



<http://dx.doi.org/10.11646/zootaxa.3915.1.7>

<http://zoobank.org/urn:lsid:zoobank.org:pub:30894705-421F-418B-BC5D-9BBED547F961>

## Taxonomic notes on the species of the genus *Anterhynchium* de Saussure, 1863 (Hymenoptera: Vespidae: Eumeninae) from Vietnam, with description of a new species

LIEN THI PHUONG NGUYEN

*Insect Ecology Department, Institute of Ecology and Biological Resources (IEBR), Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Road, Nghia Do, Cau Giay, Hanoi, Vietnam. E-mail: phuonglientit@gmail.com*

### Abstract

A taxonomic study on the solitary wasps in the vespid genus *Anterhynchium* de Saussure, 1863, from Vietnam is presented. One species previously identified as *A. (Anterhynchium) abdominale abdominale* (Illiger, 1802) is described as new, namely *A. punctatum* Nguyen, **sp. nov.** *Anterhynchium (Dirhynchium) flavolineatum flavolineatum* (Smith, 1857) and *A. (Dirhynchium) flavomarginatum flavomarginatum* (Smith, 1852) are newly recorded from Vietnam. New synonymy is proposed for *A. flavolineatum flavolineatum* (Smith, 1857) = *A. flavolineatum malaisei* van der Vecht, 1963, **syn. nov.** *A. coracinum* van der Vecht sensu Girish Kumar (2013) is a misidentification of *A. f. flavomarginatum* (Smith), and the record of this species from Pakistan and India belongs to *A. f. flavolineatum*. A key to species of the genus from Vietnam is provided.

**Key words:** Vespidae, Eumeninae, *Anterhynchium*, new species, new synonym, Vietnam

### Introduction

*Anterhynchium* de Saussure, 1863 is a widely distributed genus of Old World solitary wasps, comprising 39 species (van der Vecht 1963; van der Vecht & Fisher 1972; Carpenter, unpublished), of which 10 species were reported from India to South East Asia. According to van der Vecht (1963), the genus is related to *Pseudepipona* Saussure, 1856 and *Euodynerus* Dalla Torre, 1904 but it is easily distinguished by having the longer parastigma of the fore wing, and the shorter tegulae, which never extend beyond the apex of the parategulae. Three subgenera, *Dirhynchium* van der Vecht, 1963, *Anterhynchium* de Saussure, 1863 and *Epiodynerus* Giordani Soika, 1958 have been recognized in this genus.

In the checklist of eumenine wasps from Vietnam (Nguyen *et al.*, 2014), two species of the subgenus *Anterhynchium* Saussure were listed, namely *A. mellyi* (de Saussure, 1852) and *A. abdominale abdominale* (Illiger, 1802). Careful examination of the second metasomal tergum of specimens showed that the latter is not *A. a. abdominale* but a new species close to *A. mellyi* with a distinctly punctate tergum.

In this paper a new species of the genus *Anterhynchium* is described. Two species, *A. flavolineatum malaisei* van der Vecht and *A. flavomarginatum flavomarginatum* (Smith) are recorded from Vietnam for the first time. *Anterhynchium flavolineatum malaisei* van der Vecht is synonymized under *A. flavolineatum* (Smith). *A. coracinum* van der Vecht, 1963 sensu Kumar (2013) is a misidentification of *A. f. flavomarginatum* (Smith). A key to all species of the genus from Vietnam is also presented.

### Material and methods

The adult morphological and color characters were observed using pinned and dried specimens under a stereoscopic microscope. Measurements of body parts were made with an ocular micrometer attached to the

## Acknowledgements

I am very grateful to James M. Carpenter for his comments and suggestions in early draft of the manuscript. I thank Arkady Lelej and anonymous reviewer for comments and suggestions that helped to improve this article. The present study was supported by the grant number VAST04.08/15–16 from the Vietnam Academy of Science and Technology. I would like to thank Girish Kumar for sending the mesoscutum picture of his *A. coracinum*.

## References

- Bingham, C.T. (1897) *The Fauna of British India, including Ceylon and Burma: Hymenoptera. Vol. 1. Wasps and Bees*. Taylor and Francis, London, 579 pp.
- Dalla Torre, K.W. von (1904) *Hymenoptera. Fam. Vespidae*. In: Wytsman, P. (Ed.), *Genera Insectorum*, 19. Bruxelles, pp. 1–108 + pls. 1–6.
- Giordani Soika, A. (1958) I vespidi solitari della Polinesia meridionale. *Bollettino del Museo Civico di Storia Naturale di Venezia*, 10, 183–221.
- Gusenleitner, J. (1987) Über eumenidae aus Nepal (Hymenoptera, Vespoidea). *Linzer Biologische Beiträge*, 19 (1), 255–270.
- Gusenleitner, J. (2006) Über Aufsammlungen von Faltenwespen in Indien (Hymenoptera: Vespidae). *Linzer Biologische Beiträge*, 38 (1), 677–695.
- Illiger, K. (1802) Neue Insecten. *Magazin für die Insektenkunde*, 1, 163–208.
- Kim, J.K. (2003) Taxonomic review of the genus *Anterhynchium* Saussure (Eumeninae, Vespidae, Hymenoptera) from East Asia. *Korean Journal of Entomology*, 33 (2), 105–117.  
<http://dx.doi.org/10.1111/j.1748-5967.2003.tb00058.x>
- Kumar, P.G. (2013) A taxonomic study on the genus *Anterhynchium* de Saussure (Hymenoptera: Vespidae: Eumeninae) from Indian subcontinent. *Records of the Zoological Survey of India*, 113 (4), 139–158.
- Matsumura, S. (1911) *Thousand insect of Japan. Supplement 3*. Tôkô-shoin, Tôkyô, 50 pp., 4 pls. [pp. 98–147, pls. 38–41, in Japanese]
- Nguyen, L.T.P., Dang, H.T., Kojima, J. & Carpenter, J.M. (2014) An annotated distributional checklist of solitary wasps of the subfamily Eumeninae (Hymenoptera: Vespidae) of Vietnam. *Entomologica Americana*, 120 (1), 7–17.  
<http://dx.doi.org/10.1664/13-RA-010.1>
- Saussure, H. de. (1852–1853) *Études sur la Famille des Vespides 1. Monographie des Guêpes solitaires ou de la tribu des Euméniens*. V. Masson, Paris & J. Kessmann, Genève, 286 pp., 21 pls.
- Saussure, H. de. (1854–1856) *Études sur la Famille des Vespides 3. La Monographie des Masariens et un supplément à la Monographie des Euméniens*. V. Masson, Paris & J. Kessmann, Genève, 160 pp., 16 pls. [pp. 193–352 + pls. 1–16]
- Saussure, H. de. (1863) Mélanges hyménoptérologiques II. Vespides. *Mémoires de la Société de physique et d'histoire naturelle de Genève*, 17 (1), 173–244 + pl. 2.
- Smith, F. (1852) Descriptions of some new and apparently undescribed species of hymenopterous insects from North China, collected by Robert Fortune, Esq. *Transactions of the Entomological Society of London*, 2 (2), 33–45.
- Smith, F. (1857) *Catalogue of Hymenopterous Insects in the Collection of the British Museum. Part V. Vespidae*. London, 147 pp.
- Vecht, J. van der (1963) Studies on Indo-Australian and East-Asiatic Eumenidae (Hymenoptera, Vespoidea). *Zoologische Verhandelingen*, 60, 3–113. [Leiden]
- Vecht, J. van der & Fischer, F.C.J. (1972) Palearctic Eumenidae. *Hymenopterorum Catalogus. Nov. Edition*, 8, 1–199.
- Yamane, S. (1990) A revision of the Japanese Eumenidae (Hymenoptera, Vespoidea). *Insecta Matsumurana*, 43, 83–85.