



An unusual new species of *Scenopinus* Latreille (Diptera: Scenopinidae) from Australia

SHAUN L. WINTERTON

Entomology, Queensland Department of Primary Industries & Fisheries, 80 Meiers Road, Indooroopilly, Queensland, Australia 4068.
School of Integrated Biology, University of Queensland, St Lucia, Queensland, Australia 4072.
E-mail: shaun.winterton@dpi.qld.gov.au

Scenopinidae are a small family (ca. 300 species) of asiloid flies distributed on all continents except Antarctica. This family is closely related to Therevidae (Stiletto flies) based on the secondarily segmented characteristic of their larvae. Scenopinids are typically very small flies, frequently less than 5 mm total body length.

As with stiletto flies, the aridification of Australia has led to significant diversification in Scenopinidae fauna with almost 25% of the world's described species (Kelsey 1973). Of those described species in Australia (ca. 80), all are endemic, with only two of the six described genera found outside of the region (Kelsey 1989). Like in all other biogeographic regions, the cosmopolitan *Scenopinus* Latreille is the dominant genus with 32 species described; this number will surely increase as more species are discovered.

The unusual crested frons of *Scenopinus pallidipennis* (Paramonov) prompted Paramonov (1955) to describe it as the monotypic genus *Scenopinula* Paramonov. The male was unknown at the time but Kelsey (1969) suspected that it was simply a highly derived species of *Scenopinus*. Kelsey (1975) subsequently described the male of the species, which did not have the crested frons and displayed all the characteristics of *Scenopinus*, to which Kelsey placed the species and thus synonymised *Scenopinula*. Closely related to *Scenopinus pallidipennis*, *Scenopinus stephanos* **sp. nov.** is described herein from a single female specimen from south-western Queensland. This species is distinctive from *S. pallidipennis* not only by the much larger body size and larger frontal callus in the female, but also by the grossly enlarged fore legs relative to the mid and hind legs.

Taxonomy

Scenopinus stephanos sp. nov. (Fig. 1)

Etymology. The specific epithet is derived from the Greek: *stephanos*; crown, diadem, referring to the crown-like frontal callus of the female.

Type material. Holotype female, AUSTRALIA: Queensland: Charleville, 5.5 km on road to Augathella; 5.iii.1989; E. Dahms, G. Sarnes; sweep. coccoid inf[ested] *Aristida* sp. Condition: good (glued on card). Type specimen (T.156204) is deposited in the Queensland Museum (QMBA) in Brisbane, Australia.

Diagnosis. Wing clear hyaline, venation brownish; frons with large, crown-like callus; halteres dark-brown; front legs much more robust than mid or hind legs; abdomen uniform black.

Description. Body length: female 3.0 mm. Head: (Fig. 1) Glossy black, frons much wider than ocellar tubercle, overlain with short, fine white setae; large truncated callus above antenna projecting anteriorly; sides of callus wrinkled in texture, truncated surface verrucous with short tubercles, slightly cleft longitudinally; face smooth with sparse white setae; antennae projecting ventrally, brown with short pale setae on scape and pedicel; mouthparts reduced, but apparently not vestigial; ocellar tubercle flattened with sparse white setae; postocular ridge smooth, without macrosetae; fine white setae laterally on occiput and gena.

Thorax: Glossy dark brown-black; scutum sparsely overlain with elongate, fine white setae; pleuron mostly glabrous, anterior part greatly recessed to accommodate enlarged forelegs when raised against pleuron; legs with coxae and femora glossy dark-brown, tibia and tarsi light brown; pale setae on femora, longer on posterior surfaces; anterior legs