ANAIS DO X ENCONTRO SOBRE ABELHAS RIBEIRÃO PRETO



Dados Internacionais de Catalogação na Publicação (CIP) (Câmara Brasileira do Livro, SP, Brasil)

Encontro sobre Abelhas (10. : 2012 : Ribeirão Preto, SP) Anais do X Encontro sobre Abelhas. -- Ribeirão Preto, SP : FUNPEC Editora, 2012.

Vários organizadores.

1. Abelhas - Congressos.

12-08896

CDD-595.79906

Índices para catálogo sistemático:

1. Congressos: Abelhas: Zoologia 595.79906

Anais do X Encontro sobre Abelhas. Ribeirão Preto. 2012 Simões, Z.L.P.; Bitondi, M.M.G.; Bomtorin, A.D.; Nascimento, F.S.

Número de páginas.

533



R. Floriano Peixoto, 2444 — Alto da Boa Vista — 14025-220 Ribeirão Preto, SP Tel.: (16) 3620-1251 · Fax: (16) 3621-1991 www.livrariafunpecrp.com.br — livros@funpecrp.com.br

WHO ARE THE REAL POLLINATORS OF GUARANA TREE?

Autores: Cristiane Krug, Marcos Vinicius Bastos Garcia.

Instituição: Embrapa Amazônia Ocidental, Laboratório de Entomologia. Contato: Rodovia AM-010, Km 29, Zona Rural - CEP: 69010-970,

Caixa Postal 319 - Manaus/AM, Brasil. Email: cristiane.krug@cpaa.embrapa.br

The guarana (Paullinia cupana var. sorbilis (Mart.) Ducke) is an important and traditiona crop in the Amazon region, being a monoecious plant, with male and female flowers on same plan in different branches with spatial and temporal alternating. Although several studies have been con ducted focusing the study of potential pollinators and floral biology of guarana, there is still a wid lack of knowledge regarding the pollination biology of this important native species. In regard t floral visitors, there is a gap of observations between 2 am - at the beginning of anthesis, and 6 a - the time when the observations started in previous studies. According to those studies the mos effective pollinators species are the stingless bees, due to the number of individuals and behavior i the flowers. In order to evaluate the presence of floral visitors during the time not yet observed, re lated to the beginning of anthesis, four samples were carried out between 2 and 8 am in two differ ent experimental fields of Embrapa in Amazonas state, in Manaus (26 and 09/27/2011) and Maué (28 and 29/10/2011). In these two sites were observed the species Megalopta sp. (Halictidae) an Ptiloglossa sp. (Colletidae), both of nocturnal / crepuscular behaviour, visiting in abundance th guarana flowers. Megalopta is here registered for the first time as visitors of guarana flowers an collected in both sites whereas Ptiloglossa was found only in Manaus. Megalopta and Ptilogloss were observed visiting guarana flowers from 3:30 to 5:15am and 04:45 to 6:15am, respectivel Both species actively collected pollen and nectar, but Megalopta has a different behaviour, movin slower than Ptiloglossa in its activities on flowers. Also was observed the mating behavior in Ptilo glossa sp. New research efforts are needed to clarify the pollination biology of guarana, includin the effective pollinators and its environmental services.

Apoio: EMBRAPA.

Área: Biologia da polinização.

Palavra chave: Paullinia cupana var. sorbilis - stingless bees - Megalopta - Ptiloglossa - polli

nation.