

KHẢ NĂNG KÝ SINH VÀ PHÁT TÁN CỦA ONG KÝ SINH *Tetrastichus brontispae* (Hymenoptera: Eulophidae) TRỪ BỌ DỪA *Brontispa longissima* (Coleoptera: Chrysomelidae) TẠI THỪA THIÊN HUẾ

Effectiveness and Migration of *Tetrastichus brontispae* (Hymenoptera: Eulophidae), an Exotic Biological Control Agent of the Coconut Hispine Beetle *Brontispa longissima* (Coleoptera: Chrysomelidae) in Thua Thien Hue Province

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Abstract

A field study was conducted in Vinh Hai commune, Phu Loc district, Thua Thien Hue Province, Central Vietnam during January 2014– December 2014 with aim at investigating on the effectiveness and migration of *Tetrastichus brontispae* (Hymenoptera: Eulophidae) - an exotic parasitoid of the coconut hispine beetle *Brontispa longissima* (Coleoptera: Chrysomelidae) on the coconut fields. Parasitoid mummies of 18 days-old were released two times in the fields. The density of the beetle was low after releasing. Both the mummies collected from the field and incubated in the laboratory were reached a pick after 2 months releasing in spring season. Releasing method with hanging mummy 2-3 days before emergence in a releasing box was suitable for *T. brontispae*. The wasps were found at the distance of 50, 100, 1000, 3000m far from released site after 1, 1, 1 and 2 months after releasing, respectively. The results indicated that the parasitoid could suppress the beetle after five months. After five months releasing the parasitoids were presented all areas of 3 km distance from the releasing site (50m: 100%; 100m: 100%; 1 km: 100% and 3km: 100%). Effectiveness of controlling the coconut hispine beetle of *T. brontispae* reached 88.9% - 92.0%. The parasitoid was established a good population in releasing areas. *T. brontispae* was good adoption to climate conditions in Thua Thien Hue.

Keywords: *Tetrastichus*, *Brontispa*, biological, effectiveness, migration