>Neoneuromus vanderweelei</i> X.-y. Liu et al. in F. Yang et al., 2018	X	X	
13	<i>Nevromus exterior</i> Navás, 1927	X	X	X
14	<i>Nevromus testaceus</i> Rambur, 1842	X		
15	<i>Protohermes annamitensis</i> X.-y. Liu et al., 2024	X		X
16	<i>Protohermes assamensis</i> Kimmins, 1949	X	X	
17	<i>Protohermes axillatus</i> Navás, 1932	X		
18	<i>Protohermes davidi</i> van der Weele, 1909	X	X	
19	<i>Protohermes differentialis</i> (C.-k. Yang & D. Yang, 1986)	X	X	
20	<i>Protohermes fruhstorferi</i> (van der Weele, 1907)	X	X	
21	<i>Protohermes guangxiensis</i> C.-k. Yang & D. Yang, 1986	X	X	
22	<i>Protohermes ishizukai</i> X.-y. Liu et al., 2009	X		X
23	<i>Protohermes lii</i> X.-y. Liu et al., 2007	X	X	
24	<i>Protohermes owadai</i> X.-y. Liu et al., 2007	X		
25	<i>Protohermes phani</i> X.-y. Liu et al., 2024	X		
26	<i>Protohermes piaocanus</i> X.-y. Liu et al., 2008	X		
27	<i>Protohermes sinuolatus</i> X.-y. Liu et al., 2009	X		X
28	<i>Protohermes stangei</i> X.-y. Liu & Dobosz, 2019	X		
29	<i>Protohermes striatulus</i> Navás, 1926	X	X	
30	<i>Protohermes subsinuolatus</i> X.-y. Liu et al., 2024	X		
31	<i>Protohermes tonkinensis</i> (van der Weele, 1909)	X	X	X
32	<i>Protohermes vitalisi</i> Navás, 1919	X		
33	<i>Protohermes weelei</i> Navás, 1925	X	X	X
34	<i>Protohermes yangi</i> X.-y. Liu et al., 2007	X	X	X
35	<i>Protohermes yunnanensis</i> C.-k. Yang & D. Yang, 1988	X	X	

Table 1 (follows).

	Taxon	Vietnam	China	Laos
36	<i>Anachauliodes laboissierei</i> (Navás, 1913)	X	X	
37	<i>Ctenochauliodes abnormis</i> C.-k. Yang & D. Yang, 1986	X	X	
38	<i>Ctenochauliodes denticulatus</i> Liu et al., 2021	X		
39	<i>Ctenochauliodes nigrovenosus</i> (van der Weele, 1907)	X	X	
40	<i>Ctenochauliodes yangi</i> X.-y. Liu & D. Yang, 2006	X	X	
41	<i>Neochauliodes bachmanus</i> X.-y. Liu et al., 2010	X		
42	<i>Neochauliodes bicuspidatus</i> X.-y. Liu & D. Yang, 2006	X	X	
43	<i>Neochauliodes bowringi</i> (McLachlan, 1867)	X	X	
44	<i>Neochauliodes confusus</i> X.-y. Liu et al., 2010	X	X	
45	<i>Neochauliodes dispar</i> (van der Weele, 1906)	X		
46	<i>Neochauliodes formosanus</i> (Okamoto, 1910)	X	X	
47	<i>Neochauliodes fraternus</i> (McLachlan, 1869)	X	X	
48	<i>Neochauliodes koreanus</i> van der Weele, 1909	X	X	
49	<i>Neochauliodes meridionalis</i> van der Weele, 1909	X	X	X
50	<i>Neochauliodes moriutii</i> Asahina, 1988	X	X	X
51	<i>Neochauliodes occidentalis</i> van der Weele, 1909	X	X	X
52	<i>Neochauliodes punctatoguttatus</i> (van der Weele, 1906)	X		
53	<i>Neochauliodes punctatolosus</i> X.-y. Liu & D. Yang, 2006	X	X	X
54	<i>Neochauliodes sinensis</i> (Walker, 1853)	X	X	
55	<i>Neochauliodes tamdaoensis</i> X.-y. Liu et al., 2010	X		
56	<i>Neochauliodes tonkinensis</i> (van der Weele, 1907)	X	X	X
57	<i>Neochauliodes umbratus</i> Kimmins, 1954	X	X	
58	<i>Parachauliodes squalidus</i> (X.-y. Liu & D. Yang, 2006)	X	X	