THE ANTS (HYMENOPTERA: FORMICIDAE) OF THE TABIN WILDLIFE RESERVE, SABAH

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ABSTRACT

A list of ants collected during the Tabin Science Expedition and Inventory 1998 is presented. The collections were made from the 13th to 20th February, 1998. A total of eight subfamilies represented by 46 genera and 122 species were collected.

INTRODUCTION

A general collection of the ant fauna was made from the 13th to 20th February during the Tabin Scientific Expedition and Inventory 1998. During a previous expedition carried out in 1988, the ant fauna had been excluded. Thus, our materials and information collected on the ant fauna from this expedition would be the first report for ants at Tabin.

RESULTS AND DISCUSSIONS

A total of eight subfamilies comprising 46 genera and 122 species was collected during the expedition. The species list of the ants collected at Tabin is presented below (Table 1). The taxonomic arrangement and species names follow those of Bolton's catalogue (1994, 1995). This collection made within a period of eight days is comparable to that made by Chung & Maryati (1996) at Danum Valley from both the primary and secondary forest. The number of ant species found would increase with more collecting effort. As this collection basically involved only manual collection, more species would be expected if more sampling techniques were used (Maryati 1994). It can be seen from Table 1 that Myrmecinae is the largest subfamily followed by Formicinae, Ponerinae and Dolichoderinae. This pattern typifies a relatively undisturbed condition of a lowland tropical rain forest. A degraded lowland forest would yield a higher proportion of

Ponerinae. Similarly a submontane forest would also contain a higher representation of Ponerinae and Dolichodorinae (Maryati 1995).

We hope that this collection and information will form the baseline data for future work. The collections will be deposited at BORNEENSIS, the reference collection centre at the Tropical Biology and Conservation Unit, Universiti Malaysia Sabah and the Wildlife Department of Sabah.

Table 1. Species list of ants of Tabin.

AENICTINAE

1. *Aenictus dentatus* Forel 1911 (Fig. 1)

CERAPACHYINAE

2. *Cerapachys* sp. 1
3. *Cerapachys* sp. 2 (Fig. 2)

DOLICHODERINAE

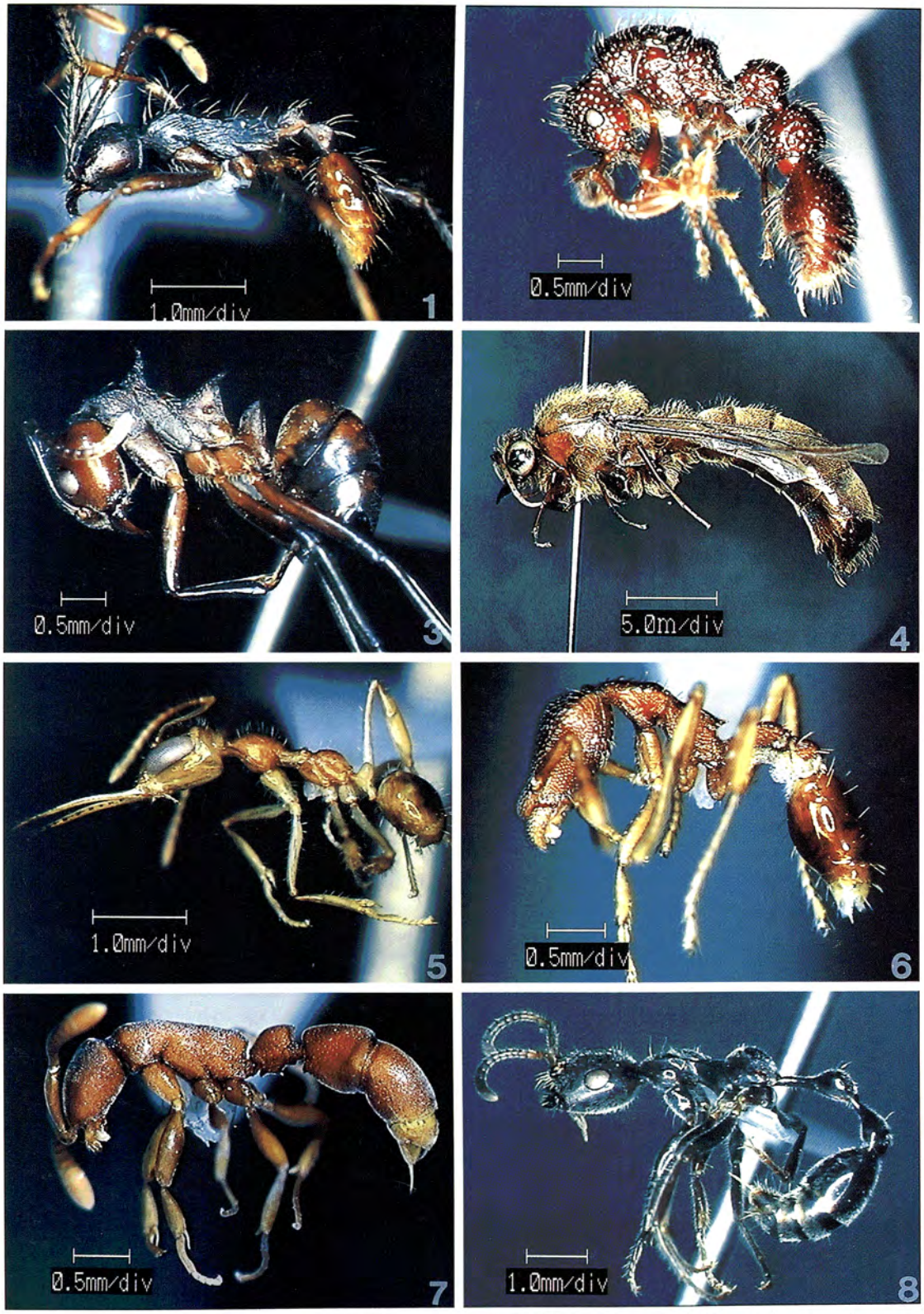
4. *Dolichoderus coniger* Mayr 1870
5. *Dolichoderus cuspidatus* (Fr. Smith) 1857 (Fig. 3)
6. *Dolichoderus sulcaticeps* (Mayr) 1870
7. *Dolichoderus thoracicus* (Fr. Smith) 1860
8. *Dolichoderus* sp. 1
9. *Dolichoderus* sp. 2
10. *Iridomyrmex anceps* (Roger) 1863
11. *Philidris* sp. 1

DORYLINAE

12. *Dorylus* sp. (Only male) (Fig. 4)

FORMICINAE

13. *Camponotus (Colobopsis)* sp. 1
14. *Camponotus (Colobopsis)* sp. 2
15. *Camponotus (Colobopsis)* sp. 3
16. *Camponotus (Colobopsis)* sp. 4
17. *Camponotus (Myrmamblys) reticulatus bedoti* Emery 1925
18. *Camponotus (Myrmamblys)* sp. 5
19. *Camponotus (Myrmopalpella) megalonyx* Wheeler 1919
20. *Camponotus (Myrmoplatys)* sp. 6
21. *Camponotus (Myrmosaulus) camelinus* (Fr. Smith) 1857
22. *Camponotus (Myrmosaulus) singularis* (Fr. Smith) 1858
23. *Camponotus (Myrmotarsus) rufifemur* Emery 1900
24. *Camponotus (Tanaemyrmex) arrogans* (Fr. Smith) 1858
25. *Cladomyrma* sp. 8
26. *Echinopla striata* Fr. Smith 1857
27. *Echinopla trischleri* Forel 1901



Figs. 1–8. 1. *Aenictus dentatus* Forel (Aenictinae); 2. *Cerapachys* sp. 2 (Cerapachyinae); 3. *Dolichoderus cuspidatus* (Fr. Smith) (Dolichoderinae); 4. *Dorylus* sp. (Dorylinae); 5. *Myrmoteras diastematum* Moffett (Formicinae); 6. *Smithistruma* sp. 1 (Myrmicinae); 7. *Probolomyrmex* sp. 1 (Ponerinae); 8. *Tetraponera attenuata* Fr. Smith (Pseudomyrmicinae).

28. *Myrmoteras diastematum* Moffett 1985 (Fig. 5)
29. *Paratrechina* sp. 1
30. *Paratrechina* sp. 2
31. *Polyrhachis (Cyrtomyrma)* sp. 1
32. *Polyrhachis (Hemioptica)* sp. 2
33. *Polyrhachis (Myrma) noesaensis* Forel 1915
34. *Polyrhachis (Myrma) tyrannica* Fr. Smith 1858
35. *Polyrhachis (Myrma)* sp. 3
36. *Polyrhachis (Myrma) vindex* Fr. Smith 1857
37. *Polyrhachis (Myrmhopla) basirufa* Emery 1900
38. *Polyrhachis (Myrmhopla) calypso* Forel 1911
39. *Polyrhachis (Myrmhopla) furcata* Fr. Smith 1858
40. *Polyrhachis (Myrmhopla) rufipes* Fr. Smith 1858
41. *Polyrhachis (Myrmhopla)* sp. 4
42. *Polyrhachis (Myrmhopla)* sp. 5
43. *Polyrhachis (Polyrhachis) bellicosa* Fr. Smith 1859
44. *Polyrhachis (Polyrhachis) bihamata* Durury 1773
45. *Polyrhachis (Polyrhachis) ypsilon* Emery 1887
46. *Pseudolasius* sp. 1

MYRMICINAE

47. *Cataulacus hispidulus* Fr. Smith 1865
48. *Crematogaster (Crematogaster) rogenhoferi* Mayr 1879
49. *Crematogaster (Crematogaster)* sp. 1
50. *Crematogaster (Crematogaster)* sp. 2
51. *Crematogaster (Crematogaster)* sp. 3
52. *Crematogaster (Orthocrema)* sp. 4
53. *Crematogaster (Orthocrema)* sp. 5
54. *Crematogaster (Physocrema) difformis* Fr. Smith 1857
55. *Crematogaster (Physocrema) inflata* Fr. Smith 1857
56. *Crematogaster (Physocrema)* sp. 6
57. *Dilobocondyla* sp. 1
58. *Eurhopalothrix* sp. 3
59. *Lophomyrmex bedoti* Emery 1893
60. *Lordomyrma* sp. 1
61. *Mayriella* sp. 1
62. *Monomorium minutum* (Emery) 1887
63. *Monomorium sechellense* Emery 1894
64. *Myrmicaria* sp. 1
65. *Pheidole plagiaria* Fr. Smith 1860
66. *Pheidole* sp. 1
67. *Pheidole* sp. 2
68. *Pheidole* sp. 3
69. *Pheidole* sp. 4
70. *Pheidole* sp. 5
71. *Pheidole* sp. 6

72. *Pheidole* sp. 7
73. *Pheidole* sp. 8
74. *Pheidologeton affinis* (Jerdon) 1851
75. *Pristomyrmex* sp. 1
76. *Proatta butteli* Forel 1912
77. *Rhoptromyrmex wroughtonii* Forel 1902
78. *Strumigenys* sp. 1
79. *Strumigenys* sp. 2
80. *Strumigenys* sp. 3
81. *Strumigenys* sp. 4
82. *Strumigenys* sp. 5
83. *Strumigenys* sp. 6
84. *Strumigenys* sp. 7
85. *Strumigenys* sp. 8
86. *Smithistruma* sp. 1 (Fig. 6)
87. *Tetramorium adpressum* (Bolton) 1976
88. *Tetramorium curtulum* Emery 1895
89. *Tetramorium meshena* (Bolton) 1976
90. *Tetramorium parvum* Bolton 1977
91. *Trichoscapa* sp. 1
92. *Vollenhovia fridae* Forel 1913
93. *Vollenhovia pertinax* (Fr. Smith) 1861
94. *Vollenhovia* sp. 1

Ponerinae

95. *Anochetus graeffei* Mayr 1870
96. *Anochetus rugosus* (Fr. Smith) 1857
97. *Brachyponera* sp. 1
98. *Diacamma intricatum* Fr. Smith 1857
99. *Diacamma sculptratum* (Fr. Smith) 1859
101. *Gnamptogenys costata* (Emery) 1889
102. *Gnamptogenys menadensis* (Mayr) 1887
103. *Gnamptogenys* sp. 1
104. *Gnamptogenys* sp. 2
105. *Hypoponera* sp. 1
106. *Hypoponera* sp. 2
107. *Hypoponera* sp. 3
108. *Hypoponera* sp. 4
109. *Leptogenys chalybaea* Emery 1887
110. *Leptogenys diminuta* (Fr. Smith) 1857
111. *Leptogenys mutabilis* (Fr. Smith) 1861
112. *Myopias* sp. 1
113. *Odontomachus rixosus* Fr. Smith 1857
114. *Odontoponera transversa nitens* Creighton 1929
115. *Pachyondyla leeuwenhoeki* (Forel) 1886
116. *Ponera* sp. 1

117. *Ponera* sp. 2
118. *Probolomyrmex* sp. 1 (Fig. 7)
119. *Proceratium* sp. 1

PSEUDOMYRMECINAE

120. *Tetraponera attenuata* Fr. Smith 1877 (Fig. 8)
121. *Tetraponera pilosa* (Fr. Smith) 1858
122. *Tetraponera* sp. 1

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