



A new species of *Zeanichnus* Jałoszyński in New Zealand (Coleoptera, Staphylinidae, Scydmaeninae)

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Abstract

A new species of the cyrtoscydmine genus *Zeanichnus* Jałoszyński, *Z. aypourianus* sp. n. is described. This third representative of *Zeanichnus* is known to occur in the northernmost tip of North Island, New Zealand. Comparative notes on diagnostic characters are given, and the male copulatory organ of the new species is illustrated.

Key words: Insecta, Coleoptera, Staphylinidae, Scydmaeninae, Cyrtoscydmini, *Zeanichnus*, New Zealand, taxonomy, new species.

Introduction

All species previously placed in *Stenichnus* Thomson, 1859 and occurring in Australia, New Zealand and New Caledonia, were recently revised by Jałoszyński (2013). All of them were removed from this possibly exclusively northern hemisphere genus: seven Australian species are currently in *Scydmaenilla* King, 1864; two species that inhabit New Zealand are placed in *Zeanichnus* Jałoszyński, 2013, and one species known to occur in New Caledonia is now in *Austrostenichnus* Franz, 1871.

Zeanichnus was established to accommodate *Scydmaenus insignis* Broun, 1893 (= *Stenichnus* (*Austrostenichnus*) *insignis* of Franz (1975)) and *Stenichnus* (*Austrostenichnus*) *kuschelianus* Franz, 1977. Morphological structures of these two species were found to be distinctly different from those of the type species of *Austrostenichnus* Franz, 1971, and therefore a new genus was proposed. The same set of generic diagnostic characters was found in a male specimen deposited at the New Zealand Arthropod Collection, and as it is clearly a new species, we describe it in the present paper.

Material and methods

Depositories

NZAC—New Zealand Arthropod Collection, Auckland, New Zealand (R. Leschen, L. Clunie)

Specimen handling, imaging and measurements. A dry-mounted specimen was relaxed in warm water and its aedeagus was dehydrated and mounted in Canada balsam. The habitus image (Fig. 1) was taken by a Nikon Coolpix 4500 camera mounted on a Nikon Eclipse 1500 stereoscopic microscope (Nikon, Tokyo, Japan); image stacks were processed using COMBINE ZP (Hadley 2010). Details of morphology were figured by a freehand drawing, with exact proportions and general shapes sketched from photographs. The terminology follows that of Jałoszyński (2013). The measurements and abbreviations are as follows:

AeL—length of aedeagus (from base to apex of apical projection)

AnL—length of antennae, measured in dorsal view

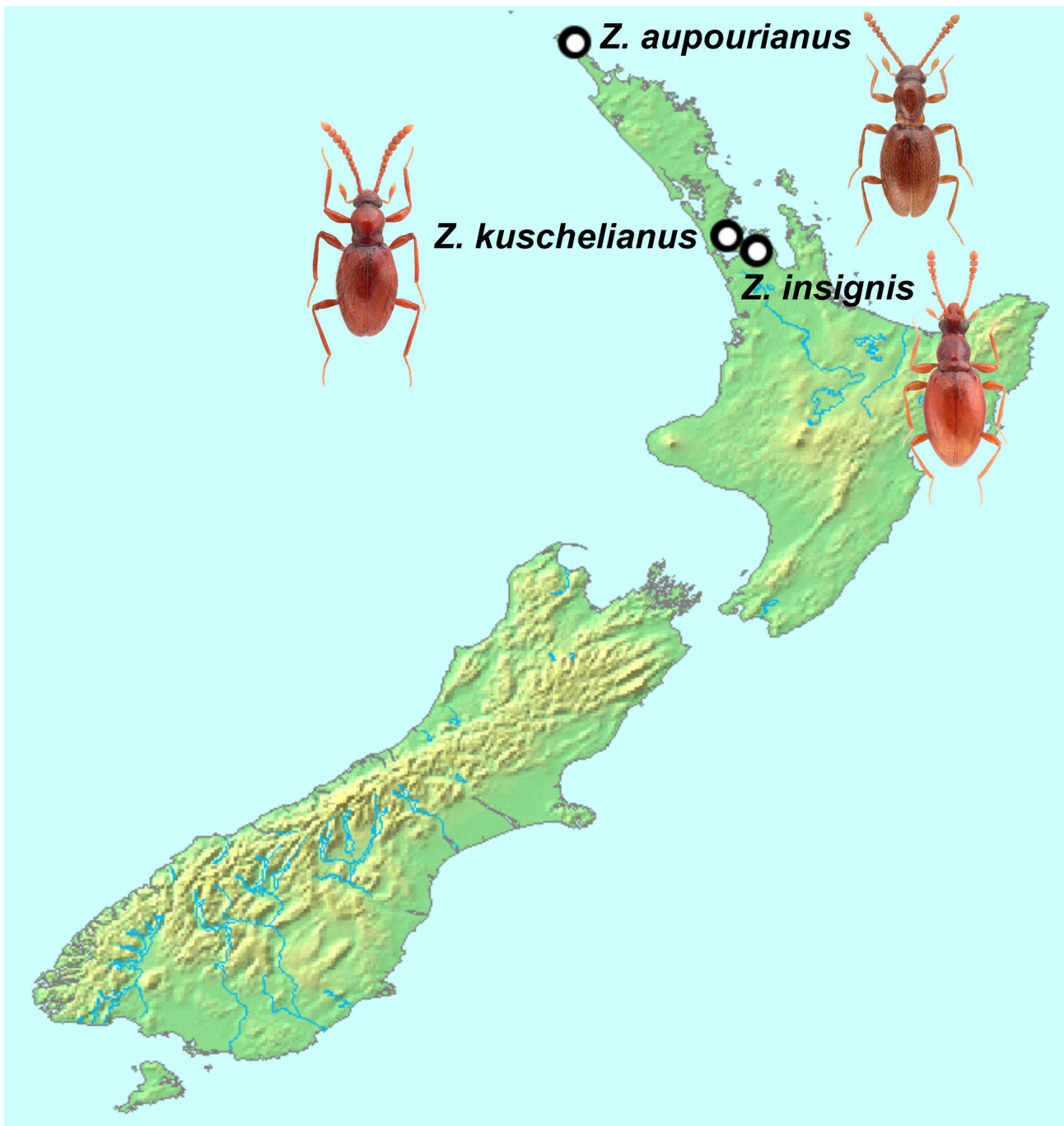


FIGURE 4. Distribution of *Zeanichnus* species in New Zealand.

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References

- Broun, T. (1893) Descriptions of new Coleoptera from New Zealand. *The Annals and Magazine of Natural History*, 12, 161–195.
<http://dx.doi.org/10.1080/00222939308677600>

- Franz, H. (1971) Untersuchungen über die Scydmaenidenfauna Neukaledoniens (Col., Scyd.). *Koleopterologische Rundschau*, 49, 43–157.
- Franz, H. (1975) Revision der Scydmaeniden von Australien, Neuseeland und den benachbarten Inseln. *Österreichische Akademie der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 118, 1–312.
- Franz, H. (1977) Neue Scydmaeniden (Coleoptera) aus Neuseeland, von Samoa den Tonga-Inseln und Cook-Inseln. *Koleopterologische Rundschau*, 53, 15–25.
- Hadley, A. (2010) Combine ZP software, new version, [WWW document]. Available from: <http://www.hadleyweb.pwp.blueyonder.co.uk/CZP/News.htm> (accessed 18 February 2015)
- Jałoszyński, P. (2013) Revision of subgenera of *Stenichnus* Thomson, with review of Australo-Pacific species (Coleoptera, Staphylinidae, Scydmaeninae). *Zootaxa*, 3630 (1), 39–79.
<http://dx.doi.org/10.11646/zootaxa.3630.1.2>
- King, R.L. (1864) On the scydmaenides of New South Wales. *Transactions of the Entomological Society of New South Wales*, 1, 91–99.
- Thomson, C.G. (1859) *Skandinaviens Coleoptera, synoptiskt bearbetade. Vol. 1*. Berlingska Boktryckeriet, Lund, 290 pp.