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Two new species of *Aphanogmus* (Hymenoptera: Ceraphronidae) of economic importance reared from *Cybocephalus nipponicus* (Coleoptera: Cybocephalidae)

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Abstract

Two new species, *Aphanogmus albicoxalis* and *Aphanogmus inamicus* are described and illustrated from specimens reared from *Cybocephalus nipponicus*, a cybocephalid beetle that feeds upon *Aula-caspis yasumatsui*, a newly introduced pest of cycads in Florida.

Key words: Ceraphronidae, new species, Cybocephalus, biological control

Introduction

The armored scale, *Aulacaspis yasumatsui* Takagi [Hemiptera: Diaspididae], was described from specimens found on a *Cycas* species in Bangkok, Thailand (Takagi 1977). In 1996, severe infestations of this species were discovered on *Cycas* species in the Montgomery Foundation, located in Coral Gables in southern Florida, which contains one of the largest and finest collections of palms and cycads in the world. Since then, *A. yasumatsui* has spread throughout most of Florida. Its host range includes the following genera of plants: *Ceratozamia, Cycas, Dioon, Encephalartos* [Cycadaceae], *Zamia* [Zamiaceae], and *Stangeria* [Stangeriaceae].

Dr. Richard Baranowski, in collaboration with Banpot Naponpeth, Director of the Natural Biological Control Research Center at Kasetsart University, found a cybocephalid (formerly Nitidulidae) beetle feeding on *A. yasumatsui* in Thailand and subsequently introduced it into Florida. The beetle was originally identified by S. Endrödy-Younga as *Cyb*-