

**Morphology of adults and larvae
and integrative taxonomy of southern
hemisphere genera *Tormus* and *Afrotormus*
(Coleoptera: Hydrophilidae)**

Martin FIKÁČEK^{1,2)}, Yûsuke MINOSHIMA^{3,4)}, Dominik VONDRÁČEK^{2,7)},
Nicole GUNTER⁵⁾ & Richard A. B. LESCHEN⁶⁾

¹⁾Department of Entomology, National Museum, Kunratic 1, CZ-148 00 Praha 4, Czech Republic;
e-mail: mfikacek@gmail.com

²⁾Department of Zoology, Faculty of Sciences, Charles University in Prague, Viničná 7,
CZ-128 44 Praha 2, Czech Republic

³⁾Kitakyushu Museum of Natural History and Human History, 2-4-1 Higashida, Yahatahigashi-ku,
Kitakyushu, Fukuoka, 805-0071 Japan; e-mail: minoshima@kmnh.jp

⁴⁾Systematic Entomology, Graduate School of Agriculture,
Hokkaido University, Sapporo, 060-8589 Japan

⁵⁾Australian National Insect Collection, CSIRO Ecosystem Sciences, GPO Box 1700,
Canberra, ACT 2601, Australia; e-mail: Nicole.Gunter@csiro.au

⁶⁾New Zealand Arthropod Collection, Landcare Research, Private Bag 92170, Auckland,
New Zealand; e-mail: leschenr@landcareresearch.co.nz

⁷⁾e-mail: dom.von@seznam.cz

Abstract. Adult morphology of the genera *Tormus* Sharp, 1884 and *Afrotormus* Hansen, 1999, endemics of New Zealand and South Africa respectively, is examined and illustrated. The larval morphology of *Tormus* is also reviewed. Both adult and larval morphology supports the hypothesis of close relationship between these genera and *Paracymus* Thomson, 1867 of the tribe Laccobiini as shown by molecular data. The principal adult characters supporting this hypothesis are the presence of an organized stridulatory file on abdominal laterosternite 3 and the morphology of the mesofurca. The larva of *Tormus* is very similar to that of *Paracymus*, with the exception of the absence of the ligula and the presence of dense pubescence on antenna, maxilla and labium which are possible adaptations to a terrestrial lifestyle. The sister relationship of *Tormus* and *Afrotormus* seems quite probable based on several unique or rarely occurring character states shared by both genera, but needs to be confirmed by a formal phylogenetic analysis. *Tormus* inhabits moss on forest floor and *Afrotormus* was collected from under stones, and both genera hence represent previously unrecognized independent ecological transitions to terrestrial environment within Hydrophilidae. Genital morphology of *Tormus* indicated two well-defined groups

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