



Syllinae (Syllidae: Polychaeta) from Australia. Part 4. The genus *Haplosyllis* Langerhans, 1879

PATRICIA LATTIG^{1,2}, DANIEL MARTIN¹ & GUILLERMO SAN MARTÍN²

¹Centre d'Estudis Avançats de Blanes (CEAB–CSIC), Carrer d'accés a la Cala Sant Francesc 14, 17300 Blanes (Girona), Catalunya, Spain. E-mail: plattig@gmail.com; dani@ceab.csic.es

²Departamento de Biología (Zoología), Laboratorio de Biología Marina e Invertebrados, Facultad de Ciencias, Universidad Autónoma de Madrid, calle Darwin 2, 28049 Canto Blanco, Madrid, Spain. E-mail: guillermo.santmartin@uam.es

Table of contents

Abstract	1
Introduction	2
Material and method	2
Taxonomic account	3
Family Syllidae Grube, 1850	3
Subfamily Syllinae Grube, 1850	3
Genus <i>Haplosyllis</i> Langerhans, 1879.....	3
Key to Australian species of <i>Haplosyllis</i>	3
<i>Haplosyllis basticola</i> Sardá, Ávila & Paul, 2002	4
<i>Haplosyllis crassicirrata</i> Aguado, San Martín & Nishi, 2006	6
<i>Haplosyllis djiboutiensis</i> Gravier, 1900	10
<i>Haplosyllis imajimai</i> sp. nov.	14
<i>Haplosyllis ingensicola</i> Lattig, Martin & Aguado, 2010	17
<i>Haplosyllis sanchoi</i> sp. nov.	19
<i>Haplosyllis sandii</i> sp. nov.	22
<i>Haplosyllis</i> cf. <i>spongicola</i>	25
<i>Haplosyllis tenhovei</i> Lattig, Martin & Aguado, 2010	28
<i>Haplosyllis uncinigera</i> (Grube, 1878)	33
Acknowledgments	35
References	36

Abstract

Large collections of Syllidae (Polychaeta) from around Australia housed at the Australian Museum (Sydney) have been examined and identified. Among them are seven known species of *Haplosyllis* Langerhans, 1879, which are here redescribed and figured: *H. uncinigera* (Grube, 1878), *H. basticola* Sardá, Paul & Ávila, 2002, *H. crassicirrata* Aguado, San Martín & Nishi, 2006, *H. ingensicola* Lattig, Martin & Aguado, 2010, *H. tenhovei* Lattig, Martin & Aguado, 2010, *H. djiboutiensis* Gravier, 1900 (the most widely distributed species) and *H. cf. spongicola*. The latter is morphologically very similar to the type series of *H. spongicola* (Grube, 1855) from the Mediterranean, so future molecular studies would be necessary to clarify its taxonomic status. In addition, *H. imajimai* **sp. nov.**, *H. sanchoi* **sp. nov.**, and *H. sandii* **sp. nov.**, are newly described. All relevant characters for all species are fully illustrated, most of them using Scanning Electron Microscopy. Finally, a key to the Australian species is given.

Key words: *Haplosyllis*, Syllinae, Syllidae, Australia, new species