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The Muscidae (Diptera) of New Caledonia

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Table of contents

Table of contents	3
Abstract	4
Introduction	5
Material and methods	7
Results and discussion	8
Key to the genera and species of Muscidae from New Caledonia	8
Systematics	12
MUSCIDAE	12
Atherigoninae	12
Genus <i>Atherigona</i> Rondani	12
1. <i>Atherigona (Atherigona) bidens</i> Hennig, new record	15
2. <i>Atherigona (Acritochaeta) orientalis</i> Schiner	15
3. <i>Atherigona (Atherigona) oryzae</i> Malloch	17
4. <i>Atherigona (Acritochaeta) poecilopoda</i> Bezzi, new record	17
5. <i>Atherigona (Atherigona) simplex</i> (Thomson)	18
6. <i>Atherigona (Atherigona) tibiseta</i> Malloch	19
Muscinae	20
Muscini	20
Genus <i>Musca</i> Linnaeus	20
7. <i>Musca domestica</i> Linnaeus	20
8. <i>Musca terraereginae</i> Johnston & Bancroft	21
9. <i>Musca ventrosa</i> Wiedemann, new record	21
10. <i>Musca vetustissima</i> Walker, new record	22
Genus <i>Neomyia</i> Walker, new record	22
11. <i>Neomyia timorensis</i> (Robineau-Desvoidy), new record	22
Stomoxyini	23
Genus <i>Stomoxys</i> Geoffroy	23
12. <i>Stomoxys calcitrans</i> (Linnaeus)	23
Azeliinae	24
Azeliini	24
Genus <i>Hydrotaea</i> Robineau-Desvoidy	24
13. <i>Hydrotaea australis</i> Malloch	24
14. <i>Hydrotaea chalcogaster</i> (Wiedemann)	24
15. <i>Hydrotaea spinigera</i> (Stein)	25
Reinwardtiini	26
Genus <i>Muscina</i> Robineau-Desvoidy	26
16. <i>Muscina stabulans</i> (Fallén)	26
Genus <i>Synthesiomyia</i> Brauer & Bergenstamm, new record	26
17. <i>Synthesiomyia nudiseta</i> (Wulp), new record	27
Phaoniinae	27
Dichaetomyiini	27
Genus <i>Dichaetomyia</i> Malloch	27
18. <i>Dichaetomyia bilimbata</i> (Bigot)	28
19. <i>Dichaetomyia shinonagai</i> , sp. nov.	30
Phaoniini	33
Genus <i>Helina</i> Robineau-Desvoidy, new record	33
20. <i>Helina flavoextrema</i> , sp. nov.	34
Mydaeinae	35
Genus <i>Graphomya</i> Robineau-Desvoidy	35
21. <i>Graphomya maculata</i> (Scopoli)	35
Genus <i>Hebecnema</i> Schnabl	36
22. <i>Hebecnema infuscata</i> (Bigot)	36

Genus <i>Myospila</i> Rondani	37
23. <i>Myospila propinqua</i> (Stein)	37
Coenosiinae	38
Limnophorini	38
Genus <i>Limnophora</i> Robineau-Desvoidy	38
24. <i>Limnophora caledonica</i> Shinonaga, Kano & Fauran	38
25. <i>Limnophora longiantennata</i> , sp. nov.	40
26. <i>Limnophora mesolissa</i> Bezzi	40
Genus <i>Lispe</i> Latreille	42
27. <i>Lispe assimilis</i> Wiedemann	42
28. <i>Lispe bengalensis</i> (Robineau-Desvoidy)	43
29. <i>Lispe cana</i> (Walker)	43
30. <i>Lispe fuscipalpis</i> Malloch, new record	44
31. <i>Lispe nicobarensis</i> Schiner	44
Coenosiini	44
Genus <i>Coenosia</i> Meigen	44
32. <i>Coenosia pumilio</i> Stein	45
Genus <i>Lispocephala</i> Pokorný	46
33. <i>Lispocephala occulta</i> (Pont, 1972), new record.....	46
34. <i>Lispocephala pectinata</i> (Stein)	47
Genus <i>Orchisia</i> Rondani	47
35. <i>Orchisia costata</i> (Meigen)	47
Genus <i>Pygophora</i> Schiner	48
36. <i>Pygophora caledonica</i> (Bigot)	48
37. <i>Pygophora hopkinsi</i> Malloch, new record	51
38. <i>Pygophora maculigera</i> (Stein)	51
39. <i>Pygophora minuta</i> Malloch	51
40. <i>Pygophora spinifera</i> , sp. nov.	52
Discussion	53
Acknowledgements	56
References	56

Abstract

The Muscidae of New Caledonia are reviewed. A key for the identification of genera and species is given, together with diagnoses, descriptions and illustrations. The revision is based on literature records and on examined material from New Caledonia deposited in various museums and institutions. A total of 18 genera and 40 species are recognised, 7 of which are endemic and 4 of which are newly described: *Dichaetomyia shinonagai*, **sp. nov.**; *Helina flavoextrema*, **sp. nov.**; *Limnophora longiantennata*, **sp. nov.** and *Pygophora spinifera*, **sp. nov.** *Helina* Robineau-Desvoidy, *Synthesiomyia* Brauer & Bergenstamm and *Neomyia* Walker are newly recorded genera, and *Atherigona bidens* Hennig, *Atherigona poecilopoda* Bezzi, *Lispe fuscipalpis* Malloch, *Lispocephala occulta* (Pont), *Musca ventrosa* Wiedemann, *Musca vetustissima* Walker, *Neomyia timorensis* (Robineau-Desvoidy), *Pygophora hopkinsi* Malloch and *Synthesiomyia nudiseta* (Wulp) are newly recorded species for New Caledonia. Four species previously recorded in the literature on New Caledonia, *Muscina stabulans* (Fallén), *Lispe assimilis* Wiedemann, *Pygophora maculigera* (Stein) and *Pygophora minuta* Malloch, were not represented in the material examined. The male terminalia of the *Atherigona* species, *Pygophora caledonica* (Bigot) and the new species are illustrated. *Coenosia pumilio* Stein is redescribed. *Lispe binotata* Becker, 1914 is a new junior subjective synonym of *Lispe nicobarensis* Schiner, 1868, syn. nov. A brief discussion on the composition of the fauna is also given.

Key words: New Caledonia, Diptera, Muscidae, biogeography