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**A revision of *Megagraphyrus* Hansen (Coleoptera, Hydrophilidae):  
synonymization with *Agraphyrus* Régimbart and  
description of seven new species**

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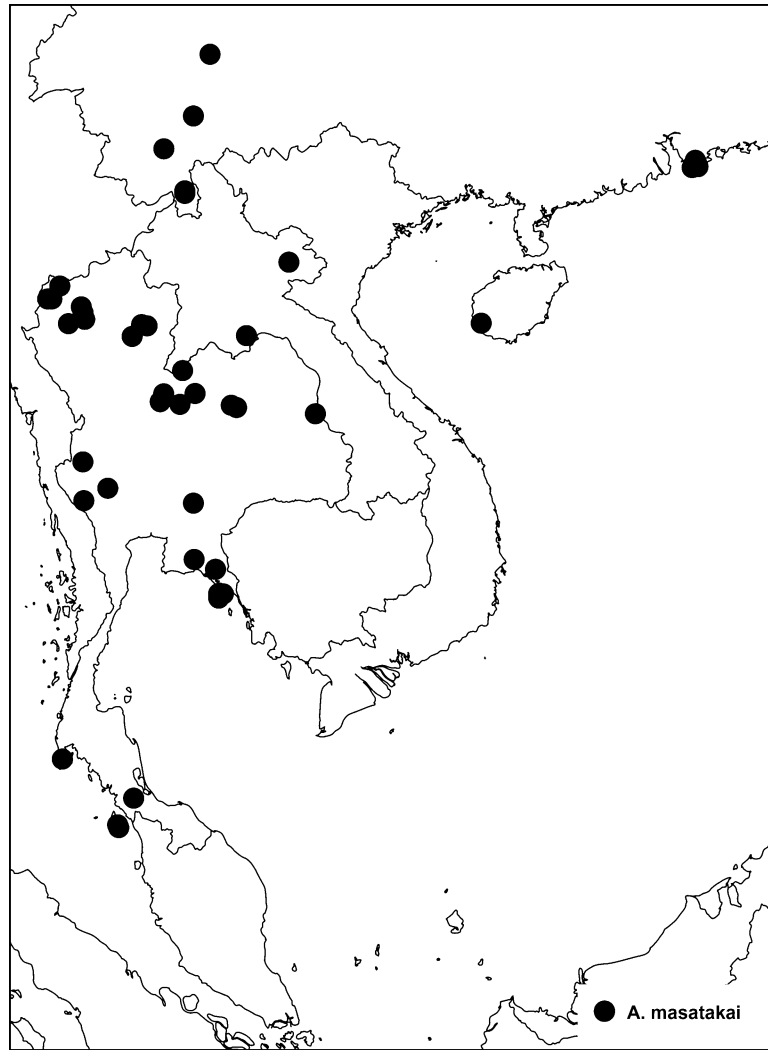
## Abstract

The genus *Megagrrophydrus* Hansen, 1999 is revised. Eleven of the twelve previously described species are recognized as valid, with *Megagrrophydrus wangi* Hebauer, 2000 **syn. nov.** found to be a junior synonym of *M. politus* Hansen, 1999. Most significantly, *Megagrrophydrus* itself is found to be a junior synonym of *Agraphydrus* Régimbart, 1903. The species are assigned to the subgenus *Agraphydrus*. This nomenclatural act results in the following new combinations: *Agraphydrus (Agraphydrus) anhuianus* (Hebauer, 2000) **comb. nov.**, *A. (A.) attenuatus* (Hansen, 1999) **comb. nov.**, *A. (A.) jaechi* (Hansen, 1999) **comb. nov.**, *A. (A.) luteilateralis* (Minoshima & Fujiwara, 2009) **comb. nov.**, *A. (A.) malayanus* (Hebauer, 2000) **comb. nov.**, *A. (A.) politus* (Hansen, 1999) **comb. nov.**, *A. (A.) puzhelongi* (Jia, 2010) **comb. nov.**, *A. (A.) regularis* (Hansen, 1999) **comb. nov.**, *A. (A.) siamensis* (Hansen, 1999) **comb. nov.**, *A. (A.) superans* (Hebauer, 2000) **comb. nov.**, and *A. (A.) uvaensis* (Hebauer, 2000) **comb. nov.** All species are redescribed with the exclusion of *A. superans*, *A. luteilateralis*, and *A. puzhelongi*. Seven new species are described: *Agraphydrus (Agraphydrus) biprojectus* **sp. nov.**, *A. (A.) coronarius* **sp. nov.**, *A. (A.) decipiens* **sp. nov.**, *A. (A.) insidiator* **sp. nov.**, *A. (A.) masatakai* **sp. nov.**, *A. (A.) montanus* **sp. nov.**, *A. (A.) thaiensis* **sp. nov.** Digital and SEM photographs are provided, and the male and female genital segments are illustrated and described.

**Key words:** Aquatic insects, water scavenger beetle, Acidocerinae, new combination, taxonomy, Asia

## Introduction

*Megagrrophydrus* Hansen, 1999 was established to accommodate five species by Hansen (1999a), who considered this genus to be closely related to *Agraphydrus* Régimbart, 1903. Subsequently, Hebauer (2000) described five additional species, followed by Minoshima and Fujiwara (2009) and Jia (2010) with the description of one species each. In total, *Megagrrophydrus* comprises 12 species occurring in Asia (Hansen, 1999b; Short & Hebauer, 2006; Short & Fikáček, 2011).



**FIGURE 43.** Geographical distributions of *Agraphydrus masatakai* sp. nov.; Indochina and Southern China. The map modified after a map in the public domain produced by the U.S. Central Intelligence Agency, courtesy of the University of Texas Libraries, The University of Texas at Austin.

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