

- Louisiana State Crop Pest Comm. 18, pp. 1-18, textfs. 1-7. (1907).  
 p. 90. *Psidium* sp. add: *A. holmesii*.  
 p. 85. *Anona* sp. add: *A. mirabilis*.  
 p. 86. *Bambusa*, add: *A. bambusae*.  
 p. 87. *Fragaria* sp. add: *A. fernaldi*.  
 p. 89. *Piper* betle, add: *A. nubilans*.  
 p. 90. *Pteris quadriaurita* should be *quadriolata*.

## A List of the Described Hemiptera (excluding Aleyrodidae and Coccidae) of the Hawaiian Islands,

BY G. W. KIRKALDY.

The Hawaiian Hemiptera are remarkable for the fact that they are represented endemically by the following families only, viz: Cimicidae, (probably), Lygaeidae, Myodochidae, Nabidae, Reduviidae, Anthocoridae, Miridae, and Acanthiidae, among the 26 recognized families of Heteroptera, and by the Tetigoniidae, Fulgoridae, Asiracidae and Chermidae only, out of the 14 Homopterous families: that is to say, 12 out of 40. These figures, however, do not really represent the true constitution of the Fauna, as, out of these 14, only 6 are represented by more than ten species each, viz: Myodochidae, Nabidae, Miridae, and the first three Homopterous Families. (†)

The absence of Cicadidae, Cercopidae, Aradidae, Pyrrhocoridae, Tingidae, and Gerridae, so well developed in other parts of the Pacific, and the feeble representation of the mighty Cimicidae, Lygaeidae and Reduviidae, show, more plainly than many words, the real condition of the Fauna.

The leading characteristic of the Hawaiian Hemiptera is their tendency, and almost complete adaptation, to an arboreal life. All, or practically all, the Hawaiian Asiracidae—one of the most important families numerically—are arboreal, a phenomenon otherwise known, so far, only in one peculiar Australian genus, *Proterosydne* Kirkaldy. *Acanthia*, usually a riparian genus, has one species, representing, no doubt, the ancestral form, inhabit-

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(†) In calculating, I have taken into account a large number of manuscript species.



**Nesorestias** gen. nov.

This may be distinguished from the other solid-spurred forms by the two obscurely indicated keels on the frons; the tegmina are very short and rounded apically, closely but rather obscurely reticulated.

159. **N. filicicola** sp. nov.

♂ pitchy black; abdomen apically (more or less), antennae, labium, legs, &c., brownish-testaceous. Tegmina dark yellowish-brown, a small obscure black spot at the apex of the clavus.

♀ dark yellowish-brown; antennae, labium, legs, &c., brownish-testaceous. Tegmina yellowish-brown, a small obscure spot at the apex of the clavus.

Length 4 mill.

Oahu, Tantalus, on ferns.

160. **Peregrinus maidis** (Ashmead).161. **Perkinsiella saccharicida** Kirkaldy.162. **Aloha ipomoeae** Kirkaldy (Pl. 4. fig. 9.).163. **Dictyophorodelphax mirabilis** Swezey.

## Family Chermidae

164. **Hevaheva perkinsi** Kirkaldy.165. **H. monticola** sp. nov.

Pale greenish-yellow, frons fuscous on the middle of the cones. Ocelli red. Pronotum with two or three pale fuscous bands down the anterior half, dorsulum broadly pale fusco-olivaceous laterally. Tegmina hyaline, veins yellowish-white, an irregular broad smoky band reaching from the exterior margin along the "subcosta" to the union of the 3 main veins and past that of the other side, broadening on the anal cell; near the union of the main veins forking almost at right angles and continuing irregularly to the apex of the lower fork of the brachial. The veins on the apical third are smoky and suffused, and are more or less connected by a transverse smoky line. The veins are hairy. Wings hyaline, veins brokenly smoky. Antennae with scattered hairs. Length ♂ 2, ♀  $2\frac{3}{4}$  mill; expanse of tegmina ♂ 9, ♀  $10\frac{1}{2}$  mill.

Oahu, Tantalus, 2000 ft. (Perkins, Oct.)

I have seen only a carded pair of this pretty little form, Kindly lent to me by Dr. Perkins



166. **H. silvestris** sp. nov.

Dark olivaceous-brown; legs &c., brownish-testaceous. Tegmina concolorous, subhyaline, veins opaque. Wings more hyaline.

Length to apex of closed tegmina 2 mill.

Oahu, Tantalus, 2000 ft. (Perkins).

I know of this sombre little species only a single specimen kindly lent to me by Dr. Perkins.

167. **Trioza iolani** Kirkaldy. This forms galls on Ohia lehua (*Nani* (= *Metrosideros*) sp.?) on Tantalus, Palolo, and Kona-huanui ridges, from 1200 ft. upwards. The type was from Kauai.

## Family Aphidae

168. **Aphis rosae** Linneus.169. **Loxerates sacchari** (Zehntner).170. **L. brassicae** (Linneus).171. **Myzus citricidus** Kirkaldy.172. **Myzocallis kahawaluokalani** Kirkaldy.

My thanks are due to Dr. Perkins for much information relative to type and type localities. I have examined the collections of Dr. Perkins and Messrs. Terry, Swezey and Giffard, and tender these gentlemen my thanks. N. B. nos. 111a & 111b, included after the manuscript was completed, bring up the total to 174.

The new species &c. described in this paper are as follows:

*Metrarga lanaiensis* sp. nov.

*M. contracta* var. **picea** nov.

*M. nuda* var. **mauiensis** nov.

**Nesoclimacias** subg. nov. of *Metrarga*.

**Nesocryptias** subg. nov. of *Metrarga*.

**Nesomachetes** subg. nov. of *Reduviolus*.

*Reduviolus arrogans* sp. nov.

*R. truculentus* sp. nov.

*R. nubigenus* sp. nov.

*R. kaonohiula* sp. nov.

*R. montivagus* sp. nov.

*R. silvicola* sp. nov.

*R. monticola* sp. nov.

*R. procellaris* sp. nov.



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