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**Systematics and biogeography of the New Zealand
endemic genus *Zorion* Pascoe 1867 (Coleoptera:
Cerambycidae: Cerambycinae), with descriptions of
six new species**

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of the requirements for the degree of

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Franz Rudolf Schnitzler

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The holotype of *Zorion minutum* Fabricius 1775 collected by Joseph Banks during the first voyage of Captain Cook to New Zealand, 1769-1771, held at the Natural History Museum, London

Abstract

The genus *Zorion* (Coleoptera: Cerambycidae: Cerambycinae) commonly known as longhorn flower beetle is endemic to New Zealand and its species are distributed widely on the main and on some offshore islands. A taxonomic revision of *Zorion* is given, including thorough description including illustration of the genus. The previously known species *Z. minutum*, *Z. guttigerum*, *Z. opacum*, and *Z. batesi* are redescribed, *Z. castum* is synonymised with *Z. guttigerum*, and *Z. angustifasciatum*, *Z. australe*, *Z. dugdalei*, *Z. kaikouraiensis*, *Z. nonmaculatum* and *Z. taranakiensis* are described as new species. A key to all ten species is provided. *Z. exiguum* has been excluded from the study because the original description and the holotype could not be located. The beetles are pollen feeders and visit a variety of plant species for feeding, mating and oviposition. The phylogenetic relationship of all ten species was analysed cladistically using PAUP. Results show that *Z. taranakiensis* is the sister taxon to the unresolved clade of *Z. batesi*, *Z. angustifasciatum* and *Z. dugdalei*. *Z. australe* and *Z. nonmaculatum*, whose relationship remains unresolved form a sister group to the *Z. taranakiensis* group. *Z. guttigerum* and *Z. kaikouraiensis* are sister taxa forming a sister group to the *Z. australe* group. *Z. minutum* is the sister taxon to the latter eight species and *Z. opacum* the sister taxon to all species in this study. The relationships between *Zorion* species reflect their distribution patterns, which are discussed in relation to New Zealand's biogeographical history.

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Table of Contents

Abstract	iii
Acknowledgements	iv
List of Figures	x
List of Tables	xiv
CHAPTER 1 GENERAL INTRODUCTION	1
1.1 Preface.....	1
1.2 Historical Background to the Taxonomy of the Genus <i>Zorion</i> Pascoe.....	3
CHAPTER 2 TAXONOMY OF THE GENUS <i>ZORION</i> PASCOE 1867	6
2.1 Introduction.....	6
2.2 Materials and Methods.....	6
2.2.1 Specimens examined.....	6
2.2.2 Measurements and illustrations.....	10
2.2.3 Dissection of terminalia.....	10
2.2.4 Terminology and descriptions.....	11
2.3 Taxonomy of the Genus <i>Zorion</i> Pascoe.....	12
2.3.1 External structures.....	12
2.3.2 Terminalia.....	20
2.3.3 Key to the species of the genus <i>Zorion</i> Pascoe.....	26
2.3.4 Description of <i>Zorion</i> species.....	27
<i>Z. minutum</i> (Fabricius).....	27
<i>Z. guttigerum</i> (Westwood).....	30
<i>Z. opacum</i> (Sharp).....	40
<i>Z. angustifasciatum</i> new species.....	45

	<i>Z. dugdalei</i> new species.....	48
	<i>Z. taranakiensis</i> new species.....	51
	<i>Z. kaikouraiensis</i> new species.....	54
	<i>Z. australe</i> new species.....	56
	<i>Z. nonmaculatum</i> new species.....	66
	<i>Z. batesi</i> (Sharp).....	68
2.4	General Biology and Behaviour.....	75
CHAPTER 3 PHYLOGENETIC ANALYSIS OF THE GENUS ZORION		83
3.1	Introduction.....	83
3.2	Terminal Taxa.....	83
3.3	Characters and Character Coding.....	85
3.4	Cladistic Method.....	87
3.5	Results and Discussion.....	88
	3.5.1 Cladograms obtained.....	88
	3.5.2 Determination of character polarity.....	91
	3.5.3 Synapomorphies and clades of <i>Zorion</i>	92
	3.5.4 Character diagnostics for the genus <i>Zorion</i>	94
3.6	Summary.....	96
CHAPTER 4 BIOGEOGRAPHY AND DISTRIBUTION		97
4.1	Introduction.....	97
4.2	New Zealand Moving and Origin of <i>Zorion</i>	98
4.3	New Zealand Changing and <i>Zorion</i> Distribution.....	99
4.4	Conclusion.....	104

CHAPTER 5	GENERAL DISCUSSION AND SUMMARY	105
5.1	Introduction.....	105
5.2	Taxonomy.....	105
5.3	General Biology.....	106
5.4	Phylogeny.....	107
5.5	Biogeography and Distribution.....	108
5.6	Synopsis.....	108
	Appendix	109
6.1	Preliminary Sequence Data	109
6.2	Sequences Lineup	110
6.3	Sequence Comparison	111
	References	114

List of Figures

Figure 2.1	Specimen localities for mainland New Zealand and their area codes.....	8
Figure 2.2	Map showing specimen localities and their area codes in the New Zealand subregion.....	9
Figure 2.3	Head of <i>Zorion</i> front view.....	13
Figures 2.4-2.5	Head and prothorax. 4, dorsal view of head and prothorax; 5, lateral view of head.....	14
Figure 2.6	Antennae of <i>Zorion</i>	14
Figures 2.7-2.8	Ventral view of thorax. 7, prosternum; 8, meso- and metasternum.....	15
Figures 2.9-2.11	Ventral view of femora in relation to each other: fm, femur; tr, trochanter. 9, metafemur; 10, mesofemur; 11, profemur.....	16
Figures 2.12-2.14	Hind femur, ventral view. 12, dark coloured femur, 13, light coloured femur with dark ring; 14, light coloured femur without ring.....	16
Figures 2. 15-2.16	Outline of left elytra, dorso-lateral view: 15, <i>Z. angustifasciatum</i> ♀, pointed apex, 16, <i>Z. minutum</i> ♂, rounded apex.....	17
Figures 2.17-2.18	The major elytra axis and the relationship of the spots to the outline of the elytra (both elytra <i>Z. batesi</i>). 17, backward, right and forward angel of spots; 18, right angled spots.....	18
Figures 2.19-2.20	Sexual dimorphism in the genus <i>Zorion</i> at the epipleural fold. 19, female <i>Z. minutum</i> with hairs; 20, male elytra of <i>Z. minutum</i> without hairs.....	18
Figures 2.21-2.29	Elytra colour pattern: 21, <i>Z. angustifasciatum</i> ; 22, <i>Z. kaikouraiensis</i> ; 23, <i>Z. dugdalei</i> ; 24, <i>Z. minutum</i> ; 25, <i>Z. nonmaculatum</i> ; 26, <i>Z. opacum</i> ; 27, <i>Z. taranakiensis</i> ; 28, <i>Z. australe</i> ; 29, <i>Z. guttigerum</i> . (Left elytron).....	19
Figure 2.30	Elytral colour patterns for <i>Z. batesi</i> . Pear shaped spot (a); split spot (b).....	20
Figures 2.31-2.36	Aedeagus and its spines of <i>Z. batesi</i> 31, ventral view of aedeagus: 32, fine spines in rows; 33, long single spines; 34 - 35, paired spines; 36, scale like digitate spines.....	21
Figure 2.37	SEM images of internal sac from a <i>Z. guttigerum</i> specimen	22

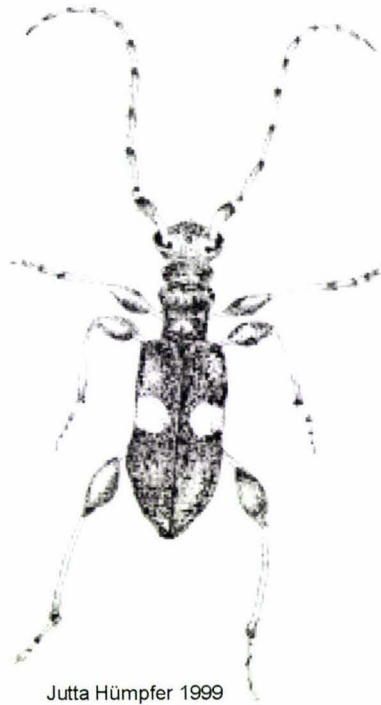
Figures 2.38-2.40	Male terminalia of <i>Zorion</i> . 38, 8 th sternite with single pointed spines; 39, 8 th tergite with single pointed spines gradually turning into scale like spines; 40, tegmen with digitate spines.....	23
Figures 2.41-2.42	Female fifth tergite and eighth sternite. 41, scales on 5 th tergite forming two iridescent eyespots in females. 42, spined and scaled section on 8 th sternite.....	24
Figure 2. 43	Ovipositor and efferent system of <i>Z. australe</i>	25
Figure 2.44	Dorsal view of <i>Z. minutum</i>	28
Figure 2.45	Ovipositor and spermatheca of <i>Z. minutum</i>	29
Figure 2.46	Dorsal view of <i>Z. guttigerum</i>	31
Figure 2.47	Ovipositor and spermatheca of <i>Z. guttigerum</i>	32
Figure 2.48	Dorsal view of <i>Z. opacum</i>	40
Figure 2.49	Ovipositor and spermatheca of <i>Z. opacum</i>	42
Figure 2.50	Dorsal view of <i>Z. angustifasciatum</i>	45
Figure 2.51	Ovipositor and spermatheca of <i>Z. angustifasciatum</i>	46
Figure 2.52	Dorsal view of <i>Z. dugdali</i>	49
Figure 2.53	Dorsal view of Pronotum. a) <i>Z. dugdali</i> in comparison to b) <i>Z. angustifasciatum</i>	49
Figure 2.54	Ovipositor and spermatheca of <i>Z. dugdali</i>	50
Figure 2.55	Dorsal view of <i>Z. taranakiensis</i>	52
Figure 2.56	Apex of ovipositor and spermatheca of <i>Z. taranakiensis</i>	53
Figure 2.57	Dorsal view of <i>Z. kaikouraiensis</i>	54
Figure 2.58	Ovipositor and spermatheca of <i>Z. kaikouraiensis</i>	55
Figure 2.59	Dorsal view of <i>Z. australe</i>	57
Figure 2.60	Ovipositor and spermatheca of <i>Z. australe</i>	58
Figure 2.61	Dorsal view of <i>Z. nonmaculatum</i>	67

Figure 2.62	Ovipositor and spermatheca of <i>Z. nonmaculatum</i>	67
Figure 2.63	Dorsal view of <i>Z. batesi</i>	69
Figure 2.64	Ovipositor and spermatheca of <i>Z. batesi</i>	69
Figure 2.65	<i>Z. guttigerum</i> feeding on <i>Physocarpus opulifolius</i> flowers..	76
Figure 2.66	<i>Z. guttigerum</i> covered with fine pollen.....	76
Figure 2.67	<i>Hebe</i> bush from which a number of <i>Z. guttigerum</i> were collected. Mason River, South Island.....	77
Figure 2.68	Open vegetation at Mason river, South Island.....	77
Figure 2.69	Forest remnant below Mt. Terako, South Island along Cunningham stream from where <i>Z. guttigerum</i> was collected along the stream side.....	77
Figure 2.70	Camp site at Cunningham Stream, South Island.....	78
Figure 2.71	Collecting <i>Z. australe</i> by beating <i>Pomaderris</i> in the Marlborough Sounds.....	78
Figure 2.72	<i>Physocarpus opulifolius</i> bush on which <i>Z. guttigerum</i> was found and from which flowers were used to feed captured specimens at Massey University, Palmerston North.....	79
Figure 2.73	<i>Z. guttigerum</i> male above and female below about to mate.	80
Figure 2.74	<i>Z. guttigerum</i> larvae. Ventral and dorsal view.....	81
Figure 2.75	Newly emerged <i>Z. guttigerum</i>	81
Figure 2.76	<i>Alnus cordata</i> twig showing notches and deposited egg of <i>Zorion</i>	82
Figure 2.77	Hatching <i>Zorion</i> larva.....	82
Figure 2.78	<i>Zorion</i> egg against <i>Alnus cordata</i> twig.....	82
Figure 2.79	<i>Z. guttigerum</i> larvae on an <i>Alnus cordata</i> twig.....	82
Figure 3.1	50% Majority-rule consensus derived from six most parsimonious cladograms.....	88
Figure 3.2	Partition of cladogram 1 of 3.....	90
Figure 3.3	Partition of cladogram 2 of 3.....	90

Figure 3.4	Partition of cladogram 3 of 3.....	90
Figure 3.5	50% Majority-rule consensus of three most parsimonious cladograms	91
Figure 4.1	Distribution of the <i>Zorion</i> species as recorded from collection labels.....	101
Figure 4.2	Changing New Zealand during the Cenozoic.....	102
Figure 4.3	Model of the age and origin of recurved arcs in New Zealand in relation to movement on the Australian-Pacific plate boundary.....	103
Figure 6.1	Partial mitochondrial CO1 gene sequence of <i>Z. australe</i> and <i>Z. guttigerum</i> , one individual each. The sequences shown exclude primer sequences.....	109
Figure 6.2	Lineup of partial mitochondrial CO1 sequences of <i>Z. australe</i> and <i>Z. guttigerum</i> . The consensus sequence is presented below the beetle sequences. Only nucleotides that differ from the consensus sequence are shown.....	110
Figure 6.3	Sequences that produced significant alignments with that of <i>Z. australe</i> . The sequences are presented in order of homology with the most homologous sequence (<i>Charybdis affinis</i>) presented first. The Genbank and identification number for each organism is also shown.....	111
Figure 6.4	Alignment of sequences from Fig. 6.3 with the sequence of <i>Z. australe</i> . The <i>Z. australe</i> sequence is presented in full with nucleotide identities being shown as dots. Each organism is presented by an identification number (see Fig. 6.3).....	112-113

List of Tables

Table 1.1	Taxonomic history of the genus <i>Zorion</i> indicating three species and four synonyms (Blair 1938).....	4
Table 3.1	Characters and character states used in the phylogenetic analysis of the genus <i>Zorion</i>	86
Table 3.2	Data matrix for cladistic analysis of the genus <i>Zorion</i> . Multistate characters are unordered.....	87
Table 3.3	Frequency and % of bipartitions for 11 taxa occurring in 50% majority rule consensus of six cladograms.....	89
Table 3.4	Frequency and % of bipartitions for 11 taxa occurring in 50% majority rule consensus of three cladograms.....	92
Table 3.5	List of reconstructed states of <i>Zorion</i> for internal nodes from Figs 3.2-3.5.....	92
Table 3.6	Characters and their state transformations that are synapomorphies for each clade in Fig. 3.5.....	93
Table 3.7	Character diagnostics for the 50% majority rule consensus (Fig. 3.5) for the genus <i>Zorion</i>	95
Table 5.1	Taxonomic history (Blair 1937) and present status of the genus <i>Zorion</i>	106



Jutta Hümpfer 1999

Zorion guttigerum