

Tribe DIMERA.

Fam. PSYLLIDAE.

No previous records of Hawaiian Psyllids have been made, to my knowledge, and only 18 individuals, all belonging to the sub-family Triozinae, have been collected by Mr Perkins. Eleven specimens are referable to (probably) two species forming a new genus, while the others belong to the widely distributed and specifically numerous genus *Trioza* Först. Dr L. O. Howard informs me that there is a good collection, as yet unworked, in the U. S. National Museum.

HEVAHEVA, gen. nov.

Distinguished by the elongate, sub-parallel tegmina and their distinctly rounded apical margin; costa scarcely arched; the entire absence of a short veinlet, or of a marginal granule, in any of the posterior cells. Upper side of head and thorax glabrous, except for sparse bristly hairs. Cones not very prominent. Stigma present.

Head (with eyes) as wide as mesonotum, a little wider than pronotum. Eyes prominent. Vertex anteriorly strongly carinate transversely. Stigma somewhat obscure, seeming at first to be only a thickening of the costa.

(1) *Hevaheva perkinsi*, sp. nov.

Pl. IV. fig. 1.

Head, thorax, abdomen and tegminal nervures bright ochraceous, paler beneath. Eyes blackish, ocelli rubid. Antennae (pallid) and tarsi fumate. Hairs pale ochraceous. Tegmina hyaline, immaculate. Nervures slightly hairy. Pronotum slightly longer medianly than the head (seen from above), a little shorter than the mesonotum. Width of vertex between eyes subequal to the eyes together. Tegmina $2\frac{4}{5}$ times as long as broad, radius slightly sinuate.

Long. corp. 0.93 mm., lat. 0.51 mm., exp. tegm. $3\frac{5}{7}$ mm.

HAB. (a) ? Oahu (August), Perkins; (b) Konahuanua ridge (March).

I have definitely determined 3 examples (a), while 7 others (b) almost certainly belong to this. There is a single male, much larger, greenish in colour and with head structure etc. different, but as it is gummed down on its dorsum on to card, I have left it undetermined.

TRIOZA Förster.

Trioza Förster, 1848, Verh. Ver. Rheinl. v. p. 67.

(1) *Trioza iolani*, sp. nov.

Pl. IV. fig. 2.

♂. Pale green, abdomen beneath spotted and shortly striped with black. Eyes red-brown, antennae pale flavous basally, blackish-brown apically. Elytra hyaline, immaculate, nervures brownish. Tarsi fusco-testaceous. Cones strongly developed. Costa rounded throughout, but not strongly; radius sinuate, apex of 7th cell reaching beyond base of 4th.

Long. 2.8 mm. (to apex abd.); 5.2 mm. (to apex of tegmina); expanse of tegmina 8.4 mm.

HAB. Kauai, Halemanu, 4000 ft. (May).—Oahu, Waialua (Perkins).

I have identified 2 ♂ examples as belonging to this species, the remaining 6 *Triozae* I have not definitely determined.

Division *AUCHENORRHYNCHA*.

[Fam. CICADIDAE.]

It is remarkable that no representatives of this family of powerful insects have yet been definitely recorded, though in the "Voyage of the Blonde," "Cicadas" are recorded, though at that date this may well have meant *Oliarus* or *Siphanta*. It is surprising that the genus *Cicadetta* Kolen, so widely distributed throughout the Australian region, has not extended its range to the Hawaiian Isles.]

Fam. TETIGONIIDAE (or JASSIDAE).

Subfam. *BYTHOSCOPIINAE*.*BYTHOSCOPIUS* Germ., Kirk.

Bythoscopus Germ., 1833, Rev. Entom. i. p. 180; Kirk, 1901, Entom. xxxiv. p. 340.

Macropis Auctt., nec Lew., typ.

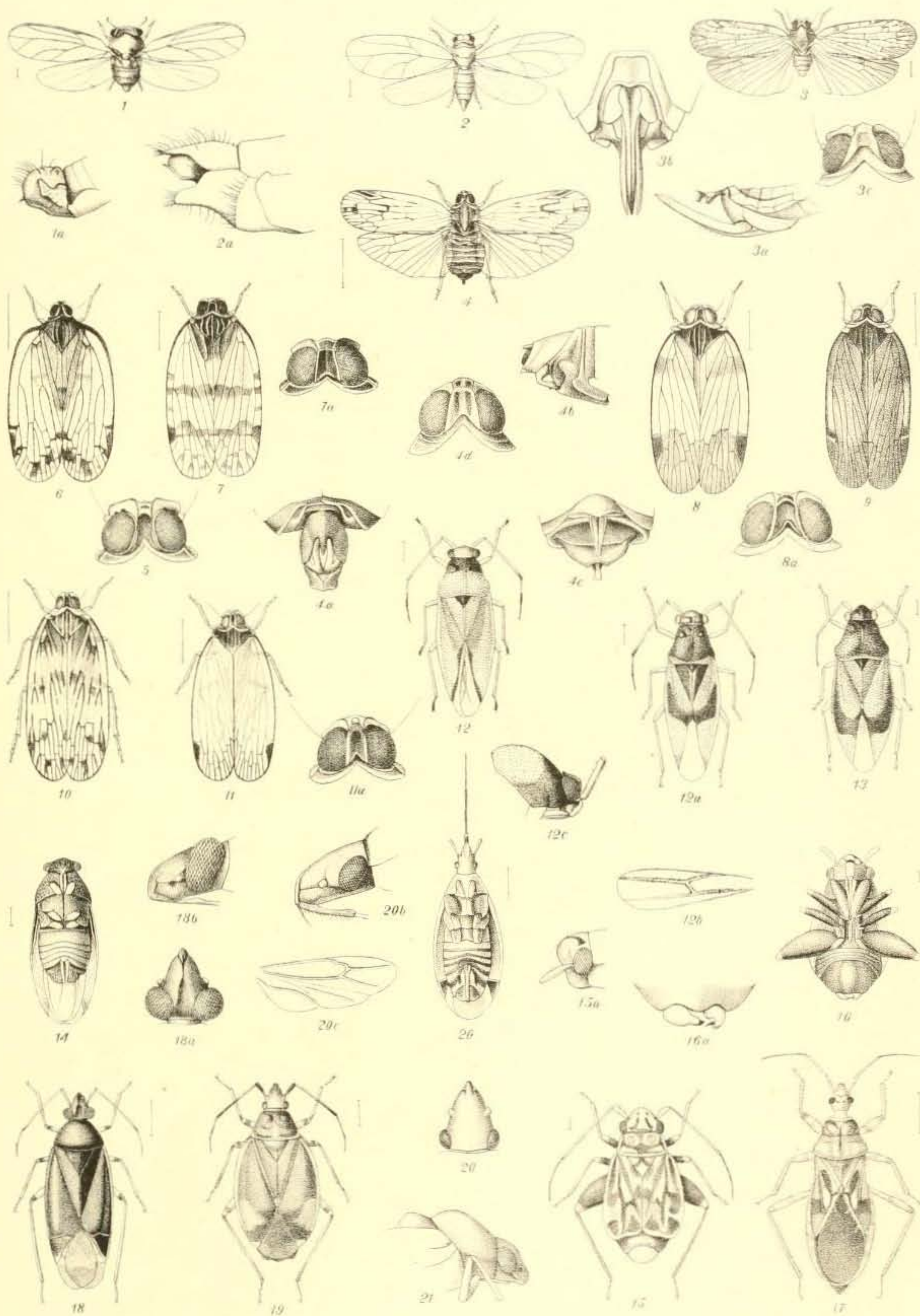
(1) *Bythoscopus kukanaroa*, sp. nov.

Head, pronotum and scutellum pale luteo-flavous; frons transversely clouded with blackish-brown in the middle, clypeus as in *kaiamamao*, pronotum and scutellum obscurely spotted and dotted with dark brown, a reddish-brown spot near the

DESCRIPTION OF PLATE IV. (VOL. III.)

HEMIPTERA.

- Fig. 1. *Hevaheva perkinsi* Kirk.
 Fig. 1a. " " ♂ genital segment in profile.
 Fig. 2. *Trioza iolani* Kirk.
 Fig. 2a. " " ♂ genital segment in profile.
 Fig. 3. *Iolania perkinsi* Kirk.
 Fig. 3a. " " ♀ genital segment in profile.
 Fig. 3b. " " " " seen from below.
 Fig. 3c. " " ♀ head and pronotum.
 Fig. 4. *Oliarus tamehameha* Kirk.
 Fig. 4a. " " ♂ genital segment from below.
 Fig. 4b. " " " " in profile.
 Fig. 4c. " " ♀ genital segment from below.
 Fig. 4d. " " head and pronotum.
 Fig. 5. *O. kanakanus* Kirk., head and pronotum.
 Fig. 6. *O. hevaheva* Kirk.
 Fig. 7. *O. opuna* Kirk.
 Fig. 7a. " " head and pronotum.
 Fig. 8. *O. tarai* Kirk.
 Fig. 8a. " " head and pronotum.
 Fig. 9. *O. tarai* var. *morai* Kirk.
 Fig. 10. *O. orono* Kirk.
 Fig. 11. *O. koanoa* Kirk.
 Fig. 11a. " " head and pronotum.
 Fig. 12. *Sulamita lunailo* Kirk., macropterous form (light coloured).
 Fig. 12a. " " " " (dark coloured).
 Fig. 12b. " " neuration of hind wing.
 Fig. 12c. " " head and pronotum in profile.
 Fig. 13. " " brachypterous form.
 Fig. 14. " " macropterous form underneath.
 Fig. 15. *Nesidiorchestes hawaiiensis* Kirk. ♂.
 Fig. 15a. " " " head in profile.
 Fig. 16. " " " ventral aspect.
 Fig. 16a. " " " clasps.
 Fig. 17. *Allococranum biannulipes*, Montr.
 Fig. 18. *Pseudoclerada morai* Kirk. ♂, macropterous form.
 Fig. 18a. " " head and eyes above.
 Fig. 18b. " " head in profile.
 Fig. 19. " " ♀, brachypterous form.
 Fig. 20. " " ♀, ventral aspect.
 Fig. 20a. " " head above.
 Fig. 20b. " " head in profile.
 Fig. 20c. " " neuration of hind wing.
 Fig. 21. *Baracus hawaiiensis* Kirk., head, pronotum, and scutellum in profile.



Edw. M. Kirkaldy

Kirkaldy Hemiptera

FAUNA HAWAIIENSIS
OR THE
ZOOLOGY OF THE SANDWICH (HAWAIIAN) ISLES:

Being Results of the Explorations instituted by the Joint Committee
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