

Henryana magnifica Yoshimoto (Hymenoptera: Eulophidae) in Brazil: New Records for the Amazon Rainforest and Brazilian Dry Forest

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Abstract. *Henryana magnifica* Yoshimoto (Hymenoptera: Eulophidae) is reported for the first time in an Amazon rainforest area of Amazonas State and in a Brazilian Dry Forest area of Rio Grande do Norte State, Brazil.

Keywords: Amazon; Caatinga; Chalcidoidea; Tetrastichinae.

Henryana magnifica Yoshimoto (Hymenoptera: Eulophidae) no Brasil: Novos registros para a Floresta Amazônica e Caatinga

Resumo. *Henryana magnifica* Yoshimoto (Hymenoptera: Eulophidae) é relatada pela primeira vez em uma área de Floresta Amazônica do Estado do Amazonas e em uma área de Caatinga no Rio Grande do Norte, Brasil.

Palavras-Chave: Amazônia; Caatinga; Chalcidoidea; Tetrastichinae.

Henryana magnifica Yoshimoto (Hymenoptera: Eulophidae) is a peculiar Tetrastichinae species found in the New World. YOSHIMOTO (1983) described this species based on specimens collected by Fritz Plaumann in Nova Teutonia, Santa Catarina, Brazil. Subsequently LASALLE (1994) listed the North American records for the states of Florida, Georgia, Missouri and Virginia (USA).

In the state of Rio Grande do Norte, only four species of Chalcidoidea have been reported: *Dilocantha flavicornis* (Walker) (Eucharitidae), *Tetrastichus giffardianus* Silvestri (Eulophidae), *Heimbra bicolor* Subba Rao and *Symbra potiguara* Periotto & Fernandes (Eurytomidae) (HERATY 1998; COSTA *et al.* 2005; FERNANDES *et al.* 2012). Rio Grande do Norte has nearly 95% of its area covered with Brazilian Dry Forest (Caatinga biome) and little is known about the entomofauna associated with that type of vegetation.

In contrast, in the state of Amazonas, 124 Chalcidoidea species have been reported (NOYES 2014). However, only six are Eulophidae: *Alveoplectrus corumbae* (Ashmead), *Apleurotropis strix* Hansson, *Emersonella niveipes* Girault; *Galeopsomyia macaxeira* Periotto, Costa & Lara; *Horismenus liturgusae* Hansson & Schoeninger and *Omphale insetosa* Hansson (CARROLL 1978; DE SANTIS 1980; HANSSON 2004, 2010; PERIOTO *et al.* 2011; HANSSON *et al.* 2014). Amazonas is totally covered by Amazon forest and little is known about the Eulophidae fauna associated with that rainforest.

The current study reports, for the first time, the occurrence of *H. magnifica* in an Amazon rainforest of Amazonas State and in a Brazilian Dry Forest of Rio Grande do Norte State.

The specimens studied were collected with a Malaise trap in a Brazilian Dry Forest site (6°6'18"S / 37°37'41"W) (Figure 1) and in an Amazon rainforest site (2°53'42.18"S / 59°59'10.58"W)

(Figure 2), situated at Patu, Rio Grande do Norte, Brazil and at Manaus, Amazonas, Brazil, respectively (Figure 3).

Observations were carried out using a Leica MZ 9.5 stereomicroscope under a fluorescent light source. Color images were obtained using a Leica DFC295 digital camera attached to a Leica M205C APO stereomicroscope, illuminated by a highly diffuse illumination dome Leica LED5000 HDI. The serial images from different layers were combined using the Helicon Focus software (version 5.2). The figure was prepared using Adobe Photoshop v.13.

The material is deposited at the entomological collection of APTA Ribeirão Preto (LRRP), Ribeirão Preto, São Paulo, Brazil (N.W. Periotto, curator) and Coleção de Invertebrados of Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus, Amazonas, Brazil (M.L. Oliveira, curator). *Henryana magnifica* (Figure 4) was identified using the original description (YOSHIMOTO 1983).

A female specimen was collected in Rio Grande do Norte, Patu, Sítio Miranda in September of 2008, recorded by: D.R.R. Fernandes; institution Code: LRRP. The other specimen, a male, was collected in Amazonas, Manaus (Embrapa Amazônia Ocidental) in 05.I.2013, recorded by: K. Schoeninger; institution Code: INPA.

This species was previously reported in Brazil from Nova Teutônia, Santa Catarina, probably in a Brazilian Atlantic Forest. This report expands the limit range to the Amazon rainforest and the Brazilian Dry Forest. It is worth emphasizing that one of the sampled areas (Manaus) was near the guarana crop *Paullinia cupana* var. *sorbilis* (Mart.) Ducke (Figure 4).

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Figure 1. Area of Brazilian dry forest (Caatinga) at Patu, Rio Grande do Norte, Brazil.



Figure 2. Area of Amazon rainforest (back) and *Paullinia cupana* var. *sorbilis* (Mart.) Ducke (Sapindaceae) (front) at Manaus, Amazonas, Brazil.

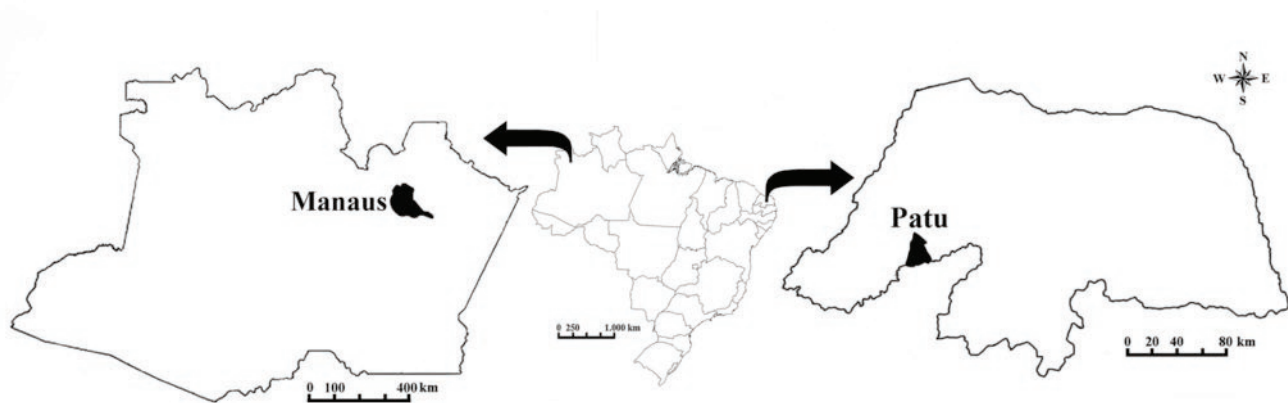


Figure 3. Collection sites, Manaus, Amazonas and Patu, Rio Grande do Norte, Brazil.



Figure 4. *Henryana magnifica* Yoshimoto, (female).

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