A review of the hyperiidean amphipod superfamily Vibilioidea
Bowman and Gruner, 1973 (Crustacea: Amphipoda: Hyperiidea)

WOLFGANG ZEIDLER
WOLFGANG ZEIDLER

A review of the hyperiidean amphipod superfamily Vibilioidea Bowman and Gruner, 1973
(Crustacea: Amphipoda: Hyperiidea)
(Zootaxa 280)
104 pp.; 30 cm.
29 August 2003
ISBN 1-877354-10-4 (Paperback)
ISBN 1-877354-11-2 (Online edition)

PUBLISHED BY
Magnolia Press
P.O. Box 41383 St. Lukes
Auckland 1030
New Zealand
e-mail: zootaxa@mapress.com
http://www.mapress.com/zootaxa/

© 2003 Magnolia Press
All rights reserved.
No part of this publication may be reproduced, stored, transmitted or disseminated, in any form, or by any means, without prior written permission from the publisher, to whom all requests to reproduce copyright material should be directed in writing.
This authorization does not extend to any other kind of copying, by any means, in any form, and for any purpose other than private research use.

ISSN 1175-5326 (Print edition)
ISSN 1175-5334 (Online edition)
A review of the hyperiidean amphipod superfamily Vibilioidea
Bowman and Gruner, 1973 (Crustacea: Amphipoda: Hyperiidea)

WOLFGANG ZEIDLER
South Australian Museum, North Terrace, Adelaide, South Australia, Australia 5000
(zeidler.wolfgang@saugov.sa.gov.au)

Table of contents

Abstract ................................................................. 4
Introduction .............................................................. 5
Materials and methods .............................................. 5
Abbreviations used in text ......................................... 6
Abbreviations used in illustrations .............................. 7
Systematics ............................................................. 7

Superfamily VIBILIOIDEA Bowman & Gruner, 1973 .............. 7
Family VIBILIIDAE Dana, 1852 .................................. 8
Key to the genera of the family VIBILIIDAE ...................... 8
Genus Vibilia Milne-Edwards, 1830 .............................. 8
Key to the species of the genus Vibilia ......................... 11
Vibilia jeangerardi Lucas (Figs 1 & 2) ......................... 13
Vibilia borealis Bate & Westwood (Figs 3 & 4) ............... 17
Vibilia gibbosa Bovallius (Figs 5 & 6) ......................... 20
Vibilia robusta Bovallius (Figs 7-9) ............................ 23
Vibilia viatrix Bovallius (Figs 10 & 11) ....................... 28
Vibilia armata Bovallius (Figs 12 & 13) ....................... 32
Vibilia pyripes Bovallius (Figs 14 & 15) ..................... 36
Vibilia propinqua Stebbing (Figs 16 & 17) ................... 40
Vibilia australis Stebbing (Figs 18 & 19) .................... 44
Vibilia antarctica Stebbing (Figs 20 & 21) .................. 47
Vibilia cultripes Vosseler (Figs 22 & 23) ....................... 51
Vibilia stebbingi Behning & Woltereck (Figs 24 & 25) .... 54
Vibilia chuni Behning & Woltereck (Fig 26) .................. 57
Vibilia longicarpus Behning (Figs 27 & 28) ................. 60
Vibilia caeca Bulycheva (Fig 29) ............................... 63
Vibilia thurstoni sp. nov. (Figs 30 & 31) ....................... 65

Accepted: 14 August 2003; published: 29 August 2003
Abstract

A taxonomic review of the hyperiidean superfamily Vibilioidea is presented, based on material held by most of the major museums in the world. Three families are recognised as belonging to the superfamily. It is proposed to remove Cyllopus from the family Vibiliidae, based on the positioning of the antennae and other minor characters inconsistent with other members of the family, and to resurrect the family Cyllopodidae Bovallius, 1887 to accommodate it. Two species of Cyllopus are recognised in this review. The family Vibiliidae is restricted to two genera; Vibilia and Vibilioides. Seventeen species of Vibilia are recognised in this review, including two described as new to science. Ten nominal species of Vibilia, considered nomen dubia, are discussed. Vibilioides is considered to be monospecific. The family Paraphronimidae is currently monogenic with two species. A key to all species is provided.

Key words: Amphipoda, Hyperiidea, Vibilioidea, Vibiliidae, Cyllopodidae, Paraphronimidae, Vibilia, Vibilioides, Cyllopus, Paraphronimidae, review, taxonomy