



Aubrey Moore <aubreymoore2013@gmail.com>

Re: sago palm scale parasitoids

1 message

Bernarr.R.Kumashiro@hawaii.gov <Bernarr.R.Kumashiro@hawaii.gov>

Wed, Apr 15, 2009 at 11:54 AM

To: amoore@uguam.uog.edu

Hi Aubrey:

The PQ guys went to check the sago palm at the Honolulu airport and collected for me some leaves, which I am holding in a jar. By quick observation, I noticed that many had holes eaten by *Rhizobius lophantae*. During the last couple of days, though, about 20 *Aphytis* emerged. I am assuming that it is *A. lingnanensis*, which Greg Evans from SEL identified for us from a previous sago palm scale sample. (see below) Parasitism rate seems quite low, compared to the number of scales.

Aloha,

Bernarr

Hi Bernarr -

1/30/09 (from Greg Evans)

I wanted to send you a preliminary report on the parasitoids that you sent me from *Aulacaspis yasutmasui*.

There are 3 parasitoids:

1) Aphelinidae: *Aphytis lingnanensis* Compere (or cryptic or biotype). [Your ref # 2009-2973]
This keys out to *A. lingnanensis*, a species that has a very wide host (all Diaspididae) and geographic range. I'm hesitant to put a species name on it because this is a difficult group to sort out. DeBach and others found several cryptic species, extremely similar to *A. lingnanensis* and also biotypes that they were not able to distinguish morphologically but had certain biological differences. So, you may be dealing with one of those or true *A. lingnanensis*, it may take biological studies and/or DNA work to get to the bottom of it.

2) Aphelinidae: *Pteroptrix leptocera* Huang or a species very similar to it and new. [Your ref # 2009-2973]

The illustration I have of *P. leptocera* matches your specimens very well except that the forewing has more basal group setae and the costal cell setae are a bit longer in your specimens than in *P. leptocera*. Huang described *P. leptocera* from China, the paper is in Chinese so I don't know some of the other details such as coloration, nor do I have any reference material or any information on its host. If Huang deposited specimens in the British Museum I may be able to get Andrew Polaszek to compare them, or I may be able to contact Huang directly.

3) Encyrtidae: *Plagiomerus* sp.

There are 9 described species of this genus. I can say that it isn't one of 7 species that I have information on. There are 2 species from China - *Plagiomerus aulacaspis* and *P. magniclavus* described by Tan & Zhao 1998 that I haven't compared it to. I just requested the article from library. So I'll have to get back to you on it.

Best wishes,
greg

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To: "Gregory.A.Evans@aphis.usda.gov" <Gregory.A.Evans@aphis.usda.gov>

11/28/2008 08:22 PM

cc:

Subject: sago palm scale parasitoids

Hi Greg:

Recently we collected some sago palm scale material and kept them in a battery jar for possible emergence of parasitoids. Up to this point, there had been no parasitoids reported from this scale in Hawaii. There were 2 aphelinids that emerged, about 8 black ones and 2 yellow ones. Though we checked occasionally for emergence, these evidently emerged and later were found dead, along with many male scale individuals. We missed seeing the live ones. Needless to say, they are for the most part dried and shrivelled. Would I still be able to send these to you for ID? Would you want them dry, unmounted or in alcohol? I am assuming these emerged from sago palm scale, and not from any contaminants.

Aloha,

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